



Database Reference Guide

ARIA - A11



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| Document ID | 100054818-02. |
| Abstract | <i>ARIA Database Reference Guide</i> (P/N 100054818-02) provides reference information and procedures for using the Varian system database structure for preparing and generating reports. This document is the English-language original. |
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- International Classification of Diseases and for Oncology (ICD-O), 3rd edition, Geneva, World Health Organization, 2000.
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Chapter 1 Introduction

The *Database Reference Guide* provides detailed information about the Varian system database, as well as basic relational database information necessary to build queries and reports using the Varian system database.

Audience

This reference guide is written for:

- Medical personnel who need information from the Varian system database.
- Users of InfoMaker who need more information when creating ARIA reports.
- Advanced users who need to customize queries or reports to access the information in the Varian system database.

Changes to Varian Database Tables

New Datatypes

Table 1 Datatypes Added to the Varian System Database

| VDT Name | Microsoft SQL Datatype |
|-----------------------------------|------------------------|
| No new datatypes were introduced. | |

Changes to Database Tables

Columns were added or removed, or datatypes changed, in the following tables in the Varian system database:

Table 2 Changes to Varian System Database Tables

| Table | Change Made | Page |
|--------------------|--------------------------------------|------|
| ActInstProcCode | Added Comment | 211 |
| ActInstProcCodeMH | Added Comment | 215 |
| Activity | Added NotificationPriorTimeFlag | 219 |
| Activity | Added EscalationGroupSer | 219 |
| Activity | Added TreatmentCycleSer | 219 |
| Activity | Added ReviewFlag | 219 |
| Activity | Added UpdCPResourceGroupSer | 219 |
| Activity | Added UpdCPEEscalationGroupSer | 219 |
| Activity | Added AutoGenerateFlag | 219 |
| Activity | Added NoAutoPostFlag | 219 |
| ActivityInstance | Added NotificationPriorTimeFlag | 240 |
| ActivityInstance | Added LastStatusUpdatedByResourceSer | 240 |
| ActivityInstance | Added LastStatusUpdatedDate | 240 |
| ActivityInstance | Added LastNoteUpdatedByResourceSer | 240 |
| ActivityInstance | Added LastNoteUpdatedDate | 240 |
| ActivityInstance | Added WorkFlowOverrideByResourceSer | 240 |
| ActivityInstance | Added WorkFlowOverrideDate | 240 |
| ActivityInstanceMH | Added NotificationPriorTimeFlag | 245 |
| ActivityInstanceMH | Added LastStatusUpdatedByResourceSer | 245 |
| ActivityInstanceMH | Added LastStatusUpdatedDate | 245 |
| ActivityInstanceMH | Added LastNoteUpdatedByResourceSer | 245 |
| ActivityInstanceMH | Added LastNoteUpdatedDate | 245 |

Table 2 Changes to Varian System Database Tables(continued)

| Table | Change Made | Page |
|---------------------|---------------------------------------|------|
| ActivityInstanceMH | Added WorkFlowOverrideByResourceSer | 245 |
| ActivityInstanceMH | Added WorkFlowOverrideDate | 245 |
| ActivityMH | Added NotificationPriorTimeFlag | 222 |
| ActivityMH | Added EscalationGroupSer | 222 |
| ActivityMH | Added TreatmentCycleSer | 222 |
| ActivityMH | Added ReviewFlag | 222 |
| ActivityMH | Added UpdCPRResourceGroupSer | 222 |
| ActivityMH | Added UpdCPEEscalationGroupSer | 222 |
| ActivityMH | Added AutoGenerateFlag | 222 |
| ActivityMH | Added NoAutoPostFlag | 222 |
| Block | Added MillingMachineResourceSer | 86 |
| Block | DrillBitDiameter | 86 |
| Block | SnoutPositionUsedForMillingCorrection | 86 |
| Block | MillingCorrectionConfiguredFlag | 86 |
| BrachyField | Removed entire table | N/A |
| ChartQATreatment | Added RadiationHstrySer | 92 |
| ChartQATreatment | Deleted TreatmentFieldHstrySer | 92 |
| ClinicalConcept | Removed entire table | N/A |
| Context | Removed entire table | N/A |
| Course | Deleted Intent | N/A |
| Course | Added TransactionId | N/A |
| DoseContribution | Removed entire table | N/A |
| ExternalBeam | Added PrimaryDosimeterUnit | 361 |
| ExternalBeam | Added ShutterError | 361 |
| ExternalField | Added this new table | 106 |
| ExternalFieldCommon | Added this new table | 111 |

Table 2 Changes to Varian System Database Tables(continued)

| Table | Change Made | Page |
|--------------------------|--------------------------------|------|
| ExternalFieldCommonHstry | Added this new table | 115 |
| ExternalFieldHstry | Added this new table | 119 |
| Field | Removed entire table | N/A |
| FieldPhoto | Added DisplaySequence: | 125 |
| FieldProton | Added ScanningTechnique | 126 |
| FieldProton | SpotListFile | 126 |
| FieldRefPoint | Removed entire table | N/A |
| FieldRefPointMH | Removed entire table | N/A |
| FieldStructure | Deleted StructUserSer | N/A |
| Fractionation | Removed entire table | N/A |
| Hospital | Added MailServerAddress | 186 |
| ImageContext | Removed entire table | N/A |
| ImagingDevice | Removed CompressionAlg | N/A |
| ImagingDevice | Added ConeBeamFlag | 364 |
| ImagingDevice | Deleted ImageStoreFormat | N/A |
| ImagingDevice | Deleted Type2D3D | N/A |
| MLCPlanMH | Removed entire table | N/A |
| NonScheduledActivity | Added WorkFlowActiveFlag | 322 |
| NonScheduledActivityMH | Added WorkFlowActiveFlag | 322 |
| Patient | Added Ethnicity | 63 |
| Patient | Added MobilePhoneProviderSer | 63 |
| PatientDepartment | Added this new table | 71 |
| PatientDoctor | Added PrimaryCarePhysicianFlag | 187 |
| PlanSetup | Removed ClinicalConceptSer | N/A |
| PlanSetup | Added TransactionId | 135 |

Table 2 Changes to Varian System Database Tables(continued)

| Table | Change Made | Page |
|-------------------|--------------------------------|------|
| PlanSetup | Added ImageSer | 135 |
| PlanSetup | Added PrescriptionSer | 135 |
| PlanSum | Added ImageSer | 143 |
| PlanSum | Added HstryTaskName | 143 |
| PointOfContact | Added EntrustedContactFlag | 78 |
| Prescription | Added this new table | 145 |
| ProcedureCode | Deleted DICOMCodeSchemeSer | N/A |
| ProcedureCode | Deleted Duration | N/A |
| ProcedureCodeMH | Deleted DICOMCodeSchemeSer | N/A |
| ProcedureCodeMH | Deleted Duration | N/A |
| Radiation | Added RadiationNumber | 150 |
| Radiation | Added TechniqueLabel | 150 |
| Radiation | Added RadiationOrder | 150 |
| Radiation | Added RefImageSer | 150 |
| Radiation | Added SetupNote | 150 |
| Radiation | Added RefImageUID | 150 |
| Radiation | Added RefImageSOPClassSer | 150 |
| Radiation | Added CreationDate | 150 |
| Radiation | Added CreationUserName | 150 |
| Radiation | Deleted ExtendedDataFileName | N/A |
| RadiationDevice | Added CompletelyModelled | 373 |
| RadiationHstry | Added this new table | 153 |
| RadiationRefPoint | Added this new table | 158 |
| RadiationRefPoint | Added NominalFlag | 158 |
| RefPointHstry | Added RadiationHstrySer | 163 |
| RefPointHstry | Deleted TreatmentFieldHstrySer | N/A |

Table 2 Changes to Varian System Database Tables(continued)

| Table | Change Made | Page |
|----------------------|--------------------------------|------|
| ResourceActivity | Removed entire table | N/A |
| RTPlan | Added this new table | 165 |
| ScheduledActivity | Added WorkFlowActiveFlag | 332 |
| ScheduledActivityMH | Added WorkFlowActiveFlag | 335 |
| SequenceImage | Removed entire table | N/A |
| Series | Added ResourceSer | 298 |
| Series | Added RelatedCourseSer | 298 |
| Series | Added RelatedPlanSetupSer | 298 |
| Series | Added RelatedRadiationSer | 298 |
| Series | Added RelatedDiagnosisSer | 298 |
| Session | Deleted Status | N/A |
| SessionProcedurePart | Added this new table | 170 |
| Slice | Added TransactionId | 302 |
| Slice | Added ActualPatientWeight | 302 |
| Slice | Added ActualPatientHeight | 302 |
| Slice | Added ContributingEquipmentSer | 302 |
| Slice | Added SOPClassSer | 302 |
| Slice | Added AcquisitionDateTime | 302 |
| Slice | Added IrradiationEventUID | 302 |
| Slice | Deleted SliceSubModality | N/A |
| SliceRT | Added RadiationSer | 313 |
| SliceRT | Added PlanSetupSer | 313 |
| SliceRT | Added RadiationMachineName | 313 |
| SourcePosition | Added DwellTimeLockedFlag | 356 |
| SourcePosition | Added DwellTimeMaxLimit | 356 |
| SourcePosition | Added DwellTimeMinLimit | 356 |

Table 2 Changes to Varian System Database Tables(continued)

| Table | Change Made | Page |
|---------------------|---------------------------|------|
| Study | Added RelatedCourseSer | 319 |
| Study | Added RelatedDiagnosisSer | 319 |
| Study | Deleted RelatedSer | N/A |
| Study | Deleted RelatedType | N/A |
| TemplateCycle | Deleted PredecessorSer | N/A |
| TemplateCycleMH | Deleted PredecessorSer | N/A |
| TFHAddOn | Removed entire table | N/A |
| TFHNote | Removed entire table | N/A |
| TreatmentCycle | Added ObjectStatus | 286 |
| TreatmentCycle | Added SortOrder | 286 |
| TreatmentFieldHstry | Removed entire table | N/A |
| TreatmentRecord | Added this new table | 178 |

Visual Cues

ARIA documentation uses the following notational conventions:



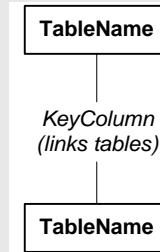
Note: Notes describe actions or conditions that can help you obtain optimum performance from the equipment or software.

The *Database Reference Guide* also uses the following styles of font visual cues to help you locate and identify information. See “Terminology” on page 22 for a discussion of database terms used throughout this document.

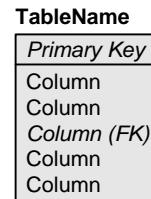
| | |
|-------------------------|--|
| Bold Text | Special names in diagrams and descriptions, buttons, ULR addresses and other elements are shown in bold. |
| <i>Italic Text</i> | Identifies the names of publications or chapters within a publication. Italic is also used to indicate a table and column names, along with special terms. |
| Table and Entity | Used interchangeably in this document. |

| | |
|-----------------------------|---|
| Column and Attribute | Used interchangeably in this document. |
| Foreign Key (FK) | A foreign key is a column that is the primary key in another table. |
| Alternate Key (AK) | This column, along with the primary key, forms a unique combination of values. |
| Inversion Entry (IE) | An inversion entry represents an additional way in which to access the data. An inversion entry is an attribute or group of attributes which will commonly be used to access the entity, but may result in finding several inversion entries for an entity. |

Key columns in table diagrams and descriptions are italicized.



The table name is shown above the table diagram. Primary keys are shown first, followed by a line, followed by the remaining columns in the table. Keys are used to link tables.



Depending upon the table and its use, there may be other columns within the list of columns that serve as links between tables. Columns that link two tables often share the same name in both tables.

Learning About ARIA

ARIA is an oncology information system that includes a suite of clinical applications, as well as the RDBMS (relational database management system), which is commonly called the Varian system database. To help you learn more about ARIA applications, refer to the following sources:

- ***InfoMaker Reports Reference Guide (P/N100034988)*** — Explains how to run and print the predefined InfoMaker reports that are provided with ARIA.
- ***Designing Reports Reference Guide (P/N 100054247)*** — Describes how to design speciality reports to access information from your Varian system database, use predefined reports, customize existing queries and reports, and create new queries and reports.
- ***ARIA Information Systems Library CD*** — Refers to some of the ARIA modules, specifically those involved with the management of the radiation treatment practice.
- ***ARIA Reports Schema poster (P/N 100017426)*** — Shows relationships between tables in the Varian system database.
- ***Understanding Relational Databases by Fabian Pascal*** — Provides additional technical information on relational databases.

Contact Varian Customer Support

Support services are available without charge during the initial warranty period. Use this contact information to get additional copies of documentation or to search for documentation online.

The best way to get support is at My.Varian.com. You must have a Varian account to get online customer support.

Create a Varian Account

1. Go to <http://my.varian.com>.
2. Click **Create New Account** and follow the instructions.

Establishing an account may take a few days.

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1. Go to <http://my.varian.com>.
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Documents include:

- Manuals
- CTBs
- Release Notes
- Education Materials
- Webinars
- Application Quick Tips

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ARIA Information Systems and *ARIA Radiation Oncology* modules use a relational database management system (RDBMS) to store data about patients and their courses of treatment. ARIA requires the data to support the built-in functions of the application. In addition, you may want to create special queries and reports that summarize the data in ways not already provided. To do so, you must understand how relational databases work in general, and how the Varian system database is constructed in particular.

This chapter introduces the relational database concepts you will need to understand the Varian system database, with the Varian system database structure used to present examples. If you are already familiar with these concepts, you can skip this chapter and go directly to “Building Queries and Reports” on page 45” which provides several examples of how to use the Varian system database with any relational database reporting tool.

Relational Database Concepts

Suppose you were using a manual, paper-and-pencil system to keep track of patients, doctors, and appointments in a clinic. How would you organize the information?

- You might use a stack of 3x5 cards to keep track of basic data on each patient such as the patient’s name, date of birth, telephone number, and gender.
- You might keep a second stack of 3x5 cards to keep track of basic data on each doctor such as the doctor’s name, practice specialty, phone extension in the clinic, and pager number.
- You might use an appointment book to keep track of appointments with each doctor. Imagine an appointment book similar to the following.

Appointments of Each Doctor

| Tuesday, 3/21/2000 | | | |
|--------------------|--------------|---------------|--------------|
| | Dr. Thompson | Dr. Morgan | Dr. Robinson |
| 9:00 | Mr. Johnson | Mrs. Cain | Mr. Raymond |
| 9:30 | Mr. Johnson | Mr. Simon | Mrs. Larson |
| 10:00 | Mrs. Kaplan | Mr. Jones | Mrs. Stanton |
| 10:30 | Mrs. Logan | Mr. Samuelson | Mr. Jones |

Suppose Dr. Morgan calls in on Monday to report that she's been called away for Tuesday morning and needs to cancel her 9:00 and 9:30 appointments. You would look in the appointment book under *Dr. Morgan*, find Mrs. Cain and Mr. Simon as the two patients who need to be called. Then, you would go to the stack of 3x5 cards for patients and look up their phone numbers. After calling the patients, you might go to the stack of 3x5 cards for the doctors, find Dr. Morgan's phone number, and leave a message telling her that the two appointments have been cancelled.

In this example, there are three *entities*:

- patients
- doctors
- appointments

In general, an entity is a collection of individual things that need to be tracked.

Each entity has a set of *attributes* (characteristics) that need to be recorded for each individual associated with the entity. For example, attributes of the patient entity might include name, date of birth, home phone number, and gender. Any characteristic of a patient that you want to track would become an attribute of the patient entity.

In a relational database, each entity is stored in a *table*. In the simple example, three tables are created, one for patients, one for doctors, and one for appointments. Think of the table in terms of rows and columns. Each *row* of a table represents an individual in the entity. Each *column* of a table represents one attribute of the entity. A *cell* in a table contains the data for one attribute of one individual.

A portion of the table representing the patient entity might be:

Patient

| Name | BirthDay | Sex | HomePhone |
|---------|----------|-----|--------------|
| Cain | 6/6/1945 | F | 510-555-6420 |
| Simon | 5/5/1955 | M | 408-555-9753 |
| Johnson | 4/4/1965 | M | 415-555-1234 |
| Kaplan | 3/3/1960 | F | 415-555-1357 |
| Logan | 2/2/1950 | F | 408-555-8765 |

In this example, the data stored in the cell of the patient table under the BirthDay attribute for the individual named *Simon* is 5/5/1955.

The appointment table represents a relationship between a doctor, a patient, a date, and a time. A portion of the table containing the appointment entity could be like the following:

Appointment

| Doctor | Patient | Date | StartTime | Duration |
|----------|---------|-----------|-----------|----------|
| Thompson | Johnson | 3/21/2000 | 9:00 | 60 |
| Morgan | Cain | 3/21/2000 | 9:00 | 30 |
| Robinson | Raymond | 3/21/2000 | 9:00 | 30 |
| Morgan | Simon | 3/21/2000 | 9:30 | 30 |

Linking Tables with Key Columns

Notice that there is something special about the Doctor and Patient attributes of an appointment. Each is really a link to information in the other tables. Attributes (or columns) used to link information between two or more tables are called *keys*.

Suppose that you needed to compute Simon's age on the date of the appointment. To do so, you would use the Patient column in the Appointment table to get *Simon*. Then you would look up *Simon* in the

Name attribute of the Patient table, and retrieve his BirthDate, 5/5/1955. Comparing that to 3/21/2000 (the date in the Appointment table), you can see that Simon is 44 years old.

In order for this to work properly, a key column should uniquely identify a single row in a table. Using the person's last name as the key, as used in the example so far, is usually a bad idea because the last name does not uniquely select one individual. Notice that you cannot tell from the data whether the two *Mr. Jones* entries in the Appointment book represent the same individual, or whether there are two people with the name *Jones*.

To solve this problem, it is common to assign a unique key to each individual in an entity, such as an account number, patient number, or serial number. Most tables in ARIA have at least one serial number column that is used as a key column. Key columns in ARIA often contain *Ser* as part of the column name to indicate this is a serial number. A key column that uniquely identifies a row in a table is called a primary key.

A portion of the New Patient table might be:

NewPatient

| PatientSer | Name | BirthDay | Sex | HomePhone |
|------------|---------|----------|-----|--------------|
| 40016 | Cain | 6/6/1945 | F | 510-555-6420 |
| 29922 | Simon | 5/5/1955 | M | 408-555-9753 |
| 60945 | Johnson | 4/4/1965 | M | 415-555-1234 |
| 95142 | Kaplan | 3/3/1960 | F | 415-555-1357 |
| 35831 | Logan | 2/2/1950 | F | 408-555-8765 |

Notice also, that to compute Simon's age, you need to understand that 5/5/1955 and 3/21/2000 both represent dates. To conclude that Simon is 44 years old, you must understand dates and how to perform arithmetic with them. In a relational database, each column has a *datatype*, indicating what kind of data is contained in each cell of the column. All of the entries in the column must be of the same datatype.

Datatypes used in ARIA include integers, dates, alphanumeric characters (text), images, money, and floating-point numbers. For more information, see "Terminology" on page 22.

Entity Relationships

In relational databases, only one data item may appear in any cell. Thus, it is easy to represent attributes that can have only one value. For example, each patient has exactly one date of birth, so there is no problem storing the patient's date of birth in the BirthDate column. In technical terms, Patient and BirthDate have a *one-to-one* relationship.

Other attributes, such as phone number, may have more than one value for some individuals. In this case, the relationship is said to be *one-to-many*. Using 3x5 cards, you would probably just squeeze a second phone number into the space reserved for phone numbers. But using a relational database, you must use another table to store the list of phone numbers. This situation often reveals that a new entity is required.

To extend the example, an entity called *Address* can be added. Then each address and phone number can be stored in the Address table, with a key attribute (*PatientSer*) linking the address to a patient. So, if Mrs. Cain maintains a residence in the city and a vacation home as well, a portion of the Address table might be:

Address

| PatientSer | Street | City | State | Zip | Phone |
|------------|---------------------|--------------|-------|-------|--------------|
| 40016 | 1325 Capitol Street | Gotham | CA | 94123 | 510-555-6420 |
| 40016 | 420 Winding Way | Vacation Bay | CA | 94321 | 415-555-2925 |
| 29922 | 2930 Andover Ave. | Gotham | CA | 94123 | 408-555-9753 |
| 81385 | 1325 Capitol Street | Gotham | CA | 94123 | 510-555-6420 |
| 81385 | 420 Winding Way | Vacation Bay | CA | 94321 | 415-555-2925 |

Now, given Mrs. Cain's serial number from the NewPatient table (40016), you can find her two phone numbers in the Address table above.

Notice next that the relationship between people (patients) and addresses is not really one-to-many. Instead, the relationship is *many-to-many*, since a person may have more than one address while an address may have more than one resident. For example, suppose Mr. Cain is also a patient (his serial number is85) and has the same two residences as Mrs. Cain. How can this situation be represented efficiently in relational tables such that the same data is not stored more than once?

First, modify the Address table to include a serial number for each address, uniquely identifying each address in the table. Next, create a new table that simply stores the many-to-many relationship. Such a table is often called a *correlation table*.

Using a correlation table eliminates the need to store the same information more than once. If the Address table uses the patient's serial number to uniquely identify a row (as in the Address table above), then the two addresses for Mrs. and Mr. Cain must be stored twice; once for Mrs. Cain using her unique *PatientSer* and once for Mr. Cain using his unique *PatientSer*. Instead, an Address table can be used that includes a unique serial number for each address. This reduces the amount of duplicate information stored in the tables of the database. The new Address table, using *AddressSer* as the unique identifier, might be:

Address

| AddressSer | Street | City | State | Zip | Phone |
|------------|---------------------|--------------|-------|-------|--------------|
| 605513 | 1325 Capitol Street | Gotham | CA | 94123 | 510-555-6420 |
| 298432 | 420 Winding Way | Vacation Bay | CA | 94321 | 415-555-2925 |
| 804321 | 2930 Andover Ave | Gotham | CA | 94123 | 408-555-9753 |

The Patient table in the example remains the same; *PatientSer* uniquely identifies the rows in the table.

Patient

| PatientSer | FirstName | LastName | BirthDay | Sex |
|------------|-----------|----------|-----------|-----|
| 40016 | Josephine | Cain | 6/6/1945 | F |
| 81385 | Lawrence | Cain | 3/12/1943 | M |
| 29922 | Thomas | Simon | 5/5/1955 | M |
| 60945 | Lamar | Johnson | 4/4/1965 | M |
| 95142 | Jeanne | Kaplan | 3/3/1960 | F |
| 35831 | Mary | Logan | 2/2/1950 | F |

The new correlation table that correlates the patients in the Patient table to their addresses in the Address table might be:

PatientAddress

| PatientSer | AddressSer | PrimaryFlag |
|------------|------------|-------------|
| 40016 | 605513 | Yes |
| 40016 | 298432 | No |
| 81385 | 605513 | Yes |
| 81385 | 298432 | No |
| 29922 | 804321 | Yes |

It takes much less space to store numbers that correlate patients and addresses than it takes to store the addresses multiple times. By convention, correlation tables are often named by combining the names of the two tables being related. So the PatientAddress table represents the many-to-many relationship between patients and addresses.

Notice that these correlation tables may also include their own attributes. The attribute PrimaryFlag stores Yes or No depending on whether the given address is the given patient's primary address.

Queries and Reports

You may think that the PatientAddress table is difficult to work with because the serial numbers are meaningless. This is true for humans, but not for computers. Relational database applications can easily use the information in such tables. To see the information in the PatientAddress table in a more useful form, you use a *query* or *report*. A query is a request for information from the database. A report is the result of a query that is attractively formatted. Queries are usually displayed on screen; reports are often intended to be printed.

For example, you might ask the database to give you a list containing the attributes FirstName and LastName from the Patient table, along with Phone from the Address table, where:

LastName (from Patient) = "Cain"

and PatientSer (from Patient) = PatientSer (from PatientAddress)

and AddressSer (from PatientAddress) = AddressSer (from Address)

The database would return the following results from the query:

Query Results

| FirstName | LastName | Phone |
|-----------|----------|--------------|
| Josephine | Cain | 510-555-6420 |
| Lawrence | Cain | 415-555-2925 |
| Lawrence | Cain | 510-555-6420 |
| Josephine | Cain | 415-555-2925 |

Although the data is stored in separate tables linked together by meaningless serial numbers, you can usually get the answers you want in a useful form by creating the right query.

Notice that to construct the query, you must know what data is stored in what tables, and how the tables can be linked together to retrieve the data. In the preceding example, you need to know:

- FirstName and LastName are stored in the Patient table.
- Phone is stored in the Address table.
- PatientAddress is a correlation table for patients and addresses.
- *PatientSer* is a key for the Patient and PatientAddress tables, linking the two.
- *AddressSer* is a key for the PatientAddress and Address tables, linking the two.

Reports are similar to queries in that you specify what data you want to show and how to find the data. In addition, you specify how you want the data formatted and sorted. You could, for example, create a formatted list of all patients and their phone numbers, sorted alphabetically.

The Structured Query Language (SQL) statement that could provide data for the formatted list is:

```
SELECT
    FirstName,
    LastName,
    Phone
FROM
    Patient,
    Address,
    PatientAddress
WHERE
    Patient.PatientSer = PatientAddress.PatientSer
    AND PatientAddress.AddressSer = Address.AddressSer
ORDER BY
    LastName ASC,
    FirstName ASC
```

The general form of the SQL statement is:

```
SELECT
    List of columns
FROM
    List of tables
WHERE
    List of table links (joins)
AND List of conditions
```

ORDER BY

List of columns in sort order showing ASC (ascending) or DESC (descending) for each column

All reporting tools generate the actual SQL code as you graphically select tables and columns, link tables, and set conditions.

Entity-Relationship Diagrams

Entity-relationship (ER) diagrams are often used to help users and developers understand a large collection of related tables in a database. ER diagrams display entities in labeled boxes connected to one another by lines labeled by the key fields used to link entities to one another. You can use ER diagrams to search visually for a path linking one entity to another. The path is a series of entities and key columns that connect two entities not directly related to one another. The *Aria* Database User's Schema poster is an ER diagram.

Terminology

This section defines terms and concepts that are used throughout this document.

Attribute

A characteristic of an entity. For example, date of birth is an attribute of a person. Attributes are stored in columns of a table. An attribute is also called a column in this reference.

Cell

The intersection of a row and a column in a table. It contains a single value that represents one attribute (for instance, birth date) of one row (for instance, one patient).

Column

A structure that stores a specific type of data in a table. Each column in a table stores one attribute of the entity. For example, the Date of Birth column stores birthdays for all patients in the database. A column may also be referred to as a field. A column is also called an attribute in this reference.



Note: Because the term field in the context of radiation oncology refers to a treatment field, this reference uses column to refer to a database field, and field to refer to a treatment field.

Correlation Table

A table that stores the many-to-many relationship between two tables. A correlation table correlates the records in one table with the records in another table.

Dose

All doses in the Varian system database are stored in Gray (Gy), a unit of absorbed dose, defined as the transfer of one joule of energy per kilogram of absorbed material. One Gy equals rads. Once centigray (cGy) equals one rad.

Database

A collection of tables. The Varian system database defines the essential relationships between the patient, course of treatment, resources, schedules, images and charges.

Datatypes

Table, procedure, and view descriptions have a Datatype column that lists the ARIA virtual datatype (VDT) and its common equivalent datatype. The VDT is a database independent, formal definition of a field's datatype. The common equivalent datatypes are not precise but serve as general purpose guides when creating reports. The following sections describe the common equivalent datatypes and provides a table that maps VDTs to Microsoft SQL datatypes.

Binary

Binary data consists of the characters 0 through 9 and A through F (or a through f), in groups of two characters each. The binary datatype is used for bit patterns.

Character

One or more alphanumeric characters: letters, numbers, punctuation marks, and so on.

Numbers that come from a column whose datatype is defined as Character or Text are string representations of numbers. To perform arithmetic on these values they must first be converted to numbers.

Similarly, a text column that contains what appears like a date is not a real date. You cannot perform date-oriented computations with text. To perform date calculations, the datatype for a column that contains dates must be set to Date, or you must convert the text-based date into a date that has a *Datetime* datatype.

Currency

The value of money expressed in the monetary system module to your installation of ARIA.

Datetime

Date and time in the format *mm/dd/yy hh:mm:ss*.

Float (Floating Point Number or Decimal Number)

Positive and negative numbers that *can* contain fractional parts, such as 1.0, 1.1, 32.5, 1000.2, -5.35, and 0.0. The number of digits before and after the decimal point can vary, so the decimal point is said to “float.”

For example, the gantry rotation angle is stored as a floating point number. It might have a value of 270.0 degrees.

Note: *Although the number 270 can be stored as an integer or a floating point number, and both numbers look the same and have the same value, they are treated by the database as two separate datatypes.*



Integer

A positive or negative whole number (it cannot have a decimal point), such as 1, 32, 1000, -5, and 0. Integers cannot have fractional parts.

Integers can also be stored as a Boolean datatype, which means it can return only a 0 or a 1. The 0 and 1 represent Yes and No or True and False.

For instance, the PrimaryFlag column in the PatientDoctor table returns a boolean value that represents a Yes/No response to the question “Is this doctor the primary physician for this patient?” or a True/False response to the statement “This doctor is the primary physician for this patient.”

If the OncologistFlag in this table is also set to one, then the doctor referenced is the primary oncologist for the patient.

The standard used throughout the ARIA system when integers are stored as a Boolean datatype is:

0 = no or false

1 = yes or true



Note: An empty value in a flag column is called a NULL value (although strictly speaking, it is not actually a value). For instance, if a patient was not asked whether they have had a prior illness, the value could not possibly be Yes or No, so it is left empty, or NULL, in this case meaning “not asked.”

Image

Digital photo of a person or treatment site. The image is stored in an individual file that is referred to by the database.

VDT Mapping

A virtual datatype (VDT) is a database independent description of the type of data found in a field. The following table defines the current implementation of the VDT in terms of its underlying Microsoft SQL database datatype of a table, procedure and view.

Table 3 VDT Name to Microsoft SQL Datatype

| VDT Name | Microsoft SQL Datatype |
|---------------|------------------------|
| VDT_ACQADJUST | float |

Table 3 VDT Name to Microsoft SQL Datatype(continued)

| VDT Name | Microsoft SQL Datatype |
|------------------------|------------------------|
| VDT_ACTIVITYCODE | varchar(64) |
| VDT_ACTIVITYDAYCMPNNT | varchar(56) |
| VDT_ADDRESSLINE | varchar(64) |
| VDT_ADDRESSTYPE | varchar(64) |
| VDT_ANGLE | float |
| VDT_CLINICALSTATUS | varchar(16) |
| VDT_CODEVALUE | int |
| VDT_COLLMODE | varchar(16) |
| VDT_COLLPARAM | float |
| VDT_COLORFLAG | int |
| VDT_COLORREF | binary(4) |
| VDT_COMMENT | varchar(254) |
| VDT_CONFIGURATION | varchar(254) |
| VDT_CONTOURPOINTS | image |
| VDT_COORDINATE | float |
| VDT_COUCHPARAM | float |
| VDT_COUNT | int |
| VDT_CRC | binary(32) |
| VDT_DATETIME | datetime |
| VDT_DATETIMESTAMP | datetime |
| VDT_DESCRIPTION | varchar(64) |
| VDT_DEVGEOMETRY | int |
| VDT_DIAGNOSISCODE | varchar(16) |
| VDT_DIAGNOSISTABLENAME | varchar(64) |
| VDT_DISPLAYCODE | varchar(32) |
| VDT_DISTANCE | float |

Table 3 VDT Name to Microsoft SQL Datatype(continued)

| VDT Name | Microsoft SQL Datatype |
|------------------------|------------------------|
| VDT_DOSE | float |
| VDT_DOSERATE | int |
| VDT_ENERGY | int |
| VDT_ENERGYSYMMODE | varchar(16) |
| VDT_ENUM | smallinteger |
| VDT_ERRORCODE | int |
| VDT_ERRORLABEL | varchar(32) |
| VDT_FILENAME | varchar(254) |
| VDT_FLAG | int |
| VDT_FLAG_FALSE_DEFAULT | int |
| VDT_FLAG_TRUE_DEFAULT | int |
| VDT_FLOAT | float |
| VDT_FLOAT30 | varbinary(240) |
| VDT_GENTMPLTID | varchar(64) |
| VDT_HSTRYUSERNAME | varchar(32) |
| VDT_ID | varchar(16) |
| VDT_IDEXTENSION | int |
| VDT_IMAGE | image |
| VDT_INT | int |
| VDT_INTENT | varchar(16) |
| VDT_INTERNALCODE | int |
| VDT_JAWSTATE | float |
| VDT_LANGUAGE | varchar(16) |
| VDT_MANUFACTSERIALNO | varchar(64) |
| VDT_MINFIELDLENGTH | int |
| VDT_MLCPARAM | smallint |

Table 3 VDT Name to Microsoft SQL Datatype(continued)

| VDT Name | Microsoft SQL Datatype |
|-----------------------|------------------------|
| VDT_MODALITY | varchar(16) |
| VDT_MODE | varchar(16) |
| VDT_MONEY | money |
| VDT_MU | int |
| VDT_MUDEG | float |
| VDT_NAME | varchar(64) |
| VDT NAMESUFFIX | varchar(16) |
| VDT_NUMBER | int |
| VDT_OBJECTSTATUS | varchar(16) |
| VDT_ORDER | int |
| VDT_OVERRIDEFLAG | tinyint |
| VDT_PARAM | varchar(16) |
| VDT_PATIENTID | varchar(25) |
| VDT_PHONENUMBER | varchar(64) |
| VDT_PICTURE | image |
| VDT_POSITION | float |
| VDT_POSTALCODE | varchar(16) |
| VDT_RESOLUTION | float |
| VDT_REVISIONCOUNT | int |
| VDT_SAFETYTOLERANCEID | varchar(16) |
| VDT_SCALE | varchar(16) |
| VDT_SELECTIONSTATUS | int |
| VDT_SERIALNUMBER | int |
| VDT_SEX | char(16) |
| VDT_STATUS16 | varchar(16) |
| VDT_STATUS32 | varchar(32) |

Table 3 VDT Name to Microsoft SQL Datatype(continued)

| VDT Name | Microsoft SQL Datatype |
|--------------------|------------------------|
| VDT_STRING1 | varchar(1) |
| VDT_STRING5 | varchar(5) |
| VDT_STRING128 | varchar(128) |
| VDT_STRING16 | varchar(16) |
| VDT_STRING20 | varchar(20) |
| VDT_STRING254 | varchar(254) |
| VDT_STRING32 | varchar(32) |
| VDT_STRING512 | varchar(512) |
| VDT_STRING64 | varchar(64) |
| VDT_STRING1024 | varchar(1024) |
| VDT_TABLENAME | varchar(30) |
| VDT_TASKNAME | varchar(32) |
| VDT_TECHNIQUE | varchar(16) |
| VDT_TEXT | text |
| VDT_TEXT16K | text |
| VDT_TIME | float |
| VDT_TIMESLOT | int |
| VDT_TRANSFORMATION | binary(96) |
| VDT_TREATMENTTYPE | varchar(16) |
| VDT_TRIPLEFLOAT | binary(24) |
| VDT_TRTSTRTGID | varchar(64) |
| VDT_TUMORSIZE | float |
| VDT_TYPE | varchar(32) |
| VDT_UID | varchar(64) |
| VDT_USERDEFATTRIB | varchar(16) |
| VDT_USERID | int |

Table 3 VDT Name to Microsoft SQL Datatype(continued)

| VDT Name | Microsoft SQL Datatype |
|--------------|------------------------|
| VDT_USERNAME | varchar(32) |

Entity

A collection of items with similar attributes that must be represented and tracked in a database. For example, a person, employer, machine, address and schedule are collections that must be tracked.



Note: *A table is used to store the values of an entity's attributes. The table is usually named to describe the entity, such as Patient or Employer. So the terms entity and "table" are synonymous, as are the terms attribute and column.*

Entity Relationship (ER) diagram

A graphical representation of the entities (tables) in a database, along with the relationships that link those entities to each other. The ARIA Reports Schema poster is a simplified ER diagram of the Varian system database.

Foreign Key (FK)

A key column from another table that serves as a key in the current table. A foreign key can be the primary key for a table, part of the primary key, or a non-primary key.

For example, in the PatientParticular table, PatientSer is both a foreign key (from the Patient table) and the primary key for the PatientParticular table. However, in the Course table, PatientSer (FK) is a non-primary foreign key because it is not part of the primary key and comes from the Patient table (in which PatientSer is the primary key).



Note: *Although foreign keys are identified by (FK) following the column name, the (FK) is not actually part of the column name—it is only there to indicate that it is a foreign key.*

Key

A column that is used as an entry point in a table. Because a table is indexed according to its key columns, it is much more efficient to use a table's key column as an entry point rather than an unindexed (non-key) column.

In the Varian system database, a serial number (identified by columns that end with Ser) for an item is often used as a table's primary key or other key column.

Note: *Although History columns (column names that start with Hstry) and Comment columns are common to many tables, they would not be useful as keys.*



Link

A connection between two tables. Key columns serve as links between tables. Tables are often linked (joined) using the key columns that have the same name in both tables. For example, the Patient table can link to the Course table using the common key column PatientSer.

Modification History (MH)

A table that contains a complete historical accounting of all changes made to the data stored in the related table. When a record is modified, the old information is saved as a new record in the modification history table, and RevisionCount for that record is incremented. Tables used as modification history have MH appended to the table name.

Primary Key

One or more columns that uniquely identify a row in a table. There can be only one primary key for each table, and every table must have a primary key. However, a table might need more than one column to uniquely identify a single row.

Note: *A primary key that is made up of more than one column is called a composite primary key.*



For example, the FieldRefPoint correlation table uses three columns (FieldSer, FractionationSer, and RefPointSer) as its composite primary key. These three columns together uniquely identify a single row in that table.

In the *ARIA Reports Schema* poster, the primary key is shown in the upper portion of each table (above the line in the box).

Query

A request for information from a database. Using a query, you can:

- Specify the columns containing the information you want to view. For example, you might choose to include the DateOfBirth column from the Patient table.
- Establish relationships between database tables that contain the desired columns by linking the tables to each other. For example, the Patient table is linked to the Diagnosis table by PatientSer.
- Restrict the type and quantity of information retrieved. For example, only retrieve data for patients who have a particular diagnosis.

The query application communicates with the database using Structured Query Language (SQL) commands. When you execute a query, the query application searches the specified columns in the database and, from those columns, retrieves the data that matches the specified conditions. The result of the query is a view, or “snapshot,” of a selected portion of the database that conforms to the conditions you specified

Record

A collection of values related to one item in a table. For example, each person has a record in the Patient table that contains the specific information for that person. Records are stored in rows of a table.Relationship

Relationship

A connection between two tables. Relationships can be one-to-one, one-to-many, or many-to-many. On the *ARIA Reports Schema* poster, relationships between tables are identified by lines connecting the tables. The endpoints of the line indicate the type of relationship between the tables.

However, it is possible to link two tables that do not have an explicit line between those tables in the schema poster. You can link tables using any key column that is common to both tables. For example, you can link the Patient table directly to the Course table using the PatientSer key column.



Note: *The colored lines on the database schema poster have no special meaning — they are only used to help you trace lines between tables.*

Relationship Type Identifier

An attribute in the *parent* table that identifies the type of entity connected to a specific row in that table.

On the *Aria Reports Schema* poster, relationship type identifiers are indicated with the ○ symbol and labeled with the name of the type identifier. The table connected to the top of the circle is the parent table.

For example, ResourceType is an attribute in and a type identifier for the Resource table. It identifies the type of resource stored in and connected to the Resource table. Valid types for ResourceType include *Doctor, Staff, Machine, Venue, and Auxiliary*.

Report

The formatted result of a query. The result of a query is raw, unformatted data. A report presents this data in a more easy-to-read format for presentation on a screen or printed on paper.

Row

Stores information in a table about one item. For example, one row in the Patient table would contain information about one person, such as their serial number, first and last name, date of birth, and so on.

Schema

The structure of a database. A schema shows all tables and how they relate to each other. The poster provided with this document is a simplified schema for the latest version of the Varian system database.

SQL

Structured Query Language. A high-level language used by many relational database management systems. It is a data access and maintenance language. Using SQL commands, you can:

- Retrieve data from a database.
- Create a new database and database tables.
- Add new data or modify existing data.



Note: *The reporting tools provided with ARIA allow read-only use of SQL commands.*

The general form of the SQL statement is:

```
SELECT  
    List of columns  
FROM  
    List of tables  
WHERE  
    List of table links (joins)  
    AND List of conditions  
ORDER BY  
    List of columns in sort order showing ASC (ascending)  
    or DESC (descending) for each column
```

All reporting tools generate the actual SQL code as you graphically select tables and columns, link tables, and set conditions.

Stored Procedure

A precompiled collection of SQL statements that can take and return user-supplied parameters. Stored procedures make it easy to retrieve complex sets of data from the database.

Several reports included in the standard ARIA Reports module use stored procedures as their data source. The Chart Check report uses a stored procedure called *vp_GetChartCheckReport2* to retrieve the data needed for the report.



Note: Although there are over 0 stored procedures in the Varian system database, only those listed in “Stored Procedures” on page 416 are accessible for use in reports.

Table

A collection of related information that is organized into rows and columns.

View

A specific selection of columns from related tables in the database. The tables, columns, and links are predefined in the view. A single database can support numerous views. Views do not affect the actual physical organization of the database. Think of a view as a predefined arrangement of tables, columns, and links necessary to extract specific information and generate a specific report.

Zone

A collection of related tables organized into a group, and color-coded for ease of identification. The Varian system database is organized into the following twelve zones:

- Patient Demographics
- Course of Treatment
- Resource
- Charges/Billing
- Schedule
- System
- Views
- Brachytherapy
- Machine
- Stored Procedures
- Documents

■ Vision



Note: Zones are used only in the poster to show how tables are organized. The database does not know about zones.

About the Varian System Database

The Varian system database is a large, complex, relational database that contains more than tables.

A subset of the tables in the Varian system database are published in this document. This subset contains tables that are often used for creating custom queries and reports. The tables not published here are used internally by the database system either for record-keeping or to improve overall performance and accessibility.

The *ARIA Reports Schema* poster shows a selected set of tables in the Varian system database. To help organize the tables into logical categories, each table in the poster is assigned the color of a specific category. These categories are called zones. The tables identified within this guide are also organized by the same zones.



Note: There are no actual zone boundaries within the database structure itself. Zones are only used to show a logical organization of the database structure.

| Zone | Zone Color (poster only) | Zone Description |
|-------------------------------------|-----------------------------|---|
| Patient Demographics (Chapter 4) | Dark Blue | Personal information about a patient. |
| Course of Treatment (Chapter 5) | Light Purple | Course of treatment for a patient, including information about the diagnosis, course, treatment fields, sites, and history. |
| Resource (Chapter 6) | Light Orange | Resources available, including medical staff, machines, and accessories. |
| Activity/Billing (Chapter 7) | Yellow | Charges and billing information. |
| Image (Chapter 8) | Burnt Orange | ARIA Radiation Oncology applications. |

| Zone | Zone Color (poster only) | Zone Description |
|-----------------------------------|-----------------------------|--|
| Schedule (Chapter 9) | Light Green | Scheduled and non-scheduled activities for patients and resources. |
| System (Chapter 10) | Dark Purple | ARIA system configuration and usage information. |
| Brachytherapy (Chapter 11) | Dark Green | Brachytherapy related information. |
| Machine (Chapter 12) | Pink | Radiation delivery machines and devices. |
| Views (Chapter 13) | Dark Orange | Predefined views of select columns and tables. |
| Stored Procedures (Chapter 14) | Light Blue | Predefined and precompiled stored procedures of selected tables and columns. |

The poster is a simplified entity-relationship (ER) diagram that shows tables, relationships between tables, and relationship type-identifiers. Each zone has a principal table, indicated by a shadow behind the table.

A principal table is one that is used most often when retrieving information from that zone. For example, the Patient table is a principal table in the Patient Demographics zone, because most patient-related reports require the patient name and ID, which are stored in this table.



Note: *The colored lines on the ARIA Reports Schema poster have no special meaning — they are only used to help you trace lines between tables.*

Conventions

The following sections describe conventions used throughout this manual.

Table Names

Table names are based on the kind of information a table contains. For instance, the Course table implies that it stores information about the course of treatment for a patient.

Correlation tables most often carry the names of the two tables they correlate. For example, the PatientAddress table correlates the Patient table and the Address table. A correlation table manages the many-to-many relationship between two other tables.

Modification history tables are used throughout the Varian system database for tracking records. They store a complete history of modifications made to the data stored in various tables. Modification history tables are indicated with an MH at the end of the table name. TreatmentFieldMH is an important modification history table because it contains a complete history of all changes made to each treatment field.

Column Names

Column names are based on the kind of information stored in the column. Distinct pieces of information may be split into multiple columns to allow more flexible sorting and grouping.

For example, a patient's name is split into two columns: *FirstName* and *LastName*. These columns are stored in the Patient table.

View Names

View names are based on the kind of information gathered in the view. A view can be thought of as a special kind of predefined table. It consists of columns from one or more tables in the database, with table links defined in the view itself.

For example, vv_TreatHistoryView provides treatment history data directly, bypassing the need to link the appropriate tables and select columns. Whenever possible, use a view when creating a query and report — the complex linking effort has already been done for you.

Stored Procedure Names

Stored procedure names describe the information the stored procedure returns. A stored procedure is a precompiled collection of SQL statements that can take user-supplied parameters and return data from the database.

There are many stored procedures in the database, but only a few can be used in building reports. These stored procedures begin with the vp_ prefix.

Common History Columns

There are four columns in the Varian system database that are common to many tables. These columns, indicated by a Hstry prefix, contain modification history data.

The columns are:

| | |
|----------------|--|
| HstryDateTime | Date the data in a row was modified. |
| HstryTaskName | Name of the activity when data in a row was modified. |
| HstryTimeStamp | System time when data in a row was modified. <i>HstryTimeStamp is for historical purposes only — do not use when generating reports.</i> |
| HstryUserName | Username of the person logged into the workstation when data in a row was modified. For record-and-verify operations, HstryUserName is the system ID of the machine active at the time a row was modified. |

Although these Hstry columns are common throughout the database, they should not be used as links between tables. However, the data contained in the Hstry columns could provide useful information if included in a report.

Customizable Values

Many tables in the Varian system database contain columns whose content can be customized by the system administrator for a specific use. The custom column values provide the user with preset options for entering data in any of the ARIA applications. This is done using *Data Administration*.

For example, by specifying customized values for specific columns, the user does not need to know a specific accessory code. Instead, the user can select the accessory from a preset list. Columns that contain customizable values can provide the user with access to standardized or commonly-used data.

The preset lists are stored in tables or in a lookup table. A lookup table contains a list of item descriptions and numeric codes. Most often, only numeric codes are stored in a table that is needed in a query.

A predefined view, indicated with a vv_ (that is two letters v, not a w) at the beginning of the name, provides access to the textual description associated with a numeric code. For example, vv_ActivityLng is a predefined view that provides the textual name of an activity identified by a numeric code.

Treatment Machine Scale

Treatment machines use the IEC61217 scale to store mechanical position values for treatment machines. The *ARIA Practice Management* and *ARIA Radiation Oncology* software automatically converts these values to the selected scale when displaying information on the screen or when generating a report from within *ARIA Practice Management Patient Manager, Time Planner, Activity Capture, or Treatment*.

If you plan to write your own reports and your system is set to use a scale other than IEC61217 scale, you must manage the conversion for these mechanical position values.

Examples of mechanical positions include:

- Collimator leaf positions
- Collimator rotation angle
- Couch rotation angle
- Couch vertical, longitudinal, and latitudinal positions
- Gantry rotation angle

The MachineScale attribute in the Machine table contains the scale used to display the mechanical position values in the Field, TreatmentFieldMH, and TreatmentFieldHstry tables. To view the formulas needed for scale conversion, see “vv_PlanOverrideView” on page 389.

Abbreviations

The following table lists abbreviations of table and column names used in the Varian system database.

Abbreviations for Table and Column Names

| Abbreviation | Definition |
|--------------|---------------------------|
| Abbrvtn | Abbreviation |
| Accssry | Accessory |
| Actvt | Activity |
| Alt | Alternate |
| Ang | Angle |
| Avail | Available |
| BkPt | Breakpoint |
| Chemo | Chemotherapy |
| Cl | Cycle |
| Cod | Code |
| Coll | Collimator |
| Cond | Condition |
| Cpltd | Completed |
| deg | degrees |
| Desc | Description |
| Diag | Diagnosis |
| Disp | Display |
| EAndM | Evaluation and Management |

Abbreviations for Table and Column Names (continued)

| Abbreviation | Definition |
|---------------------|----------------------|
| Ext | External |
| Fld | Field |
| Fmly | Family |
| Frac | Fraction |
| Glbl | Global |
| His | Histology |
| Hstry | History |
| Id | ID (Identification) |
| II | Image Intensifier |
| Insrdr | Insured |
| Lat | Latitudinal |
| Lng | Longitudinal |
| Mag | Magnification |
| Max | Maximum |
| Mchn | Machine |
| Mdcl | Medical |
| Mdfr | Modifier |
| Med | Medical |
| Mgmt | Management |
| MH | Modification History |
| Min | Minimum |
| MLC | Multileaf Collimator |
| Mmbr | Member |
| Mnthsly | Monthly |
| Mrkd | Marked |
| MU, Mu | Monitor Units |

Abbreviations for Table and Column Names (continued)

| Abbreviation | Definition |
|---------------------|----------------------|
| N | Number |
| Nmbr | Number |
| No | Number |
| Num | Number |
| Othr | Other |
| Ovrd | Override |
| Paymnt | Payment |
| PF, Pf | Port Film |
| Phys | Physical |
| PlnTp | Plan Type |
| POC | Point of Contact |
| Pos | Position |
| Prcnt | Percent |
| Prescriptn | Prescription |
| Prim | Primary |
| Prmr | Primary |
| Prmry | Primary |
| Profess | Professional |
| Rad | Radiotherapy |
| Rcrtnl | Recreational |
| Rec | Recreational |
| Reg | Regulated |
| Rev | Revision |
| Rtn | Rotation |
| RV | Relative Value |
| RVU | Relative Value Units |

Abbreviations for Table and Column Names (continued)

| Abbreviation | Definition |
|--------------|----------------------------|
| Secndry | Secondary |
| Ser | Serial Number |
| Sim | Simulation |
| SSN | Social Security Number |
| Strtg | Strategy |
| Tech | Technical |
| TM | Treatment Management |
| Tmplt | Template |
| Trnsprt | Transportation |
| Trnsprtn | Transportation |
| Trt | Treatment |
| Trtmnt | Treatment |
| TSD | Target to Surface Distance |
| Usg | Usage |
| VI | Verification Interface |
| Vrt | Vertical |
| WK | Week |

Chapter 3 Building Queries and Reports

The most important element to constructing a report is having a sound understanding of the Varian system database. Chapter 2, “Varian System Database Overview,” on page 13 describes relational database concepts in general terms, and provides some detail about the Varian system database.

This chapter describes the process of building a query and report.

You can use any reporting or development tool to build queries and reports. The mechanics of how to actually build a query and report using InfoMaker (the reporting tool for ARIA is provided in *Designing Reports Reference Guide*).

Planning the Process

The process of building queries and reports consists of the following general steps:

1. Collaborate with your colleagues to clearly identify the information you need and the desired report format.
2. Determine where this information is stored in the Varian system database.
3. Build the query that will retrieve data from the database using a reporting tool.
4. Build the report that will format the retrieved data into a logical form for printing or viewing on screen.



Note: The Varian system database is a Microsoft SQL database. The reporting tool you use to generate queries and reports must have a native (direct) connection to a Microsoft SQL database, or use an ODBC (Open Database Connectivity) driver to connect to the database. An ODBC driver serves as an intermediate layer between the reporting tool and the database.

Designing Reports

When collaborating with your colleagues, it is helpful to sketch how you want the desired report to appear on a printed page or on a screen. Consider the following questions:

- What information is needed on a report?
- Is this information best suited for a single report or would it be better organized into multiple reports?
- Is there an existing report that provides this information?
- How should the data be formatted?
- Are there special conditions to consider when retrieving the data?

Once you have identified the information, you should examine existing reports that reside in your report generator to determine if a report already exists that contains most or all of the information you need. If a report contains all the information you need, you can use that report. If a report exists but contains only some of the information you need, you can make a copy of that report and modify the copy to suit your needs.

If there is no report that comes close to providing the information you need, continue to identify the columns, tables, and relationships necessary to generate your own custom query or report.

See *InfoMaker Reports Reference Guide* to review the predefined views and reports that are provided for your convenience.

Determining the Location of Data

The next step is to determine where the data you need is stored in the database. Follow these general guidelines:

- Identify the columns in the database that store the information you need.
- Identify the tables that contain these columns.
- Determine the links (joins) between the tables.
- Identify the conditions to restrict (limit) the retrieved data.
- Select the sorting order for the resulting data.

Using Appendix B, “Tables and Columns” on page 617 locate each piece of information by its column name and identify the table where that column resides. See “Abbreviations” on page 41 if you need assistance with translating the table and column abbreviations.

You can also use the *ARIA Reports Schema* poster to identify potential columns and tables. You can locate all the information you need from the poster, and the chapters and appendixes in this document.



Note: *You can only report on data that is in the database. If your clinic has chosen not to enter certain pieces of information, that information will not be available for reporting or statistical use. For example, if you want the physician's name to appear on the patient's report, a physician must be assigned to the patient using Patient Manager or Time Planner.*

Once you identify the tables you need, draw a diagram that shows the tables and links between those tables.

Building a Report Query

Reporting tools provide a graphical user interface that allows you to perform the steps necessary for building both queries and reports. The reporting tools also generate SQL statements automatically, based on the table, column, and condition selections you make from within the reporting tool.

Use the following general steps to build a query:

1. Select tables that contain the columns you need, including intermediary tables necessary to connect to these tables.
2. Select columns that contain the information you need.
3. Link (join) these tables using key columns.
4. Set conditions to limit the retrieved data.
5. Set the sort order for the returned data.

After you create the initial query, you can go back and modify the query as necessary. Once you have determined the tables you need, it is extremely helpful to draw a diagram of those tables and how they are linked.

Reporting tools provide some degree of consistency and integrity-checking as you build the query. The tool knows the datatype for all columns in the database and therefore forces you to use columns with the same datatype, where appropriate.

Reporting tools also provide assistance when linking tables, based upon the table relationships defined in the structure of the actual database.



Note: *Although a reporting tool will establish a link between tables, do not assume that these links are correct for your design. It is crucial that you verify every link between tables and fix any link that is not correct for your design.*

The functions you use when you define a query are specific to the database system, as opposed to functions from a reporting tool. For the Varian system database, all functions in a query are Microsoft SQL functions.

Once you have retrieved data using a query, that data can be used with any report that was designed with the same reporting tool, or exported for use with other applications. All reporting tools provide you with various file-type options for exporting data.

When you initiate or execute a query, a query request is sent to the database. This process is allocated a certain percentage of database server resources. The effect of adding processes to the load on a database server depends on your system configuration, the speed of your network, and the traffic on the network.

Because the Varian system database is necessarily large and complex, a poorly-designed query could easily burden the database server and affect all staff and equipment connected to the database.

Therefore you should use the following general guidelines when building queries and reports while patients are being treated:

- Set a limit on the number of rows returned when executing a query. You limit returned rows using something similar to a *query governor* in the reporting tool. A query governor allows you to set limits on the retrieval time or number of rows retrieved.
- Start building your query with the core group of tables in your design. If you have drawn a diagram of the tables and links, you can easily identify the principle tables in your query. Select these tables and columns, link them, then run the query to test your

selection. It is much easier to build your query incrementally and solve any problems that might occur when you know the previous step was stable.

- Cross-check the data returned in the query using the *ARIA Practice Management* or *ARIA Radiation Oncology* applications. Do not assume that you have done everything correctly. An incorrect link that is logically acceptable to the reporting tool may not be the link you need, and the data returned can be erroneous.
- When you have finished designing the query and verified that it is functioning properly, remove the limits on the query governor and perform a final test.

Most reporting tools provide a default report format based on the columns, grouping, and sort order you specify in a query. You can modify this format to suit your needs.

The functions you use when you create a report are specific to the reporting tool you use (as opposed to the functions you use when building a query, which come from the database). Refer to the documentation provided with your reporting tool for descriptions of those functions.

Building a Report

Some reporting tools store queries and reports in separate files, while other tools store queries and reports together in a single file. In either case, there are always two distinct processes involved: the query (retrieving data from a database), and the report (formatting the resulting data).

The following are general guidelines for building a report:

1. Select a report presentation style, template, or custom report.
2. Format the report by placing text and data objects on the report page.
3. Execute the query to generate the input data for the report.
4. View or print the resulting formatted output of the report.

Building a Patient and Oncologist Report (Example 1)

The following describes how to build a report that lists all patients and their oncologists, sorted by the patient's last name.

First identify the information you need and where that information is stored in the Varian system database. Then build the query and report based on that information.

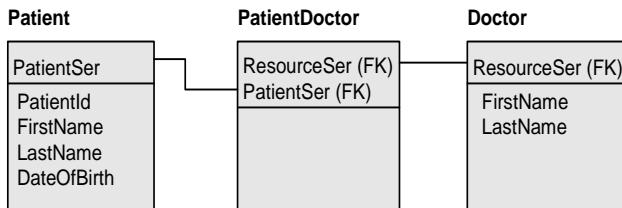
It helps to make a sketch of how you want the information to appear in the report. For this example, you might sketch something like this:

| Patient Name | Patient ID | Date of Birth | Radiation Oncologist Name |
|--------------|------------|---------------|---------------------------|
| data | data | data | data |

Next, use a simple worksheet to list the information you need, like this:

| Information | Column Name | Table Name |
|---------------------------|-----------------------|------------|
| Patient name | LastName FirstName | Patient |
| Patient ID | PatientId | Patient |
| Patient date of birth | DateOfBirth | Patient |
| Radiation oncologist name | LastName FirstName | Doctor |

Draw a diagram of the worksheet to visually show how the tables should be linked. Place the key columns at the top (above the line), and the column names below the line. Then use a line to show the link between the tables, like this:



 **Note:** Although the final report does not need to display columns from the PatientDoctor table, you must use the PatientDoctor correlation table to retrieve the name of the oncologist.

Using your reporting tool, perform the following steps:

1. Select the tables and columns you need.
2. Link the tables using the key columns outlined in your diagram.
3. Specify any special conditions.
4. Define the sort order.

Because the Doctor table stores information on both oncologists and referring physicians, and you want to list all patients for each oncologist in this example, you must specify one condition.

OncologistFlag in the PatientDoctor table indicates whether this physician is an oncologist. A value of 1 indicates the physician is an oncologist, and a value of 0 indicates the physician is not an oncologist. Set the condition of “OncologistFlag = 1” to retrieve only those records for which the physician is the oncologist for the patient. Sort the data by the patient’s last name, first name, and ID.

 **Note:** You include the patient’s ID in the sort order because there could be more than one patient with the same first and last names.

The resulting SQL statement for this example query is:

```
SELECT ALL
Patient.LastName,
Patient.FirstName,
Patient.DateOfBirth,
Patient.PatientId,
Doctor.LastName,
Doctor.FirstName

FROM
Patient,
PatientDoctor,
Doctor

WHERE
Patient.PatientSer = PatientDoctor.PatientSer
AND PatientDoctor.ResourceSer = Doctor.ResourceSer

ORDER BY
Patient.LastName ASC,
Patient.FirstName ASC,
Patient.PatientId ASC
```

If you want to sort by oncologist instead of patient, change the ORDER BY clause of the SQL statement to:

```
ORDER BY
Doctor.LastName ASC,
Doctor.FirstName ASC,
Patient.LastName ASC,
Patient.FirstName ASC,
Patient.PatientId ASC
```

Depending on the desired sort order, you can group the resulting data and create an easy-to-read report format. In this example, you can create a group based on the doctor's name, then list all patients assigned to each oncologist.



Note: Only those patient's who have been assigned an oncologist appear in this report. Any patient in the database who has not been assigned to an physician will not have a record in the PatientDoctor table. There is no way to connect that patient with one of the physicians stored in the Doctor table.

Building a Machine Schedule Report (Example 2)

This example describes how to build a report of all patients who are scheduled for an appointment today on any treatment machine. You will group the patients under the appropriate machine and sort them chronologically. You will also include the name of the activity that is scheduled for each patient on each treatment machine.

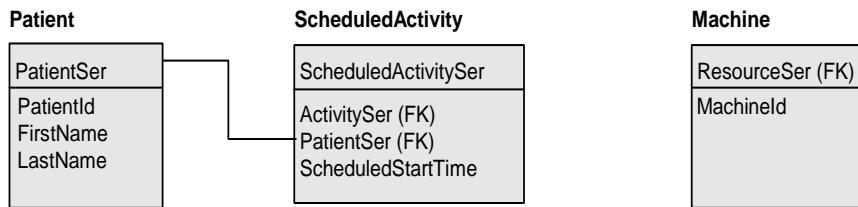
A sketch of the desired report might look like this:

| Machine ID | Appointment Start Time | Patient Name | Activity |
|------------|------------------------|--------------|----------|
| data | data | data | data |

A worksheet that shows the information you need might look like this:

| Information | Column Name | Table Name |
|------------------------|-----------------------|-------------------|
| Machine ID | MachineId | Machine |
| Appointment start time | ScheduledStartTime | ScheduledActivity |
| Patient name | LastName FirstName | Patient |
| Patient ID | PatientId | Patient |
| Activity | TextualCode | vv_ActivityLng |

A preliminary sketch of the tables you need and how these tables are linked might look like this:

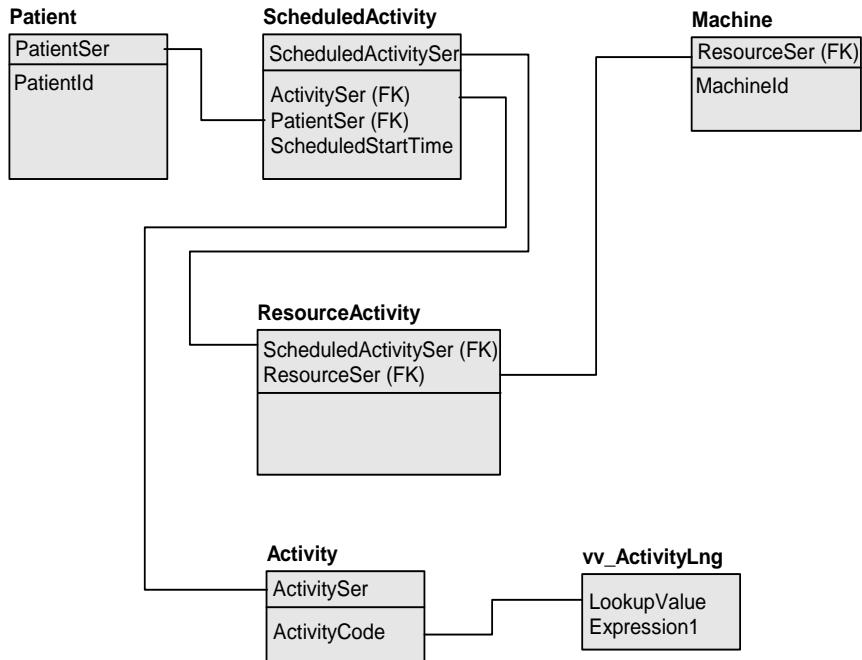


vv_ActivityLng

| |
|-------------|
| LookupValue |
| Expression1 |

However, because there is no direct link between the ScheduledActivity table and the vv_ActivityLng view, and no direct link between the ScheduledActivity table and the Machine table, you need to include intermediary tables that allow you to link those tables.

The following complete diagram shows the intermediary tables and links necessary to join the primary tables.



To build a report, perform the following steps using your reporting tool:

1. Select the tables and columns you need.
2. Link the tables using the key columns outlined in the diagram.
3. Specify any necessary conditions.
4. Define the sort order.

In this example, the only condition needed is to select the date range for the report. By linking ResourceActivity to Machine, only those records that are connected to a machine are returned. Additionally, by linking Patient directly to ScheduledActivity, only those patient-related appointments are returned. This results in a data set that consists only of patients scheduled for an appointment on a machine today.

The resulting SQL statement for this query looks like this:

```

SELECT ALL
Patient.LastName,
Patient.FirstName,

```

```

Patient.PatientId,
Machine.MachineId,
ScheduledActivity.ScheduledStartTime,
vv_ActivityLng.Expression1

FROM
Patient,
ScheduledActivity,
ResourceActivity,
Machine,
Activity,
vv_ActivityLng

WHERE
Patient.PatientSer = ScheduledActivity.PatientSer
AND ScheduledActivity.ScheduledActivitySer =
ResourceActivity.ScheduledActivitySer
AND ResourceActivity.ResourceSer =
Machine.ResourceSer
AND ScheduledActivity.ActivitySer =
Activity.ActivitySer
AND Activity.ActivityCode =
vv_ActivityLng.Expression1
AND (CONVERT(varchar,
ScheduledActivity.ScheduledStartTime,) =
CONVERT(varchar, GETDATE(),))

ORDER BY
Machine.MachineId ASC,
ScheduledActivity.ScheduledStartTime ASC,
Patient.LastName ASC,
Patient.FirstName ASC,
Patient.PatientId ASC

```

Use the CONVERT function and the ScheduledStartTime function to set the condition to retrieve data for today only. The ScheduledStartTime column contains both the date and time of the scheduled activity. You only need the date portion of the ScheduledStartTime to select activities for today. To do this, you use the CONVERT() function to convert the date portion into a character string, which is then compared to the character string that represents today's date.

The first parameter in the `CONVERT()` function identifies the datatype. The second parameter identifies the date variable. The third parameter identifies the desired style. In this case, at the end of the `CONVERT()` function indicates that the date should be displayed using the U.S. date format and a four-digit year. You can use “105” for European date format (dd-mm-yyyy).

Use the `vv_ActivityLng` view to retrieve the actual name of the activity. The numeric value that represents the activity is stored in the `Activity` table, while the textual description of the activity is stored in a lookup table. The `vv_ActivityLng` view looks up the textual description that corresponds to the numeric value stored in `ActivityCode` in the `Activity` table.

Building queries and reports takes practice. To learn how to build reports using InfoMaker, refer to the *Designing Reports Reference Guide*.

Chapter 4 Patient Demographics Zone Tables

The **Patient Demographics** zone identifies the tables found in the dark blue colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

Address

The *Address* table stores information about home, office, local residence, and contact addresses associated with a patient, as well as addresses for resources (such as physicians or staff members) and points of contact. The *AddressType* column indicates the type of address. The primary flag is set to indicate which address is the primary address of this type for the patient, resource, or point of contact.

Table 4 Address

| Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| AddressSer | System generated serial number for a patient's address. | VDT_SERIALNUMBER Integer |
| AddressType | Type of address. Values may be: <ul style="list-style-type: none">■ Contact■ Home■ Local Residence■ Office | VDT_ADDRESSTYPE Varchar(64) |
| Country | Country in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| StateOrProvince | State or province in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| Location | General location for the local residence. | VDT_ADDRESSLINE Varchar(64) |
| County | County in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| CityorTownship | City or township in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| AddressLine1 | Street address line 1. | VDT_ADDRESSLINE Varchar(64) |
| AddressLine2 | Street address line 2. | VDT_ADDRESSLINE Varchar(64) |
| AddressLine3 | Street address line 3. | VDT_ADDRESSLINE Varchar(64) |
| PostalCode | Postal code such as a U.S. zip code. | VDT_POSTALCODE Varchar(16) |

Table 4 Address (continued)

| Column Name | Description | Datatype |
|-----------------|--|----------------------------------|
| OriginationDate | Date address becomes effective. | VDT_DATETIMESTAMP Datetime |
| TerminationDate | Date the address is no longer effective. | VDT_DATETIME Datetime |
| PhoneNumber1 | Phone number for local residence. | VDT_PHONENUMBER Varchar(64) |
| PhoneNumber2 | Secondary voice phone number. | VDT_PHONENUMBER Varchar(64) |
| FaxNumber | Fax number. | VDT_PHONENUMBER Varchar(64) |
| EMailAddress | E-mail address. | VDT_STRING64 Varchar(64) |
| PagerNumber | Pager number. | VDT_PHONENUMBER Varchar(64) |
| Comment | Comments regarding the address. | VDT_COMMENT Varchar(254) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Employer

The *Employer* table stores information about the company or organization that employs a patient. If the patient is a student, the employer can be a school. The information contained in the *Employer* table is specific to the employer, not to the employee.

A comment field is available for any other information that may be pertinent for this employer. A comment might be a description of the type of business or school, or special instructions when contacting the employer.

Table 5 Employer

| Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| EmployerSer | System generated serial number for an employer or school. | VDT_SERIALNUMBER Integer |
| AddressSer (FK) | System generated serial number for an address. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| EmployerId (AK1) | User-defined employer ID. | VDT_ID Varchar(16) |
| EmployerName (IE1) | Name of the employer for whom the patient works. | VDT_NAME Varchar(64) |
| PrimaryFlag | Indicates whether this is the primary employer for the record. Values are: <ul style="list-style-type: none">■ 0 = No■ 1 – Yes | VDT_FLAG_TRUE_DEFAULT Integer |
| DivisionName (IE1) | Used to differentiate between divisions of a large company. | VDT_NAME Varchar(64) |
| POCName | Point of contact name for the employer. | VDT_NAME Varchar(64) |
| Comment | General note about the employer for whom the patient works. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 5 Employer(continued)

| Column Name | Description | Datatype |
|----------------|---|-----------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| SchoolFlag | A flag to indicate that the employer entry is a school. | VDT_FLAG_FALSE_DEFAULT Integer |

Patient

The *Patient* table stores information specific to a person who is a patient. This table provides demographic information about a patient. When a patient is deleted from the database, that person's demographic information remains in the database. Therefore the patient's ID cannot be reused. All other data is permanently removed from the database.

Table 6 Patient

| Column Name | Description | Datatype |
|------------------|---|-------------------------------|
| PatientSer | System generated serial number for a person who is a patient. | VDT_SERIALNUMBER Integer |
| PatientId (AK1) | Unique patient identifier number assigned by the user when the information for this patient is entered. | VDT_PATIENTID Varchar(25) |
| PatientId2 (IE1) | Non-unique identifier that can be assigned to a patient. | VDT_PATIENTID Varchar(25) |
| PatientUID (AK2) | Unique constraint Patient ID that will not be changed on upgrade, conversion, or deletion of the patient record. | VDT_UID Varchar(64) |
| PatientType | Type of patient. Values are: <ul style="list-style-type: none">■ <i>ActivePatient</i>■ <i>ArchivedPatient</i>■ <i>DeletedPatient</i> | VDT_TABLENAME Varchar(30) |
| CreationDate | Date and time of creation of this patient, or the date when this patient's data was imported. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | User who created this patient record. | VDT_USERNAME Varchar(32) |
| SSN | Patient's social security number. | VDT_STRING64 Varchar(64) |
| FirstName | First name of patient. | VDT_NAME Varchar(64) |
| MiddleName (IE1) | Middle name of patient. | VDT_NAME Varchar(64) |

Table 6 Patient(continued)

| Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| LastName | Last name of patient. | VDT_NAME Varchar(64) |
| NameSuffix | Suffix, if any, to the patient name. Example: <i>Jr</i> , <i>Sr</i> , <i>PhD</i> . | VDT_NAMESUFFIX Varchar(16) |
| Honorific | Patient's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ <i>Dr</i>■ <i>Mr</i>■ <i>Mrs</i>■ <i>Ms</i> | VDT_STRING16 Varchar(16) |
| DateOfBirth | Date of birth of patient. | VDT_DATETIME Datetime |
| Sex | Sex of patient. | VDT_SEX Char(16) |
| WorkPhone | Phone number at which patient can be contacted at work. | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. | VDT_PHONENUMBER Varchar(64) |
| Citizenship | Country in which the patient is a citizen. | VDT_STRING64 Varchar(64) |
| Race | Racial origin of patient. | VDT_STRING64 Varchar(64) |
| BirthCountry | Country in which the patient was born. | VDT_ADDRESSLINE Varchar(64) |
| BirthState | State or Province in which the patient was born. | VDT_ADDRESSLINE Varchar(64) |
| BirthCounty | County in which the patient was born. | VDT_ADDRESSLINE Varchar(64) |
| BirthCity | City in which the patient was born. | VDT_ADDRESSLINE Varchar(64) |
| PatientIdIssuer | Name of the individual (user) who assigned the Patient's ID. | VDT_USERNAME Varchar(32) |

Table 6 Patient(continued)

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| MaidenName | Patient's maiden name. | VDT_NAME Varchar(64) |
| MothersMaidenName | Patient's mother's maiden name. | VDT_NAME Varchar(64) |
| MedRecordLocator | Locator code used to find a patient's medical records. | VDT_STRING64 Varchar(64) |
| Language | Language(s) in which the patient speaks. | VDT_LANGUAGE Varchar(16) |
| Occupation | Patient's type of employment. | VDT_STRING64 Varchar(64) |
| SpecialNeeds | Special care the hospital needs to provide for the patient. | VDT_STRING64 Varchar(64) |
| ReligiousPreference | Patient's religious preference. | VDT_STRING64 Varchar(64) |
| ArchiveDate | Date the patient's data was archived. | VDT_DATETIME Datetime |
| ArchiveVolume | Name of the volume on which the patient's data was archived. | VDT_STRING32 Varchar(32) |
| Comment | General note about the patient. | VDT_COMMENT Varchar(254) |
| ClinicalTrialFlag | Indicates whether the patient is enrolled in a clinical trial. Values are: <ul style="list-style-type: none"> ■ 1 = Enrolled in clinical trial ■ 0 = Not enrolled in clinical trial | VDT_FLAG_FALSE_DEFAULT Integer |
| FileDataSiteID | Patient file directory to be used for all file data created for this patient. If not defined, the files data will be created on the default directory as provided by OSP. | VDT_STRING254 Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 6 Patient(continued)

| Column Name | Description | Datatype |
|------------------------|--|--------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| MobilePhone | Stores the patient's mobile phone number. | VDT_PHONENUMBER Varchar(64) |
| Ethnicity | Contains the Ethnicity description. | VDT_STRING64 Varchar(64) |
| MobilePhoneProviderSer | Unique identifier for the mobile phone service provider. This is a foreign key to MobilePhoneProvider table. | VDT_SERIALNUMBER Integer |

PatientActuals

The *PatientActuals* table stores frequently-used personal and patient information.

Table 7 PatientActuals

| Column Name | Description | Datatype |
|-----------------------|---|--|
| PatientSer (FK) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| PatientIdUpper (IE2) | Copy of PatientId, in upper case, from the Patient table. | VDT_PATIENTID Varchar(25) |
| PatientId2Upper (IE3) | Copy of PatientId2, in upper case, from the Patient table. | VDT_PATIENTID Varchar(25) |
| FirstNameUpper (IE1) | Copy of FirstName, in upper case, from the Patient table. | VDT_NAME Varchar(64) |
| LastNameUpper (IE1) | Copy of LastName, in upper case, from the Patient table. | VDT_NAME Varchar(64) |
| SSN | Social Security Number for a patient. | VDT_STRING64 Varchar(64) |
| PatientType | Type of patient. Values are: <ul style="list-style-type: none">■ <i>ActivePatient</i>■ <i>ArchivedPatient</i>■ <i>DeletedPatient</i> | VDT_TABLENAME Varchar(30) |
| HospitalSer | System generated serial number for a hospital. | VDT_SERIALNUMBER Integer |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 0 – OutPatient■ 1 – InPatient | VDT_FLAG_FALSE_DEFALU LT Integer |
| PatientLocation | Location of the patient within a hospital. It is normally the ID of a venue. | VDT_ID Varchar(16) |
| ArrivalTime | Date and time of arrival. | VDT_DATETIME Datetime |

Table 7 PatientActuals(continued)

| Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| PatientStatus | <p>Indicates status of patient. Values are configured in Data Administration. Example values are:</p> <ul style="list-style-type: none">■ New Patient (NP)■ Previous Patient (NOP) | VDT_STATUS32 Varchar(32) |
| SelectionStatus | <p>A binary attribute defined by the following flags:</p> <p>Note: Resetting these flags is done by nightly jobs, but during acquisition of unapproved images, these flags must be set online.</p> <p>PatientCompleteFlag:</p> <ul style="list-style-type: none">■ 0 – If all course are not completed■ 1 – If all courses are completed <p>Unapproved ImagePI:</p> <ul style="list-style-type: none">■ 0 – When patient does not have unapproved ImagePI■ 1 – When patient has unapproved ImagePI <p>Unapproved ImageSI:</p> <ul style="list-style-type: none">■ 0 – When patient does not have unapproved ImageSI■ 1 – When patient has unapproved ImageSI <p>Unapproved OtherImage:</p> <ul style="list-style-type: none">■ 0 – When patient does not have unapproved ImageOT■ 1 – When patient has unapproved ImageOT | VDT_SELECTIONSTATUS Integer |
| LastImagePIDate | Date when last ImagePI was created for a patient. | VDT_DATETIME Datetime |
| LastImageSIDate | Date when last ImageSI was created for a patient. | VDT_DATETIME Datetime |

Table 7 PatientActuals(continued)

| Column Name | Description | Datatype |
|--------------------|---|---------------------------------------|
| LastOtherImageDate | Date when last other image was created for a patient. | VDT_DATETIME Datetime |
| DirectiveAskedFlag | <p>Indicates whether the patient has been asked if they have directives. Possible values are:</p> <ul style="list-style-type: none">■ 0 - No, patient has not been asked. When this flag equals 0, the PatientDirective table must have 0 rows for the patient.■ 1 - Yes, patient has been asked if they have directives. When this flag equals 1 and the PatientDirective table has 0 rows for the patient, it means the patient was asked but they don't have any Directives. When this flag equals 1 and the PatientDirective table has rows for the patient, it means the patient was asked and they do have directives. | VDT_FLAG_FALSE_DEFAU LT Integer |

PatientAddress

The *PatientAddress* table correlates patients with their addresses.

Table 8 PatientAddress

| Column Name | Description | Datatype |
|-----------------------|--|----------------------------------|
| PatientSer (FK) | System generated serial number for a patient. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| AddressSer (FK) (IE1) | System generated serial number for an address. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| PrimaryFlag | Indicates if this is the primary address for the patient. Values are: <ul style="list-style-type: none">■ 0 – Not primary address■ 1 – Primary address | VDT_FLAG_TRUE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientDepartment

The *PatientDepartment* table maps the *Patient* and *Department* tables and their statuses.

Table 9 PatientDepartment

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------------|
| PatientDepartmentSer | Serial Number that acts as the PrimaryKey in the <i>PatientDepartment</i> table. | VDT_SERIALNUMBER Integer |
| PatientSer | Serial Number that acts as the PrimaryKey in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer | Serial Number that acts as the PrimaryKey in the <i>Patient</i> table. | VDT_SERIALNUMBER Integer |
| DefaultFlag | The Default department for a patient. | VDT_FLAG_FALSE_DEFAULT Integer |
| ObjectStatus | Indicates whether the <i>PatientDepartment</i> record is: <ul style="list-style-type: none">■ Active■ InActive■ Deleted | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | UserNames of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | Timestamp created by MS SQL when data in the row was modified. | timestamp |
| HstryDateTime | Date and time when the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the active Varis task when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientNote

The *PatientNote* table serves as a notepad for the doctor or staff member to record notes regarding treatment of a patient. The date and time the patient note should be displayed on the user's screen is stored in *DisplayDateTime*. The username for the hospital staff person who wrote the note (*WrittenByAppUserName*) and who read the note (*ReadByAppUserName*) are also recorded.

Table 10 PatientNote

| Column Name | Description | Datatype |
|-----------------------|--|---------------------------------|
| PatientNoteSer | System generated serial number for a patient note. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE2) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| Note | Special notes regarding this patient. | VDT_STRING512 Varchar(512) |
| PatientNoteCode | Indicates the status of the patient note. Values are: <ul style="list-style-type: none">■ <i>Canceled</i> (patient note is inactive)■ <i>Open</i> (patient note is active)■ <i>Read by</i> (patient note is active and has been read by the user defined in <i>ReadByResourceSer</i>) | VDT_STRING64 Varchar(64) |
| DisplayDateTime (IE1) | Date and time to display the note. | VDT_DATETIME Datetime |
| WrittenByAppUserName | User ID of the AppUser who wrote the note. | VDT_USERNAME Varchar(32) |
| ReadByAppUserName | User ID of the AppUser who read the note. | VDT_USERNAME Varchar(32) |
| ReadDateTime | Date and time the doctor or staff member read the note. | VDT_DATETIME Datetime |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |

Table 10 PatientNote(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientParticular

The *PatientParticular* table stores more information specific to a person who is a patient. There are 16 user-definable attributes (columns) that can be defined by the user. The values for these attributes are stored in the *PatientParticular* table, and the columns are named *UserDefAttrib01* to *UserDefAttrib16*. The labels for these attributes are stored in the *Lookup* table.

Table 11 PatientParticular

| Column Name | Description | Datatype |
|--------------------|---|-----------------------------|
| PatientSer (FK) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| UniversalPatientId | Universal ID for a patient. | VDT_STRING32 Varchar(32) |
| PassportNumber | Number or other identification of the patient's passport. | VDT_STRING32 Varchar(32) |
| PatientState | Identifies the state of the patient. | VDT_STRING64 Varchar(64) |
| MaritalStatus | Marital status of the patient. | VDT_STATUS16 Varchar(16) |
| PregnancyStatus | Identifies whether patient is pregnant. | VDT_STATUS32 Varchar(32) |
| MedicalAlerts | Identifies medical alerts for the patient. | VDT_STRING64 Varchar(64) |
| ContrastAllergies | Identifies allergies for the patient. | VDT_STRING64 Varchar(64) |
| LastMenstrualDate | Start date of patient's last menstrual cycle. | VDT_DATETIME Datetime |
| SmokingStatus | Identifies whether patient smokes. | VDT_STATUS16 Varchar(16) |
| RetireDate | Date the patient has completed all therapy and will be removed from the system. | VDT_DATETIME Datetime |

Table 11 PatientParticular(continued)

| Column Name | Description | Datatype |
|--|--|----------------------------------|
| RetireReason | Possible reasons for patient retirement are: <ul style="list-style-type: none">■ Patient cured■ Patient died | VDT_COMMENT Varchar(254) |
| RetireNote | General note about the patient's retirement (meaning removal from system). | VDT_COMMENT Varchar(254) |
| DeathDate | Date of patient's death. | VDT_DATETIME Datetime |
| DeathCause | Cause of patient's death. | VDT_COMMENT Varchar(254) |
| AutopsyStatus | Indicates whether an autopsy has been completed. Values are: <ul style="list-style-type: none">■ 0 – Autopsy not completed■ 1 – Autopsy completed | VDT_STATUS16 Varchar(16) |
| AutopsyOutcome | General note about the results of an autopsy. | VDT_COMMENT Varchar(254) |
| BloodGroup | Blood group. | VDT_STRING16 Varchar(16) |
| UserDefAttrib01 to UserDefAttrib16 | User-defined attribute (01 to 16). The data fields and their labels are defined by the system administrator in the Data Administration application. | VDT_USERDEFATTRIB Varchar(16) |

PatientTransportation

The *PatientTransportation* table contains all the transportation details defined for a patient. If it is associated with the master list of transportation details, the name and phone number will not be populated. Instead, Patient Manager will display the name and phone number from the master list.

Table 12 PatientTransportation

| Column Name | Description | Datatype |
|--------------------------|--|----------------------------------|
| PatientTransportationSer | System generated serial number. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| TransportationSer (FK) | Foreign key to the referenced Transportation table. | VDT_SERIALNUMBER Integer |
| TransportationName | The name of the person or company that will provide transportation for the patient. | VDT_STRING64 Varchar(64) |
| TransportationPhone | The phone number of the person or company that will provide transportation for the patient. | VDT_PHONENUMBER Varchar(64) |
| TransportationComment | A comment about the person or company that will provide transportation for the patient. | VDT_COMMENT Varchar(254) |
| PrimaryFlag | Indicates whether the transportation is the primary transportation for the patient. The possible values are: <ul style="list-style-type: none">■ 1 - Yes, the transportation is the primary transportation.■ 0 - No, the transportation is not the primary transportation. | VDT_FLAG_TRUE_DEFAULT Integer |
| HstryUserName | The Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 12 PatientTransportation

| Column Name | Description | Datatype |
|----------------|---|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date and time when the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PointOfContact

The *PointOfContact* table stores information about a person who can be notified regarding a patient's condition. The point of contact can be anyone, such as a spouse, family member, friend, legal guardian, or institution.

Table 13 PointOfContact

| Column Name | Description | Datatype |
|-----------------------|---|-------------------------------|
| PointOfContactSer | System generated serial number for a point of contact. | VDT_SERIALNUMBER Integer |
| AddressSer (FK) | System generated serial number for an address. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| PrimaryFlag | Indicates that this person is the primary point of contact for the patient. Only one point of contact can be the primary point of contact for a given patient. Values are: <ul style="list-style-type: none">■ 0 – Not primary point of contact■ 1 – Primary point of contact | VDT_FLAG_TRUE_DEFAULT Integer |
| Relationship | Relationship between the patient and the point of contact, such as the spouse, mother, father, sister, brother, significant other, lover, insurance company, or bank. | VDT_STRING64 Varchar(64) |
| Honorific | Point of contact's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms | VDT_STRING16 Varchar(16) |
| FirstName | First name of point of contact. | VDT_NAME Varchar(64) |

Table 13 PointOfContact(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| MiddleName | Middle name of point of contact. | VDT_NAME Varchar(64) |
| LastName | Last name of point of contact. | VDT_NAME Varchar(64) |
| NameSuffix | Suffix, if any, to the point of contact. Example: <i>Jr, Sr, PhD</i> . | VDT_NAMESUFFIX Varchar(16) |
| FirstNameUpper | Copy of <i>FirstName</i> column, in upper case. | VDT_NAME Varchar(64) |
| LastNameUpper | Copy of <i>LastName</i> column, in upper case. | VDT_NAME Varchar(64) |
| DateOfBirth | Birthdate of point of contact. | VDT_DATETIME Datetime |
| Sex | Sex of point of contact. | VDT_SEX Char(16) |
| WorkPhone | Phone where point of contact can be reached at work. | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone where point of contact can be reached at home. | VDT_PHONENUMBER Varchar(64) |
| Comment | General note about the point of contact. | VDT_COMMENT Varchar(254) |
| CreatedByHL7 | Identifies the original source that created the record. | VDT_USERNAME Varchar(32) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| MobilePhone | Stores the patient's mobile phone number. | VDT_PHONENUMBER Varchar(64) |

Table 13 PointOfContact(continued)

| Column Name | Description | Datatype |
|----------------------|---|-----------------------------------|
| EntrustedContactFlag | Indicates whether this contact is trusted with information regarding the patient's diagnosis. The possible values are: <ul style="list-style-type: none">■ 1 - indicates true■ 0 - indicates false | VDT_FLAG_FALSE_DEFAULT Integer |

Transportation

The *Transportation* table contains the master list of transportation details associated with a hospital.

Table 14 PointOfContact

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| TransportationSer | System generated serial number. | VDT_SERIALNUMBER Integer |
| HospitalSer (FK) (IE1) | Foreign key to the referenced Hospital table. | VDT_SERIALNUMBER Integer |
| TransportationName | The name of the person or company that will provide transportation for the patient. | VDT_STRING64 Varchar(64) |
| TransportationPhone | The phone number of person or company that will provide transportation for the patient. | VDT_PHONENUMBER Varchar(64) |
| ObjectStatus | Indicates whether the transportation is Active or Deleted. | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | The username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date and time when the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Chapter 5 Course of Treatment Zone Tables

The **Course of Treatment** zone identifies the tables found in the light purple colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

AddOn

The *AddOn* table contains information regarding add-on devices or accessories that may shape or attenuate the beam during radiation delivery. Types of add-ons include MLC, standard block, compensator, wedge, IDU holder, applicator, open field, tray, and bolus.

Table 12 AddOn

| Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------|
| AddOnSer | System generated serial number for the add-on. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (AK) | Serial number for the machine on which the add-on can be used. | VDT_SERIALNUMBER Integer |
| AddOnMaterialSer (FK) (IE1) | Serial number for the corresponding record in the <i>AddOnMaterial</i> table. | VDT_SERIALNUMBER Integer |
| AddOnId (AK) | ID assigned to the add-on by the user when the system was configured. | VDT_ID Varchar(16) |
| AddOnName | Name of add-on. | VDT_NAME Varchar(64) |
| AddOnType | Type of add-on. Values are: <ul style="list-style-type: none">■ Applicator■ Bolus■ Compensator■ IDUHolder■ MLC■ OpenField■ StandardBlock■ Tray■ Wedge | VDT_TABLENAME Varchar(30) |
| CreationDate | Date and time the add-on was attached to a machine. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Name of user who created this concept. | VDT_USERNAME Varchar(32) |
| ObjectStatus | Indicates whether the add-on is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |

Table 12 AddOn(continued)

| Column Name | Description | Datatype |
|-----------------------|--|-----------------------------------|
| DisplayCode | The user-visible codes that are presented in lookup tables or selection lists. | VDT_DISPLAYCODE Varchar(32) |
| InternalCode | Machine internal code as defined by the machine interface. Not all machine interfaces use codes. Some use the values of <i>Energy</i> and <i>Mode</i> directly. | VDT_INTERNALCODE Integer |
| ExtDeviceVerification | When true, this accessory is verifiable by an external device. When false, it is verified by the Linac itself or not verifiable. | VDT_FLAG_FALSE_DEFAULT Integer |
| OverridePossible | Flag whether this parameter can be overridden during treatment. <ul style="list-style-type: none"> ■ 0 – Override not allowed. ■ 1 – Override possible. | VDT_FLAG_FALSE_DEFAULT Integer |
| ValidationDone | Indicates whether this parameter is validated (in case of non-compliance with setup, beam will be prevented). Values are: <ul style="list-style-type: none"> ■ 0 – Parameter is not validated. ■ 1 – Parameter is validated. | VDT_FLAG_FALSE_DEFAULT Integer |
| PFVerifyDone | Indicates whether this parameter is verified in <i>Port Film</i> mode. Values are: <ul style="list-style-type: none"> ■ 0 – Parameter is not verified in Port Film mode. ■ 1 – Parameter is verified in Port Film mode. | VDT_FLAG_FALSE_DEFAULT Integer |
| Comment | Free text. | VDT_COMMENT Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 12 AddOn(continued)

| Column Name | Description | Datatype |
|---------------|--|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Block

The *Block* table contains information on blocks used to shape the beam during radiation delivery for treatment.

Table 13 Block

| Column Name | Description | Datatype |
|-----------------------------|--|-----------------------------------|
| BlockSer | System generated serial number for a block. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (IE1) | System generated serial number for a field. | VDT_SERIALNUMBER Integer |
| AddOnMaterialSer (FK) (IE2) | System generated serial number for an add-on material. | VDT_SERIALNUMBER Integer |
| TrayAddOnSer | System generated serial number for the add-on that serves as the tray for this block. Several blocks can be mounted onto the same tray. | VDT_SERIALNUMBER Integer |
| BlockId | External ID for the block. | VDT_NAME Varchar(64) |
| DicomSeqNumber | Identifies the block in a series of blocks in the DICOM environment. The interval between block numbers is 10. (e.g. 1, 11, 21, 31 and so on). | VDT_INT Integer |
| BlockType | Type of block according to DICOM definition. Values are: <ul style="list-style-type: none">■ Aperture■ Shielding | VDT_TYPE Varchar(32) |
| AboveTrayFlag | Indicates where the block is mounted. Values are: <ul style="list-style-type: none">■ 0 – Block mounted below tray.■ 1 – Block mounted above tray (between source and tray). | VDT_FLAG_FALSE_DEFAULT Integer |

Table 13 Block(continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------------|
| DivergingFlag | Indicates if block is diverging. Values are: <ul style="list-style-type: none">■ 0 – Not diverging■ 1 – Diverging | VDT_FLAG_FALSE_DEFAULT Integer |
| Coordinates | Array of X/Y coordinates. | image |
| CoordinatesLen | Number of coordinate pairs that comprise the block shape. | VDT_INT Integer |
| EllipticalMarginFlag | Flag indicating whether the margin type is elliptical. Values are: <ul style="list-style-type: none">■ 0 – Circular■ 1 – Elliptical | VDT_FLAG_FALSE_DEFAULT Integer |
| BEVMarginFlag | Flag indicating whether the margin type is BEV. Values are: <ul style="list-style-type: none">■ 0 – Collimator■ 1 – BEV | VDT_FLAG_FALSE_DEFAULT Integer |
| LeftMargin | Value for the left margin in centimeters. For circular margins, this defines the overall margin. | VDT_FLOAT Float |
| RightMargin | Value for the right margin in centimeters. | VDT_FLOAT Float |
| TopMargin | Value for the top margin in centimeters. | VDT_FLOAT Float |
| BottomMargin | Value for the bottom margin in centimeters. | VDT_FLOAT Float |
| OptimizeCollRtnFlag | Flag indicating whether collimator rotation is optimized. Values are: <ul style="list-style-type: none">■ 0 – Not optimized■ 1 – Optimized | VDT_FLAG_FALSE_DEFAULT Integer |
| OptimizeFldSizeFlag | Flag indicating whether the field size is optimized. Values are: <ul style="list-style-type: none">■ 0 – Not optimized■ 1 – Optimized | VDT_FLAG_FALSE_DEFAULT Integer |

Table 13 Block(continued)

| Column Name | Description | Datatype |
|---|---|-----------------------------------|
| BlockThickness | Thickness of the block in mm. Used for proton treatment, where thickness of the add-on material is only used as the default value and CalcServer may calculate actual thickness. | VDT_FLOAT Float |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| MillingMachineResource Ser | Identifies the milling machine that is used for milling this block. | VDT_SERIALNUMBER Integer |
| DrillBitDiameter | The diameter of the drill bit that is used for milling this block, in millimeters. | VDT_FLOAT Float |
| SnoutPositionUsedFor MillingCorrection | The snout position of the proton field when performing the milling correction for the block, in millimeters. | VDT_FLOAT Float |
| MillingCorrection ConfiguredFlag | Specifies whether milling correction has been configured for the block. | VDT_FLAG_FALSE_DEFAULT Integer |

BreakPoint

The *BreakPoint* table stores information about a radiation dose threshold for treatment reference point that requires some action before treatment begins or continues. For example, you can define a breakpoint that signals you to add a spinal block or reduce the size of treatment field after a certain dose has been given. You can specify up to six breakpoints for each reference point.

Upon reaching a breakpoint in treatment, a message displays (such as *Reduce the field*) and asks you to acknowledge (with user name and password) that the indicated breakpoint action was taken. After authorization, the treatment system no longer monitors that breakpoint.

You can not override a breakpoint – you can only approve it. For this reason, it is not possible to see which breakpoints (added prior to migration from version 1.4) were overridden from within *Patient Manager* or treatment. The data, however, has not been lost. You can find overridden breakpoints by looking for *BreakPointCondition = Enabled* and *AuthorizationName not NULL*.

Table 14 BreakPoint

| Column Name | Description | Datatype |
|-----------------------|--|-----------------------------|
| BreakPointSer | System generated serial number for a break point. | VDT_SERIALNUMBER Integer |
| RefPointSer (FK) (AK) | System generated serial number for a reference point. | VDT_SERIALNUMBER Integer |
| BreakPointNum (AK) | External ID for a break point. | VDT_NUMBER Integer |
| BreakPointDose | Dose of radiation associated with a breakpoint. This value is used by the session manager to trigger a breakpoint. | VDT_DOSE Float |
| BreakPointCondition | Indicates the condition of a breakpoint. Values are: <ul style="list-style-type: none">■ <i>Authorized</i>■ <i>Enabled</i> | VDT_STRING64 Varchar(64) |
| AuthorizationName | Name of user who has override authorization. | VDT_USERNAME Varchar(32) |

Table 14 BreakPoint(continued)

| Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| Note | Describes the break point. | VDT_STRING254 Varchar(254) |
| AuthorizationDate | Date and time the breakpoint override was authorized. | VDT_DATETIME Datetime |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ChartQA

The *ChartQA* table stores patient review details.

Table 15 ChartQA

| Column Name | Description | Datatype |
|--------------------------------|--|----------------------------------|
| ChartQASer | This is a SerialNumber that acts as the PrimaryKey to the table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) | This is a SerialNumber that acts as the PrimaryKey in <i>Patient</i> table | VDT_SERIALNUMBER Integer |
| ChartQADateTime | Date with time when the treatment records were reviewed | VDT_DATETIME Datetime |
| ChartQABy | User who reviewed the treatment records | VDT_HSTRYUSERNAME Varchar(32) |
| Comment | Represents any comments | VDT_STRING1024 Varchar(1024) |
| ActivityInstanceSer (FK) (IE2) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityInstance</i> table | VDT_SERIALNUMBER Integer |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | Timestamp created by Microsoft SQL when data in the row was modified. | timestamp |
| HstryDateTime | Date and time when the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ChartQATreatment

The *ChartQATreatment* table stores reviewed treatment history records.

Table 16 ChartQATreatment

| Column Name | Description | Datatype |
|-----------------------|--|----------------------------------|
| ChartQATreatmentSer | This is a SerialNumber that acts as the PrimaryKey to the table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ChartQASer (FK) (AK1) | This is a SerialNumber that acts as the PrimaryKey in <i>ChartQA</i> table | VDT_SERIALNUMBER Integer |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | Timestamp created by Microsoft SQL when data in the row was modified. | timestamp |
| HstryDateTime | Date and time when the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| RadiationHstrySer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |

Compensator

The *Compensator* table is used as a normal AddOn, but is patient-specific. The compensator is mounted on a Tray, which goes into the Slot for treatment.

Table 17 Compensator

| Column Name | Description | Datatype |
|-----------------------------|---|-----------------------------------|
| CompensatorSer | Internal Identification (Serial Number which is the Primary Key to this table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (IE1) | Internal Identification (Serial Number which is the Primary Key to the <i>Field</i> table). | VDT_SERIALNUMBER Integer |
| AddOnMaterialSer (FK) (IE2) | Internal Identification (Serial Number which is the Primary Key to the <i>AddOnMaterial</i> table). | VDT_SERIALNUMBER Integer |
| TrayAddOnSer | Reference to the AddOn that serves as the Tray for this compensator | VDT_SERIALNUMBER Integer |
| CompensatorId | External identification of the compensator. | VDT_ID Varchar(16) |
| CompensatorName | Name of the compensator. | VDT_NAME Varchar(64) |
| CompensatorType | Defined Compensator types are : <i>Proton, Photon, Electronic</i> | VDT_TYPE Varchar(32) |
| AboveTrayFlag | Flag indicating whether the Compensator is mounted above the Tray (between Source and Tray) or below the Tray. ■ <i>TRUE</i> = above the tray ■ <i>FALSE</i> = below the tray | VDT_FLAG_FALSE_DEFAULT Integer |

Table 17 Compensator (continued)

| Column Name | Description | Datatype |
|-----------------|--|-----------------------------------|
| FieldEdgeMargin | Defines the distance from the field edge, which is not taken into account in plane compensator calculation. Inout for the calculation. | VDT_DISTANCE Float |
| ColumnOffset | Offset between center of pixels in first row (and all odd rows) and second row (and all even rows) in cm. Allows description of hexagonal pattern. | VDT_DISTANCE Float |
| DivergingFlag | Indicates, if compensator is diverging or not. | VDT_FLAG_FALSE_DEFAULT Integer |
| DicomSeqNumber | Used for identifying Compensator in Compensator sequence in DICOM environment . | VDT_INT Integer |
| Comment | Free text. | VDT_COMMENT Varchar(254) |
| Status | Current compensator status. Value is 1 if beam line setting information exists but has been calculated using outdated field data. | VDT_INT Integer |
| HstryUserName | The user who updated the row of record in the database. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The task that inserts or updates the row in the database. | VDT_TASKNAME Varchar(32) |

ControlPoint

The *ControlPoint* table stores information about the control points for a MLC plan segment. Control points define a particular MLC shape at a particular gantry location for a treatment plan that uses a multileaf collimator (MLC). For a static treatment plan, there is only one segment and the gantry angle is ignored. For a dynamic treatment plan, there are at least three segments with a specified gantry angle for each segment.

The segment for a plan is linked to the plan itself through *MLCPlanSer*.

Table 18 ControlPoint

| Column Name | Description | Datatype |
|-------------------------|---|------------------------------|
| ControlPointSer | System generated serial number for a control point. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (AK1) | System generated serial number for a field. | VDT_SERIALNUMBER Integer |
| ControlPointIndex (AK1) | Index of the control point in the array. | VDT_INT Integer |
| ControlPointType | Type of control point (ControlPoint or ControlPointProton). This attribute's value is the name of the sub-table associated with this record, unless the value is <i>ControlPoint</i> . | VDT_TABLENAME Varchar(30) |
| MetersetWeight | The accumulative meterset weight determines the position of each control point on the argument axis for all machine parameter functions. | VDT_FLOAT Float |
| NominalEnergy | Beam energy at the nozzle entrance for the current control point (in keV). Unless the energy differs between control points for a photon source, this attribute is currently restricted to a proton radiation type. | VDT_INT Integer |

Table 18 ControlPoint(continued)

| Column Name | Description | Datatype |
|---------------|---|--------------------|
| CollX1 | Displacement (+ or -) from the beam centerline of the projection at isocenter of lower collimator jaw X1, in centimeters. A negative number means the edge of the jaw is past the beam centerline. | VDT_FLOAT Float |
| CollX2 | Displacement (+ or -) from the beam centerline of the projection at isocenter of lower collimator jaw X2, in centimeters. A negative number means the edge of the jaw is past the beam centerline. | VDT_FLOAT Float |
| CollY1 | Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1, in centimeters. A negative number means the edge of the jaw is beyond the beam centerline. | VDT_FLOAT Float |
| CollY2 | Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y2, in centimeters. A negative number means the edge of the jaw is beyond the beam centerline. | VDT_FLOAT Float |
| GantryRtn | Gantry rotation angle during a treatment, or the angle at which irradiation and rotation starts during an ARC treatment, in degrees. | VDT_FLOAT Float |
| CollRtn | Collimator rotation angle during treatment, in degrees. | VDT_FLOAT Float |
| OffPlaneAngle | Angle describing the rotation of the off-plane coordinate system around the positive X axis direction of the IEC gantry coordinate system. A positive angle corresponds to a clockwise rotation as viewed in the direction of the X axis 0 degrees describes a radiation source on the Z axis of the IEC gantry system. | VDT_ANGLE Float |

Table 18 ControlPoint(continued)

| Column Name | Description | Datatype |
|---------------------------------------|---|----------------------------------|
| PlanPosLeaf1A to PlanPosLeaf80A | Planned position of the left leaf for each position (1 to 60). The position is stored in hundredths (1/100) of a cm. | VDT_MLCPARAM smallint |
| PlanPosLeaf1B to PlanPosLeaf80B | Planned position of the right leaf for each position (1 to 60). The position is stored in hundredths (1/100) of a cm. | VDT_MLCPARAM smallint |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counterclockwise when viewed from above. | VDT_FLOAT Float |
| IsoCenterPositionX | Coordinate of Isocenter in respect to FOR of diagnostic Image of this Plan. | VDT_FLOAT Float |
| IsoCenterPositionY | Coordinate of Isocenter in respect to FOR of diagnostic Image of this Plan. | VDT_FLOAT Float |
| IsoCenterPositionZ | Coordinate of Isocenter in respect to FOR of diagnostic Image of this Plan. | VDT_FLOAT Float |

Course

The *Course* table stores information about the course of treatment for a patient. A course is a set of defined treatment sessions delivered over a specified period of time. A patient can have zero, one, or more courses. The status of the course is either *New*, *Treating*, or *Completed*.

Table 19 Course

| Column Name | Description | Datatype |
|-----------------------------|---|-----------------------------------|
| CourseSer (IE1)r | System generated serial number for a course. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) (IE2) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| CourseId (IE2) | Unique ID for a course. | VDT_ID Varchar(16) |
| StartTime | Date and time the course information was entered into ARIA. | VDT_DATETIME Datetime |
| ClinicalStatus | Indicates clinical status of course and all its plan concepts. Possible states are: <ul style="list-style-type: none">■ <i>COMPLETED</i>■ <i>NEW</i>■ <i>TREATING</i> | VDT_CLINICALSTATUS Varchar(16) |
| CompletedByUserName | Username of authorized person who marked the course as complete. | VDT_USERNAME Varchar(32) |
| CompletedDateTime | Date and time the course was completed. | VDT_DATETIME Datetime |
| Comment | Describes the course. | VDT_COMMENT Varchar(254) |
| ClinicalProtocolDir | Label of the image directory used to store all clinical protocol references associated with this course. The trailing slash (\) indicates this is a directory rather than a file. | VDT_FILENAME Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 19 Course(continued)

| Column Name | Description | Datatype |
|---------------------|--|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime (IE3) | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| TransactionId | The transaction id when this record was created. This is used to permit modifications within the same transaction on child tables. | VDT_TOKEN Varchar(255) |

CourseDiagnosis

The *CourseDiagnosis* table correlates a course with one or more diagnoses being treated by the course. *CourseSer* identifies the course connected to a diagnosis, identified by *DiagnosisSer*. This correlation table is necessary because a course can have many diagnoses associated with it, and a diagnosis can be connected with more than one course.

Table 20 CourseDiagnosis

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| CourseSer (FK) (AK) | Serial number for a patient's course of treatment. Used as part of a composite primary key for this table. | VDT_SERIALNUMBER Integer |
| DiagnosisSer (FK) (AK) | Serial number for a patient diagnosis associated with this course. Used as part of a composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Date |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

CoursePrintInfo

The *CoursePrintInfo* table maintains information of patient history and summary report printing.

Table 21 CoursePrintInfo

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| CourseSer (FK) | Serial number for a patient's course of treatment. Used as part of a composite primary key for this table. | VDT_SERIALNUMBER Integer |
| LastPrintedPageNum | Identifies the last printed page of a Patient History report. | VDT_NUMBER Integer |
| LastPrintedLineNum | Identifies the last printed line of a Patient History report. | VDT_NUMBER Integer |
| SessionsPrintedLineNum | A string of characters, consisting of the line numbers for each session. | VDT_STRING254 Varchar(254) |
| SummaryPrintDate | Date identifying the last time a Summary report was printed. | VDT_DATETIME Datetime |
| PatientHisPrintDate | Date identifying the last time a Patient History report was printed. | VDT_DATETIME Datetime |
| ChartFormat | Offers selection of one of three chart formats for printing. Those options are: <ul style="list-style-type: none">■ <i>Alternate-1</i>■ <i>Alternate-2</i>■ <i>Standard</i> | VDT_STRING64 Varchar(64) |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Date |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Diagnosis

This table is read-only.

The *Diagnosis* table stores information about the determination of the nature of a case of disease. A disease is any deviation from or interruption to the normal structure or function of any part, organ, or system of the body that is manifested by a characteristic set of symptoms and signs. In the context of ARIA, diseases are limited to those that might require radiation-therapy treatment.

From the *Diagnosis* table, you can retrieve more detailed information regarding primary and secondary diagnoses and treatment strategies.

Additional Diagnosis Table Standards (DTS) tables can be added using *Data Administration*. Your system administrator may have set up a Templates DTS folder for all diagnosis templates.

Table 22 Diagnosis

| Column Name | Description | Datatype |
|-----------------------|--|---------------------------------------|
| DiagnosisSer | System generated serial number for a diagnosis for this patient. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (AK1) | System generated serial number for a patient for whom this diagnosis applies. | VDT_SERIALNUMBER Integer |
| DiagnosisId (AK1) | User-defined ID for the diagnosis. | VDT_ID Varchar(16) |
| DateStamp | Date the patient's diagnosis was last modified. | VDT_DATETIME Datetime |
| DiagnosisTableName | Diagnosis coding system. Values can include: <ul style="list-style-type: none">■ <i>IDC-0</i>■ <i>ICD-9</i> (default)■ <i>ICD-10</i> Additional Diagnosis Table Standards (DTS) tables can be added using <i>Data Administration</i> . | VDT_DIAGNOSISTABLENAME Varchar(64) |

Table 22 Diagnosis(continued)

| Column Name | Description | Datatype |
|--------------------|--|---------------------------------------|
| DiagnosisCode | Alphanumeric value that describes a diagnosis. These values are assigned by an authority recognized and supported by the community. | VDT_DIAGNOSISCODE Varchar(16) |
| Description | Description of the diagnosis; the cause of a disease inferred from the analysis of symptoms and diagnostic test results. | VDT_STRING254 Varchar(254) |
| HistologyTableName | Histology coding system. | VDT_DIAGNOSISTABLENAME Varchar(64) |
| HistologyCode | Standard code identifying the type of cells comprising the tumor. | VDT_DIAGNOSISCODE Varchar(16) |
| HisDescription | Standard description associated with the identified cell type. | VDT_STRING254 Varchar(254) |
| ObjectStatus | Status of a diagnosis. Values are <i>Active</i> or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| DiagnosisType | Type of diagnosis, either primary or secondary. The value of DiagnosisType is the name of the table (SecndryDiagnosis or PrmryDiagnosis) that is associated with this diagnosis row. | VDT_TABLENAME Varchar(30) |
| Comment | Comment about a patient's diagnosis. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

DoseCorrectionLog

The *DoseCorrectionLog* table stores information about the date and time the dose corrections were made to a reference point.

Table 23 DoseCorrectionLog

| Column Name | Description | Datatype |
|--------------------------|--|-----------------------------------|
| DoseCorrectionLogSer | System generated serial number for a dose correction log. | VDT_SERIALNUMBER Integer |
| CorrectionDateTime (IE1) | Date and time that a dose correction was entered. | VDT_DATETIME Datetime |
| CorrectionNote | General note about the dose correction. | VDT_STRING254 Varchar(254) |
| PrintFlag | Indicates whether or not the dose correction has been printed. Values are: <ul style="list-style-type: none">■ 0 – Correction not printed■ 1 – Correction printed | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

DVH

The *DVH* table stores all the DVH-related data in a plan setup/plan sum.

Table 24 DVH

| Column Name | Description | Datatype |
|----------------------------------|---|----------------------------------|
| DVHSer | Internal Identification (Serial Number which is the Primary Key to the table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| PlanSumSer (FK) (IE1) | This attribute can reference a parent PlanSum object. Null value shall be allowed and be the default value for this attribute. | VDT_SERIALNUMBER Integer |
| PlanSetupSer (FK) (IE1) (IE2) | Internal Identification (Serial Number which is the Primary Key to the <i>PlanSetup</i> table). | VDT_SERIALNUMBER Integer |
| Structures | The structures and virtual structures for which the DVH is to be calculated | VDT_TEXT16K Text |
| StructuresLen | Length of text attribute Structures | VDT_INT Integer |
| DVHDisplayFlags | Flag set to indicate if the min/max/mean/modal/median/std dev/EUD/TCP/NTCP/ DVH value will be displayed in user interface | VDT_INT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ExternalField

The *ExternalField* table represents an external Radiation in a RT Plan (or Radiation Set in the future). The attributes of this table support content-supported plans only.

Table 25 ExternalField

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| RadiationSer (FK) | Internal Identification (Serial Number which is the Primary Key to the table). | VDT_SERIALNUMBER Integer |
| GantryRtn | Gantry rotation angle in IEC scales. | VDT_ANGLE Float |
| CollRtn | Collimator rotation angle in IEC scales (clockwise viewed from isocenter, 0° is toward gantry). | VDT_ANGLE Float |
| CollMode | Defines what kind of collimation is used. Possible values are: <ul style="list-style-type: none">■ <i>Symmetry</i>■ <i>AsymmetryX</i>■ <i>AsymmetryY</i>■ <i>AsymmetryX & Y</i> | VDT_COLLMODE Varchar(16) |
| CollX1 | Collimator right X position (viewed from radiation source) in IEC scales. Values increase to the right. | VDT_COLLPARAM Float |
| CollY1 | Collimator top (farther from gantry) Y position in IEC scales. Values increase when moving away from gantry. | VDT_COLLPARAM Float |
| CollX2 | Collimator left X position in IEC scales. Values increase to the right. | VDT_COLLPARAM Float |
| CollY2 | Collimator bottom Y position in IEC scales. Values increase when moving away from gantry. | VDT_COLLPARAM Float |
| TimepGy | Same as MUpGy, just in units of time, for time-driven treatments. | VDT_FLOAT Float |

Table 25 ExternalField

| Column Name | Description | Datatype |
|----------------------------|--|---------------------------------------|
| GantryRtn Direction | Direction of rotation. The possible values are: <ul style="list-style-type: none">■ CW■ CC■ NONE | VDT_STRING16 Varchar(16) |
| GantryRtnExt | Indicated extended range for Varian Auto Sequencing. The possible values are: <ul style="list-style-type: none">■ NN■ NE■ EN■ EE The two characters define the Start and Stop angles. | VDT_STRING16 Varchar(16) |
| DoseRate | MU / min. Treatment machines may have different dose rate settings. This is the one chosen by the user. | VDT_DOSERATE Integer |
| StopAngle | Gantry rotation stop angle in Arc therapy. The start angle is GantryRtn in normal Field. | VDT_ANGLE Float |
| WedgeDose | Quotient of MU for Wedge per MU of Total MU of Field. Range: 0.0 - 1.0. For example, use 0.2 for 20 MU of MU. | VDT_DOSE Float |
| BEVMarginFlag | Indicates whether the margin type is BEV (<i>true</i>) or collimator (<i>false</i>). | VDT_FLAG_FALSE_DE FAULT Integer |
| CollMargin Bottom | Bottom collimator margin value in centimeters. | VDT_FLOAT Float |
| CalculationLog | Description of the calculation. | VDT_TEXT Text |
| CalculationLog Len | Length of CalculationLog, in bytes. | VDT_INT Integer |
| DirectionPoint Distance | The distance, in centimeters, from source to the direction point. Only valid for Isocentric Fields. Used to preserve the location of the direction point in the user interface when saving the Field. | VDT_FLOAT Float |

Table 25 ExternalField

| Column Name | Description | Datatype |
|----------------------|---|--------------------------------|
| EllipticalMarginFlag | Margin type is either elliptical (<i>True</i>) or circular (<i>False</i>). | VDT_FLAG_FALSE_DEFault Integer |
| FldNormFactor | Field Normalization Factor. The term NORMF is the factor by which DF, UN has to be multiplied to get the Field normalized dose distribution. | VDT_FLOAT Float |
| FldNormMethod | Method used for the Field normalization. The dose contribution of all Fields to the normalization point is the same (unless Field weight factors are used). The position of the normalization point varies with the method: <ul style="list-style-type: none"> ■ Isocentric - Isocenter ■ DMax - The dose maximum at Field central axis (usually a few centimeters from the skin) ■ Reference Point - An arbitrary point (usually on Field central axis) | VDT_STRING64 Varchar(64) |
| CollMarginLeft | Left collimator margin value in centimeters | VDT_FLOAT Float |
| MUCoeff | Monitor Units per Gray. This is the value MUF,UN as defined in formula (7) in the planconcept paper. In units MU/Gy. This value tells the relation of the two values at% unnormalized DF,UN percentage level. It is calculated in dose calculation. | VDT_FLOAT Float |
| MUCoeffMWOpen | Monitor unit coefficient for% prescribed dose and for 1 Gy. This coefficient applies if Motor wedge is driven out from Field. | VDT_FLOAT Float |
| MUCoeffMWWedged | Monitor unit coefficient for% prescribed dose and for 1 Gy. This coefficient applies if Motor wedge is inserted to Field. | VDT_FLOAT Float |
| MUCoeffMWVirtual | Monitor unit coefficient for% prescribed dose and for 1 Gy. This coefficient applies if a virtual wedge is inserted to Field. | VDT_FLOAT Float |

Table 25 ExternalField

| Column Name | Description | Datatype |
|---------------------|--|---------------------------------|
| OptimizeCollRtnFlag | Optimize collimator rotation. If this flag is set to <i>true</i> the rotation of collimator will be optimized when the MLC or block in the field is fitted/refitted. | VDT_FLAG_FALSE_DEFAULT Integer |
| SkinFlashFlag | A flag that tells if skin flash should be applied or not. | VDT_FLAG_FALSE_DEFAULT Integer |
| DRRTemplateFileName | Specifies the location of the XML file that describes the DRR generation settings template for this field. | VDT_CONFIGURATIO N Varchar(254) |
| RefDose | Absolute dose at dose maximum per MU. This value is calculated in dose calculation. It is used to display this value to the user. This is the value RDF,UN as defined in formula (10). So it is in the same units as the unnormalized DF,UN dose distribution. | VDT_DOSE Float |
| RefDoseMW Open | Absolute dose per MU [Gy/MU] at the dose maximum for a motorized wedge or an OmniWedge field when both the motorized wedge segment and the virtual wedge segment are open. The segment is irradiated without the wedge and the collimator jaws. | VDT_FLOAT Float |
| RefDoseMW Wedged | Absolute dose per MU [Gy/MU] at the dose maximum for a motorized wedge or an OmniWedge field when the motorized wedge segment is closed. The segment is irradiated using the motorized wedge. | VDT_FLOAT Float |
| RefDoseMW Virtual | Absolute dose per MU [Gy/MU] at the dose maximum for an OmniWedge field when the virtual wedge segment is fully or partly closed. The segment is irradiated using the virtual wedge (collimator jaws). | VDT_FLOAT Float |
| CollMarginRight | Right collimator margin value in centimeters. | VDT_FLOAT Float |
| CollMarginTop | Top collimator margin value in centimeters. | VDT_FLOAT Float |

Table 25 ExternalField

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------|
| WedgeWeightFactor | Relative weight factor of motorized wedge. That is: $D(\text{WEDGED_SEGMENT})/D(\text{TOTAL})$ where D is the dose contribution to the Field reference point. This factor is selected by the user for motorized wedges. The Field reference point is the point where the measured dose distribution was normalized. | VDT_FLOAT Float |
| WeightFactor | The weighting factor (the term WF). This is changed by the user to modify the relative weights of the Fields. Usually in the range 0.1 - 6.0. Equal to 1.0 in non-weighted Fields. | VDT_FLOAT Float |
| TrackingSer | Foreign key relating to the active Tracking. The active tracking is also included in the relations of TrackingField. | VDT_SERIALNUMBER Integer |
| DesiredDoseAtIsocenter | Holds the desired unnormalized dose at isocenter for this field, unit. | VDT_FLOAT Float |
| MuCoeffUnit | Calculation result unit as returned by calculation algorithm. May or may not be the same as primary dosimeter unit of the machine. Possible values are: <ul style="list-style-type: none">■ MUPERGY■ SECPERGY | VDT_STRING16 Varchar(16) |

ExternalFieldCommon

The *ExternalFieldCommon* table represents an external Radiation in a RT Plan (or Radiation Set in the future). The attributes of this table support content-supported plans as well a workflow-only-supported plans.

Table 26 ExternalFieldCommon

| Column Name | Description | Datatype |
|----------------------|---|---------------------------------------|
| RadiationSer (FK) | Internal Identification (Serial Number which is the Primary Key to the table). | VDT_SERIALNUMBER Integer |
| Meterset | The meterset to be applied during treatment, in case of external beam units. This is defined in the machine. This value is only used when no reference points are related to this plan by DoseContribution. If reference points are related, this value is ignored. | VDT_FLOAT Float |
| MetersetPerGy | The ratio of MU per Gray, which allows you to calculate the MU to be applied for dose delivery. This dose is defined in the FieldRefPoint record, which has the DoseSpecificationFlag set to <i>true</i> . | VDT_FLOAT Float |
| TreatmentTime | Total treatment time in minutes used to verify that the patient is not given a too large dose. Calculated from MetersetPerGy and DoseRate. | VDT_TIME Float |
| SetupFieldFlag | For Planning Field indicates whether this field is a Setup field (<i>true</i>) or not (<i>false</i>). For other Field types, it is <i>false</i> . | VDT_FLAG_FALSE_DE FAULT Integer |
| MotionComp Source | Describes the motion compensation source. The possible values are: <ul style="list-style-type: none">■ TDB later■ When DICOM is ready | VDT_STRING254 Varchar(254) |
| MotionComp Technique | Describes the motion compensation technique. The possible values are: <ul style="list-style-type: none">■ TDB later■ When DICOM is ready | VDT_STRING254 Varchar(254) |

Table 26 ExternalFieldCommon

| Column Name | Description | Datatype |
|---------------------------|---|-------------------------|
| SetupTechnique | Defines the setup technique along the enumerations as defined in Patient Setup Module in DICOM. | VDT_ID Varchar(16) |
| SSD | SSD is the Source to Skin Distance (same as the TargetSkinDistance) in centimeters. | VDT_FLOAT Float |
| SourceFieldEntry Distance | Indicates the distance, in centimeters, from the source to Field entry point. Only valid for Fixed SSD Fields. Usually equals SAD, but it is different from SAD for changed SSD Fields. | VDT_FLOAT Float |
| CouchLat | Couch lateral position in IEC scales with the unit in centimeters. Values increase to left when viewed from gantry. | VDT_COUCHPARAM Float |
| CouchLatDelta | Delta Couch lateral movement in IEC scales, with the unit in centimeters. The delta is between the patient position based on external markers and the isocenter startup position. | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position in IEC scales, with the unit in centimeters. Value increases when moving toward gantry. | VDT_COUCHPARAM Float |
| CouchLngDelta | Delta Couch longitudinal movement in IEC scales, with the unit in centimeters. The delta is between the patient position based on external markers and the isocenter startup position. | VDT_COUCHPARAM Float |
| CouchVrt | Couch vertical position in IEC scales, with the unit in centimeters. Values increase when moving up; zero is at isocentric height. | VDT_COUCHPARAM Float |
| CouchVrtDelta | Delta Couch vertical movement in IEC scales, with the unit in centimeters. The delta is between the patient position based on external markers and the isocenter startup position. | VDT_COUCHPARAM Float |

Table 26 ExternalFieldCommon

| Column Name | Description | Datatype |
|---------------------|---|-----------------------|
| PatientSupportAngle | PatientSupportAngle corresponds with Couch isocentric rotation. Measured in IEC scales, the values increase counter-clockwise when viewed from above. | VDT_ANGLE Float |
| TableTopPitchAngle | Rotation of the patient table or chair around IEC PATIENT SUPPORT X axis. 0° is no pitch (the patient is lying flat or sitting upright). Furthermore, positive pitch is backwards (the patient is sitting or in a supine position). | VDT_ANGLE Float |
| TableTopRollAngle | Rotation of patient table along the patient's longitudinal axis (PITCHED PATIENT SUPPORT Y axis). Usually between -30° to 30°. | VDT_ANGLE Float |
| IDUPosLat | Image Detection Unit lateral position with respect to the isocenter (in centimeters). An IDU can be a R-Arm with PortalVision, an ImageIntensifier, etc. | VDT_POSITION Float |
| IDUPosLng | Image Detection Unit longitudinal position with respect to the isocentre (in centimeters). | VDT_POSITION Float |
| IDUPosVrt | Image Detection Unit vertical position with respect to the isocentre (in centimeters). Can also be used as Focus-Detector-Distance. An IDU can be a R-Arm with PortalVision, an ImageIntensifier, etc. | VDT_POSITION Float |
| IDURtn | Image Detection Unit rotation with respect to the isocentre (in centimeters). An IDU can be a R-Arm with PortalVision, an ImageIntensifier, etc. | VDT_ANGLE Float |
| IsoCenterPositionX | Coordinate of Isocenter with respect to FOR of diagnostic Image of this Plan (in millimeters). | VDT_FLOAT Float |
| IsoCenterPositionY | Coordinate of Isocenter with respect to FOR of diagnostic Image of this Plan (in millimeters). | VDT_FLOAT Float |

Table 26 ExternalFieldCommon

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------|
| IsoCenterPosition Z | Coordinate of Isocenter with respect to FOR of diagnostic Image of this Plan (in millimeters). | VDT_FLOAT Float |
| TechniqueSer | Treatment Technique of the beam. | VDT_SERIALNUMBER Float |
| EnergyModeSer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| ToleranceSer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |

ExternalFieldCommonHstry

The *ExternalFieldCommonHstry* table extends the *RadiationHstry* table supporting attributes specific to External Beam Treatments. The attributes of this table support history entries for workflow and content-supported plans.

Table 27 ExternalFieldCommonHstry

| Column Name | Description | Datatype |
|----------------------------|---|-----------------------------|
| RadiationHstry Ser (FK) | Internal Identification (Serial Number which is the Primary Key to the table). | VDT_SERIALNUMBER Integer |
| PlannedMeterset | The delivered merset in primary merset units for devices working with mersets. The primary merset unit is defined by the associated radiation device. | VDT_FLOAT Float |
| ActualMeterset | The delivered merset in primary merset units for devices working with mersets. The primary merset unit is defined by the associated radiation device. | VDT_FLOAT Float |
| MersetOverride Flag | A read-only field for the merset. | VDT_OVERRIDEFLAG Integer |
| SSD | SSD is the Source to Skin Distance (same as the TargetSkinDistance) in centimeters. | VDT_FLOAT Float |
| CouchCorrection Lat | Correction, which the user has chosen for this couch axis against the planned value. This definition may be further detailed after the existing DICOM definition. | VDT_COUCHPARAM Float |
| CouchCorrection Lng | Correction, which the user has chosen for this couch axis against the planned value. This definition may be further detailed after the existing DICOM definition. | VDT_COUCHPARAM Float |

Table 27 ExternalFieldCommonHstry

| Column Name | Description | Datatype |
|--------------------------|---|-----------------------------|
| CouchCorrectionVrt | Correction, which the user has chosen for this couch axis against the planned value. This definition may be further detailed after the existing DICOM definition. | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position in IEC scales with the unit in centimeters. Values increase to left when viewed from gantry. | VDT_COUCHPARAM Float |
| CouchLatOverrideFlag | A read-only field for CouchLat. | VDT_OVERRIDEFLAG Integer |
| CouchLatPlanned | Indicates the planned lateral position. Values increase to the left when viewed from gantry. | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position in IEC scales, with the unit in centimeters. Values increases when moving toward gantry. | VDT_COUCHPARAM Float |
| CouchLngOverrideFlag | A read-only field for CouchLng. | VDT_OVERRIDEFLAG Integer |
| CouchLngPlanned | Planned couch longitudinal position. The value increases when moving toward gantry. | VDT_COUCHPARAM Float |
| CouchVrt | Couch vertical position in IEC scales, with the unit in centimeters. Values increase when moving up; zero is at isocentric height. | VDT_COUCHPARAM Float |
| CouchVrtOverrideFlag | A read-only field for CouchVrt. | VDT_OVERRIDEFLAG Integer |
| CouchVrtPlanned | Planned couch vertical position in IEC scales. Values increase when moving up, zero is at isocentric height. | VDT_COUCHPARAM Float |
| TableTopEccAngleOverFlag | A read-only field for TableTopEccAngle. | VDT_OVERRIDEFLAG Integer |
| TableTopEccentricAngle | Table Top (non-isocentric) angle in degrees. | VDT_ANGLE Float |

Table 27 ExternalFieldCommonHstry

| Column Name | Description | Datatype |
|-----------------------------|--|-----------------------------|
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counterclockwise when viewed from above. | VDT_ANGLE Float |
| PatientSupportAngleOverFlag | A read-only field for PatientSupportAngle. | VDT_OVERRIDEFLAG Integer |
| PatSupPitchOverrideFlag | A read-only field for PatSupPitch. | VDT_OVERRIDEFLAG Integer |
| PatSupportPitchAngle | The Table Top Pitch Angle; that is, the rotation of the IEC TABLE TOP coordinate system (or table of chair) about the X-axis of the IEC TABLE TOP coordinate system (in degrees). 0° means no pitch: the flat table or strictly upright chair. | VDT_ANGLE Float |
| PatSupportRollAngle | Table Top Roll Angle: that is, the rotation of the IEC TABLE TOP coordinate system about the IEC Y-axis of the IEC TABLE TOP coordinate system (in degrees). 0° means no roll: flat table or strictly upright chair. | VDT_ANGLE Float |
| PatSupRollOverrideFlag | A read-only field for PatSupRoll. | VDT_OVERRIDEFLAG Integer |
| PFFlag | Possible values are: <ul style="list-style-type: none"> ■ <i>B</i> is Before PortFilm ■ <i>A</i> is After PortFilm ■ NULL is NOT a PortFilm | VDT_STRING1 Varchar(1) |
| PFMUSubFlag | If <i>true</i> , PFMU was subtracted from the planned MU for the treatment of this field. | VDT_OVERRIDEFLAG Integer |
| PIFlag | Possible values are: <ul style="list-style-type: none"> ■ <i>B</i> is Before PortImage ■ <i>A</i> is After PortImage ■ NULL is NOT a PortImage | VDT_STRING1 Varchar(1) |
| ToleranceSer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Float |

Table 27 ExternalFieldCommonHstry

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------|
| NominalEnergy | Energy of the beam at the nozzle entrance in keV for first control point. Used for Proton, Photon and Electron (radiation type denotes the type of the energy). | VDT_ENERGY Integer |
| EnergyModeOverrideFlag | A read-only field for EnergyMode. | VDT_OVERRIDEFLAG Integer |
| SSDOVERRIDEFLAG | A read-only field for SSD. | VDT_OVERRIDEFLAG Integer |

ExternalFieldHstry

The *ExternalFieldHstry* extends the *TreatmentRadiationHstry* table supporting attributes specific for External Beam Treatments. The attributes of this table support only history entries for content-supported plans.

Table 28 ExternalFieldHstry

| Column Name | Description | Datatype |
|----------------------------|--|------------------------------|
| RadiationHstry Ser (FK) | Internal Identification (Serial Number which is the Primary Key to the table). | VDT_SERIALNUMBER Integer |
| ResourceSer | Serial number for the machine on which the add-on can be used. | VDT_SERIALNUMBER Integer |
| IntendedNumOf Paintings | Proton specific: Number of times the scanning pattern for this control point was intended to be applied. Corresponds to actual number of paintings if treatment was not interrupted. | VDT_INT Integer |
| NumOfPaint OverrideFlag | A read-only field for IntendedNumofPainting. | VDT_OVERRIDEFLAG Integer |
| Technique | Indicates the technique. | VDT_TECHNIQUE Varchar(16) |
| GantryRtn | Gantry rotation angle in IEC scales. | VDT_ANGLE Float |
| GantryRtn OverrideFlag | A read-only field for GantryRtn. | VDT_OVERRIDEFLAG Integer |
| CollRtn | Collimator rotation angle in IEC scales (clockwise viewed from isocentre, 0° is toward gantry). | VDT_ANGLE Float |
| CollRtnOverride Flag | A read-only field for CollRtn. | VDT_OVERRIDEFLAG Integer |
| CollMode | Defines what kind of collimation is used. Possible values are: <ul style="list-style-type: none">■ <i>Symmetry</i>■ <i>AsymmetryX</i>■ <i>AsymmetryY</i>■ <i>AsymmetryX & Y</i> | VDT_COLLMODE Varchar(16) |

Table 28 ExternalFieldHstry

| Column Name | Description | Datatype |
|---------------------|---|-----------------------------|
| CollX1 | Collimator right X position (viewed from radiation source) in IEC scales. Values increase to the right. | VDT_COLLPARAM Float |
| CollX1Override Flag | A read-only field for CollX1. | VDT_OVERRIDEFLAG Integer |
| CollY1 | Collimator top (farther from gantry) Y position in IEC scales. Values increase when moving away from gantry. | VDT_COLLPARAM Float |
| CollY1Override Flag | A read-only field for CollY1. | VDT_OVERRIDEFLAG Integer |
| CollX2 | Collimator left X position in IEC scales. Values increase to the right. | VDT_COLLPARAM Float |
| CollX2Override Flag | A read-only field for CollX2. | VDT_OVERRIDEFLAG Integer |
| CollY2 | Collimator bottom Y position in IEC scales. Values increase when moving away from gantry. | VDT_COLLPARAM Float |
| CollY2Override Flag | A read-only field for CollY2. | VDT_OVERRIDEFLAG Integer |
| PSACorrection | Correction, which the user has chosen for this couch axis against the planned value. This definition may be further detailed through the DICOM definition. | VDT_ANGLE Float |
| OffPlaneAngle | Angle describing the rotation of the OFF-PLANE coordinate system around the positive X-Axis direction of the IEC GANTRY coordinate system. A positive angle corresponds to a clockwise rotation as viewed in the direction of the X-Axis. The zero angle describes a radiation source on the Z-Axis of the IEC GANTRY system. | VDT_ANGLE Float |
| WedgeAngle | Angle of the wedge. | VDT_ANGLE Float |
| WedgeDirection | Direction of the wedge. | VDT_FLOAT Float |

Table 28 ExternalFieldHstry

| Column Name | Description | Datatype |
|---------------------------|--|-----------------------------|
| DoseRate | MU / min. Treatment machines may have different dose rate settings. This is the one chosen by the user. | VDT_DOSERATE Integer |
| DoseRate OverrideFlag | A read-only field for DoseRate. | VDT_OVERRIDEFLAG Integer |
| WedgeDose | Quotient of MU for Wedge per MU of Total MU of Field. Range: 0.0 - 1.0. For example, use 0.2 for 20 MU of MU. | VDT_DOSE Float |
| WedgeDose OverrideFlag | A read-only field for WedgeDose. | VDT_OVERRIDEFLAG Integer |
| StopAngle | Gantry rotation stop angle in Arc therapy. The start angle is GantryRtn in normal Field. | VDT_ANGLE Float |
| MUpDeg | MU/degree in Arc therapy. | VDT_MUDEG Float |
| MUpDeg OverrideFlag | A read-only field for MUpDeg. | VDT_OVERRIDEFLAG Integer |
| SnoutPosition | Proton specific. Distance of the last fixed element of the snout to isocenter in centimeters for the first control point. Positive axis along IEC Gantry Z-axis. | VDT_DISTANCE Float |
| SnoutPos OverrideFlag | A read-only field for SnoutPos. | VDT_OVERRIDEFLAG Integer |
| FixLightPolarPos | Proton specific, for eye treatments. Polar coordinate of gazing angle of the eye in degrees. Position 0 corresponds to looking straight ahead. | VDT_ANGLE Float |
| FixLightAzimuth Angle | Proton specific, for eye treatments. Azimuthal coordinate of gazing angle of the eye in degrees. Angle 0 is on the horizontal left plane looking into the beam. Positive direction is clockwise: 90° is upwards. | VDT_ANGLE Float |

Table 28 ExternalFieldHstry

| Column Name | Description | Datatype |
|-----------------------------|--|-----------------------------|
| GantryRtn Direction | Indicates the direction of rotation. The possible values are: <ul style="list-style-type: none">■ CW■ CC | VDT_STRING16 Varchar(16) |
| GantryRtnExt | Indicated Extended range for Varian Auto Sequencing. The possible values are (The two characters define start and stop angle): <ul style="list-style-type: none">■ NN■ NE■ EN■ EE | VDT_STRING16 Varchar(16) |
| DistalEndEnergy | Distal end energy in g/cm (used for Protons only). | VDT_FLOAT Float |
| SOBPWidth | Modulation width of the proton beam. Measured from the distal to the proximal end of the target. Units are in centimeters. | VDT_FLOAT Float |
| BeamModifiers Set | The option provided by the IBA module. This item should also contain the IBA module version identifier. This field is proton specific. | VDT_NAME Varchar(64) |
| WedgeNumber1 | DICOM Number of first wedge in RT Plan. Taken from FieldAddOn.DicomSeqNumber, when created internally by Varian. | VDT_NUMBER Integer |
| WedgeNumber2 | DICOM Number of second wedge in RT Plan. Taken from FieldAddOn.DicomSeqNumber, when created internally by Varian. | VDT_NUMBER Integer |
| WedgeAngle2 | Indicates the angle of the second wedge in RT Plan. | VDT_ANGLE Float |
| WedgeDirection2 | Indicates the direction of the second wedge in RT Plan. | VDT_FLOAT Float |
| BeamCurrent ModulationId | Proton specific. Identifier for beam current modulation. Can only be defined for RangeModulatorType <i>WHL_MODWEIGHTS</i> . | VDT_ID Varchar(16) |

FieldAddOn

The *FieldAddOn* table correlates fields with the add-on devices or accessories that may shape or attenuate the beam during radiation delivery. Types of add-ons include MLC, standard block, compensator, wedge, IDU holder, applicator, open field, tray, and bolus.

Table 29 FieldAddOn

| Column Name | Description | Datatype |
|----------------------------|--|----------------------------------|
| RadiationSer (FK) (IE1) | System generated serial number for a field on which this add-on will be used during treatment. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| AddOnSer (FK) | System generated serial number for the add-on. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| SlotSer | System generated serial number for a slot. | VDT_SERIALNUMBER Integer |
| CustomCode | A custom code for an add-on, which can be verified in the treatment interface. | VDT_SRING64 Varchar(64) |
| DicomSeqNumber | Identifies the Wedge in a Wedge sequence in the DICOM environment. | VDT_INT Integer |
| UserPreselection | Notes whether the user preselected either the attached AddOn or the AddOn value Options: <ul style="list-style-type: none">■ ADD_ON = 0■ ADD_ON_VALUE = 1 | VDT_ENUM Smallinteger |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 29 FieldAddOn(continued)

| Column Name | Description | Datatype |
|---------------|---|------------------------------|
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32)s |

FieldPhoto

Each *FieldPhoto* entry correlates a Photo with a Field, necessary to support assigning two photos per field.

Table 30 FieldPhoto

| Column Name | Description | Datatype |
|-------------------------|---|----------------------------------|
| PhotoSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (IE1) | Internal Identification (Serial Number which is the Primary Key to the <i>Field</i> table). | VDT_SERIALNUMBER Integer |
| CacheKeySer | Key for identification of objects, which have a composite primary key, in ARIA Radiation Oncology DB-Cache (because there a single-attribute primary key is required). The CacheKeySer shall be unique within the table. If it is not set, then the DB-Cache will automatically create a cache key. | VDT_SERIALNUMBER Integer |
| HstryUserName | The user who updated the row of record in the database | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The activity that inserts or updates the row of record in the database. | VDT_TASKNAME Varchar(32) |
| DisplaySequence | Contains a list of unique numbers to define the order of the how the photos are displayed in a row. Lowest number means first displayed. | VDT_INT Integer |

FieldProton

The *FieldProton* table stores the proton specific data of a field.

Table 31 FieldProton

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| RadiationSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| AirGap | The distance between the outermost element of the Field line (compensator, edge of snout etc.) and the patient surface along the central axis. Unit is [cm]. | VDT_DISTANCE Float |
| FieldModifiersSet | The option provided by the IBA module. This item should also contain the IBA module version identifier. | VDT_NAME Varchar(64) |
| DistalEndDistance | The distance from the nominal source position defined along the source-axis distance to the distal end of the Field on the central Field axis [cm]. Proton specific | VDT_FLOAT Float |
| DistalEndEnergy | Distal range of the Field [g/cm2]. | VDT_FLOAT Float |
| IsocenterMarginFlag | If this flag is set to TRUE the proximal and distal end margins are defined from the isocenter and not from the target structure. | VDT_FLAG_FALSE_DEFAULT Integer |
| PrimaryRadiationSer | The primary Field of a patch Field. SubFields shall be realized as control points within a Field. This is only used for patch Fields, i.e. Primary Field serial number is defined. | VDT_SERIALNUMBER Integer |

Table 31 FieldProton (continued)

| Column Name | Description | Datatype |
|---------------------------|---|-----------------------------------|
| ProximalEndDistance | The distance from the nominal source position defined along the source-axis distance to the proximal end of the field on the central Field axis [cm]. | VDT_FLOAT Float |
| SnoutPositionInputFlag | This flag is set to true, if primary input for snout position is snout position in machine coordinates. It is set to False, if air gap input shall be used to calculate the snout position. | VDT_FLAG_FALSE_DEFAULT Integer |
| TargetUncertaintyMarginX1 | Target structure uncertainty margins for proton field energy range definition (unit mm) | VDT_FLOAT Float |
| TargetUncertaintyMarginX2 | Target structure uncertainty margin X2 (in mm) for proton field energy range definition. | VDT_FLOAT Float |
| TargetUncertaintyMarginY1 | Target structure uncertainty margin Y1 (in mm) for proton field energy range definition. | VDT_FLOAT Float |
| TargetUncertaintyMarginY2 | Target structure uncertainty margin Y2 (in mm for proton field energy range definition. | VDT_FLOAT Float |
| VirtualSADX | Virtual SAD in X-direction (unit cm). | VDT_DISTANCE Float |
| VirtualSADY | Virtual SAD in Y-direction (unit cm). | VDT_DISTANCE Float |
| BeamCurrModulationId | Proton-specific identifier for beam current modulation. This identifier can be defined only if exactly one range modulator with type <i>WHL_MODWEIGHTS</i> exists. | VDT_ID Varchar(16) |
| BeamlineDataTableVers | Version number of proton-specific algorithm or lookup table used to convert clinical parameters into equipment data. | VDT_STRING16 Varchar(16) |

Table 31 FieldProton (continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| BeamlineSettingsId | Checksum for proton-specific beamline settings. Required by MDA. | VDT_STRING64 Varchar(64) |
| SOBPWidth | Modulation width of the proton beam in cm. Measured from the distal to the proximal end of the target. | VDT_FLOAT Float |
| HeadFixationAngle | Proton-specific attribute for eye treatments. This attribute is the angle of head fixation in degrees. Direction of rotation is like that of table top pitch (rotation backwards is positive). The angle is defined relative to the IEC pitch coordinate system. | VDT_ANGLE Float |
| FixLightPolarPos | Proton-specific attribute for eye treatments. This attribute is the polar coordinate of gazing angle of the eye in degrees. 0° corresponds to looking straight ahead. | VDT_ANGLE Float |
| FixLightAzimuthAngle | Proton-specific attribute for eye treatments. This attribute is the azimuthal coordinate of gazing angle of the eye in degrees. 0° is towards the left side of the horizontal plane looking into the beam. Positive direction is clockwise. For example, 90° is upwards. | VDT_ANGLE Float |

Table 31 FieldProton (continued)

| Column Name | Description | Datatype |
|----------------------|---|-----------------------|
| WedgeOrientation | For proton therapy only, describes the wedge orientation in degrees (IEC scales). In 0° angular position of collimator and wedge, thin wedge direction is toward the gantry. An increase in WedgeDirection corresponds to counterclockwise rotation if viewed from radiation source. In the standard eye treatment situation (patient seated, looking in to the beam, 90° fixed beamline) 0° is pointing to the left as seen from the patient, 90° is pointing upwards. | VDT_ANGLE Float |
| WedgeThinEdgePos | For proton therapy only, applies to a wedge that does not cover the whole field. This attribute describes the closest distance from the central axis of the beam to the thin edge in cm (projected at isocenter). Values are: <ul style="list-style-type: none">■ Positive if the wedge does not cover the central axis■ Negative if the wedge does cover the central axis | VDT_DISTANCE Float |
| Status | Active status. Value is 1 if compensator has valid matrices but has been calculated using outdated field data. | VDT_INT Integer |
| SnoutFitPosition | Stores the snout position value in mm, with that value used to fit MLC. | VDT_FLOAT Float |
| UserPreselectedRange | Indicates that the user preselected and defined a range. | VDT_ENUM Smallint |
| UserPreselectedSOBP | Indicates that the user preselected and defined SOBP. | VDT_ENUM Smallint |

Table 31 FieldProton (continued)

| Column Name | Description | Datatype |
|-------------------|--|------------------------------|
| SpotListFile | The name of the file containing the spot lists for this proton field. Only used for proton fields with modulated scanning technique. | VDT_FILENAME Varchar(254) |
| ScanningTechnique | <p>Defines the scanning technique, if any, of the treatment field. The Scanning technique depends on the technique of the field.</p> <p>If technique of the field is <i>modulated scanning</i>, The possible values are:</p> <ul style="list-style-type: none">■ 1 (Spot scanning)■ 2 (Line scanning)■ Null <p>If technique of the field is <i>uniform scanning</i>, the possible values are:</p> <ul style="list-style-type: none">■ 3 (Wobbling)■ 4 (Raster scanning)■ Null <p>If the technique of the field is scattering, either single scattering or double scattering, the scanning technique is null.</p> | VDT_ENUM Smallint |

FieldStructure

The *FieldStructure* table relates Structures to Fields. Normally, Structures are related to Volumes and Images, but often they have a special meaning for a particular field.

Table 32 FieldStructure

| Column Name | Description | Datatype |
|-------------------------------|---|----------------------------------|
| FieldStructureSer | Internal Identification (Serial Number which is the Primary Key to the Table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (IE1) (IE3) | Internal Identification (Serial Number which is the Primary Key to the Field table). | VDT_SERIALNUMBER Integer |
| StructureSer (FK) (IE2) (IE3) | Reference to the Structure, which is used by this Field. | VDT_SERIALNUMBER Integer |
| StructUsageType | Indicating whether the referenced structure is used as Bolus or used to fit the MLC, Block or Collimators of the Planning Field (Bolus, MLC, Block, FieldTarget). | VDT_STRING16 Varchar(16) |
| HstryUserName | The user who updated the row of record in the database. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The activity that inserts or updates the row of record in the database. | VDT_TASKNAME Varchar(32) |
| BlockSer | Foreign key to Block.BlockSer. If <i>StructUsageType</i> = <i>Block</i> , <i>BlockSer</i> identifies the Block used by the field to shield the structure. | VDT_SERIALNUMBER Integer |

MLCPlan

The *MLCPlan* table provides information about the treatment plan that uses a multileaf collimator (MLC). The MLC treatment plan can be static or dynamic. A static treatment plan contains only one segment. A dynamic treatment plan can contain one or more segments. A segment is a set of collimator leaf positions.

Table 33 MLCPlan

| Column Name | Description | Datatype |
|------------------------|--|-------------------------------|
| MLCPlanSer | System generated serial number for an MLC plan. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (AK) | System generated serial number for the field connected to this MLC plan. | VDT_SERIALNUMBER Integer |
| MLCPlanId (AK) | Unique ID for the MLC plan. | VDT_ID Varchar(16) |
| MLCPlanName | Name of the MLC plan. | VDT_NAME Varchar(64) |
| CreationDate | Date and time this MLC plan was entered. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | The name of the user who created the MLC plan. | VDT_USERNAME Varchar(32) |
| MLCPlanType | Defines the type of plan: <ul style="list-style-type: none">■ <i>Dynamic MLCPlan</i> (with many segments)■ <i>Standard MLCPlan</i> (with one segment). | VDT_TABLENAME Varchar(30) |
| IndexParameterType | Description of the external beam parameter used as the index value. The index value represents discreet values of the index parameter, such as <i>MU</i> or <i>GantryRtn</i> . | VDT_TYPE Varchar(32) |
| Comment | General note about the MLC plan. | VDT_COMMENT Varchar(254) |

Table 33 MLCPlan(continued)

| Column Name | Description | Datatype |
|----------------------|---|-----------------------------------|
| IsLockedFlag | Indicates whether all leaves are locked. Values are: <ul style="list-style-type: none">■ 1 – All leaves are locked.■ 0 – No leaves are locked. | VDT_FLAG_FALSE_DEFAULT Integer |
| EllipticalMarginFlag | Flag indicating whether the margin type is elliptical. Values are: <ul style="list-style-type: none">■ 0 – Circular■ 1 – Elliptical | VDT_FLAG_FALSE_DEFAULT Integer |
| BEVMarginFlag | Flag indicating whether the margin type is BEV. Values are: <ul style="list-style-type: none">■ 0 – Collimator■ 1 – BEV | VDT_FLAG_FALSE_DEFAULT Integer |
| LeftMargin | Left margin value, in centimeters. For a circular margin, this defines the overall margin. | VDT_FLOAT Float |
| RightMargin | Right margin value, in centimeters. | VDT_FLOAT Float |
| TopMargin | Top margin value, in centimeters. | VDT_FLOAT Float |
| BottomMargin | Bottom margin value, in centimeters. | VDT_FLOAT Float |
| ContourMeetPoint | Leaf-edge contour meet point. Locate possible values with: <pre>select * from LookupTable where ListSelector = AF_LEAF_EDGE _MEETPOINT</pre> | VDT_STRING32 Varchar(32) |
| ClosedMeetPoint | Closed leaf meeting point. Locate possible values with: <pre>select * from LookupTable where ListSelector = AF_CLOSED_LEAF_MEETPOINT</pre> | VDT_STRING32 Varchar(32) |
| OptimizeCollRtnFlag | Flag indicating whether to optimize collimator rotation. Values are: <ul style="list-style-type: none">■ 0 – No optimization■ 1 – Optimize collimator rotation | VDT_FLAG_FALSE_DEFAULT Integer |

Table 33 MLCPlan(continued)

| Column Name | Description | Datatype |
|----------------------------|---|----------------------------------|
| CollimatorJaw Optimization | Collimator jaw optimization mode. Values are: <ul style="list-style-type: none">■ 0 = No fitting■ 1 = Fit to recommended jaw positions■ 2 = Fit to structure outline | VDT_INT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime (IE1) | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PlanSetup

The *PlanSetup* table stores information about the plan setup. Fractionation is a technique of administering the plan setup in multiple doses over days and weeks to achieve optimum therapeutic effect. For example, fractionation allows you to divide a prescribed radiation dose of 6000 cGy into 40 fractions to be delivered in five fractions per week and one fraction per day.

The plan setup and fractionation are based on the original reference point name, and if they were created automatically (in the *Patient Manager* module), they have the same name as the reference point.

The plan setups allow you to group fields together so that they can be scheduled as a group rather than as individual fields. This feature is especially useful when a treatment course consists of different phases with changing fractionation.

Table 34 PlanSetup

| Column Name | Description | Datatype |
|-------------------------|---|-------------------------------|
| PlanSetupSer (IE2) | System generated serial number for a plan setup. | VDT_SERIALNUMBER Integer |
| PatientSupportDeviceSer | System-generated serial number that is the primary key for the <i>PatientSupportDevice</i> table. | VDT_SERIALNUMBER Integer |
| PrescriptionSer | The prescription's serial number. | VDT_SERIALNUMBER Integer |
| CourseSer (FK) (IE2) | System generated serial number for a course. | VDT_SERIALNUMBER Integer |
| PlanSetupId | Unique ID for the plan setup. | VDT_ID Varchar(16) |
| PlanSetupName | Name of the plan setup. | VDT_NAME Varchar(64) |
| CreationDate | Date and time of creation of this plan setup. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Name of user who created this plan setup. | VDT_USERNAME Varchar(32) |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| Status | The currently active status. Status strings are a subset (or all) of those defined in the Approval.ApprovalStatus attribute. Valid status strings are: <ul style="list-style-type: none">■ <i>Completed</i>■ <i>PlanApproval</i>■ <i>Reviewed</i>■ <i>TreatApproval</i> | VDT_STRING64 Varchar(64) |
| StatusUserName | The name of the user who set the Status attribute. | VDT_USERNAME Varchar(32) |
| StatusDate | The time and date when the Status attribute was set. There may be a nominal difference between this time and the update time. | VDT_DATETIME Datetime |
| PlanNormFactor | Plan normalization factor is the factor by which the unnormalized plan dose must be multiplied to normalize it. May be given by the user from dose volume histogram, or automatically calculated. | VDT_FLOAT Float |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|--------------------|--|-----------------------------|
| PlanNormMethod | <p>The dose normalization method. Values are:</p> <ul style="list-style-type: none">■ <i>None</i> – No normalization.■ <i>Min</i> – Normalization point is minimum dose of target volume (PTV)■ <i>Max</i> – Normalization point is maximum dose of target volume (PTV)■ <i>Mean</i> – Normalization point is mean dose of target volume (PTV)■ <i>Point</i> – A user-given point is used as reference point.■ <i>User-given</i> – User specifies percentage (stored in PlanNormFactor), which is normalized to%. | VDT_STRING64 Varchar(64) |
| Comment | General note about the plan setup. | VDT_COMMENT Varchar(254) |
| TreatmentTechnique | <p>Brachy-specific type of treatment technique. Values are:</p> <ul style="list-style-type: none">■ <i>INTERSTITIAL CONTACT</i>■ <i>INTRACAVITARY</i>■ <i>INTRALUMENARY</i>■ <i>INTRAVASCULAR</i>■ <i>PERMANENT</i> | VDT_STRNG16 Varchar(16) |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| ApplicationSetupType | Brachy-specific type of application setup. Values are: <ul style="list-style-type: none">■ <i>BLOEDORN</i>■ <i>CHANDIGARH</i>■ <i>DELCLOS</i>■ <i>ENDOBRONCHIAL</i>■ <i>ENDORECTAL</i>■ <i>EYE_PLAQUE</i>■ <i>FLETCHER_SUIT</i>■ <i>HAM_FLAB</i>■ <i>HENSCHKE</i>■ <i>JOSLIN_FLYNN</i>■ <i>MANCHESTER</i>■ <i>NASOPHARYNGEAL</i>■ <i>OESOPHAGEAL</i>■ <i>OTHER</i>■ <i>PERINEAL</i>■ <i>SYED_NEBLETT</i> | VDT_STRING16 Varchar(16) |
| ApplicationSetupNumber | Brachy-specific identification number of the application setup. The number shall be unique within the plan in which it is generated. | VDT_INT Integer |
| TreatmentType | The treatment type. Values include: <ul style="list-style-type: none">■ <i>Brachy</i>■ <i>Linac</i> (default)■ <i>Proton</i> | VDT_TREATMENTTYPE Varchar(16) |
| CalcModelOptionsLen | Length of data (in bytes) that is stored in the <i>CalcModelOptions</i> data column. | VDT_INT Integer |
| CalcModelOptions | Algorithms and options used in dose calculation. | VDT_TEXT16K Text |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------------|
| TreatmentOrientation | <p>Patient orientation at treatment time. This position may differ from the position on the 3D image. Values are:</p> <ul style="list-style-type: none"> ■ <i>FFP</i> ■ <i>FFS</i> ■ <i>FFDL</i> ■ <i>FFDR</i> ■ <i>HFDL</i> ■ <i>HFDR</i> ■ <i>HFP</i> ■ <i>HFS</i> | VDT_STRING16 Varchar(16) |
| PrescribedPercentage | <p>Percentage of the relative dose distribution where the Prescription for the PrimaryPTV and the Volume for VolumeType PTV should match.</p> <p>The dose corresponding to this percentage has to be calculated with the information in Fractionation and PrescribedDose.</p> <p>The percentage level corresponds to PrescribedDose which is provided by the user to fix the relative dose distribution in PlanSetup to absolute doses. Measured in fractions of 1.0, so% is represented by 1.0.</p> | VDT_FLOAT Float |
| PrimaryPTVSer | Reference to the PatientVolume, defined as the PrimaryPTV for this PlanSetup. This PTV defines the ReferencePercent. | VDT_SERIALNUMBER Integer |
| IrregFlag | <p>Flag indicating whether the plan is irregular. Values are:</p> <ul style="list-style-type: none"> ■ 0 – The plan is not irregular. ■ 1 – The plan is irregular. | VDT_FLAG_FALSE_DEFAULT Integer |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| FieldRules | String containing rules that describe the alignment of fields. | VDT_TEXT16K Text |
| FieldRulesLen | Length of the FieldRules attribute in bytes. | VDT_INT Integer |
| SkinFlashMargin | Skin flash margin in mm for each field. | VDT_FLOAT Float |
| ProtocolPhaseId | | VDT_STRING64 Varchar(64) |
| MultiFieldOptFlag | For proton treatment only, flag indicating how field optimization is performed. Values are: <ul style="list-style-type: none">■ TRUE = plan has been created using simultaneous optimization of all fields.■ FALSE = Each field has been optimized individually. | VDT_FLAG_TRUE_DEFAULT Integer |
| CopyOfSer | SerialNumber of PlanSetup from which this PlanSetup was copied. | VDT_SERIALNUMBER Integer |
| EquipmentSer | References the equipment that created this object. When objects are imported and the same equipment data record was found, this record shall be referenced. | VDT_SERIALNUMBER Integer |
| StructureSetSer | System-generated serial number identifying the structure set that is used by a plan. | VDT_SERIALNUMBER Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|-------------------------|---|----------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| RaySearchPrivateData | Identifies binary data of an arbitrary length | VDT_IMAGE Image |
| RaySearchPrivateDataLen | Length of the biological optimizer data, in bytes. | VDT_INT Integer |
| Intent | Defines the intent of the plan along DICOM definitions and private extensions. All Values will be written in uppercase. | VDT_STRING16 Varchar(16) |
| ViewingPlane | The viewing plane transformation to be used to always show plans from the same view point. | VDT_TRANSFORMATION Binary(96) |
| ViewingPlaneULCorner | Upper left corner of the view area to be shown to the user by default. This is used for saving pan and zoom. Coordinates are in the viewing plane coordinate system. | VDT_TRIPLEFLOAT Binary(24) |
| ViewingPlaneLRCorner | Lower right corner of the view area to be shown to the user by default. This is used for saving pan and zoom. Coordinates are in the viewing plane coordinate system. | VDT_TRIPLEFLOAT Binary(24) |
| BrachyPdrPulseInterval | If the plan is a brachy plan and the BrachyUnit's DoseRateMode equals <i>PDR</i> , this field contains the pulse interval. Units are measured in seconds. | VDT_FLOAT Float |
| BrachyPdrNoOfPulses | If the plan is a brachy plan and the BrachyUnit's DoseRateMode equals <i>PDR</i> , this field contains the number of pulses. | VDT_INT Integer |

Table 34 PlanSetup(continued)

| Column Name | Description | Datatype |
|---------------|--|-----------------------------|
| TransactionId | The transaction id when this record was created. This is used to permit modifications within the same transaction on child tables. | VDT_TOKEN Varchar(255) |
| ImageSer | Identifies the image used to create this plan in case of an Irregular plan. Must be set if the IrregFlag column is 1, otherwise null. This is a Foreign key to Image.ImageSer. | VDT_SERIALNUMBER Integer |

PlanSum

The *PlanSum* table represents a collection of plans, which have been chosen by a user to view the total dose distribution over this plan collection. A plan sum belongs to a Course. Several plan sums may be defined, which represent different combinations of plans. Therefore, a plan setup may appear in more than one plan sum.

Table 35 PlanSum

| Column Name | Description | Datatype |
|----------------------|--|----------------------------------|
| PlanSumSer | Internal Identification (Serial Number which is the Primary Key to the Table). The <i>vp_syGetNextKey</i> procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| CourseSer (FK) (IE1) | Internal Identification (Serial Number which is the Primary Key to the <i>Course</i> table). | VDT_SERIALNUMBER Integer |
| PlanSumId | ID of the Plan Sum | VDT_ID Varchar(16) |
| PlanSumName | Name of the Plan Sum | VDT_NAME Varchar(64) |
| IsodoseLevels | Isodose level set used for visualization of the summed dose matrix | VDT_IMAGE16K Image |
| IsodoseLevelsLen | length of IsodoseLevels (if 0, no IsodoseLevels stored to DB) | VDT_INT Integer |
| FieldRules | String containing rules that depict how fields in the plans of this plansum are permanently aligned to each other. | VDT_TEXT16K Text |
| FieldRulesLen | Length of FieldRules attribute | VDT_INT Integer |
| HstryUserName | The user who updated the row of record in the database | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |

Table 35 PlanSum (continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The activity that inserts or updates the row of record in the database. | VDT_TASKNAME Varchar(32) |
| ImageSer | Identifies the reference image of this plan sum. This is a Foreign key to Image.ImageSer. | VDT_SERIALNUMBER Integer |

Prescription

The *Prescription* table holds information about the prescription. For example, information like total number of fractions to be delivered and site to which it needs to be delivered; the current phase; whether gating technique is used and if used, which gating technique; whether simulation is being used, and more are stored in this table.

Table 36 Prescription

| Column Name | Description | Datatype |
|-----------------------------|--|-----------------------------|
| PrescriptionSer (FK) | The prescription's serial number. | VDT_SERIALNUMBER Integer |
| PrescriptionName | The prescription's name. | VDT_STRING64 Varchar(64) |
| TreatmentPhaseSer | Describes to which treatment phase this prescription belongs. | VDT_SERIALNUMBER Integer |
| PredecessorPrescription Ser | The prescription serial number of the approved prescription from which the current prescription is derived. | VDT_SERIALNUMBER Integer |
| PhaseType | How the treatment shall be divided up in phases. Refer to <i>DEFAULT_VALUE_TREATMENT_PHASE</i> in Lookup data section. Some of the possible values are Primary, Boost, etc. | VDT_STRING16 Varchar(16) |
| Gating | Describes the gating technique used for the treatment. Refer to <i>DEFAULT_VALUE_GATING</i> in Lookup data section. Some of the possible values are Amplitude based gating, Phase base gating, etc. | VDT_STRING32 Varchar(32) |
| SimulationNeeded | Describes whether simulation is needed. Refer to <i>DEFAULT_VALUE_SIMULATION</i> in Lookup data section. The possible values are: <ul style="list-style-type: none">■ 0 = No■ 1 = Yes | VDT_FLAG Integer |

Table 36 Prescription

| Column Name | Description | Datatype |
|------------------------------|--|---------------------------------|
| BolusFrequency | Describes bolus frequency. Refer to <i>DEFAULT_VALUE_BOLUS_FREQUENCY</i> in lookup data section. Some possible values are Every Treatment, Every Other Treatment, etc. | VDT_STRING64 Varchar(64) |
| BolusThickness | Describes thickness of the bolus. Refer to <i>DEFAULT_VALUE_BOLUS_DEPTH</i> in lookup data section. Some of the possible values are 1cm, 2cm, etc. | VDT_STRING64 Varchar(64) |
| Notes | The Oncologist's notes. For data migration, some of the fields would be a part of Notes, like OtherModalities, PreTreatment, PrescribedDose, etc. | VDT_STRING1024 Varchar(1024) |
| Status | Status of prescription. Refer to <i>DEFAULT_VALUE_RTRX_STATUS</i> in lookup data section. Some of the Possible values are Draft, Approved, Retired, etc. | VDT_STRING64 Varchar(64) |
| NumberOfFractions | Total number of fractions to be delivered for the treatment. | VDT_COUNT Integer |
| Technique | It provides technique used for treatment. It refers to existing <i>DEFAULT_VALUE_TECHNIQUE</i> ListSelector in LookupTable. Some of the Possible values are 3 Field Plan, 4 Field Box, Arc, etc. | VDT_STRING64 Varchar(64) |
| Site | Describes site for a prescription. It refers to existing <i>DEFAULT_VALUE_VOLUME</i> ListSelector in LookupTable. | VDT_STRING64 Varchar(64) |
| PrescriptionTemplateSer (FK) | This is the serial number of the Prescription Template from which the current prescription is derived. | VDT_SERIALNUMBER Integer |
| CreationDate | Date and time of the record when it was created. | VDT_DATETIMESTAMP Datetime |

Table 36 Prescription

| Column Name | Description | Datatype |
|------------------|--|----------------------------------|
| CreationUserName | Name of the user who created the record. | VDT_USERNAME Varchar(32) |
| HstryUserName | The user who updated the row of record in the database | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The activity that inserts or updates the row of record in the database. | VDT_TASKNAME Varchar(32) |

PrmryDiagnosis

This table is read-only.

The *PrmryDiagnosis* table stores information about the diagnosis of a primary disease. The tumor-node-metastases (TNM) staging system provides standardized descriptions for the disease. If any other staging methods were used in the diagnosis, the data is recorded in this table. *DiagnosisSer* links this table to the *Diagnosis* table.

Table 37 PrmryDiagnosis

| Column Name | Description | Datatype |
|-------------------|--|-----------------------------|
| DiagnosisSer (FK) | System generated serial number for a diagnosis that links this record to a corresponding record in the Diagnosis table. | VDT_SERIALNUMBER Integer |
| TStage | Describes the primary tumor in terms of size, skin involvement, or degree of ulceration. In the TNM staging system, T1 through T4 indicate relative size and intensity. T1 indicates non-invasive tumors, TIS indicates in-situ tumors, and TX indicates undefined primary lesions. Default is None. | VDT_STRING32 Varchar(32) |
| NStage | Indicates the degree to which lymph nodes are involved with a tumor. N Stage describes the primary tumor in terms of its effect on lymph nodes. In the TNM staging system, N1 through N4 indicate the degree to which lymph nodes are affected and the relative localization of the nodes involved. Default is None. | VDT_STRING32 Varchar(32) |
| MStage | Indicates if distant metastases of the primary tumor exist. In the TNM staging system, M0 means no distant metastases and M1 means distant metastases exist. Default is None. | VDT_STRING32 Varchar(32) |
| AltStage | Alternative or secondary method used to collect staging information, if different from TNM. | VDT_STRING32 Varchar(32) |
| TumorSize | Diameter of the tumor in centimeters. | VDT_TUMORSIZE Float |

Table 37 PrmryDiagnosis(continued)

| Column Name | Description | Datatype |
|--------------|--|-----------------------------|
| StageMethod | Method used to evaluate the stage of the disease, such as <i>Clinical</i> , <i>Pathological</i> , <i>Surgical</i> , <i>Unknown</i> , or <i>None</i> . Default is <i>None</i> . | VDT_STRING32 Varchar(32) |
| SummaryStage | Denotes the combination of the three TNM stages into a single staging value. Usually denoted as a roman numeral with a single trailing alpha character, such as IIIB. | VDT_STRING32 Varchar(32) |

Radiation

The *Radiation* tables stores common data used in any Radiation treatment. The type specific data is stored in the RadiationType subtables. RadiationType stores the possible inherited classes Field and BrachyField.

Table 38 Radiation

| Column Name | Description | Datatype |
|-------------------------|--|----------------------------------|
| RadiationSer (IE2) | Internal Identification (Serial Number which is the Primary Key to the Table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (IE1) | Foreign key to the parent object. | VDT_SERIALNUMBER Integer |
| PlanSetupSer (FK) (IE2) | Foreign key to the parent object. | VDT_SERIALNUMBER Integer |
| RadiationId | External identification of Radiation | VDT_ID Varchar(16) |
| RadiationName | Name of Radiation | VDT_NAME Varchar(64) |
| RadiationType | Whereas Radiation is the SuperClass, RadiationType describes one of the possible derived classes: <i>BeamLinac</i> , <i>BeamProton</i> , <i>Catheter</i> , <i>SeedCollection</i> . As RadiationType is defined to be NOT NULL, a corresponding row in exactly one of following tables must exist: <i>Field</i> , <i>BrachyField</i> '. If RadiationType is <i>BeamProton</i> , also a row in table <i>FieldProton</i> must exist | VDT_TYPE Varchar(32) |
| Comment | Free text | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime (IE3) | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |

Table 38 Radiation(continued)

| Column Name | Description | Datatype |
|-----------------|---|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| RadiationNumber | A number identifying the Radiation within the PlanSetup. In conventional RT Plan IOD, this is the Beam Number/ Brachy Setup Number. | VDT_INT Integer |
| TechniqueLabel | The treatment technique of this radiation. Refers to Lookup Table with ListSelector, TECHNIQUE_LABEL. This label is an enumerated label suited for clinical user perception, not the special RadOnc application technique defined by <i>TechniqueSer</i> . | VDT_STRING64 Varchar(64) |
| RadiationOrder | Defines the order, in which fields are treated (and displayed). This number shall be unique within a PlanSetup across TreatmentFields and SetupFields on the one hand and across PlanningFields on the other hand. If defined, within a PlanSetup it shall start with 1 and be incremented by 1. It shall be either NULL for all Fields or defined for all Fields of the PlanSetup. | VDT_INT Integer |
| RefImageSer | If this FK is defined, the RefImageUID and RefImageSOPClassSer shall be set to NULL. | VDT_SERIALNUMBER Integer |
| SetupNote | Free text. | VDT_STRING254 Varchar(254) |
| RefImageUID | Image instance UID for delayed image load/import. In order to avoid redundancy, this is cleared if the RefImageSer is not null. | VDT_UID Varchar(64) |

Table 38 Radiation(continued)

| Column Name | Description | Datatype |
|---------------------|---|-------------------------------|
| RefImageSOPClassSer | <p>Foreign key specifying the DICOM SOP Class UID of the Referenced Image IOD. If the RefImageUID is specified, the RefImageSOPClassSer shall be NOT NULL.</p> <p>The following SOPClass record might be referenced:</p> <ul style="list-style-type: none">■ 1.2.840.10008.5.1.4.1.1.481.1 RT Image Storage | VDT_SERIALNUMBER Integer |
| CreationDate | <p>Date and Time when this Field was created. This is important with simulation and treatment fields.</p> <p>For planning fields this is set to the date when the field was constructed.</p> | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Indicates the user who created this field. | VDT_USERNAME Varchar(32) |

RadiationHstry

The *RadiationHstry* table represents the history of a specific radiation within the Treatment Record IOD. The IOD contains 1-n Radiations being treated. This table contains a record for each of those Radiations treated within the IOD. The attributes of this table supports history entries for content-supported plans as well workflow-only-supported plans.

Table 39 RadiationHstry

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------|
| RadiationHstrySer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| TreatmentRecordSer | Foreign key to the Treatment Record IOD, to which this radiation history belongs. | VDT_SERIALNUMBER Integer |
| RadiationHstryType | Annotates the subtype present: <ul style="list-style-type: none">■ ExternalFieldCommonHstry: a workflow supported treatment record for an external beam (including protons). In addition to the RadiationHstry, an ExternalFieldCommonHstry record must be present.■ ExternalFieldHstry: a content supported treatment record for an external beam. In addition to the RadiationHstry, an ExternalFieldCommonHstry and ExternalFieldHstry record must be present.■ BrachyFieldHstry: a content supported treatment record for a brachy treatment. In addition to the RadiationHstry, an BrachyFieldHstry record must be present. | VDT_TYPE Varchar(32) |

Table 39 RadiationHstry

| Column Name | Description | Datatype |
|-----------------------|---|-----------------------------|
| TreatmentDeliveryType | <p>The Treatment Delivery Type as defined in DICOM (300A,00CE). The defined terms are:</p> <ul style="list-style-type: none"> ■ TREATMENT: normal patient treatment ■ OPEN_PORTFILM: portal image acquisition with open field ■ TRMT_PORTFILM: portal image acquisition with treatment port ■ CONTINUATION: continuation of interrupted treatment ■ SETUP ■ VERIFICATION: History entries of type SETUP and VERIFICATION that annotates records, which under no circumstances contains dose to the patient. | VDT_STRING16 Varchar(16) |
| RadiationSer (IE2) | Internal Identification (Serial Number which is the Primary Key to the Table). The vp_syGetNextKey procedure retrieves the key from the NextKeyTable. | VDT_SERIALNUMBER Integer |
| RadiationId | External identification of Radiation | VDT_ID Varchar(16) |
| RadiationName | Name of Radiation | VDT_NAME Varchar(64) |
| RadiationNumber | The Radiation Number, to which this TreatmentRadiationHstry belongs. In case of OPEN_PORTFILM or TRMT_PORTFILM, this annotates the treatment beam this entry belongs to, not the transient portfilm beam number. | VDT_INT Integer |
| TechniqueLabel | The treatment technique of this radiation. Refers to lookup table with ListSelector, TECHNIQUE_LABEL. | VDT_STRING64 Varchar(64) |

Table 39 RadiationHstry

| Column Name | Description | Datatype |
|---------------------------|---|-----------------------------|
| RadiationType | Whereas Radiation is the SuperClass, RadiationType describes one of the possible derived classes: <i>BeamLinac</i> , <i>BeamProton</i> , <i>Catheter</i> , <i>SeedCollection</i> . As RadiationType is defined to be NOT NULL, a corresponding row in exactly one of following tables must exist: <i>Field</i> , <i>BrachyField</i> '. If RadiationType is <i>BeamProton</i> , also a row in table <i>FieldProton</i> must exist | VDT_TYPE Varchar(32) |
| TreatmentStartTime | Date and Time when the treatment has started. | VDT_DATETIME Datetime |
| TreatmentEndTime | Date and Time when the treatment has ended. | VDT_DATETIME Datetime |
| TreatmentTime | TreatmentField attribute (time in minutes). | VDT_TIME Float |
| TreatmentTimeOverrideFlag | Read-only field for TreatmentTime. | VDT_OVERRIDEFLAG Integer |
| TerminationStatus | Conditions under which treatment was terminated. The possible values are: <ul style="list-style-type: none">■ NORMAL■ OPERATOR■ MACHINE■ UNKNOWN | VDT_STATUS16 Varchar(16) |
| FractionNumber | Number of the fraction of this beam, which was recorded with this history entry. Partial treatment of the same fraction has the same fraction number. | VDT_INT Integer |
| ApprovalDate | Read-only field for the approval date. | VDT_DATETIME Datetime |
| ApprovalUserName | Read-only field for the approver's username. | VDT_USERNAME Varchar(32) |

Table 39 RadiationHstry

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| UserName1 | The name of the operator who performed the treatment. This will be set by the delivery machine working against the DICOM interface or by Import, and therefore may not match <i>HstryUserName</i> . It is not longer an additional user helping the primary therapist. Additional Users must start from UserName2. | VDT_NAME Varchar(64) |
| UserName2 | Additional system user helping therapist to treat a Patient. | VDT_STRING32 Varchar(32) |
| UserName3 | Additional system user helping therapist to treat a Patient. | VDT_STRING32 Varchar(32) |
| OverrideFlag | The OverrideFlag determines which treatments had an override. <ul style="list-style-type: none"> ■ TRUE = Override done ■ FALSE = No Override | VDT_FLAG_FALSE_DEFAULT Integer |
| NoOfImage | Number of images acquired during this treatment. | VDT_COUNT Integer |
| PrintFlag | Indicates the <i>TreatmentFieldHstry</i> was printed immediately after the treatment. | VDT_FLAG_FALSE_DEFAULT Integer |
| RVFlag | Describes the way this treatment record was created. The possible values are: <ul style="list-style-type: none"> ■ 0: Manual ■ 1: Treatment ■ 2: Imported Manual ■ 3: Imported Treatment. | VDT_TINYINT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime (IE3) | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 39 RadiationHstry

| Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| HistoryNote | Note of the treatment record as entered during treatment or at a later time. | VDT_STRING Varchar(max) |
| MachineNote | Used for proton treatments. This is additional, generated text, to document the machine configuration. | VDT_STRING Varchar(max) |
| FieldSetupNote | Field Setup Notes as shown to the user at the time of treatment. Copied from ExternalField.Note when the record is created. | VDT_STRING Varchar(max) |
| BeamOffCode | Beam off code (legal requirement). | VDT_STRING64 Varchar(64) |

RadiationRefPoint

The *RadiationRefPoint* table is used to define which Field delivers what dose to a certain RefPoint.

Table 40 RadiationRefPoint

| Column Name | Description | Datatype |
|-----------------------|---|---------------------------------------|
| RadiationSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| RefPointSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| RTPlanSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table) | VDT_SERIALNUMBER Integer |
| CacheKeySer | Key for object identification, which have a composite primary key, in Vision DB-Cache (because there a single-attribute primary key is required). The CacheKeySer shall be unique within the table. If it is not set, then the DB-Cache will automatically create a cache key. | VDT_SERIALNUMBER Integer |
| FieldDose | <p>The Dose delivered by a Field to a RefPoint for each Fractionation. This value is set at approval time, when the final concept is chosen. In Planning this is calculated by:</p> $\text{DosePerFraction} * (\text{relative})\text{OutputFactor}$ <p>Without planning this is set manually.</p> | VDT_DOSE Float |
| DoseSpecificationFlag | This flag is the key to the MU calculation at treatment time. This flag indicates which Field Dose of the different FieldRefPoint correlation records to take for the MU calculation (see Field.MUpGy). | VDT_FLAG_FALSE_ DEFAULT Integer |

Table 40 RadiationRefPoint

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------------|
| Depth | <p>The distance from the skin surface to the reference point in the direction of the field central axis. The distances are from reference point to skin (Depth) and from skin to field focus (PSSD). In other words,</p> <p>$Depth+PSSD$</p> <p>is the distance from focus to reference point.</p> | VDT_FLOAT Float |
| PSSD | <p>The distance from the field focus plane to the skin in the direction of the field central axis. The distances are from reference point to skin (Depth) and from skin to field focus (PSSD). In other words,</p> <p>$Depth+PSSD$</p> <p>is the distance from focus to reference point.</p> | VDT_FLOAT Float |
| DominantFieldFlag | The value is <i>true</i> if the parent field is the dominant field for this reference point. The dominant field defines the coordinate system for the reference point location. The location of the reference point is originally given in the coordinate system of the dominant field. | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Table 40 RadiationRefPoint

| Column Name | Description | Datatype |
|-------------|---|---------------------|
| NominalFlag | Specifies whether the beam dose is accurately calculated (<i>false</i>) or 'just' broken down from the plan dose (<i>true</i>). | VDT_FLAG Integer |

RefPoint

The *RefPoint* table stores information related to a reference point. A reference point may correspond to an anatomical location and is defined as the dose absorbed at a point on an isodose chart that uses Dmax as the reference point.

Table 41 RefPoint

| Column Name | Description | Datatype |
|-------------------------------|--|-----------------------------|
| RefPointSer | System generated serial number for a reference point. | VDT_SERIALNUMBER Integer |
| PatientVolumeSer (FK) (AK) | System generated serial number for a patient volume. | VDT_SERIALNUMBER Integer |
| PatientSer (AK1) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| RefPointId (AK) (AK1) | Unique ID for reference point. | VDT_ID Varchar(16) |
| RefPointName | Name of a reference point. | VDT_NAME Varchar(64) |
| RefPointUID (AK2) | DICOM-provided unique identifier of a reference point across radiotherapy plans (300a,3). | VDT_UID Varchar(64) |
| RefPointType | Type of reference point, such as <i>primary site</i> or <i>secondary site</i> . | VDT_STRING16 Varchar(16) |
| TotalDoseLimit | Absolute total dose limit for this reference point. This is actually a kind of total breakpoint. Treatments cannot go beyond this limit without a qualified dose-override procedure. | VDT_DOSE Float |
| DailyDoseLimit | Absolute total dose limit for this reference point per day. Same as TotalDoseLimit, but for time of day. | VDT_DOSE Float |
| SessionDoseLimit | Absolute total dose limit for this reference point per session. Same as TotalDoseLimit, but for time of treatment session. | VDT_DOSE Float |

Table 41 RefPoint(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

RefPointHstry

The *RefPointHstry* tables stores a history of the actual dose delivered to a reference point.

Table 42 RefPointHstry

| Column Name | Description | Datatype |
|---------------------------------|---|----------------------------------|
| RefPointHstrySer | System generated serial number for a reference point history. | VDT_SERIALNUMBER Integer |
| RadiationHstrySer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| RefPointSer (FK) (IE3) (AK1) | System generated serial number for a reference point. | VDT_SERIALNUMBER Integer |
| ActualDose | Actual dose applied to a reference point by a treatment. | VDT_DOSE Float |
| Comment | General note about the reference point history. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

RefPointLog

The *RefPointLog* table stores information regarding dose corrections, modifications, and overrides.

Table 43 RefPointLog

| Column Name | Description | Datatype |
|---------------------------------|---|----------------------------------|
| RefPointLogSer | System generated serial number for a reference point log. | VDT_SERIALNUMBER Integer |
| DoseCorrectionLogSer (FK) (IE1) | System generated serial number for a dose correction log. | VDT_SERIALNUMBER Integer |
| RefPointSer (FK) (IE2) | System generated serial number for a reference point. | VDT_SERIALNUMBER Integer |
| ModificationType | Type of modification that created this entry. Possible values are: <ul style="list-style-type: none">■ Correction■ Override | VDT_TYPE Varchar(32) |
| ModificationDate | Date and time of reference point log modification. | VDT_DATETIME Datetime |
| DoseDelta | Dose delta if a correction was made. | VDT_DOSE Float |
| OvrdAuthorizedName | Name of person who authorized the override or correction. | VDT_USERNAME Varchar(32) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

RTPlan

The *RTPlan* table describes the plan scheme, which defines a layout of how a number of fractions should be applied over a certain time period.

Table 44 RTPlan

| Column Name | Description | Datatype |
|------------------|--|-------------------------------|
| RTPlanSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table) | VDT_SERIALNUMBER Integer |
| PlanSOPClassSer | Foreign key specifying the DICOM SOP Class UID of the Plan IOD. The following SOPClass records might be referenced: <ul style="list-style-type: none">■ 1.2.840.10008.5.1.4.1.1.481.5 (RT Plan Storage including Brachy)■ 1.2.840.10008.5.1.4.1.1.481.8 (RT Ion Plan Storage) This FK is loosely coupled to PlanSetup.TreatmentType. TreatmentType of 'Proton' should result in references to the ION SOP Class. | VDT_SERIALNUMBER Integer |
| PlanUID | DICOM UID to identify the DICOM RT Plan object. | VDT_UID Varchar(64) |
| PlanSetupSer | Internal Identification (Serial Number which is the Primary Key to the Table) | VDT_SERIALNUMBER Integer |
| RTPlanId | External identification of the plan scheme. | VDT_ID Varchar(16) |
| RTPlanName | Name of the plan scheme. | VDT_NAME Varchar(64) |
| CreationDate | Date and time when this plan scheme was created. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Indicates the user who created this plan. | VDT_USERNAME Varchar(32) |

Table 44 RTPlan

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| NoFractions | The number of fractions. | VDT_COUNT Integer |
| StartDelay | Delay, in days, until the first fraction is applied. | VDT_INT Integer |
| DicomSeqNumber | Used for identifying Fractionation in the Fractionation sequence in DICOM environment. | VDT_INT Integer |
| Comment | Free text for commenting | VDT_COMMENT Varchar(254) |
| InterfaceStamp | Indicates whether this plan was exposed to external interfaces. That is, it whether the plan was exported or treated. It was if its value is greater than 0. | VDT_INT Integer |
| PrescribedDose | The Absolute Dose Value per Fraction corresponding to PrescribedPercentage. For planning, this is the primary information that fixes the absolute dose distribution; all others are calculated based on this value. | VDT_DOSE Float |
| SeriesSer | Internal Identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| PlanIntegrityHash | The plan integrity checksum (hash) of dose relevant parameters in the plan and children. This is calculated and stored at plan approval. | VDT_CRC Binary(32) |
| PlanHashVersion | Version number for the Plan Integrity Hash value that will be incremented if there are changes in the hash algorithm. | VDT_INT Integer |

Table 44 RTPlan

| Column Name | Description | Datatype |
|-----------------------------|--|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| TreatmentOrder | Defines the order in which the fractionations of a course are treated. | VDT_ORDER Integer |
| FileName | Complete path (symbolic image directories) where the RT Plan IOD DICOM file is stored. The filename is required for workflow supported and hybrid plans and must not be set for content supported plans. | VDT_FILENAME Varchar(254) |
| FractionPatternDigitsPerDay | The number of fraction digits per day used in attributes FractionPattern. It corresponds to the DICOM Tag (300A,0079). | VDT_INT Integer |
| FractionPattern | The intended FractionPattern, guiding the scheduling. It corresponds to the DICOM Tag (300A,007B). Therefore, the format is the same as the one defined in DICOM (see details there). Number of digits per day are specified in FractionPatternDigitsPerDay. Repeat Fraction Cycle Length is only supported to be 1. | VDT_STRING64 Varchar(64) |

SecndryDiagnosis

This table is read-only.

The *SecndryDiagnosis* table stores information about the diagnosis of a secondary disease. A secondary diagnosis must be linked to a primary diagnosis. *DiagnosisSer* links the *SecndryDiagnosis* table to the *Diagnosis* table, and *PrimDiagSer* links the *SecndryDiagnosis* table to the corresponding *DiagnosisSer* in the *PrmryDiagnosis* table.

Table 45 SecndryDiagnosis

| Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| DiagnosisSer (FK) | System generated serial number for a diagnosis that links this record to the corresponding record in the <i>Diagnosis</i> table. | VDT_SERIALNUMBER Integer |
| MetastasisFlags | Indicates that a secondary tumor has metastasized (spread) from another disease site. Values are: <ul style="list-style-type: none">■ 0 – No metastasis■ 1 – Metastasis | VDT_FLAG_TRUE_DEFAULT Integer |

Session

The *Session* table stores information about a collection of treatment fields that will be treated during a given treatment appointment. A session is based on a course of treatment designed for a patient.

Table 46 Session

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| SessionSer | System generated serial number for a session. | VDT_SERIALNUMBER Integer |
| CourseSer (FK) (AK) | System generated serial number for a course. | VDT_SERIALNUMBER Integer |
| SessionNum (AK) | Serial number of a session. Used to numerically order sessions. | VDT_NUMBER Integer |
| Comment | General note about the session. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

SessionProcedurePart

The *SessionProcedurePart* table specifies the SequenceImage, which contains all images planned to be taken during a specific session when treating a specific field.

Table 47 SessionProcedurePart

| Column Name | Description | Datatype |
|------------------------------|---|-----------------------------|
| SessionProcedurePartSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| RadiationSer | The Radiation that this procedure is related to, if the procedure has a field scope. If both the RadiationSer and the RTPlanSer are NULL, the procedure has a session scope. This field value shall be NULL when the PlanSer is NOT NULL. | VDT_SERIALNUMBER Integer |
| ImageType | ImageType defines whether it is a <i>PortFilm</i> with conventional X-ray, <i>PortImage</i> from a PortalVisionImager, <i>PortDose</i> , or <i>KVImage</i> . | VDT_TYPE Varchar(32) |
| SequenceNumber | A sequencing number for the images that are to be taken during the treatment. This sequence is in line with the adjustment of the images. | VDT_NUMBER Integer |

Table 47 SessionProcedurePart

| Column Name | Description | Datatype |
|------------------|--|-----------------------------------|
| AcqAdjustment | <p>A number defining the adjustment of the acquisition (the point in time when the image is to be taken during the treatment time) on a normalized scale 0, ..., 1.</p> <p>The normalization is done along the number of MU (0: 0 MU, 1: Max planned MU). Seen including all images to be taken during a field, this defines the 'time scheme' of the image acquisition of a special field during a session.</p> <ul style="list-style-type: none"> ■ -1 defines the image is to be taken in the before phase. ■ 2 defines the image is to be taken in the after phase. <p>For PortFilm, only -1 and 2 are used.</p> | VDT_ACQADJUST Float |
| AutoSave | Indicates whether the image should be autosaved after acquisition. This is not used for PortFilm. | VDT_FLAG_FALSE_DEFAULT Integer |
| DoseAccumulation | Determines whether the dose is accumulated during the treatment. | VDT_FLAG_TRUE_DEFAULT Integer |
| Continuous | <p>Flag indicating whether this SequenceImage is continuously acquired until another setup is reached or the treatment is finished.</p> <ul style="list-style-type: none"> ■ TRUE = Continuous (as many as possible) ■ FALSE = Single | VDT_FLAG_FALSE_DEFAULT Integer |
| BeamOff | Decides whether the beam is switched off after acquisition (treatment with interrupt by VI). This is not used for PortFilm. | VDT_FLAG_FALSE_DEFAULT Integer |
| DeviationImage | Defines whether the image should be taken by using the following deviating field parameters (in the latter case images are taken during the ongoing treatment). | VDT_FLAG_FALSE_DEFAULT Integer |

Table 47 SessionProcedurePart

| Column Name | Description | Datatype |
|-------------|---|----------------------------|
| DevEnergy | Deviating Energy (this is the real energy, corresponding to the code from the SequenceTemplateImage). In case of electron beams, this energy is means, that the radiation type is X (because E does not make sense). The unit is measured in KeV. | VDT_ENERGY Integer |
| DevDoseRate | Deviating Dose Rate (this is the real dose rate, corresponding to the code from the SequenceTemplateImage). The dose rate relates to the Energy as defined in DevEnergy, if not NULL there. Otherwise, it relates to the field energy. | VDT_DOSERATE Integer |
| DevGeometry | DeviatingGeometry is used to differ between the Open and the Planned Field adjustment. The values are: <ul style="list-style-type: none"> ■ 0 = Planned Field: JawState and Collimators are not used in this case ■ 1 = Independant Collimators: DevCollX1 .. DevCollY2 are used ■ 2 = JawState: the JawState is used for positioning ■ 3 = Fully Open: all collimators go to the parking position PortFilm only uses 0 for Planned and 3 for Open. | VDT_DEVGEOMETRY Integer |
| JawState | Deviating jaw position from planned field to open field. Only positive values are allowed (+1, +2, +3, ...). | VDT_JAWSTATE Float |
| DevCollX1 | Deviating Collimator X1. | VDT_COLLPARAM Float |
| DevCollX2 | Deviating Collimator X2. | VDT_COLLPARAM Float |
| DevCollY1 | Deviating Collimator Y1. | VDT_COLLPARAM Float |

Table 47 SessionProcedurePart

| Column Name | Description | Datatype |
|-----------------|--|----------------------------------|
| DevCollY2 | Deviating Collimator Y2. | VDT_COLLPARAM Float |
| MUSubtraction | MUSubtraction defines whether some MUs have to be subtracted in the during phase to allow to take images in the after phase. The possible values are: <ul style="list-style-type: none">■ -1: Before Images■ 0: Don't subtract■ <MUvalue>: After Images, subtract the value MUSubtraction [MU] | VDT_MU Integer |
| AcquisitionMode | Type/quality used to acquire a portal image. This attribute is mapped to 'Image Device Specific Acquisition Parameters' of a verification image sequence in a DICOM RT Beam. The following values are defined: <ul style="list-style-type: none">■ PortImageHighQuality: Single port image optimized for image quality.■ PortImageLowDose: Single port image optimized for low dose.■ PortImageContinuous: Multiple port images acquired at highest possible rate. (Continuous must be set and AcqAdjustment must be 0.)■ PortImageIntegrated: Integrated port image with frames averaged during the entire beam on time. (AcqAdjustment must be 0.) If the customer has a dosimetry license, the required calibrations are applied and a portal dose is created.■ PortImage, CBCT | VDT_STRING64 Varchar(64) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 47 SessionProcedurePart

| Column Name | Description | Datatype |
|---------------------|--|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| SessionProcedureSer | Reference to the owning procedure. | VDT_SERIALNUMBER Integer |
| ImageModality | The image modality. The possible values are: <ul style="list-style-type: none">■ KV■ MV | VDT_STRING16 Varchar(16) |
| RTPlanSer | The plan, where this procedure is related to, if the procedure has a plan scope. If both the RadiationSer and the RTPlanSer are NULL, the procedure has a session scope. The value shall be NULL when the RadiationSer is NOT NULL. | VDT_SERIALNUMBER Integer |

Tolerance

The *Tolerance* table stores information about the tolerance tables available for use with machines attached to ARIA. The tolerance tables contain machine positions, and if the machine is within these tolerances, the field can be treated without the user issuing an override.

Before a treatment session begins, ARIA compares the settings in the treatment session planning record to the actual machine positions, and applies the tolerances. If a machine position falls outside the tolerance, ARIA does not allow treatment to begin until the plan settings are overridden or the machine position is adjusted.

Table 48 Tolerance

| Column Name | Description | Datatype |
|------------------|--|----------------------------------|
| ToleranceSer | System generated serial number for a tolerance for the specified machine. | VDT_SERIALNUMBER Integer |
| ToleranceId (AK) | Unique ID for this table. | VDT_ID Varchar(16) |
| ToleranceName | Non-unique name that gives a detailed description of the tolerance. | VDT_NAME Varchar(64) |
| CreationDate | Date/time the tolerance record was created. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Name of person who created the tolerance table. | VDT_USERNAME Varchar(32) |
| ObjectStatus | Indicates whether the tolerance table is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| Comment | General note about the tolerance settings. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |

Table 48 Tolerance(continued)

| Column Name | Description | Datatype |
|---------------|---|-----------------------------|
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ToleranceLimit

The *ToleranceLimit* table stores information about the acceptable tolerance for machine positions. If the machine is within these tolerances, the treatment field can be treated without the user issuing an override.

Before a treatment session begins, ARIA compares the settings in the treatment session planning record to the actual machine positions, and applies the tolerances. If a machine position falls outside the tolerance, ARIA does not allow treatment to begin until the plan settings are overridden or the machine position is adjusted.

Table 49 ToleranceLimit

| Column Name | Description | Datatype |
|---------------------------|---|----------------------------------|
| ToleranceLimitSer | System generated serial number for a tolerance limit. | VDT_SERIALNUMBER Integer |
| ToleranceSer (FK) (AK) | System generated serial number for a tolerance. | VDT_SERIALNUMBER Integer |
| ParameterType (AK) | Defines to which field parameter this value corresponds. | VDT_TYPE Varchar(32) |
| ToleranceValue | Value (plus or minus) of this tolerance parameter, in same units as used for parameter (cm, mm, deg). | VDT_FLOAT Float |
| AutoSetupLevel | Setup level of parameter within this particular tolerance table. Each parameter usually has a setup level defined by the machine definition, but in a tolerance table, this value may be restricted to a lower value. | VDT_STRING32 Varchar(32) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TreatmentRecord

The *TreatmentRecord* table represents the DICOM Treatment Record IOD. The full content of the record is stored as a DICOM Media file on the file system. A record in this table corresponds to exactly one Treatment Record IOD received (and exactly one DICOM Media File containing this record). One Treatment Record IOD may contain 1-n Radiations being treated: it is under provision of the delivery system how treatment record IOD are organized.

Table 50 TreatmentRecord

| Column Name | Description | Datatype |
|--------------------------------|---|-----------------------------|
| TreatmentRecordSer (FK) | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| PatientSer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_SERIALNUMBER Integer |
| SeriesSer | The Serialnumber of the Series to which this TreatmentRecord belongs. | VDT_SERIALNUMBER Integer |
| RTPlanSer | Reference to the Plan to which this Treatment Record refers. | VDT_SERIALNUMBER Integer |
| PlanSOPClassSer | Foreign key specifying the DICOM SOP Class UID of the plan, which has been treated. The same SOPClass that is allowed in Plan.PlanSOPClassSer may be referenced. | VDT_SERIALNUMBER Integer |
| TreatmentRecord SOPClassSer | Foreign key specifying the DICOM SOP Class UID of this treatment record. The following SOPClass records may be referenced: <ul style="list-style-type: none">■ 1.2.840.10008.5.1.4.1.1.481.4 RT Beams Treatment Record Storage■ 1.2.840.10008.5.1.4.1.1.481.6 RT Brachy Treatment Record Storage■ 1.2.840.10008.5.1.4.1.1.481.9 RT Ion Beams Treatment Record Storage | VDT_SERIALNUMBER Integer |

Table 50 TreatmentRecord

| Column Name | Description | Datatype |
|-----------------------------|--|----------------------------------|
| PlanUID | The Plan UID to which the treatment field history is referring. | VDT_UID Varchar(64) |
| TreatmentRecord UID | The DICOM SOP Instance UID of the treatment record IOD. | VDT_UID Varchar(64) |
| FileName | The filename of the DICOM file where the original DICOM IOD is stored. | VDT_FILENAME Varchar(254) |
| ActualMachineSer | Reference (ResourceSer) to the Machine that was actually used for the treatment. This normally is the same as ResourceSer, but can differ if another machine was used. | VDT_SERIALNUMBER Integer |
| ActualMachine Authorization | If the PhysMachSer is different from ResourceSer, then someone has to authorize this machine change. | VDT_NAME Varchar(64) |
| MachOverrideFlag | The OverrideFlag determines which treatments had an override. <ul style="list-style-type: none">■ TRUE = Override done■ FALSE = No Override | VDT_OVERRIDEFLAG Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| StructureSetUID | The UID of Structure Set to which the Plan is referencing. This is especially important to retrieve the associated bolus. | VDT_UID Varchar(64) |
| TreatmentRecord DateTime | The datetime when the current fraction was delivered (as provided by the treatment machine in the DICOM treatment record). | VDT_DATETIMESTAMP Datetime |

Table 50 TreatmentRecord

| Column Name | Description | Datatype |
|---------------|------------------------------------|----------------------|
| NoOfFractions | Indicates the number of Fractions. | VDT_COUNT Integer |

Chapter 6 Resource Zone Tables

The **Resource** zone identifies the tables found in the light orange colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

Auxiliary

The *Auxiliary* table stores information about all equipment classified as resources other than accelerators and simulators, such as High Dose Rate After-Loader and Superficial Treatment Unit. Auxiliaries are defined in *Data Administration* in the Auxiliary Profiles dialog box.

Table 54 Auxiliary

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| ResourceSer (FK) | Serial number for auxiliary equipment. | VDT_SERIALNUMBER Integer |
| AuxiliaryId (AK1) | Display name for the auxiliary as assigned in <i>Data Administration</i> . | VDT_ID Varchar(16) |
| AuxiliaryName | Description for the auxiliary as defined in <i>Data Administration</i> . | VDT_NAME Varchar(64) |
| AuxiliaryCode | Type of auxiliary resource. Values include: <ul style="list-style-type: none">■ Imaging■ Treatment | VDT_STRING64 Varchar(64) |

Department

The *Department* table stores information about a department within the hospital or medical facility that provides services for the treatment of cancer.

Table 55 Department

| Column Name | Description | Datatype |
|---------------------------|---|----------------------------------|
| DepartmentSer | System generated serial number for a department. | VDT_SERIALNUMBER Integer |
| HospitalSer (FK) (AK1) | System generated serial number for a hospital in which this department is located. | VDT_SERIALNUMBER Integer |
| DepartmentId (AK1) | User-defined ID for the department. | VDT_ID Varchar(16) |
| DepartmentName | Name of the department. | VDT_NAME Varchar(64) |
| ObjectStatus | Indicates whether the department is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| Comment | Notes about the department. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Doctor

The *Doctor* table stores information about a physician who is associated with a hospital or medical facility and who provides services related to the treatment of cancer. The physician's name and specialty are stored in this table, while the physician's addresses and phone numbers are stored in the *ResourceAddress* table. Oncologists, referring physicians, primary care physicians, and other physicians are stored in the *Doctor* table. The record is for an oncologist when the *OncologistFlag* is set to one.

Use ResourceSer to link the *Doctor* table to the *ResourceAddress* table, and use AddressSer to link the *ResourceAddress* table to the *Address* table in order to retrieve all the personal information associated with a physician.

PatientDoctor is the correlation table that connects patients with their oncologists. Link the *Patient* table to PatientDoctor using PatientSer, then link PatientDoctor to Doctor using ResourceSer and set the *OncologistFlag* to 1 to determine the patients assigned to each oncologist and the oncologists assigned to each patient. Oncologists can be assigned to patients in *Patient Manager*, *Time Planner*, and *Activity Capture*.

Primary care and other physicians assigned to the patient in the Evaluation and Management area of *Patient Manager* are found by using the OtherPhysician correlation table.

Table 56 Doctor

| Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| ResourceSer (FK) | System generated serial number for a physician. | VDT_SERIALNUMBER Integer |
| DoctorId (AK1) | Unique doctor ID that identifies a row in the table. The user assigns this ID when the doctor information is entered. | VDT_ID Varchar(16) |
| Honorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ <i>Dr</i>■ <i>Mr</i>■ <i>Mrs</i>■ <i>Ms</i> | VDT_STRING16 Varchar(16) |

Table 56 Doctor(continued)

| Column Name | Description | Datatype |
|-------------------------------|--|-----------------------------------|
| FirstName (IE2) (IE1) | Doctor's first name. | VDT_NAME Varchar(64) |
| MiddleName (IE2) (IE1) | Doctor's middle name. | VDT_NAME Varchar(64) |
| LastName (IE2) (IE1) | Doctor's last name (surname or family name). | VDT_NAME Varchar(64) |
| NameSuffix | Suffix after the doctor's name. For example, Jr., Sr., Ph.D., MD. | VDT_NAMESUFFIX Varchar(16) |
| AliasName (AK2) | The physician's name that appears on the screen instead of the combination of Honorific, FirstName, MiddleName, LastName, and NameSuffix. The DisplayName field is set in <i>Data Administration</i> (see Physician Profile under Resource). | VDT_NAME Varchar(64) |
| Specialty | Indicates the physician's medical specialty or position. Typical values might be Immunology, General Practitioner, Medical Oncologist, Radiation Oncologist, and Chief of Oncology. | VDT_NAME Varchar(64) |
| Institution | The medical institution, hospital, clinic or HMO with which the doctor is associated. | VDT_NAME Varchar(64) |
| OncologistFlag (IE2) (IE1) | Indicates if the physician is an oncologist. Values are: <ul style="list-style-type: none">■ 0 – No■ 1 – Yes | VDT_FLAG_FALSE_DEFAULT Integer |
| Comment | General note about the physician. | VDT_COMMENT Varchar(254) |

Hospital

The *Hospital* table stores the name and location of a hospital or other medical facility where treatment activities take place.

Table 57 Hospital

| Column Name | Description | Datatype |
|--------------------|---|----------------------------------|
| HospitalSer | System generated serial number for a hospital. | VDT_SERIALNUMBER Integer |
| HospitalName (AK1) | Name of a hospital. | VDT_NAME Varchar(64) |
| AddressSer (FK) | Serial number that acts as the primary key in the <i>Address</i> table. | VDT_SERIALNUMBER Integer |
| HospitalLocation | Location of a hospital. | VDT_STRING64 Varchar(64) |
| ObjectStatus | Indicates whether the hospital is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| Organization | The name of the organization of this hospital. | VDT_STRING64 Varchar(64) |
| WebAddress | Hospital internet address. | VDT_STRING64 Varchar(64) |
| Logo | Logo of the hospital. | VDT_PICTURE Image |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| MailServerAddress | The URL of the hospital's mail server (e.g. 'mail.varian.com'). | VDT_STRING64 Varchar(64) |

PatientDoctor

The *PatientDoctor* tables correlates patients and their doctors.

Table 58 PatientDoctor

| Column Name | Description | Datatype |
|---------------------------|---|-----------------------------------|
| ResourceSer (FK) | System generated serial number for a physician. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) | System generated serial number for a patient. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| OncologistFlag | Indicates if the physician is an oncologist. Values are: <ul style="list-style-type: none">■ 0 – No■ 1 – Yes | VDT_FLAG_TRUE_DEFAULT Integer |
| PrimaryFlag | Indicates if this is the patient's primary care physician. Values are: <ul style="list-style-type: none">■ 0 – Not primary care physician■ 1 – Primary care physician | VDT_FLAG_FALSE_DEFAULT Integer |
| Comment | General note about the patient's primary oncologist. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PrimaryCarePhysician Flag | Indicates whether this is the patient's primary care physician. <ul style="list-style-type: none">■ 1 - true■ 0 - false | VDT_FLAG_FALSE_DEFAULT Integer |

PatientHospital

The *PatientHospital* table correlates patients and their hospitals.

Table 59 PatientHospital

| Column Name | Description | Datatype |
|-------------------------|--|----------------------------------|
| HospitalSer (FK) | System generated serial number for a hospital. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) | System generated serial number for patient. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| PatientHospitalRevCount | Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 0 – OutPatient■ 1 – InPatient | VDT_FLAG_TRUE_DEFAULT Integer |
| PatientLocation | Location of the patient within a hospital. It is normally the ID of a venue. | VDT_ID Varchar(16) |
| PatientStatus | Indicates status of patient. Values are configured in <i>Data Administration</i> . Example values are: <ul style="list-style-type: none">■ New Patient (NP)■ Previous Patient (NOP) | VDT_STATUS32 Varchar(32) |
| StartTime | Date of patient admission to hospital. | VDT_DATETIME Datetime |
| ProjectedEndDate | Date of anticipated departure of patient from hospital. | VDT_DATETIME Datetime |
| EndDateTime | Actual departure date of patient from hospital. | VDT_DATETIME Datetime |

Table 59 PatientHospital(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientHospitalMH

The *PatientHospitalMH* table stores a complete modification history of information in the *PatientHospital* table.

Table 6o PatientHospitalMH

| Column Name | Description | Datatype |
|-------------------------------|--|----------------------------------|
| HospitalSer (FK) (AK1) | System generated serial number for a hospital. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (AK1) | System generated serial number for patient. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| PatientHospitalRevCount (AK1) | Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 0 – OutPatient■ 1 – InPatient | VDT_FLAG_TRUE_DEFAULT Integer |
| PatientLocation | Location of the patient within a hospital. It is normally the ID of a venue. | VDT_ID Varchar(16) |
| PatientStatus | Indicates status of patient. Values are configured in Data Administration. Example values are: <ul style="list-style-type: none">■ New Patient (NP)■ Previous Patient (NOP) | VDT_STATUS32 Varchar(32) |
| StartTime | Date of patient admission to hospital. | VDT_DATETIME Datetime |
| ProjectedEndDate | Date of anticipated departure of patient from hospital. | VDT_DATETIME Datetime |
| EndTime | Actual departure date of patient from hospital. | VDT_DATETIME Datetime |

Table 6o PatientHospitalMH(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Resource

The *Resource* table stores information about a hospital resource that can be scheduled. Resources include physicians and staff members, machines and auxiliary equipment, and venues. Machines include accelerators and simulators, whereas auxiliary equipment includes any equipment other than accelerators and simulators.

Table 61 Resource

| Column Name | Description | Datatype |
|----------------------|--|---------------------------------|
| ResourceSer | System generated serial number for a schedulable resource. | VDT_SERIALNUMBER Integer |
| ResourceTypeNum (FK) | Number of the resource type. Values are: <ul style="list-style-type: none">■ 0 – All resources■ 1 – Doctor■ 2 – Staff■ 3 – Machine (Simulator)■ 4 – Machine (External Beam)■ 5 – Venue■ 6 – Auxiliary■ 7 – Machine (Port Imager)■ 8 – Localization Jig■ 9 – BrachyUnit■ 10 – CTScanner■ 11 – CTSimulator■ 12 – SimulationImager | VDT_NUMBER Integer |
| ObjectStatus | Indicates whether the resource is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| ResourceType | Type of resource. The value of <i>ResourceType</i> is the name of the table that is associated with this resource row. Typical values are: <ul style="list-style-type: none">■ <i>Auxiliary</i>■ <i>Doctor</i>■ <i>Machine</i>■ <i>Staff</i>■ <i>Venue</i> | VDT_TABLENAME Varchar(30) |

Table 61 Resource(continued)

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| SchedulableFlag | Indicates whether the resource is schedulable. Values are: <ul style="list-style-type: none">■ 0 – Non-schedulable■ 1 – Schedulable | VDT_FLAG_TRUE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| WorklistType | Type of worklist that this Resource understands. Possible values are: <ul style="list-style-type: none">■ <i>ModalityWorklist</i>■ <i>UnifiedWorklist</i> | VDT_STRING64 Varchar(64) |
| AETitle | AE Title of the Machine or Application. | VDT_STRING16 Varchar(16) |
| MultiProtocolFlag | This flag defines whether the machine or application supports more than one protocol code per Scheduled Procedure Step. This is only relevant for <i>ModalityWorklist</i> . | VDT_FLAG_TRUE_DEFAULT Integer |
| DICOMCodeValueSer (FK) | Internal identification number. | VDT_SERIALNUMBER Integer |

ResourceAddress

The *ResourceAddress* table stores information about the physical address of the resource.

Table 62 ResourceAddress

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| AddressSer (FK) | System generated serial number for a resource address. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (IE1) | Serial number for a resource that is associated with this address. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| POCName | Name of the point-of-contact at this address. | VDT_STRING254 Varchar(254) |
| PrimaryFlag | Indicates the primary address for a particular type of address. Only one address of a particular type can be primary for a given resource. Values are: <ul style="list-style-type: none">■ 0 – Not primary address■ 1 – Primary address | VDT_FLAG Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Date |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ResourceGroup

The *ResourceGroup* table stores information about group of resources and their types, and their association to a department.

Table 63 ResourceGroup

| Column Name | Description | Datatype |
|-----------------------------|---|-----------------------------------|
| ResourceGroupSer | Internal Identification (Serial Number which is the Primary Key to the Table). The <i>vp_syGetNextKey</i> procedure retrieves the key from the <i>NextKey</i> Table. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) (AK1) | Internal Identification (Serial Number which is the Primary Key to the <i>Department</i> table). | VDT_SERIALNUMBER Integer |
| ResourceGroupCode (AK1) | Name of resource group. Static data defines following groups: <ul style="list-style-type: none">■ Clerical (Administration)■ Dosimetry■ Laboratory Services■ Nursing■ Physics■ Radiation Therapists■ Residents■ Transportation■ Treatment Device Fabrication) | VDT_STRING64 Varchar(64) |
| GroupType | The GroupType indicates whether GroupType is <i>Resource</i> or <i>Provider</i> | VDT_TYPE Varchar(32) |
| DerivedFromResourceGroupSer | This is a Serial Number of the <i>ResourceGroup</i> record from where current record is derived. | VDT_SERIALNUMBER Integer |
| NoEditFlag | Flag indicates the user cannot edit this resource group record: <ul style="list-style-type: none">■ 1 - user cannot edit resource group record■ 0 - user can edit resource group record | VDT_FLAG_FALSE_DEFAULT Integer |

Table 63 ResourceGroup (continued)

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| ObjectStatus | The ObjectStatus indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | The user who updated the row of record in the database | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The unique TimeStamp generated by Microsoft SQL during insert or update. | timestamp |
| HstryDateTime | The date and time when the record is inserted or updated. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The activity that inserts or updates the row of record in the database. | VDT_TASKNAME Varchar(32) |
| WorklistType | Type of worklist that this Resource understands. Possible values are: <ul style="list-style-type: none">■ <i>ModalityWorklist</i>■ <i>UnifiedWorklist</i> | VDT_STRING64 Varchar(64) |
| DICOMCodeValueSer (FK) | Internal identification number. | VDT_SERIALNUMBER Integer |

ResourceType

The *ResourceType* table stores information about the type of resource that can be scheduled. Resource types include *Doctor* , *Staff* , *Simulator* , *Accelerator* , *Venue* , and *Auxiliary* . The *ExclusiveFlag* , when set to 1, indicates that this resource type cannot be double-booked.

Table 64 ResourceType

| Column Name | Description | Datatype |
|---------------------------|--|-----------------------------|
| ResourceTypeNum | Generated number for the resource type. <i> ResourceTypeNum </i> is the primary key for this table. <ul style="list-style-type: none">■ 0 – All resources■ 1 – Doctor■ 2 – Staff■ 3 – Simulator■ 4 – External Beam■ 5 – Venue■ 6 – Auxiliary■ 7 – PortImager■ 8 – LocalizationJig■ 9 – BrachyUnit■ 10 – CTScanner■ 11 – CTSimulator■ 12 – SimulationImager | VDT_NUMBER Integer |
| ResourceTypeCode (AK1) | Type of resource. Values are: <ul style="list-style-type: none">■ <i>Auxiliary</i>■ <i>BrachyUnit</i>■ <i>CTScanner</i>■ <i>CTSimulator</i>■ <i>Doctor</i>■ <i>External Beam</i>■ <i>LocalizationJig</i>■ <i>PortImager</i>■ <i>Staff</i>■ <i>SimulationImager</i>■ <i>Simulator</i>■ <i>Venue</i> | VDT_STRING64 Varchar(64) |

Table 64 ResourceType(continued)

| Column Name | Description | Datatype |
|----------------|---|-----------------------------------|
| ExclusiveFlag | Flag that indicates if the resource type is exclusive (meaning it cannot be double-booked). Values are: <ul style="list-style-type: none">■ 0 – Not exclusive■ 1 – Exclusive | VDT_FLAG_FALSE_DEFAULT Integer |
| NoEditFlag | Flag that indicates if a user is allowed to edit the record. Values are: <ul style="list-style-type: none">■ 0 – Edit allowed■ 1 – Edit not allowed | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Staff

The *Staff* table stores information about a staff member who is associated with a hospital or medical facility and who provides services related to the treatment of cancer. The staff member's name and profession are stored in this table, while their addresses and phone numbers are stored in the *Address* table. Use the *ResourceAddress* correlation table to retrieve address data.

Table 65 Staff

| Column Name | Description | Datatype |
|------------------|--|-------------------------------|
| ResourceSer (FK) | System generated serial number for a staff member. | VDT_SERIALNUMBER Integer |
| StaffId (AK1) | Unique ID for a staff member. | VDT_ID Varchar(16) |
| Honorific | Staff member's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms | VDT_STRING16 Varchar(16) |
| FirstName (IE1) | Staff member's first name. | VDT_NAME Varchar(64) |
| MiddleName (IE1) | Staff person's middle name. | VDT_NAME Varchar(64) |
| LastName (IE1) | Staff person's last name (surname or family name). | VDT_NAME Varchar(64) |
| NameSuffix | Staff member's personal or professional standing, such as <i>Jr.</i> , <i>Sr.</i> , <i>Ph.D.</i> , or <i>MD</i> . | VDT_NAMESUFFIX Varchar(16) |
| AliasName (AK2) | Display name as it will appear for the user. This is the staff member's name that appears on the screen instead of the combination of <i>Honorific</i> , <i>FirstName</i> , <i>MiddleName</i> , <i>LastName</i> , and <i>NameSuffix</i> . The display name must be unique to this table. | VDT_NAME Varchar(64) |
| Profession | Staff member's medical specialty or title, such as dosimetry, dosimetrist or administrator. | VDT_NAME Varchar(64) |

Table 65 Staff(continued)

| Column Name | Description | Datatype |
|---------------------------|---|---------------------------------------|
| Comment | General note about this staff member. | VDT_COMMENT Varchar(254) |
| Advanced PractitionerFlag | Indicates whether or not the Staff is an advanced practitioner: <ul style="list-style-type: none">■ 1 = Advanced practitioner■ 0 = Practitioner | VDT_FLAG_FALSE_DE FAULT Integer |

Venue

The *Venue* table stores information about a location that provides resources related to the treatment of cancer. A venue can be an examination room, simulation room, or conference room – any location where a patient, physician or machine might be located at any given time.

VenueType is configured in the Lists dialog box. See the ARIA online help system (the *Data Administration* section describing *Venues*) for more information.

Table 66 Venue

| Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| ResourceSer (FK) | Resource serial number for a venue. | VDT_SERIALNUMBER Integer |
| VenueId (AK1) | Unique ID for the venue. | VDT_ID Varchar(16) |
| VenueType | Specific type of location at which an activity takes place, such as Exam Room or Conference Room. | VDT_STRING64 Varchar(64) |
| VenueName | Description of the venue, such as <i>Exam Rm 1, Sim Rm, or Conf Rm 3.</i> | VDT_NAME Varchar(64) |
| VenueDirections | Directions to a venue's location. | VDT_TEXT Text |
| RoomNumber | Venue room number, if applicable. | VDT_STRING16 Varchar(16) |
| ScheduleFlag | Flag indicating the availability of this venue to be scheduled. Values are: <ul style="list-style-type: none">■ 0 – venue can be scheduled■ 1 – venue cannot be scheduled■ 2 – venue is specifically a machine venue | VDT_INT Integer |
| EquipmentList | List of equipment that is located at a venue. | VDT_TEXT Text |
| Comment | Comment about a venue. | VDT_COMMENT Varchar(254) |

Chapter 7 Activity and Billing Zone Tables

The **Activity / Billing** zone identifies the tables found in the yellow colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

AccountBillingCode

The *AccountBillingCode* table stores the current account billing code information for a patient.

Table 67 AccountBillingCode

| Column Name | Description | Datatype |
|----------------------------|---|-------------------------------|
| AccountBillingCodeSer) | This is the generated primary key for the table. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) | The patient's serial number. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | Identifies each version of <i>AccountBillingCode</i> . Each revision count is assigned to a different billing code and patient. | VDT_REVISIONCOUNT Integer |
| AccountBillingCodeId | The identification code for the account billing code. | VDT_STRING20 Varchar(20) |
| HospitalSer (FK) | A system-generated serial number that identifies a hospital. It is the primary key for the <i>Hospital</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) | A system-generated serial number that is the primary key for the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| BillAccountName | The label associated with a billing account code. It is used for display purposes. | VDT_STRING254 Varchar(254) |
| EffDate | The date when the billing account code became effective. | VDT_DATETIMESTAMP Datetime |
| ExpiryDate | The date when a billing account code expired. | VDT_DATETIMESTAMP Datetime |
| ObjectStatus | Indicates whether a billing account code is currently active. Values are <i>Active</i> and <i>Inactive</i> . | VDT_STRING16 Varchar(16) |
| ValidEntryInd | Indicates whether the billing account code has been voided (marked in error). Values: <ul style="list-style-type: none">■ Y = <i>Valid</i>■ N = <i>Voided</i> | VDT_STRING1 Varchar(1) |

Table 67 AccountBillingCode(continued)

| Column Name | Description | Datatype |
|--|--|-----------------------------------|
| AttendingOncologistSer (FK) | The serial number of the attending oncologist associated with the billing code record identified by <i>AccountBillingCodeSer</i> . | VDT_SERIALNUMBER Integer |
| ReferringDoctorSer (FK) | The serial number of the referring doctor associated with the billing account code record identified by <i>AccountBillingCodeSer</i> . | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether a patient is an outpatient or inpatient. Values are: 0 = <i>OutPatient</i> , 1 = <i>InPatient</i> . | VDT_FLAG_FALSE_DEFAULT Integer |
| IntfExternalField1 to IntfExternalField5 | Fields 1 through 5 reserved for future use by Information Exchange Manager for transferring billing information. | VDT_STRING64 Varchar(64) |
| HstryUserName | The user name of the individual logged into the workstation where row data was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The system time when row data was modified. | timestamp |
| HstryDateTime | The date when the row data was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The name of the activity when row data was modified. | VDT_TASKNAME Varchar(32) |

AccountBillingCodeMH

The *AccountBillingCodeMH* table stores the history of account billing code information for a patient.

Table 68 AccountBillingCodeMH

| Column Name | Description | Datatype |
|----------------------------|--|-------------------------------|
| AccountBillingCodeSer (FK) | This is the generated primary key for the table. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | Identifies each version of <i>AccountBillingCode</i> . Each revision count is assigned to a different billing code and patient. | VDT_REVISIONCOUNT Integer |
| PatientSer | Patient's serial number | VDT_SERIALNUMBER Integer |
| AccountBillingCodeId | The identification code for the account billing code. | VDT_STRING20 Varchar(20) |
| HospitalSer | A system-generated serial number that identifies a hospital. It is the primary key for the <i>Hospital</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer | A system-generated serial number that is the primary key for the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| BillAccountName | The label associated with a billing account code. It is used for display purposes. | VDT_STRING254 Varchar(254) |
| EffDate | The date when the billing account code became effective. | VDT_DATETIMESTAMP Datetime |
| ExpiryDate | The date when a billing account code expired. | VDT_DATETIMESTAMP Datetime |
| ObjectStatus | Indicates whether a billing account code is currently active. Values are <ul style="list-style-type: none">■ Active■ Inactive | VDT_STRING16 Varchar(16) |

Table 68 AccountBillingCodeMH(continued)

| Column Name | Description | Datatype |
|--|---|-----------------------------------|
| ValidEntryInd | Indicates whether the billing account code has been voided (marked in error). Values: <ul style="list-style-type: none">■ Y = <i>Valid</i>■ N = <i>Voided</i> | VDT_STRING1 Varchar(1) |
| AttendingOncologistSer | The serial number of the attending oncologist associated with the billing code record identified by <i>AccountBillingCodeSer</i> . | VDT_SERIALNUMBER Integer |
| ReferringDoctorSer | The serial number of the referring doctor associated with the billing account code record identified by <i>AccountBillingCodeSer</i> . | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether a patient is an outpatient or inpatient. Values are <ul style="list-style-type: none">■ 0 = <i>OutPatient</i>■ 1 = <i>InPatient</i>. | VDT_FLAG_FALSE_DEFAULT Integer |
| IntfExternalField1 to IntfExternalField5 | Fields 1 through 5 reserved for future use by Information Exchange Manager for transferring billing information. | VDT_STRING64 Varchar(64) |
| HstryUserName | The user name of the individual logged into the workstation where row data was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | The system time when row data was modified. | timestamp |
| HstryDateTime | The date when the row data was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | The name of the activity when row data was modified. | VDT_TASKNAME Varchar(32) |

ActCaptDiagnosis

The *ActCaptDiagnosis* table stores information about the diagnosis associated with *ActivityCaptures*.

Table 69 ActCaptDiagnosis

| Column Name | Description | Datatype |
|-------------------------------|---|--|
| ActCaptDiagnosisSer | Serial number that acts as the primary key to this table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActCaptDiagnosisRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer (FK) (IE1) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| DiagnosisSer (FK) | Serial number that acts as the primary key in the <i>Diagnosis</i> table. | VDT_SERIALNUMBER Integer |
| LastKnownDiagnosisId | Diagnosis Id at the point of capture. | VDT_ID Varchar(16) |
| LastKnownDiagnosisTableName | Diagnosis table name at the point of capture. | VDT_DIAGNOSISTABLE_NAME Varchar(64) |
| LastKnownDiagnosisCode | Diagnosis code at the point of capture. | VDT_DIAGNOSISCODE Varchar(16) |
| ObjectStatus | Indicates whether the activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 69 ActCaptDiagnosis(continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ActCaptDiagnosisMH

The *ActCaptDiagnosisMH* table stores information about the diagnosis associated with *Activity Captures*.

Table 70 ActCaptDiagnosisMH

| Column Name | Description | Datatype |
|-----------------------------|--|--|
| ActCaptDiagnosisSer (FK) | Serial number that acts as the primary key in the <i>ActCaptDiagnosis</i> table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ActCaptDiagnosisRevCount | Revision count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer (IE1) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| DiagnosisSer | Serial number that acts as the primary key in the <i>Diagnosis</i> table. | VDT_SERIALNUMBER Integer |
| LastKnownDiagnosisId | Diagnosis Id at the point of capture. | VDT_ID Varchar(16) |
| LastKnownDiagnosisTableName | Diagnosis table name at the point of capture. | VDT_DIAGNOSISTABLE_NAME Varchar(64) |
| LastKnownDiagnosisCode | Diagnosis code at the point of capture. | VDT_DIAGNOSISCODE Varchar(16) |
| ObjectStatus | Indicates whether the activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 70 ActCaptDiagnosisMH(continued)

| Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActInstProcCode

The *ActInstProcCode* table stores information concerning group insurance.

Table 71 ActInstProcCode

| Column Name | Description | Datatype |
|--------------------------------|---|------------------------------|
| ActInstProcCodeSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (FK) (IE2) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityInstance</i> table. | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer (FK) (IE3) | Serial number that acts as the primary key in the <i>ProcedureCode</i> table. | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | Revision count. Incremented each time this row is modified in the <i>ProcedureCode</i> table. | VDT_REVISIONCOUNT Integer |
| AccountBillingCodeSer (FK) | System-generated serial number that is the primary key for the <i>AccountBillingCode</i> table. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | Number of revisions made to the record identified by AccountBillingCodeSer in the <i>AccountBillingCode</i> table. | VDT_REVISIONCOUNT Integer |
| ModifierSer (FK) | Serial number that acts as the primary key in the <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |

Table 71 ActInstProcCode(continued)

| Column Name | Description | Datatype |
|-------------------------|--|---------------------------------|
| ActivityCodeMdRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCodeMd</i> table. | VDT_REVISIONCOUNT Integer |
| Modifier | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier2Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd2RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier2 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier3Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd3RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier3 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier4Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd4RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier4 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier5Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd5RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier5 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |

Table 71 ActInstProcCode(continued)

| Column Name | Description | Datatype |
|--------------------------|--|---------------------------------|
| Modifier6Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd6RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier6 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier7Ser (FK) | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd7RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier7 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| ObjectStatus | ObjectStatus indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| ChargeWaivedBy | Username of the person who waived the charges. | VDT_USERNAME Varchar(32) |
| FromDateOfService | Date and time of service when the activity was begun. | VDT_DATETIME Datetime |
| ToDateOfService | Date and time of service when the activity ended. | VDT_DATETIME Datetime |
| CompletedBy | Name of the person that completed an activity. | VDT_USERNAME Varchar(32) |
| CompletedDateTime (IE4) | Date and time activity was completed. | VDT_DATETIME Datetime |
| MrkdCmpltdBy | Name of the person who marked the activity completed. | VDT_USERNAME Varchar(32) |
| MrkdCmpltdDateTime (IE5) | Date and time activity was marked completed. | VDT_DATETIME Datetime |
| ReviewedBy | Username of the person who reviewed the activity capture. | VDT_USERNAME Varchar(32) |

Table 71 ActInstProcCode(continued)

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| ExportedBy | Username of the person who exported the charges. | VDT_USERNAME Varchar(32) |
| ExportedDateTime (IE1) | Date and time the charges were exported. | VDT_DATETIME Datetime |
| ReviewResetBy | Review reset by username. | VDT_USERNAME Varchar(32) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| DepartmentSer (FK) | Department to charge this procedure. It may be a different department than the parent Activity Instance. | VDT_SERIALNUMBER Integer |
| WeeklyChrgFlag | Flags whether or not this activity instance procedure code has been included in a Weekly Charge activity (that is, led to the automatic creation of a Weekly Charge). <ul style="list-style-type: none"> ■ If the value of this column is 1, then it has led to a Weekly Charge. ■ Otherwise, it has not been included in a Weekly Charge. | VDT_FLAG Integer |
| Comment | A column to store a note for each procedure code in addition to the overall note that can be entered in ActivityCapture.Comment | VDT_COMMENT Varchar(254) |

ActInstProcCodeMH

The *ActInstProcCodeMH* table stores complete modification history of procedure codes assigned to *ActivityInstance* occurrences.

Table 72 ActInstProcCodeMH

| Column Name | Description | Datatype |
|----------------------------|---|------------------------------|
| ActInstProcCodeSer (FK) | Serial number that acts as the primary key in the <i>ActInstProcCode</i> table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRevCount | Revision count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityInstance</i> table. | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Serial number that acts as the primary key in <i>ProcedureCode</i> table. | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | Revision count. Incremented each time this row is modified in the <i>ProcedureCode</i> table | VDT_REVISIONCOUNT Integer |
| AccountBillingCodeSer | System-generated serial number that is the primary key for the <i>AccountBillingCode</i> table. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | Number of revisions made to the record identified by <i>AccountBillingCodeSer</i> in the <i>AccountBillingCode</i> table. | VDT_REVISIONCOUNT Integer |
| ModifierSer | Serial number that acts as the primary key in the <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |

Table 72 ActInstProcCodeMH(continued)

| Column Name | Description | Datatype |
|-------------------------|--|---------------------------------|
| ActivityCodeMdRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCodeMd</i> table. | VDT_REVISIONCOUNT Integer |
| Modifier | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier2Ser | This is a SerialNumber that acts as the PrimaryKey in the <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd2RevCount | RevisionCount | VDT_REVISIONCOUNT Integer |
| Modifier2 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier3Ser | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd3RevCount | RevisionCount. | VDT_REVISIONCOUNT Integer |
| Modifier3 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier4Ser | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd4RevCount | RevisionCount | VDT_REVISIONCOUNT Integer |
| Modifier4 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier5Ser | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd5RevCount | RevisionCount | VDT_REVISIONCOUNT Integer |
| Modifier5 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |

Table 72 ActInstProcCodeMH(continued)

| Column Name | Description | Datatype |
|-------------------------|---|---------------------------------|
| Modifier6Ser | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd6RevCount | RevisionCount | VDT_REVISIONCOUNT Integer |
| Modifier6 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| Modifier7Ser | This is a SerialNumber that acts as the PrimaryKey in <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMd7RevCount | RevisionCount | VDT_REVISIONCOUNT Integer |
| Modifier7 | Modifier code | VDT_ACTIVITYCODE Varchar(64) |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| ChargeWaivedBy | Username of the person who waived the charges. | VDT_USERNAME Varchar(32) |
| FromDateOfService | Date and time of service when the activity was begun. | VDT_DATETIME Datetime |
| ToDateOfService | Date and time of service when the activity ended. | VDT_DATETIME Datetime |
| CompletedBy | Name of the person that completed an activity. | VDT_USERNAME Varchar(32) |
| CompletedDateTime | Date and time activity was completed. | VDT_DATETIME Datetime |
| MrkdCmpltdBy | Name of the person who marked the activity completed. | VDT_USERNAME Varchar(32) |
| MrkdCmpltdDateTime | Date and time activity was marked completed. | VDT_DATETIME Datetime |
| ReviewedBy | Username of the person who reviewed the activity capture. | VDT_USERNAME Varchar(32) |

Table 72 ActInstProcCodeMH(continued)

| Column Name | Description | Datatype |
|------------------|---|----------------------------------|
| ExportedBy | Username of the person who exported the charges. | VDT_USERNAME Varchar(32) |
| ExportedDateTime | Date and time the charges were exported. | VDT_DATETIME Varchar(32) |
| ReviewResetBy | Review reset by this username. | VDT_USERNAME Varchar(32) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| DepartmentSer | Department to charge this procedure. It may be a different department than the parent Activity Instance. | VDT_SERIALNUMBER Integer |
| WeeklyChrgFlag | Flags whether or not this activity instance procedure code has been included in a Weekly Charge activity (that is, led to the automatic creation of a Weekly Charge). <ul style="list-style-type: none">■ If the value of this column is 1, then it has led to a Weekly Charge.■ Otherwise, it has not been included in a Weekly Charge. | VDT_FLAG Integer |
| Comment | A column to store a note for each procedure code. | VDT_COMMENT Varchar(254) |

Activity

The *Activity* table stores the textual representation for the activity in the selected language during ARIA installation. Use one of the views, *vv_Activity* or *vv_ActivityLng*, to retrieve the textual representation of the activity name in another language.

Table 73 Activity

| Column Name | Description | Datatype |
|-------------------------------|--|-----------------------------------|
| ActivitySer | System generated serial number for this activity. | VDT_SERIALNUMBER Integer |
| ActivityRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityCategorySer (FK, IE1) | System generated serial number for this activity category. | VDT_SERIALNUMBER Integer |
| ActivityCode | Name of the activity in the selected language during ARIA installation. | VDT_STRING Varchar(64) |
| ActivityType | Name of the table that stores information on this type of activity. | VDT_TYPE Varchar(32) |
| DerivedFromActivitySer | This is a Serial Number of the Activity record from where current record is derived. | VDT_SERIALNUMBER Integer |
| NoEditFlag | Indicates the user cannot edit this activity. Values are: <ul style="list-style-type: none">■ 0 – User can edit activity.■ 1 – User cannot edit activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |
| ResourceGroupSer (FK) | Serial number that acts as the primary key in the <i>ResourceGroup</i> table. | VDT_SERIALNUMBER Integer |
| DefaultDuration | Estimated time in minutes required to complete this activity. | VDT_TIMESLOT Integer |

Table 73 Activity(continued)

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------------|
| ExclusiveFlag | An integer to indicate whether the resource attached cannot be shared with another activity. Values are: <ul style="list-style-type: none">■ 0 – sharable■ 1 – exclusive | VDT_FLAG_FALSE_DEFAULT Integer |
| NotificationPriorTime | Number of minutes within which to complete non-schedulable activity (NULL for schedulable activity) | VDT_TIMESLOT Integer |
| AssignableFlag | The flag to indicate whether the non-schedulable activity can be assigned. Values are: <ul style="list-style-type: none">■ non-NULL – cannot be assigned■ NULL – schedulable activity | VDT_FLAG_TRUE_DEFAULT Integer |
| Description | Description of the activity. | VDT_STRING254 Varchar(254) |
| ForeGroundColor | Color used in the display of activity on the client. | VDT_COLORREF Binary(4) |
| Icon | Icon used in the display of activity on the client. | VDT_PICTURE Image |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| DICOMCodeValueSer (FK) | Internal identification number. | VDT_SERIALNUMBER Integer |

Table 73 Activity(continued)

| Column Name | Description | Datatype |
|---------------------------|--|--------------------------------|
| NotificationPriorTimeFlag | Indicates whether a reminder should be displayed for the activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| EscalationGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the escalation group for the activity. | VDT_SERIALNUMBER Integer |
| TreatmentCycleSer | Indicates the TreatmentCycle (Care Path Lane) to which the Activity belongs. | VDT_SERIALNUMBER Integer |
| ReviewFlag | Indicated whether the Activity is a review Activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| UpdCPResourceGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the Resource group for the "Update Patient Care Path" activity when an Activity is marked as "Review Activity". | VDT_SERIALNUMBER Integer |
| UpdCPEscalationGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the escalation group for the "Update Patient Care Path" activity when an Activity is marked as "Review Activity" | VDT_SERIALNUMBER Integer |
| AutoGenerateFlag | Indicates whether an activity is auto generated by the system. The possible values are 1 or 0. The default is 0. | VDT_FLAG_FALSE_DEFAULT Integer |
| NoAutoPostFlag | Indicates whether an ActivityCapture dialog should be displayed or not on completion of an activity. The possible values are 1 or 0. The default value is 0. | VDT_FLAG_FALSE_DEFAULT Integer |

ActivityMH

The *ActivityMH* table stores the complete modification history about appointments or tasks and their association to *ActivityCategory* and *ResourceGroup*.

Table 74 ActivityMH

| Column Name | Description | Datatype |
|---------------------------|--|-----------------------------------|
| ActivitySer (FK) | Serial number that acts as the primary key in the <i>Activity</i> table. Used as part of the composite primary key. | VDT_SERIALNUMBER Integer |
| ActivityRevCount (AK1) | Revision Count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityCategorySer (AK1) | Serial number that acts as the primary key in the <i>ActivityCategory</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCode (AK1) | Name of schedulable or non-schedulable activity. Alternate key for this table. | VDT_STRING64 Varchar(64) |
| ActivityType | Name of a table that stores information on this type of activity. | VDT_TYPE Varchar(32) |
| DerivedFromActivitySer | This is a Serial Number of the Activity record from where current record is derived. | VDT_SERIALNUMBER Integer |
| NoEditFlag | Flag indicates whether the user can edit this activity. Values are: <ul style="list-style-type: none">■ 0 – User can edit activity.■ 1 – User cannot edit activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| ResourceGroupSer | Serial number that acts as the primary key in the <i>ResourceGroup</i> table. | VDT_SERIALNUMBER Integer |

Table 74 ActivityMH(continued)

| Column Name | Description | Datatype |
|-----------------------|---|-----------------------------------|
| DefaultDuration | Estimated time in minutes required to complete this activity. | VDT_TIMESLOT Integer |
| ExclusiveFlag | Indicates whether the resource attached can be shared with another activity. Values are: <ul style="list-style-type: none">■ 0 – Sharable■ 1 – Exclusive | VDT_FLAG_FALSE_DEFAULT Integer |
| NotificationPriorTime | Number of minutes within which to complete non-schedulable activity. NULL is used for schedulable activity. | VDT_TIMESLOT Integer |
| AssignableFlag | Indicates whether the non-schedulable activity can be assigned to a resource. Values are: <ul style="list-style-type: none">■ 0 – Cannot be assigned.■ 1 – Can be assigned.■ NULL – Schedulable activity. | VDT_FLAG_TRUE_DEFAULT Integer |
| Description | Description of the activity. | VDT_STRING254 Varchar(254) |
| ForeGroundColor | Foreground color in which activity is displayed on the client. | VDT_COLORREF Binary(4) |
| Icon | Icon which displayed activity on the client. | VDT_PICTURE Image |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Table 74 ActivityMH(continued)

| Column Name | Description | Datatype |
|---------------------------|--|-----------------------------------|
| DICOMCodeValueSer | The Code Value of this Activity is defined in the table DICOMCodeValue. | VDT_SERIALNUMBER Integer |
| NotificationPriorTimeFlag | Indicates whether a reminder should be displayed for the activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| EscalationGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the escalation group for the activity. | VDT_SERIALNUMBER Integer |
| TreatmentCycleSer | Indicates the TreatmentCycle (Care Path Lane) to which the Activity belongs. | VDT_SERIALNUMBER Integer |
| ReviewFlag | Indicated whether the Activity is a review Activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| UpdCPResourceGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the Resource group for the "Update Patient Care Path" activity when an Activity is marked as "Review Activity". | VDT_SERIALNUMBER Integer |
| UpdCPEscalationGroupSer | Indicates the resource group (Doctor and/or Staff) specified as the escalation group for the "Update Patient Care Path" activity when an Activity is marked as "Review Activity" | VDT_SERIALNUMBER Integer |
| AutoGenerateFlag | Indicates whether an activity is auto generated by the system. The possible values are 1 or 0. The default is 0. | VDT_FLAG_FALSE_DEFAULT Integer |
| NoAutoPostFlag | Indicates whether an ActivityCapture dialog should be displayed or not on completion of an activity. The possible values are 1 or 0. The default value is 0. | VDT_FLAG_FALSE_DEFAULT Integer |

ActivityAttribute

The *ActivityAttribute* table stores attributes of activity to be captured on the completion of an Activity.

Table 75 ActivityAttribute

| Column Name | Description | Datatype |
|---------------------------|---|----------------------------------|
| ActivityAttributeSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityAttributeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivitySer (FK) | Activity in the <i>Activity</i> table. | VDT_SERIALNUMBER Integer |
| ActivityRevCount | Revision count of activity in the <i>Activity</i> table. | VDT_REVISIONCOUNT Integer |
| UserDefActAttrSer (FK) | Serial number that acts as the primary key in the <i>UserDefActAttr</i> table. | VDT_SERIALNUMBER Integer |
| UserDefActAttrRevCount | Revision count. Incremented each time this row is modified in the <i>UserDefActAttr</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityAttributeMH

The *ActivityAttributeMH* table stores attributes of activity to be captured on the completion of an *Activity*.

Table 76 ActivityAttributeMH

| Column Name | Description | Datatype |
|---------------------------|--|----------------------------------|
| ActivityAttributeSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityAttributeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivitySer | Activity in the <i>Activity</i> table. | VDT_SERIALNUMBER Integer |
| ActivityRevCount | Revision count of activity in the <i>Activity</i> table. | VDT_REVISIONCOUNT Integer |
| UserDefActAttrSer | Serial number that acts as the primary key in the <i>UserDefActAttr</i> table. | VDT_SERIALNUMBER Integer |
| UserDefActAttrRevCount | Revision count. Incremented each time this row is modified in the <i>UserDefActAttr</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCapture

The *ActivityCapture* table stores capture information about *ActivityInstance*.

Table 77 ActivityCapture

| Column Name | Description | Datatype |
|-----------------------------------|---|------------------------------|
| ActivityCaptureSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (FK) (IE1) | Serial number that acts as the primary key in <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityInstance</i> table. | VDT_REVISIONCOUNT Integer |
| AccountBillingCodeSer | Serial number that acts as the primary key in the <i>AccountBillingCode</i> table. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRev Count | Revision count. Incremented each time this row is modified in the <i>AccountBillingCode</i> table. | VDT_REVISIONCOUNT Integer |
| PatientPayorSer | Serial number that acts as the primary key in the <i>PatientPayor</i> table. | VDT_SERIALNUMBER Integer |
| PatientPayorRevCount | Revision count. Incremented each time this row is modified in <i>PatientPayor</i> table. | VDT_REVISIONCOUNT Integer |
| PayorSer (FK) | System-generated serial number that is a primary key for the <i>Payor</i> table. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) | Serial number that acts as the primary key in the <i>Doctor</i> table. | VDT_SERIALNUMBER Integer |

Table 77 ActivityCapture(continued)

| Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------------|
| AttendingOncologistSer (FK) | Serial number that acts as the primary key in the <i>Doctor</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| CourseSer (FK) | Serial number that acts as the primary key in the <i>Course</i> table. | VDT_SERIALNUMBER Integer |
| LastKnownCourseId | Course Id at the point of capture. | VDT_ID Varchar(16) |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. Values are: <ul style="list-style-type: none">■ 0 – OutPatient■ 1 – InPatient | VDT_FLAG_FALSE _DEFAULT Integer |
| PatientStatus | Status indicating whether the patient is new or not. Values are: <ul style="list-style-type: none">■ New Patient (NP)■ Previous Patient (NOP) | VDT_STATUS32 Varchar(32) |
| CompletionResetBy | Completion reset by user name. | VDT_USERNAME Varchar(32) |
| Comment | Comment. | VDT_COMMENT Varchar(254) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCaptureMH

The *ActivityCaptureMH*. table stores the complete modification history of capture information about *ActivityInstance*.

Table 78 ActivityCaptureMH

| Column Name | Description | Datatype |
|----------------------------|---|------------------------------|
| ActivityCaptureSer (FK) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (IE1) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityInstance</i> table. | VDT_REVISIONCOUNT Integer |
| AccountBillingCodeSer | Serial number that acts as the primary key in the <i>AccountBillingCode</i> table. | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | Revision count. Incremented each time this row is modified in <i>AccountBillingCode</i> table. | VDT_REVISIONCOUNT Integer |
| PatientPayorSer | Serial number that acts as the primary key in the <i>PatientPayor</i> table. | VDT_SERIALNUMBER Integer |
| PatientPayorRevCount | Revision count. Incremented each time this row is modified in the <i>PatientPayor</i> table. | VDT_REVISIONCOUNT Integer |
| PayorSer | System-generated serial number that is a primary key for the <i>Payor</i> table. | VDT_SERIALNUMBER Integer |

Table 78 ActivityCaptureMH(continued)

| Column Name | Description | Datatype |
|------------------------|---|---------------------------------------|
| ResourceSer | Serial number that acts as the primary key in the <i>Doctor</i> table. | VDT_SERIALNUMBER Integer |
| AttendingOncologistSer | Serial number that acts as the primary key in the <i>Doctor</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| CourseSer | Serial number that acts as the primary key in the <i>Course</i> table. | VDT_SERIALNUMBER Integer |
| LastKnownCourseId | Course Id at the point of capture, | VDT_ID Varchar(16) |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. Values are: <ul style="list-style-type: none">■ 0 – OutPatient■ 1 – InPatient | VDT_FLAG_FALSE _DEFAULT Integer |
| PatientStatus | Status indicating whether the patient is new or not. Values are: <ul style="list-style-type: none">■ New Patient (NP)■ Previous Patient (NOP) | VDT_STATUS32 Varchar(32) |
| CompletionResetBy | Completion reset by this username. | VDT_USERNAME Varchar(32) |
| Comment | Comment. | VDT_COMMENT Varchar(254) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 78 ActivityCaptureMH(continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity number that modified this row. | VDT_TASKNAME Varchar(32) |

ActivityCaptureAttribute

The *ActivityCaptureAttribute* table stores values assigned to attributes related to Activity involved in *ActivityCapture*.

Table 79 ActivityCaptureAttribute

| Column Name | Description | Datatype |
|-------------------------------|--|----------------------------------|
| ActivityCaptureAttributeSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityCaptureAttrRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer (FK) (IE1) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| ActivityAttributeSer (FK) | Serial number that acts as the primary key in the <i>ActivityAttribute</i> table. | VDT_SERIALNUMBER Integer |
| ActivityAttributeRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityAttribute</i> table. | VDT_REVISIONCOUNT Integer |
| AttributeValue | The value of the attribute. | VDT_STRING254 Varchar(254) |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 79 ActivityCaptureAttribute(continued)

| Column Name | Description | Datatype |
|---------------|--|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCaptureAttributeMH

The *ActivityCaptureAttributeMH* table stores complete modification history of values assigned to *ActivityCaptureAttribute*.

Table 8o ActivityCaptureAttributeMH

| Column Name | Description | Datatype |
|----------------------------------|--|----------------------------------|
| ActivityCaptureAttributeSer (FK) | Serial number that acts as the primary key in the <i>ActivityCaptureAttribute</i> table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureAttrRevCount | RevisionCount. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| ActivityAttributeSer | Serial number that acts as the primary key in <i>ActivityAttribute</i> table. | VDT_SERIALNUMBER Integer |
| ActivityAttributeRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityAttribute</i> table. | VDT_REVISIONCOUNT Integer |
| AttributeValue | The value of the attribute. | VDT_STRING254 Varchar(254) |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 8o ActivityCaptureAttributeMH(continued)

| Column Name | Description | Datatype |
|---------------|--|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCategory

The *ActivityCategory* stores the textual representation for the activity in the selected language during ARIA installation. Use one of the views, *vv_ActivityCategory* or *vv_ActivityCategoryLng*, to retrieve the textual representation for Activity Category names in another language.

Table 81 ActivityCategory

| Column Name | Description | Datatype |
|----------------------------|---|-----------------------------------|
| ActivityCategorySer | System generated serial number for an activity category. | VDT_SERIALNUMBER Integer |
| ActivityCategoryCode (AE1) | Name of the activity category in the selected language during ARIA installation. | VDT_STRING64 Varchar(64) |
| DepartmentSer (FK) (AE1) | This is a SerialNumber that acts as the PrimaryKey in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| DerivedFromActCategory Ser | This is a Serial Number of the ActivityCategory record from where current record is derived. | VDT_SERIALNUMBER Integer |
| SchedulableFlag | Indicates whether the activity category is schedulable. Values are: <ul style="list-style-type: none">■ 0 – Non-schedulable■ 1 – Schedulable | VDT_FLAG Integer |
| NoEditFlag | Indicates the user cannot edit this activity category. Values are: <ul style="list-style-type: none">■ 0 – User can edit activity category.■ 1 – User cannot edit activity category. | VDT_FLAG_FALSE_DEFAULT Integer |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |

Table 81 ActivityCategory(continued)

| Column Name | Description | Datatype |
|----------------|--|----------------------------------|
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCodeMd

The *ActivityCodeMd* table stores information about the billing code modifier or billing multiplier for an activity in the patient's treatment strategy plan.

Table 82 ActivityCodeMd

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| ModifierSer | Serial number of a modifier. | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| Modifier | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. | VDT_ACTIVITYCODE Varchar(64) |
| MdfrMultiplier | A multiplying float factor to adjust the RUV value of the activity code. | VDT_FLOAT Float |
| Description | Description of the appropriate modifier code to the activity code for an activity in a patient treatment strategy. | VDT_DESCRIPTION Varchar(64) |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |

Table 82 ActivityCodeMd(continued)

| Column Name | Description | Datatype |
|---------------|--|-----------------------------|
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityCodeMdMH

The *ActivityCodeMdMH* table stores the complete modification history for all *ActivityCodeMd* records. These records provide the history of all changes to the billing code modifier and billing multiplier information.

Table 83 ActivityCodeMdMH

| Column Name | Description | Datatype |
|------------------------|--|---------------------------------|
| ModifierSer (FK) | System generated serial number for an activity code modifier. | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| Modifier | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. | VDT_ACTIVITYCODE Varchar(64) |
| MdfrMultiplier | A multiplying float factor to adjust the RUV value of the activity code. | VDT_FLOAT Float |
| Description | Description of the appropriate modifier code to the activity code for an activity in a patient treatment strategy. | VDT_DESCRIPTION Varchar(64) |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |

Table 83 ActivityCodeMdMH(continued)

| Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ActivityInstance

The *ActivityInstance* table stores information about an activity, whether it is an appointment activity or task activity, and references to a *TemplateCycle* if it belongs to a patient template or master template.

Table 84 ActivityInstance

| Column Name | Description | Datatype |
|-----------------------------|--|------------------------------|
| ActivityInstanceSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| TemplateCycleSer (FK) (IE1) | Serial number that acts as the primary key in the <i>TemplateCycle</i> table. | VDT_SERIALNUMBER Integer |
| TemplateCycleRevCount | Revision count of activity in the <i>TemplateCycle</i> table. | VDT_REVISIONCOUNT Integer |
| ActivitySer (FK) (IE2) | Serial number that acts as the primary key in the <i>Activity</i> table. | VDT_SERIALNUMBER Integer |

Table 84 ActivityInstance(continued)

| Column Name | Description | Datatype |
|--------------------------|---|---------------------------------------|
| ActivityRevCount (IE2) | Revision count of activity in the <i>Activity</i> table. | VDT_REVISIONCOUNT Integer |
| DepartmentSer (FK) | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| AppointmentInstanceFlag | Indicates whether the activity instance is a task or an appointment. Has values: <ul style="list-style-type: none">■ 0 – Is Task■ 1 – Is Appointment | VDT_FLAG_TRUE_ DEFAULT Integer |
| ObjectStatus | Indicates whether the activity instance is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| PredecessorSer (FK, IE3) | Serial number of the previous record in the table. Used to create a linked list of related records with the same TemplateCycleSer. | VDT_SERIALNUMBER Integer |
| AppointmentDependentFlag | Indicates whether a task is dependent on an appointment. Has values: <ul style="list-style-type: none">■ 0 – Independent■ 1 – Dependent | VDT_FLAG_FALSE_ DEFAULT Integer |
| NotificationPriorTime | Number of minutes within which to complete an activity. | VDT_TIMESLOT Integer |
| Duration | Appointment duration stored in minutes. | VDT_INT Integer |
| ExclusiveFlag | Indicate whether the resource attached can be shared with another activity. Has values: <ul style="list-style-type: none">■ 0 – Sharable■ 1 – Exclusive | VDT_FLAG_FALSE_ DEFAULT Integer |

Table 84 ActivityInstance(continued)

| Column Name | Description | Datatype |
|-------------------------|---|-------------------------|
| ActivityGroup | This is a number that groups activities into pretreatment, treatment and posttreatment activities. Possible values are: <ul style="list-style-type: none">■ 1 – Pretreatment■ 2 – Treatment■ 3 – Posttreatment | VDT_INT Integer |
| MinPostDuration | The minimum amount of time required in minutes before the next activity can take place. | VDT_INT Integer |
| MinTrtmntOccurrence | The minimum number of treatments that can take place prior to this activity. | VDT_INT Integer |
| MaxTrtmntOccurrence | The maximum number of treatments that can take place prior to this activity. | VDT_INT Integer |
| DefaultTrtmntOccurrence | The default number of treatments that can take place prior to this activity. | VDT_INT Integer |
| WeekNumber | Week that the treatment or intra-treatment activities will occur. | VDT_INT Integer |
| DayOfWeek | Day of the week that the treatment or intra-treatment activities will occur. | VDT_INT Integer |
| PriorPostDueDurUnits | Plus or minus due time in minutes of the task relative to the appointment to which it is attached. For example, 30 means the Task has to be done within 30 minutes after the appointment end time and -30 means the Task has to be done 30 minutes before the appointment begins. | VDT_TIMESLOT Integer |

Table 84 ActivityInstance(continued)

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| ActivityNote | This a textual note entered to describe the details of the activity. NULLs are allowed in this field. | VDT_STRING254 Varchar(254) |
| ActInstReadOnly | Flag that indicates whether the record can be edited by ARIA modules. Values are: <ul style="list-style-type: none">■ 1 = Restricted■ 0 = Allowed. | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| ActivityInstanceId | Id of the activity instance. | VDT_STRING16 Varchar(16) |
| StudySer (FK) (IE4) | Points to the Study to which this activity belongs. | VDT_SERIALNUMBER Integer |
| WorklistType | Indicates the type of worklist. The possible values are: <ul style="list-style-type: none">■ <i>ModalityWorklist</i>■ <i>UnifiedWorklist</i> This value will be populated when this activity instance gets updated for the first time through the Worklist Service. | VDT_STRING64 Varchar(64) |
| PlacerOrderNumber | Generate a number if not set by HL7 or N-CREATE of DICOM Worklist. | VDT_STRING64 Varchar(64) |

Table 84 ActivityInstance(continued)

| Column Name | Description | Datatype |
|--------------------------------|---|---------------------------------------|
| FillerOrderNumber | Generate a number if not set by HL7 or N-CREATE of DICOM Worklist. | VDT_STRING64 Varchar(64) |
| NotificationPriorTimeFlag | Indicates whether or not a reminder should be displayed for the activity. | VDT_FLAG_FALSE_DEFAL LT Integer |
| LastStatusUpdatedByResourceSer | The serial number of the resource who changes the status of the activity. | VDT_SERIALNUMBER Integer |
| LastStatusUpdatedDate | The date and time when the last activity status changed. | VDT_DATETIME Datetime |
| LastNoteUpdatedByResourceSer | The serial number of the resource who last modified the note. | VDT_SERIALNUMBER Integer |
| LastNoteUpdatedDate | The date and time when the last note changed. | VDT_DATETIME Datetime |
| WorkFlowOverrideByResourceSer | The serial number of the resource who overrides the workflow. | VDT_SERIALNUMBER Integer |
| WorkFlowOverrideDate | The date and time when the last workflow override was done. | VDT_DATETIME Datetime |

ActivityInstanceMH

The *ActivityInstanceMH* table stores the complete modification history of activities, whether they are appointment activities or task activities, and references to *TemplateCycle* if it belongs to a patient template or master template.

Table 85 ActivityInstanceMH

| Column Name | Description | Datatype |
|--------------------------|--|--------------------------------------|
| ActivityInstanceSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| TemplateCycleSer | Serial number that acts as the primary key in the <i>TemplateCycle</i> table. | VDT_SERIALNUMBER Integer |
| TemplateCycleRevCount | Revision count of activity in the <i>TemplateCycle</i> table. | VDT_REVISIONCOUNT Integer |
| ActivitySer (IE1) | Serial number that acts as the primary key in the <i>Activity</i> table. | VDT_SERIALNUMBER Integer |
| ActivityRevCount (IE1) | Revision count of activity in the <i>Activity</i> table. | VDT_REVISIONCOUNT Integer |
| DepartmentSer | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| AppointmentInstanceFlag | Indicates whether the activity instance is a task or an appointment. Has values: <ul style="list-style-type: none">■ 0 – Is Task■ 1 – Is Appointment | VDT_FLAG_TRUE _DEFAULT Integer |
| ObjectStatus | Indicates whether the activity instance is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |

Table 85 ActivityInstanceMH(continued)

| Column Name | Description | Datatype |
|--------------------------|--|---------------------------------------|
| PredecessorSer | Serial number of the previous record in the table. Used to create a linked list of related records with the same <i>TemplateCycleSer</i> . | VDT_SERIALNUMBER Integer |
| AppointmentDependentFlag | Indicates whether a task is dependent on an appointment. Has values: <ul style="list-style-type: none">■ 0 – Independent■ 1 – Dependent | VDT_FLAG_FALSE _DEFAULT Integer |
| NotificationPriorTime | Number of minutes within which to complete an activity. | VDT_TIMESLOT Integer |
| Duration | Appointment duration stored in minutes. | VDT_INT Integer |
| ExclusiveFlag | Indicate whether the resource attached can be shared with another activity. Has values: <ul style="list-style-type: none">■ 0 – Sharable■ 1 – Exclusive | VDT_FLAG_FALSE _DEFAULT Integer |
| ActivityGroup | This is a number that groups activities into pretreatment, treatment and posttreatment activities. Possible values are: <ul style="list-style-type: none">■ 1 – Pretreatment■ 2 – Treatment■ 3 – Posttreatment | VDT_INT Integer |
| MinPostDuration | The minimum amount of time required in minutes before the next activity can take place. | VDT_INT Integer |
| MinTrmntOccurrence | The minimum number of treatments that can take place prior to this activity. | VDT_INT Integer |
| MaxTrmntOccurrence | The maximum number of treatments that can take place prior to this activity. | VDT_INT Integer |

Table 85 ActivityInstanceMH(continued)

| Column Name | Description | Datatype |
|------------------------|---|---------------------------------------|
| DefaultTrtmntOccurence | The default number of treatments that can take place prior to this activity. | VDT_INT Integer |
| WeekNumber | Week that the treatment or intra-treatment activities will occur. | VDT_INT Integer |
| DayOfWeek | Day of the week that the treatment or intra-treatment activities will occur. | VDT_INT Integer |
| PriorPostDueDurUnits | Plus or minus due time in minutes of the task relative to the appointment to which it is attached. For example, 30 means the Task has to be done within 30 minutes after the appointment end time and -30 means the Task has to be done 30 minutes before the appointment begins. | VDT_TIMESLOT Integer |
| ActivityNote | This a textual note entered to describe the details of the activity. NULLs are allowed in this field. | VDT_STRING254 Varchar(254) |
| ActInstReadOnly | Flag that indicates whether the record can be edited by ARIA modules. Values are: <ul style="list-style-type: none">■ 1 = Restricted■ 0 = Allowed. | VDT_FLAG_FALSE _DEFAULT Integer |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Table 85 ActivityInstanceMH(continued)

| Column Name | Description | Datatype |
|--------------------------------|---|-----------------------------------|
| ActivityInstanceId | Id of the activity instance. | VDT_STRING16 Varchar(16) |
| StudySer | Points to the Study to which this activity belongs. | VDT_SERIALNUMBER Integer |
| WorklistType | Indicates the type of worklist. The possible values are: <ul style="list-style-type: none">■ <i>ModalityWorklist</i>■ <i>UnifiedWorklist</i> This value will be populated when this activity instance gets updated for the first time through the Worklist Service. | VDT_STRING64 Varchar(64) |
| PlacerOrderNumber | Generate a number if not set by HL7 or N-CREATE of DICOM Worklist. | VDT_STRING64 Varchar(64) |
| FillerOrderNumber | Generate a number if not set by HL7 or N-CREATE of DICOM Worklist. | VDT_STRING64 Varchar(64) |
| NotificationPriorTimeFlag | Indicates whether or not a reminder should be displayed for the activity. | VDT_FLAG_FALSE_DEFAULT Integer |
| LastStatusUpdatedByResourceSer | The serial number of the resource who changes the status of the activity. | VDT_SERIALNUMBER Integer |
| LastStatusUpdatedDate | The date and time when the last activity status changed. | VDT_DATETIME Datetime |
| LastNoteUpdatedByResourceSer | The serial number of the resource who last modified the note. | VDT_SERIALNUMBER Integer |
| LastNoteUpdatedDate | The date and time when the last note changed. | VDT_DATETIME Datetime |
| WorkFlowOverrideByResourceSer | The serial number of the resource who overrides the workflow. | VDT_SERIALNUMBER Integer |
| WorkFlowOverrideDate | The date and time when the last workflow override was done. | VDT_DATETIME Datetime |

ActivityToProcedureCode

The *ActivityToProcedureCode* table maps schedulable and non-schedulable activity to ProcedureCode.

Table 86 ActivityToProcedureCode

| Column Name | Description | Datatype |
|-----------------------|---|--------------------------------------|
| ActivitySer (FK) | Serial number that acts as the primary key for the table. | VDT_SERIALNUMBER Integer |
| ProcedureCodeSer (FK) | Serial number that acts as the primary key in the <i>UserDefActAttr</i> table. | VDT_SERIALNUMBER Integer |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| SortOrder | ProcedureCode order within a given activity. | VDT_INT Integer |
| AutoAssign | Flag indicating if the referenced Procedure Code shall by default be scheduled for the referenced activity. | VDT_FLAG_FALSE_DEFAL T Integer |

Attendee

The Attendee table stores the providers/resources provider groups that are required to perform the appointment/task.

Table 87 Attendee

| Column Name | Description | Datatype |
|-------------------------------|---|---------------------------------------|
| AttendeeSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| AttendeeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (FK) (E1) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time the <i>ActivityInstance</i> table is modified for this <i>ActivityInstanceSer</i> . | VDT_REVISIONCOUNT Integer |
| ResourceSer (FK) (IE2) | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| ResourceGroupSer (FK) | Serial number that acts as the primary key in the <i>ResourceGroup</i> table. | VDT_SERIALNUMBER Integer |
| ObjectStatus | Indicates whether the attendee is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| ExclusiveFlag | Indicates whether the resource attached can be shared with another activity. Values are: 0 – Sharable 1 – Exclusive | VDT_FLAG_FALSE _DEFAULT Integer |
| PrimaryFlag | Indicates whether the resource is the primary resource for the particular activity instance. Values are: <ul style="list-style-type: none">■ 0 – Non-primary■ 1 – Primary | VDT_FLAG_FALSE _DEFAULT Integer |

Table 87 Attendee(continued)

| Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| ParticipationRole | Has a series of values such as <i>Required Participant, Chair Participant, and Optional Participant.</i> | VDT_STRING32 Varchar(32) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

AttendeeMH

The *AttendeeMH* table stores the providers and resources provider groups that are required to perform the appointment or task.

Table 88 Attendee

| Column Name | Description | Datatype |
|--------------------------------|---|---------------------------------------|
| AttendeeSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| AttendeeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (IE1) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount (IE1) | Revision count. Incremented each time the <i>ActivityInstance</i> table is modified for this <i>ActivityInstanceSer</i> . | VDT_REVISIONCOUNT Integer |
| ResourceSer | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| ResourceGroupSer | Serial number that acts as the primary key in the <i>ResourceGroup</i> table. | VDT_SERIALNUMBER Integer |
| ObjectStatus | Indicates whether the attendee is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| ExclusiveFlag | Indicates whether the resource attached can be shared with another activity. Values are: 0 – Sharable 1 – Exclusive | VDT_FLAG_FALSE _DEFAULT Integer |
| PrimaryFlag | Indicates whether the resource is the primary resource for the particular activity instance. Values are: <ul style="list-style-type: none">■ 0 – Non-primary■ 1 – Primary | VDT_FLAG_FALSE _DEFAULT Integer |

Table 88 Attendee(continued)

| Column Name | Description | Datatype |
|-------------------|---|----------------------------------|
| ParticipationRole | Has a series of values such as <i>Required Participant, Chair Participant, and Optional Participant</i> | VDT_STRING32 Varchar(32) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Credit

The Credit table stores information about credit given to *ActivityCapture* (see “ActivityCapture” on page 227).

Table 89 Credit

| Column Name | Description | Datatype |
|----------------------------------|---|-------------------------------|
| CreditSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| CreditRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer (FK) (IE1) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| ActInstProcCodeSer (FK) (IE2) | Serial number that acts as the primary key in the <i>ActInstProcCode</i> table. | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRevCount | Revision count. Incremented each time this row is modified in the <i>ActInstProcCode</i> table. | VDT_REVISIONCOUNT Integer |
| CreditedBy | Username of the person who authorized the credit. | VDT_USERNAME Varchar(32) |
| CreditedDateTime | Date and time the credit was done. | VDT_DATETIME Datetime |
| ExportedBy | Username of the person who exported the credit. | VDT_USERNAME Varchar(32) |
| ExportedDateTime | Date and time the credit was exported. | VDT_DATETIME Datetime |
| Note | Note. | VDT_STRING254 Varchar(254) |

Table 89 Credit(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

CreditMH

The *CreditMH* table stores complete modification history of credit information given to *ActivityCapture* (see “*ActivityCapture*” on page 227).

Table 90 CreditMH

| Column Name | Description | Datatype |
|--------------------------|--|------------------------------|
| CreditSer (FK) | Serial number that acts as the primary key in the <i>Credit</i> table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CreditRevCount | Revision count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityCaptureSer (IE1) | Serial number that acts as the primary key in the <i>ActivityCapture</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | Revision count. Incremented each time this row is modified in the <i>ActivityCapture</i> table. | VDT_REVISIONCOUNT Integer |
| ActInstProcCodeSer | Serial number that acts as the primary key in the <i>ActInstProcCode</i> table. | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRevCount | Revision count. Incremented each time this row is modified in the <i>ActInstProcCode</i> table. | VDT_REVISIONCOUNT Integer |
| CreditedBy | Username of the person who authorized the credit. | VDT_USERNAME Varchar(32) |
| CreditedDateTime | Date and time the of credit. | VDT_DATETIME Datetime |
| ExportedBy | Username of the person who exported the credit. | VDT_USERNAME Varchar(32) |
| ExportedDateTime | Date and time the credit was exported. | VDT_DATETIME Datetime |

Table 90 CreditMH(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| Note | Note | VDT_STRING254 Varchar(254) |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

PatientAuthorization

The *PatientAuthorization* table stores information about the authorization of payment for the treatment to a patient regarding a particular treatment course or treatment activity. Patient-specific authorization data is entered using *Patient Manager*.

Table 91 PatientAuthorization

| Column Name | Description | Datatype |
|-----------------------------|--|----------------------------------|
| PatientAuthorizationSer | System generated serial number for a patient authorization. | VDT_SERIALNUMBER Integer |
| PatientPayorSer (FK) (AK1) | System generated serial number for a payor to whom this authorization applies. | VDT_SERIALNUMBER Integer |
| PatientPayorRevCount (AK1) | Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| AuthorizationId | Authorization ID assigned by the user to uniquely identify a row in the <i>PatientAuthorization</i> table. | VDT_ID Varchar(16) |
| Comment | General note about a patient-specific authorization. | VDT_COMMENT Varchar(254) |
| AuthorizationDateTime (AK1) | Date and time this particular authorization was given for the patient. | VDT_DATETIME Datetime |
| AuthorizedBy | Name of person (payor) who authorized the specific activity/item for the patient. | VDT_NAME Varchar(64) |
| AuthorizationPhone | Phone number for person (payor) who authorizes the specific activity/item for the patient. | VDT_PHONENUMBER Varchar(64) |
| AuthorizationFAX | Fax number of the person who gave this authorization for the patient. | VDT_PHONENUMBER Varchar(64) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 91 PatientAuthorization(continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientPayor

The *PatientPayor* table correlates the patient with the party who is responsible for payment of the patient's bill. This can be an insurance company or other party responsible for the patient's payment, as well as *self* if the patient is responsible.



Note: Changes to this table no longer require that information be provided in the PolicyNumber and Relationship columns.

Table 92 PatientPayor

| Column Name | Description | Datatype |
|-----------------------|---|------------------------------|
| PatientPayorSer | System generated serial number for a patient payor. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| PatientPayorRevCount | Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| PayorSer (FK) (IE2) | System generated serial number for a payor. | VDT_SERIALNUMBER Integer |
| PolicyNumber (IE2) | Policy number for the patient's policy within the plan. | VDT_ID Varchar(16) |
| PrimaryFlag (IE2) | Indicates whether this payor is the primary payor. Some patients can have multiple payors. Patients can have only one primary payor, but up to three secondary payors. Values are: <ul style="list-style-type: none">■ 0 – Not primary payor■ 1 – Primary payor | VDT_FLAG Integer |
| PatientSer (FK) (IE1) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| PreadmitNumber | Preadmission billing number for the patient. | VDT_STRING32 Varchar(32) |
| AccountNumber | Number assigned to patient by accounting for charges and payments. | VDT_STRING32 Varchar(32) |

Table 92 PatientPayor(continued)

| Column Name | Description | Datatype |
|-------------------|---|----------------------------------|
| PrcntOfPaymnt | If a co-payment relationship with one or more additional payors exists, this column represents the percentage of payment for which this payor is responsible. | VDT_FLOAT Float |
| CoPayment | Payment by the patient. | VDT_MONEY Money |
| InsrdName | Name of insured person. | VDT_NAME Varchar(64) |
| InsrdMdclNmbr | Medical number of insured person. | VDT_STRING32 Varchar(32) |
| Relationship | Relationship of insured person to patient. | VDT_NAME Varchar(64) |
| InsrdGroupNumber | Group number of the insured person's insurance. | VDT_STRING16 Varchar(16) |
| InsrdGroupName | Group name of the insured person's insurance. | VDT_NAME Varchar(64) |
| InsrdGroupEmpId | Group employer ID of the insured person's insurance. | VDT_ID Varchar(16) |
| InsrdGroupEmpName | Name of the employer who provides the employee's insurance. | VDT_NAME Varchar(64) |
| VerificationDate | The date this information was verified with the payor. | VDT_DATETIME Datetime |
| CreatedByHL7 | Identifies the original source that created the record. | VDT_USERNAME Varchar(32) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |

Table 92 PatientPayor(continued)

| Column Name | Description | Datatype |
|--------------------|---|-----------------------------|
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientPayorMH

The *PatientPayorMH* table stores the complete modification history of the correlation between the patient and the party who is responsible for payment of the patient's bill. This can be an insurance company or other party responsible for the patient's payment, as well as *self* if the patient is responsible for payment.



Note: Changes to this table no longer require that information be provided in the PolicyNumber and Relationship columns.

Table 93 PatientPayorMH

| Column Name | Description | Datatype |
|----------------------|---|------------------------------|
| PatientPayorSer (FK) | System generated serial number for a patient payor. | VDT_SERIALNUMBER Integer |
| PatientPayorRevCount | Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| PayorSer | System generated serial number for a payor who is referenced by a patient-payor record. | VDT_SERIALNUMBER Integer |
| PolicyNumber | Policy number of the patient's policy within the plan. | VDT_ID Varchar(16) |
| PrimaryFlag | Indicates whether this payor is the primary payor. Some patients can have multiple payors. Patients can have only one primary payor, but up to three secondary payors. Values are: <ul style="list-style-type: none">■ 0 – Not primary■ 1 – Primary | VDT_FLAG Integer |
| PatientSer | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| PreadmitNumber | Preadmission billing number for the patient. | VDT_STATUS32 Varchar(32) |
| AccountNumber | Number assigned to patient by accounting for charges and payments. | VDT_STRING32 Varchar(32) |

Table 93 PatientPayorMH(continued)

| Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| PrcntOfPaymnt | If a co-payment relationship with one or more additional payors exists, this represents the percentage of payment for which this payor is responsible. | VDT_FLOAT Float |
| CoPayment | Payment by the patient. | VDT_MONEY Money |
| InsrdName | Name of the insured person on the policy. | VDT_NAME Varchar(64) |
| InsrdMdclNmbr | Medical number of the insured person on the policy. In the U.S., this is often the person's social security number. | VDT_STRING32 Varchar(32) |
| Relationship | Relationship between the patient and the payor, spouse, brother, sister, and so on. <i>Self</i> is used if the insured person is the patient. | VDT_NAME Varchar(64) |
| InsrdGroupNumber | Group number of the insured person's insurance. | VDT_STRING16 Varchar(16) |
| InsrdGroupName | Group name of the insured person's insurance. | VDT_NAME Varchar(64) |
| InsrdGroupEmpId | Group employer ID of the insured person's insurance. | VDT_ID Varchar(16) |
| InsrdGroupEmpName | Name of the employer who provides the employee's insurance. | VDT_NAME Varchar(64) |
| VerificationDate | The date this information was verified with the payor. | VDT_DATETIME Datetime |
| CreatedByHL7 | Identifies the original source that created the record. | VDT_USERNAME Varchar(32) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 93 PatientPayorMH(continued)

| Column Name | Description | Datatype |
|---------------|---|-----------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIME Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Payor

The *Payor* table stores information about the parties who are responsible for payments. This table includes any insurance company, individual, or organization responsible for payment of charges associated with cancer treatment for the selected patient.

Any payor can be responsible for multiple patients. Likewise, a patient can have multiple parties responsible for the payment of their bills. Therefore the *PatientPayor* correlation table is used to connect patients with their payors.



Note: Changes to this table no longer require that information be provided for PlanTypeSer, StreetAddress1, City, State, PostalCode, Country, PrimaryContactName, Phone, FAX, EffectiveDate and EndDate in the table.

Table 94 Payor

| Column Name | Description | Datatype |
|-------------------|---|--------------------------------|
| PayorSer | System generated serial number for a payor. | VDT_SERIALNUMBER Integer |
| PlanTypeSer (FK) | System generated serial number for a plan type for a payor. | VDT_SERIALNUMBER Integer |
| PlanNumber (AK1) | Unique identification number of the patient's medical insurance plan. | VDT_ID Varchar(16) |
| CompanyName (AK1) | Name of the company that issued the medical insurance plan. | VDT_NAME Varchar(64) |
| StreetAddress1 | Street address line 1. | VDT_ADDRESSLINE Varchar(64) |
| StreetAddress2 | Street address line 2. | VDT_ADDRESSLINE Varchar(64) |
| City | City or township in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| State | State or province of the address. | VDT_ADDRESSLINE Varchar(64) |
| PostalCode | Zip code or postal code of the address. | VDT_POSTALCODE Varchar(16) |

Table 94 Payor(continued)

| Column Name | Description | Datatype |
|----------------------|--|---------------------------------|
| Country | Country in which the address is located. | VDT_ADDRESSLINE Varchar(64) |
| PrimaryContactName | Name of primary contact for the payor. | VDT_NAME Varchar(64) |
| Phone | Phone number of the primary contact. | VDT_PHONENUMBER Varchar(64) |
| FAX | Fax number of the primary contact. | VDT_PHONENUMBER Varchar(64) |
| EmailAddress | Electronic mail address of the primary contact. | VDT_ADDRESSLINE Varchar(64) |
| EffectiveDate | Date this plan became (or will become) effective. | VDT_DATETIMESTAMP Datetime |
| EndDate | Date this plan was (or will be) no longer effective. | VDT_DATETIMESTAMP Datetime |
| NumOfPlanMmbrs | Number of members participating in this plan. | VDT_NUMBER Integer |
| MnthslyPaymntPerMmbr | For CAP plans, the dollar amount the hospital receives per month per member. | VDT MONEY Money |
| TotalPaymntPerDiag | Total payment per diagnosis. | VDT MONEY Money |
| PlanDeductible | Amount, specified by insurance plan, that is the responsibility of the insured person. | VDT MONEY Money |
| PlanLimitAmount | Maximum amount that insurance plan will pay. In some cases, the limit may be for a single encounter. | VDT MONEY Money |
| PlanLimitDays | Maximum number of days that insurance plan will cover. | VDT INT Integer |
| ObjectStatus | Indicates whether the payor is active or inactive. | VDT_OBJECTSTATUS Varchar(16) |

Table 94 Payor(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PayorAuthorization

The *PayorAuthorization* table stores information about the person who is responsible for authorization for a particular payor.

Table 95 PayorAuthorization

| Column Name | Description | Datatype |
|-----------------------|--|----------------------------------|
| PayorAuthorizationSer | System generated serial number for a payor authorization. | VDT_SERIALNUMBER Integer |
| PayorSer (FK) | System generated serial number for a referenced payor who requires this authorization. | VDT_SERIALNUMBER Integer |
| Description | Description of treatment activity requiring authorization. | VDT_COMMENT Varchar(254) |
| AuthorizedBy | Name of payor's primary contact for authorizations of this type. | VDT_NAME Varchar(64) |
| AuthorizationPhone | Phone number of the payor's primary contact for authorizations of this type. | VDT_PHONENUMBER Varchar(64) |
| AuthorizationFAX | Fax number of person who is the primary contact for this payor for authorizations. | VDT_PHONENUMBER Varchar(64) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PlanTypes

The *PlanTypes* table stores information about the types of plans available or offered by a payor. Plan types can be CAP (Capitated), FFS (Fee for Service), HMO (Health Maintenance Organization), MED (Medicare), MEC (Medicaid), and PPO (Preferred Provider Organization), among others. Payor plan types can be defined using *Data Administration*.

Table 96 PlanTypes

| Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| PlanTypeSer | System generated serial number for a plan type. | VDT_SERIALNUMBER Integer |
| PlnTpAbbrvtn (AK1) | Abbreviation used for displaying plan type on payor information screens, CAP, FFS, HMO, MED, MEC, and PPO, among others. | VDT_TYPE Varchar(32) |
| Description | Description about the type of insurance plan associated with the plan number. Plan types can include Capitated, Fee for Service, Health Maintenance Organization, Medicare, Medicaid, and Preferred Provider Organization, among others. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ProcedureCode

The *ProcedureCode* table stores a listing of procedures, types of procedures, and the appropriate charges and relative value unit (RVU) charges.

Table 97 ProcedureCode

| Column Name | Description | Datatype |
|--------------------------------|---|---------------------------------|
| ProcedureCodeSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during an insert operation. | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ModifierSer (FK) | Serial number that acts as the primary key in the <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Incremented each time this row is modified in the <i>ActivityCodeMd</i> table. | VDT_REVISIONCOUNT Integer |
| ActivityCategorySer (FK) (IE1) | Serial number that acts as the primary key in the <i>ActivityCategory</i> table. | VDT_SERIALNUMBER Integer |
| ProcedureCode (IE1) | Name of the procedure code. This column is an alternate key for this table. | VDT_STRING64 Varchar(64) |
| CodeType | Type of activity. Values are: <ul style="list-style-type: none">■ <i>Administrative</i>■ <i>Global</i>■ <i>Medical Oncology</i>■ <i>Professional</i>■ <i>Technical</i> | VDT_TYPE Varchar(32) |
| BillingCode (IE1) | Hospital-specific billing code. | VDT_ACTIVITYCODE Varchar(64) |

Table 97 ProcedureCode(continued)

| Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------------|
| DerivedFromProcedureCodeSer | This is a Serial Number of the ProcedureCode record from where current record is derived. This is a Serial Number of the ProcedureCode record from where current record is derived. This is a Serial Number of the ProcedureCode record from where current record is derived. | VDT_SERIALNUMBER Integer |
| NoEditFlag | Flag indicates whether or not the user can edit this procedure code. Values are: <ul style="list-style-type: none">■ 0 – User can edit the procedure code.■ 1 – User cannot edit the procedure code. | VDT_FLAG_FALSE _DEFAULT Integer |
| ObjectStatus | Indicates whether the procedure code is 'Active', 'InActive' or 'Deleted' | VDT_OBJECTSTATUS Varchar(16) |
| UserDefinedCode | User-defined activity type; intended for use as the level above the activity level in a hierarchical accounting system. Values are from the user-defined list. | VDT_ACTIVITYCODE Varchar(64) |
| PrmrProfessCharge | Professional component of the standard charge that the primary payor allows for this activity. | VDT MONEY Money |
| PrmrTechCharge | Technical component of the standard charge that the primary payor allows for this activity. | VDT MONEY Money |
| PrmrGlblCharge | Total standard charge that the primary payor allows for this activity. | VDT MONEY Money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this activity. | VDT_FLOAT Float |

Table 97 ProcedureCode(continued)

| Column Name | Description | Datatype |
|--------------------|---|--------------------------------------|
| TechnicalRVU | Technical component of the Medicare RVUs for this activity. | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this activity. | VDT_FLOAT Float |
| OthrProfessCharge | Professional component of the national full payment for this activity. | VDT MONEY Money |
| OthrTechCharge | Technical component of the national full payment for this activity. | VDT MONEY Money |
| OthrGlblCharge | Total national full payment for this activity. | VDT MONEY Money |
| ComplexityCode | Medicare-determined complexity of the activity, if applicable. Values are: <ul style="list-style-type: none">■ 0 – N/A■ 1 – Simple■ 2 – Intermediate■ 3 – Complex | VDT_CODEVALUE Integer |
| ActivityCost | Actual average cost to the hospital or clinic performing the activity. | VDT MONEY Money |
| Comment | Activity description. | VDT COMMENT Varchar(254) |
| ShortComment | Free text. | VDT STRING64 Varchar(64) |
| WorkUnit | The amount of effort needed to complete the activity. | VDT_FLOAT Float |
| ChargeForecast | Forecasted charge for this procedure. | VDT MONEY Money |
| ActualCharge | Actual Charge for this procedure. | VDT MONEY Money |
| ExportableFlag | Flag to define whether the activity can be exported or not. | VDT FLAG_TRUE _DEFAULT Integer |

Table 97 ProcedureCode(continued)

| Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| DepartmentSer (FK) | Department to charge this procedure. It may be a different department than the parent Activity Instance. | VDT_SERIALNUMBER Integer |

ProcedureCodeMH

The *ProcedureCodeMH* table stores a complete modification history of procedures, types of procedures and the appropriate charges and relative value unit (RVU) charges.

Table 98 ProcedureCodeMH

| Column Name | Description | Datatype |
|------------------------|---|---------------------------------|
| ProcedureCodeSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during an insert operation. | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ModifierSer | Serial number that acts as the primary key in the <i>ActivityCodeMd</i> table. | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Incremented each time this row is modified in the <i>ActivityCodeMd</i> table. | VDT_REVISIONCOUNT Integer |
| ActivityCategorySer | Serial number that acts as the primary key in the <i>ActivityCategory</i> table. | VDT_SERIALNUMBER Integer |
| ProcedureCode | Name of the procedure code. Alternate key for this table. | VDT_STRING64 Varchar(64) |
| CodeType | Type of activity. Values are: <ul style="list-style-type: none">■ <i>Administrative</i>■ <i>Global</i>■ <i>Medical Oncology</i>■ <i>Professional</i>■ <i>Technical</i> | VDT_TYPE Varchar(32) |
| BillingCode | Hospital-specific billing code. | VDT_ACTIVITYCODE Varchar(64) |

Table 98 ProcedureCodeMH(continued)

| Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------------|
| DerivedFromProcedureCodeSer | This is a Serial Number of the ProcedureCode record from where current record is derived. This is a Serial Number of the ProcedureCode record from where current record is derived. This is a Serial Number of the ProcedureCode record from where current record is derived. | VDT_SERIALNUMBER Integer |
| NoEditFlag | Flag indicates whether or not the user can edit this procedure code. Values are: <ul style="list-style-type: none">■ 0 – User can edit the procedure code.■ 1 – User cannot edit the procedure code. | VDT_FLAG_FALSE _DEFAULT Integer |
| ObjectStatus | Indicates whether the procedure code is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| UserDefinedCode | User-defined activity type; intended for use as the level above the activity level in a hierarchical accounting system. Values are from the user-defined list. | VDT_ACTIVITYCODE Varchar(64) |
| PrmrProfessCharge | Professional component of the standard charge that the primary payor allows for this activity. | VDT MONEY Money |
| PrmrTechCharge | Technical component of the standard charge that the primary payor allows for this activity. | VDT MONEY Money |
| PrmrGlblCharge | Total standard charge that the primary payor allows for this activity. | VDT MONEY Money |

Table 98 ProcedureCodeMH(continued)

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| ProfessionalRVU | Professional component of the Medicare RVUs for this activity. | VDT_FLOAT Float |
| TechnicalRVU | Technical component of the Medicare RVUs for this activity. | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this activity. | VDT_FLOAT Float |
| OthrProfessCharge | Professional component of the national full payment for this activity. | VDT_MONEY Money |
| OthrTechCharge | Technical component of the national full payment for this activity. | VDT_MONEY Money |
| OthrGlblCharge | Total national full payment for this activity. | VDT_MONEY Money |
| ComplexityCode | Medicare-determined complexity of the activity, if applicable. Values are: <ul style="list-style-type: none">■ 0 – N/A■ 1 – Simple■ 2 – Intermediate■ 3 – Complex | VDT_CODEVALUE Integer |
| ActivityCost | Actual average cost to the hospital or clinic performing the activity. | VDT_MONEY Money |
| Comment | Activity description. | VDT_COMMENT Varchar(254) |
| ShortComment | Free text. | VDT_STRING64 Varchar(64) |
| WorkUnit | The amount of effort needed to complete the activity. | VDT_FLOAT Float |
| ChargeForecast | Forecasted charge for this procedure. | VDT_MONEY Money |

Table 98 ProcedureCodeMH(continued)

| Column Name | Description | Datatype |
|----------------|--|----------------------------------|
| ActualCharge | Actual Charge for this procedure. | VDT_MONEY Money |
| ExportableFlag | Flag to define whether the activity can be exported or not. | VDT_FLAG_TRUE_DEFAULT Integer |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |
| DepartmentSer | Department to charge this procedure. It may be a different department than the parent Activity Instance. | VDT_SERIALNUMBER Integer |

Template

The *Template* table stores information about template headers.

Table 99 Template

| Column Name | Description | Datatype |
|------------------------|---|---------------------------------|
| TemplateSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| TemplateRevCount | Revision count. Incremented each time this row is modified | VDT_REVISIONCOUNT Integer |
| PatientSer (FK) (IE1) | Serial number that acts as the primary key in the <i>Patient</i> table. | VDT_SERIALNUMBER Integer |
| DiagnosisStageSer (FK) | Serial number that acts as the primary key in the <i>DiagnosisStage</i> table. | VDT_SERIALNUMBER Integer |
| PayorSer (FK) | Serial number that acts as the primary key in the <i>Payor</i> table. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| DerivedFromSer (FK) | Serial number of the record from where current template is derived. The previous template could be a master template (no patient associated) or a patient template. | VDT_SERIALNUMBER Integer |
| CreationDate | Date and time of creation template. | VDT_DATETIMESTAMP Datetime |
| TemplateID | This is a NULL field and is here to accommodate a schedule where multiple protocols exist with the same diagnosis code. | VDT_GENTMPLTID Varchar(64) |
| CourseSer (FK) | Serial number that acts as the primary key in the <i>Course</i> table. | VDT_SERIALNUMBER Integer |
| ObjectStatus | Indicates whether the template is <i>Active</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |

Table 99 Template(continued)

| Column Name | Description | Datatype |
|----------------|--|-----------------------------------|
| DefaultFlag | A flag that is set to 0 or 1 as follows: <ul style="list-style-type: none">■ The default flag for a master template is 0.■ The default flag for one record for a patient that has one or more records is 1. | VDT_FLAG_FALSE_DEFAULT Integer |
| Comment | General note about the template. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TemplateMH

The *TemplateMH* table stores the complete modification history for templates and the department in which they belong.

Table 100 TemplateMH

| Column Name | Description | Datatype |
|-------------------|---|---------------------------------|
| TemplateSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| TemplateRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| PatientSer (IE1) | Serial number that acts as the primary key in the <i>Patient</i> table. | VDT_SERIALNUMBER Integer |
| DiagnosisStageSer | Serial number that acts as the primary key in the <i>DiagnosisStage</i> table. | VDT_SERIALNUMBER Integer |
| PayorSer | Serial number that acts as the primary key in the <i>Payor</i> table. | VDT_SERIALNUMBER Integer |
| ResourceSer | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| DepartmentSer | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| DerivedFromSer | Serial number of the record from where current template is derived. The previous template could be a master template (no patient associated) or a patient template. | VDT_SERIALNUMBER Integer |
| CreationDate | Date and time of creation template. | VDT_DATETIMESTAMP Datetime |
| TemplateID | This is a NULL field and is here to accommodate a schedule where multiple protocols exist with the same diagnosis code. | VDT_GENTMPLTID Varchar(64) |
| CourseSer | Serial number that acts as the primary key in the <i>Course</i> table. | VDT_SERIALNUMBER Integer |
| ObjectStatus | Indicates whether the template is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |

Table 100 TemplateMH(continued)

| Column Name | Description | Datatype |
|----------------|---|---------------------------------------|
| DefaultFlag | A flag that is set to 0 or 1 as follows: <ul style="list-style-type: none">■ The default flag for a master template is 0.■ The default flag for a patient template having only one record is 1.■ The default flag for one record for a patient that has one record is 0.■ The default flag for one record for a patient that has several records is 1. | VDT_FLAG_FALSE _DEFAULT Integer |
| Comment | General note about the template. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TemplateCycle

The *TemplateCycle* table stores serial number information for templates and template cycles.

Table 101 TemplateCycle

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| TemplateCycleSer | Serial number that acts as the primary key for this table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBR Integer |
| TemplateCycleRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| TemplateSer (FK) (IE1) | Serial number that acts as the primary key in the <i>Template</i> table. | VDT_SERIALNUMBR Integer |
| TemplateRevCount | Revision count of the corresponding record in the <i>Template</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the template cycle is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| CycleSer (FK) | System generated serial number for a cycle. | VDT_SERIALNUMBR Integer |
| Comment | General note about a template cycle. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TemplateCycleMH

The *TemplateCycleMH* table stores serial number information for templates and template cycles.

Table 102 TemplateCycleMH

| Column Name | Description | Datatype |
|-----------------------|--|----------------------------------|
| TemplateCycleSer (FK) | Serial number that acts as the primary key for this table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBR Integer |
| TemplateCycleRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| TemplateSer | Serial number that acts as the primary key in the <i>Template</i> table. | VDT_SERIALNUMBR Integer |
| TemplateRevCount | Revision count of the corresponding record in the <i>Template</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the template cycle is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| CycleSer | System generated serial number for a cycle. | VDT_SERIALNUMBR Integer |
| Comment | General note about a template cycle. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TemplateDiagnosis

The *TemplateDiagnosis* table stores serial number information for templates and template cycles.

Table 103 TemplateDiagnosis

| Column Name | Description | Datatype |
|-------------------------|--|----------------------------------|
| TemplateDiagnosisSer | Serial number that acts as the primary key for this table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBR Integer |
| TemplateSer (FK) (IE1) | Serial number that acts as the primary key in the <i>Template</i> table. | VDT_SERIALNUMBR Integer |
| DiagnosisSer (FK) (IE2) | Serial number that acts as the primary key in the <i>Diagnosis</i> table. | VDT_SERIALNUMBR Integer |
| TemplateRevCount | Revision count of the corresponding record in the <i>Template</i> table. | VDT_REVISIONCOUNT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

TreatmentCycle

The *TreatmentCycle* table stores information about defined treatment appointments or treatment application patterns for a patient in one week. A treatment cycle is a set of five radiation treatments that are normally delivered daily over a five-day period. One cycle is sometimes referred to as a *treatment week*.

Table 104 TreatmentCycle

| Column Name | Description | Datatype |
|----------------|---|-----------------------------------|
| CycleSer | System generated serial number for a treatment cycle. | VDT_SERIALNUMBER Integer |
| TreatmentCycle | Description of the treatment cycle. Possible values are: <ul style="list-style-type: none">■ <i>Posttreatment Cycle/Week</i>■ <i>Pretreatment Cycle/Week</i>■ <i>Treatment Cycle/Week</i>■ <i>Treatment Planning Cycle/Week</i> | VDT_STRING32 Varchar(32) |
| NoEditFlag | Indicates whether the user can edit this treatment cycle. Values are: <ul style="list-style-type: none">■ 0 – User can edit.■ 1 – User cannot edit. | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| ObjectStatus | Status of the TreatmentCycle. Valid values are: <ul style="list-style-type: none">■ Active■ InActive | VDT_OBJECTSTATUS Varchar(16) |
| SortOrder | The Order of the TreatmentCycle displayed within the Visual care path. | VDT_INT Integer |

UserDefActAttr

The *UserDefActAttr* table stores information about user defined activity attributes.

Table 105 UserDefActAttr

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| UserDefActAttrSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| UserDefActAttrRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| UserDefActAttrId | Id of user defined activity attribute. | VDT_ID Varchar(16) |
| Description | Description of user defined activity attribute. | VDT_STRING254 Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

UserDefActAttrMH

The *UserDefActAttrMH* table stores complete modification history of user defined activity attributes.

Table 106 UserDefActAttrMH

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| UserDefActAttrSer (FK) | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| UserDefActAttrRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| UserDefActAttrId | Id of user defined activity attribute. | VDT_ID Varchar(16) |
| Description | Description of user defined activity attribute. | VDT_STRING254 Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

UserDefActAttrValue

The *UserDefActAttrValue* table stores information about user defined activity attribute values.

Table 107 UserDefActAttrValue

| Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| UserDefActAttrValueSer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| UserDefActAttrSer (FK) | Serial number that acts as the primary key in the <i>UserDefActAttr</i> table. | VDT_SERIALNUMBER Integer |
| UserDefActAttrRevCount | Revision count. Incremented each time this row is modified in <i>UserDefActAttr</i> table. | VDT_REVISIONCOUNT Integer |
| AttributeValue | Description of the user defined activity attribute value. | VDT_STRING254 Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

Chapter 8 Image Zone Tables

The **Image** zone identifies the tables found in the brunt orange colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

Image

The *Image* table stores detailed image collection information as a result of a CT Scan including size, resolution and other factors.

Table 1 Image

| Column Name | Description | Datatype |
|----------------------------|---|-------------------------------|
| ImageSer (IE5) (IE6) | Internal identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| SeriesSer (FK) (IE1) (IE6) | Reference to the series, this image belongs to. | VDT_SERIALNUMBER Integer |
| ImageId (IE1) | External identification. ID of Image. | VDT_ID Varchar(16) |
| ImageName | Name of instance. | VDT_NAME Varchar(64) |
| CreationDate (IE4) | Date/Time this instance was first entered into the system. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | User who first entered this instance into the system. | VDT_USERNAME Varchar(32) |
| StatusDate | Time and date when the Status attribute was set. | VDT_STRING64 Varchar(64) |
| StatusUserName | User name of the user who set the status. | VDT_USERNAME Varchar(32) |
| ImageType | ImageType is used to identify the class that has to be instantiated in VFC. | VDT_TABLENAME Varchar(30) |
| Status | The image's current status. Values are: <ul style="list-style-type: none">■ Action Required■ Approved■ New (default)■ Reviewed■ Disposed | VDT_STRING64 Varchar(64) |
| VolumetricPixelOffset | Pixel offset for 3D (volume) images only. For 2D Images, the offset is stored in the slice. | VDT_INT Integer |

Table 1 Image(continued)

| Column Name | Description | Datatype |
|-----------------------|---|--------------------------------|
| ProcessedFlag | ProcessedFlag is indicating whether the Pixel information of this image (in the pixel file and not in memory) is original as from the acquisition or import: <ul style="list-style-type: none"> ■ <i>TRUE</i> = Pixel information is processed ■ <i>FALSE</i> = Pixel information is original (default). | VDT_FLAG_FALSE_DEFAULT Integer |
| DefaultProcessingSer | Reference to the default processing. This is the processing which is always applied after loading the image. | VDT_SERIALNUMBER Integer |
| OtherProcessingSer | Reference to another processing. Besides the default processing , other processing might be applied, such as modality specific ones. For the ImagePl this is the DefaultMatchAlgorithm that was applied during acquisition. | VDT_SERIALNUMBER Integer |
| GeometricParentSer | The GeometricParentSer is a reference to another Image which serves as the geometrical parent, i.e. the Transformation of the current image is relative to the geometrical parent image. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE2) | The PatientSer is a reference to the Patient this image belongs to. This information is mainly evaluated by nightly jobs to set the patient's SelectionStatus flags. This attribute doesn't replace any ImageContext and shouldn't be misused for navigations. | VDT_SERIALNUMBER Integer |
| ImageSizeX | Size of the Image in X direction (Size is number of pixels). | VDT_IMAGESIZE Integer |
| ImageSizeY | Size of the Image in Y direction (Size is number of pixels). | VDT_IMAGESIZE Integer |
| ImageSizeZ | Size of the Image in Z direction (This size is normally the calculated number of voxels after reconstruction). | VDT_IMAGESIZE Integer |
| ImageResX | Resolution of the Image in X direction (distance between 2 pixels in mm). | VDT_RESOLUTION Float |

Table 1 Image(continued)

| Column Name | Description | Datatype |
|----------------------|--|---------------------------------------|
| ImageResY | Resolution of the Image in Y direction (distance between 2 pixels in mm), this is normally the same as in X direction. | VDT_RESOLUTION Float |
| ImageResZ | Resolution of the Image in Z direction (distance between 2 pixels in mm). | VDT_RESOLUTION Float |
| InverseSliceOrder | Flag indicating that z-coordinate in slices grows towards feet in CART format (<i>TRUE</i> = inverse). | VDT_FLAG_FALSE_ DEFAULT Integer |
| FocusX | Focus X (Reserved for future use). | VDT_FLOAT Float |
| FocusY | Focus Y (Reserved for future use). | VDT_FLOAT Float |
| FocusZ | Focus Z (Reserved for future use). | VDT_FLOAT Float |
| Comment | Free text field. | VDT_COMMENT Varchar(254) |
| PatientOrientation | Specifies the orientation of the patient relative to image. Defined values see DICOM definition. Examples: <i>P, A, L, R, H, F</i> | VDT_STRING16 Varchar(16) |
| UsageType | Allowed enumerators are <i>PortImage, ArtImg, ScoutImage</i> . | VDT_NAME Varchar(64) |
| ActWindow | Actual window value. Window is a display parameter that determines the contrast for a 3D-image (applicable for all slices which do not have their own W/L settings). | VDT_WINDOWLEVEL Integer |
| ActLevel | Actual Level value. Level is a display parameter that determines the brightness for a 3D-image (applicable for all slices which do not have their own W/L settings). | VDT_WINDOWLEVEL Integer |
| VolumetricPixelSlope | Pixel slope for 3D (volume) images only. For 2D Images, the slope is stored in the slice. | VDT_FLOAT Float |

Table 1 Image(continued)

| Column Name | Description | Datatype |
|--------------------------|--|----------------------------------|
| PixelUnit | Units for the pixel measurements, including offset and slope, displayed to the user by the pixel measurement widget. | VDT_STRING32 Varchar(32) |
| ImageNotesLen | Length of the ImageNotes attribute. | VDT_INT Integer |
| ImageNotes | A historical sequence of notes attached to the image containing the date when new text was entered, the user who entered it, and free text. Not to be mixed up with the attribute Comment. | VDT_TEXT16K Text |
| Transformation | The relative transformation matrix of the current image to its geometrical parent image. If <i>GeometricParentSer</i> is undefined, this transformation is invalid. | VDT_TRANSFORMATION Binary(96) |
| VolumeTransformation | The VolumeTransformation is used for 3D construction and the matrix tells the position of the volume in relation to 2D slices from which the volume is constructed. | VDT_TRANSFORMATION Binary(96) |
| UserOrigin | DICOM offset for the user image origin. | VDT_TRIPLEFLOAT Binary(24) |
| UserOriginComment | Comment for the user image origin. | VDT_COMMENT Varchar(254) |
| DisplayTransformation | Transformation of the image as it is displayed in a view. This transformation does not affect any geometrical transformations of the image to any other geo-parents or geo-childs. | VDT_TRANSFORMATION Binary(96) |
| ProcessingDefinition | XML formatted description of the image processing to be applied when the image is displayed. | VDT_TEXT16K Text |
| ProcessingDefinition Len | Length of the ProcessingDefinition attribute. | VDT_INT Integer |

Table 1 Image(continued)

| Column Name | Description | Datatype |
|-----------------------|---|----------------------------------|
| FractionNumber | Fraction number for this beam. Partial treatment of the same fraction have the same fraction number. | VDT_INT Integer |
| RefDicomSeqNumber | Number referencing the Fraction Scheme in the RT Plan. Used only for Images with modality RTImage: Referenced Fraction Scheme Number. | VDT_INT Integer |
| Image4DSer (FK) (IE5) | The 4D image (correlation parent) to which the image belongs, if a part of a 4D image. Currently known flags: <ul style="list-style-type: none">■ 0 = Image is not included in the 4D movie loop.■ Non-zero = Image is included in the 4D movie loop. | VDT_SERIALNUMBER Integer |
| Flags4D | Location for miscellaneous flags about the image in the context of one 4D image. Currently known flags: <ul style="list-style-type: none">■ 0 = Image is not included in the 4D movie loop■ Non-zero = Image is included in the 4D movie loop. | VDT_INT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime (IE3) | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ImageSlice

The *ImageSlice* table stores image slice information.

Table 2 ImageSlice

| Column Name | Description | Datatype |
|---------------------|---|----------------------------------|
| ImageSer (FK) | Internal identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by the Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| SliceSer (FK) (IE1) | Internal identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by the Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| CacheKeySer | Key which is used in the DB-Cache to uniquely identify an ImageSlice (In DB-Cache one single key is required!). | VDT_SERIALNUMBER Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

RefPointLocation

The *RefPointLocation* table stores information specifically identifying the location of a reference point.

Table 3 RefPointLocation

| Column Name | Description | Datatype |
|----------------------|---|----------------------------------|
| ImageSer (FK) | Internal identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| RefPointSer (FK) | System generated serial number for a reference point. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| CacheKeySer | System generated serial number for a cache key. | VDT_SERIALNUMBER Integer |
| RefPointLocationType | Type of the reference point location. It's for future use and shall be <i>RefPointLocation</i> and <i>MatchLocation</i> . | VDT_STRING32 Varchar(32) |
| Location | Coordinates of the reference point. | VDT_TRIPLEFLOAT Binary (24) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Series

The *Series* table stores information about how a set of images (for example, a set of CT slices) was created or acquired.

Table 4 Series

| Column Name | Description | Datatype |
|---------------------------|---|-------------------------------|
| SeriesSer (IE2) (IE3) | System generated serial number for a series. | VDT_SERIALNUMBER Integer |
| StudySer (FK) (IE1) (IE3) | System generated serial number for a study. | VDT_SERIALNUMBER Integer |
| SeriesId | External identification (ID) of the series. | VDT_ID Varchar(16) |
| SeriesName | Name of an series instance. | VDT_Name Varchar(64) |
| SeriesNumber | A number that identifies the series. | VDT_NUMBER Integer |
| SeriesUID (AK1) | Unique Id of a series according to DICOM. | VDT_UID Varchar(64) |
| SeriesType | Series type is either Folder or Series. Used to instantiate the appropriate VFC object. | VDT_TABLENAME Varchar(30) |
| CreationDate | Date/Time when this instance was first entered into the system. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | The name of the user who first entered this instance into the system. | VDT_USERNAME Varchar(32) |
| BodyPartExamined | Text description of the part of the body that was examined. Examples are SKULL, CSPINE, BREAST, and PELVIS. For defined terms see DICOM definition. | VDT_STRING32 Varchar(32) |

Table 4 Series(continued)

| Column Name | Description | Datatype |
|-----------------------|--|-----------------------------|
| PatientOrientation | Patient position when images are acquired relative to the equipment. This is required for CT and MR images. For defined terms see DICOM definition of Patient Position (0018,5100). Examples: HFP (Head First-Prone), and FFS (Feed First-Supine) | VDT_STRING32 Varchar(32) |
| SeriesModality | The modality of the images in this series (type of equipment that originally acquired the data used to create images in this series). | VDT_MODALITY Varchar(16) |
| AcquisitionType | Determines how the images have been acquired. Allowed types are: <ul style="list-style-type: none">■ <i>CTScan</i>■ <i>Import</i>■ <i>Planning</i>■ <i>SimulationAcq</i>■ <i>SimulationCine</i>■ <i>TreatmentAcq</i>■ <i>TreatmentCine</i> | VDT_STRING32 Varchar(32) |
| Comment | General note about the series. | VDT_COMMENT Varchar(254) |
| ReconstructionType4D | The 4D reconstruction type of the image. Values are NULL, FreeBreathing, Phase, Mip, Avg, Min. | VDT_STRING64 Varchar(64) |
| ReconstructionPhase4D | The 4D reconstruction phase of the image. The phase number tells which phase of the respiratory cycle the images in this series represent. For example, the phase numbers in a 10-phase respiratory cycle can be set to 0, 10, 20,... 90. | VDT_FLOAT Float |

Table 4 Series(continued)

| Column Name | Description | Datatype |
|----------------------------|---|-----------------------------------|
| PositionReferenceIndicator | Part of the patient's anatomy used as a reference, such as the iliac crest, orbital-medial, sternal notch, symphysis pubis, xiphoid, lower costal margin, external auditory meatus. | VDT_STRING64 Varchar(64) |
| FrameOfReferenceUID (IE2) | The UID of the frame of reference, to which all objects belong. This attribute applies to all series whose modality includes objects having frames of reference. | VDT_UID Varchar(64) |
| ResampledSeriesFlag | Indicates whether this series was obtained by resampling another series. | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| ResourceSer | Identifies the machine to which this folder belongs. Can only be set if the SeriesType column is <i>Folder</i> . This is a Foreign key to Machine.ResourceSer. | VDT_SERIALNUMBER Integer |

Table 4 Series(continued)

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------|
| RelatedCourseSer | Identifies the course to which this DICOM series is related. Can only be set if the SeriesType column is <i>Series</i> . Mutually exclusive with <i>RelatedPlanSetupSer</i> , <i>RelatedRadiationSer</i> , and <i>RelatedDiagnosisSer</i> . This is a Foreign key to Course.CourseSer | VDT_SERIALNUMBER Integer |
| RelatedPlanSetupSer | Identifies the plan to which this DICOM series is related. Can only be set if the SeriesType column is <i>Series</i> . Mutually exclusive with <i>RelatedCourseSer</i> , <i>RelatedRadiationSer</i> , and <i>RelatedDiagnosisSer</i> . This is a Foreign key to PlanSetup.PlanSetupSer. | VDT_SERIALNUMBER Integer |
| RelatedRadiationSer | Identifies the field to which this DICOM series is related. Can only be set if the SeriesType column is <i>Series</i> . Mutually exclusive with <i>RelatedCourseSer</i> , <i>RelatedPlanSetupSer</i> , and <i>RelatedDiagnosisSer</i> . This is a Foreign key to ExternalField.RadiationSer. | VDT_SERIALNUMBER Integer |
| RelatedDiagnosisSer | Identifies the diagnosis to which this DICOM series is related. Can only be set if the SeriesType column is <i>Series</i> . Mutually exclusive with <i>RelatedCourseSer</i> , <i>RelatedPlanSetupSer</i> , and <i>RelatedRadiationSer</i> . This is a Foreign key to Diagnosis.DiagnosisSer. | VDT_SERIALNUMBER Integer |

Slice

The *Slice* table stores various types of information regarding specific slices for individual patients.

Table 5 Slice

| Column Name | Description | Datatype |
|----------------------|---|-------------------------------|
| SliceSer (AK2) | Internal Identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| SeriesSer (FK) (IE1) | Reference to the Series to which this slice may belong. | VDT_SERIALNUMBER Integer |
| SliceUID (AK1) | Unique ID of a slice according to DICOM. | VDT_UID Varchar(64) |
| CreationDate | Date and time this instance was first entered into the system. | VDT_DATETIMESTAMP datetime |
| CreationUserName | User who first entered this instance into the system. | VDT_USERNAME Varchar(32) |
| SliceNumber | Ascendant number of the Slice within a set of slices, starting from 0 and provided by the acquisition system. For single slices it is 0. PortImage acquired during treatment this is the sequence number. | VDT_NUMBER Integer |
| Position | Position of Slice, along the normal axis of the Slice planes, in [mm]. | VDT_POSITION Float |
| FileName | The file name (including the network path or IMAGEDIR[n] variables) where the pixel values are stored. | VDT_FILENAME Varchar(254) |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|-------------------|---|--------------------------------------|
| SliceType | SliceType is the discriminator of the slice to the child table, which contains the type specific data. Current types are: <i>SliceRT</i> , <i>SliceMR</i> , and <i>SliceCT</i> . This field will be maintained internally by the database. | VDT_TABLENAME Varchar(30) |
| SliceModality | The modality of the slice. These values are to be compliant with the DICOM definition of modality. | VDT_MODALITY NOT NULL Varchar(16) |
| ResourceSer | Reference to the resource where this image was acquired (e.g. the PortImager for PV slices). This is not valid for imported images. | VDT_SERIALNUMBER NULL Integer |
| SliceFormat (AK2) | Format in which the pixel information of the slice is stored in the pixel-file. this information is evaluated when reading the binary data of the slice. Currently defined are: <ul style="list-style-type: none"> ■ <i>VARIAN_VA_INTERNAL_1.0</i> ■ <i>VARIAN_VA_INTERNAL_DYN_COMP_1.0</i>. Formats which should not occur in future releases are: <i>PV_3.5, PVcomp_3.5, CTOption, raw16, raw8.</i> | VDT_STRING32 Varchar(32) |
| HeaderSize | Number of bytes of the header in the image file. Header is everything that does not contain pixel values (to be skipped when reading the image). | VDT_HEADERSIZE Integer |
| SizeX | Number of pixel in X (normally horizontal) direction. | VDT_IMAGESIZE Integer |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|----------------|--|-----------------------------------|
| SizeY | Number of pixel in Y (normally vertical) direction. | VDT_IMAGESIZE Integer |
| AcqWindow | AcqWindow is a display parameter that stores the contrast for a particular slice at acquisition time. | VDT_WINDOWLEVEL Integer |
| AcqLevel | AcqLevel is a display parameter that stores the brightness for a particular slice at acquisition time. | VDT_WINDOWLEVEL Integer |
| ResolutionX | Resolution of pixel in X (normally horizontal) direction. Distance between 2 pixels in X-direction in mm. | VDT_RESOLUTION Float |
| ResolutionY | Resolution of pixel in Y (normally vertical) direction. Distance between 2 pixels in X-direction in mm. | VDT_RESOLUTION Float |
| CalibratedFlag | The Calibrated Flag is indicating, whether the Resolution X and Resolution Y do have valid values: <ul style="list-style-type: none">■ TRUE = Slice is calibrated and ResolutionX, Y are correct■ FALSE = Slice is not calibrated and Resolution X, Y are not valid | VDT_FLAG_FALSE_DEFAULT Integer |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|---------------------------|--|----------------------------------|
| PixelOffset | The Offset of the PixelValues, needed to calculate the Real World Value out of the VFC Value. The RealWorldValue is the one, delivered by the acquisition system originally. The formula is: $P <\text{VFC Value}> + <\text{Image Offset}> = <\text{Real World Value}>$. E.g. for PV, originally providing the range of (roughly) -32000 to +32000, this value is (roughly) -32000. | VDT_INT Integer |
| PixelSlope | PixelSlope together with PixelOffset give the formula to calculate the raw pixel data: $\text{RawPixelValue} = \text{VFCPixelValue} / \text{PixelSlope} - \text{PixelOffset}$. | VDT_FLOAT Float |
| Transformation | This is the transformation defining the position of the Slice within a Series. | VDT_TRANSFORMATION Binary(96) |
| SliceCharacteristics | This type is defined in DICOM and describes the image characteristics. Typical values would be <i>ORIGINAL</i> , <i>PRIMARY</i> , and <i>LOCALIZER</i> for CT images etc. | VDT_STRING254 Varchar(254) |
| PhotometricInterpretation | Photometric interpretation of the pixel values. Values are: <i>MONOCHROME1</i> (min. pixel value is displayed as white), <i>MONOCHROME2</i> (min. pixel values is displayed as black). | VDT_STRING16 Varchar(16) |
| BitsAllocated | Number of bits allocated for each pixel sample. | VDT_INT Integer |
| BitsStored | Number of bits stored for each pixel sample, i.e. total number of the allocated bits that are used to represent a pixel sample value. | VDT_INT Integer |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|------------------------|---|-----------------------------|
| CouchVrt | Position of couch vertically when the Slice has been acquired. | VDT_COUCHPARAM Float |
| CouchLng | Position of couch longitudinally when the Slice has been acquired. | VDT_COUCHPARAM Float |
| CouchLat | Position of couch laterally when the Slice has been acquired. | VDT_COUCHPARAM Float |
| PatientSupportAngle | Position of patient support angle (couch rotation) when the Slice has been acquired. | VDT_ANGLE Float |
| TableTopEccentricAngle | Table Top (non-isocentric) angle in degrees. | VDT_ANGLE Float |
| ConversionType | Type of conversion. Values are: <ul style="list-style-type: none"> ■ <i>Digital Interface (DI)</i> ■ <i>Digitized Video (DV)</i> ■ <i>Digitized Film (DF)</i> ■ <i>Workstation (WSD)</i> | VDT_STRING16 Varchar(16) |
| HighBit | Indicates the leading bit of the pixel value for DICOM data representation. | VDT_INT Integer |
| PixelIntensityRel | Identifies a relationship between the Pixel sample values and the X-Ray beam intensity. Values are: <ul style="list-style-type: none"> ■ False = linear ■ True = logarithmic | VDT_FLAG Integer |
| PixelIntensitySign | Denotes a positive sign of the relationship between the Pixel sample values stored and the X-Ray beam intensity (true), or a negative sign (false). | VDT_FLAG Integer |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|--------------------------|---|-----------------------------------|
| PatSupportPitchAngle | Table top pitch angle, the rotation of the IEC table top coordinate system (or table of chair) about the X-axis of the IEC table top coordinate system (in degrees). 0 degrees means no pitch; that is, a flat table or strictly upright chair. | VDT_ANGLE Float |
| PatSupportRollAngle | Table top roll angle, the rotation of the table top about the IEC Y-axis of the IEC table top coordinate system (in degrees). 0° means no roll; that is, a flat table or a strictly upright chair. | VDT_ANGLE Float |
| Thickness | The thickness of the slice in mm. | VDT_FLOAT Float |
| EquipmentSer (FK) | References the equipment that created this object. When objects are imported and the same equipment data record is found, this record shall be referenced. | VDT_SERIALNUMBER Integer |
| NumberOfFrames | Number of frames in a multi-frame image (0028,8). If image is not multi-frame, value is NULL. | VDT_INT Integer |
| DCTransferSyntaxSer (FK) | System-generated serial number that refers to the DICOM transfer syntax UID. | VDT_SERIALNUMBER Integer |
| IsLockedFlag (AK2) | Indicates whether leaves are locked. Values are: 1 = All leaves are locked, 0 = No leaves are locked. | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|--------------------------|---|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PixelRepresentation | Indicates whether pixel data is stored using unsigned (FALSE) or signed short (TRUE) in DICOM. | VDT_FLAG Integer |
| TransactionId | The transaction id when this record was created. This is used to permit modifications within the same transaction on child tables. | VDT_TOKEN Varchar(255) |
| ActualPatientWeight | Patient's weight, in kg, at the time this image was acquired, as received by DICOM. Corresponds to (0010,1030) in Study Module. | VDT_FLOAT Float |
| ActualPatientHeight | Patient's height, in meters, at the time this image was acquired, as received by DICOM Corresponds to (0010,1020) in Study Module. | VDT_FLOAT Float |
| ContributingEquipmentSer | Foreignkey referring to the original equipment which acquired this slice. Used for re-sampled images. | VDT_SERIALNUMBER Integer |
| SOPClassSer | Foreignkey to the DICOM SOP Class of the image IOD. | VDT_SERIALNUMBER Integer |
| AcquisitionDateTime | Date and time when the acquisition of image data began. | VDT_DATETIMESTAMP Datetime |

Table 5 Slice(continued)

| Column Name | Description | Datatype |
|---------------------|--|------------------------|
| IrradiationEventUID | UID identifying the event when the image was acquired and the patient received the image dose. Corresponds to DICOM Tag (0008,3010) in Sequence (0018,9477). | VDT_UID Varchar(64) |

SliceCT

The *SliceCT* table stores information regarding slice CT and which contains type specific data for slices for individual patients.

Table 6 SliceCT

| Column Name | Description | Datatype |
|------------------------|--|-----------------------------|
| SliceSer (FK) | Internal Identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| RescaleIntercept | The value b in relationship between stored values (SV) and Hounsfield Units (HU), $HU = m * SV + b$. | VDT_FLOAT Float |
| RescaleSlope | The value m in the equation specified by RescaleIntercept (use for Hounsfield calculation). | VDT_FLOAT Float |
| KVP | Peak kilo voltage output of the x-ray generator used. | VDT_FLOAT Float |
| AcquisitionNumber | A number identifying the single continuous gathering of data over a period of time which resulted in this image. | VDT_NUMBER Integer |
| ScanOptions | Parameters of scanning sequence. | VDT_STRING64 Varchar(64) |
| DataCollectionDiameter | The diameter in mm of the region over which data were collected. | VDT_FLOAT Float |
| ReconstructionDiameter | Diameter in mm of the region from within which data were used in creating the reconstruction of the image. Data may exist outside this region and portions of the patient may exist outside this region. | VDT_FLOAT Float |
| SourceDetectorDist | Distance in mm from the source to detector center. | VDT_FLOAT Float |
| SourcePatientDist | Distance in mm from source to isocenter (center of field of view). | VDT_FLOAT Float |

Table 6 SliceCT(continued)

| Column Name | Description | Datatype |
|-------------------|---|-----------------------------------|
| GantryTilt | Gantry tilt angle in degrees. Nominal angle of tilt in degrees of the scanning gantry. Not intended for mathematical computations. | VDT_FLOAT Float |
| RotationDirection | Direction of rotation of the source when relevant, about nearest principal axis of equipment. Valid values: CW (Clockwise), CC (Counter-Clockwise). | VDT_STRING16 Varchar(16) |
| ExposureTime | Time of x-ray exposure in msec. | VDT_INT Integer |
| XRayTubeCurrent | X-ray tube current in mA. | VDT_INT Integer |
| Exposure | The product of exposure time and X-Ray tube current expressed in mas. | VDT_INT Integer |
| FilterType | Label for the type of filter inserted into the x-ray beam. | VDT_STRING32 Varchar(32) |
| GeneratorPower | Power in kW to the x-ray generator. | VDT_INT Integer |
| FocalSpot | Size of the focal spot in mm. for devices with variable focal spot or multiple focal spots, small dimension followed by large dimension. | VDT_FLOAT Float |
| ConvolutionKernel | A label describing the convolution kernel or algorithm used to reconstruct the data. | VDT_STRING32 Varchar(32) |
| Mode | Name of calibration file which is used in the reconstruction of a CT Image from projection data. | VDT_CONFIGURATION Varchar(254) |
| Norm | Name of technique file which is used in the reconstruction of a CT Image from projection data. | VDT_CONFIGURATION Varchar(254) |

SliceMR

The *SliceMR* table stores information regarding slice MR and which contains type specific data for slices for individual patients.

Table 7 SliceMR

| Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| SliceSer (FK) | Internal Identification. This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| ScanningSequence | Description of the type of data taken. Values are: <ul style="list-style-type: none">■ <i>SE (Spin Echo),</i>■ <i>IR (Inversion Recovery),</i>■ <i>GR (gradient recalled),</i>■ eP (echo planar)■ RM (research mode) or combinations of these values. | VDT_STRING16 Varchar(16) |
| SequenceVariant | Variant of the scanning sequence. Defined terms are: <ul style="list-style-type: none">■ <i>SK (segmented k-space)</i>■ <i>SS (steady state),</i>■ <i>MTC (magnetization transfer contrast)</i>■ <i>TRSS (time reserved steady state)</i>■ <i>SP (spoiled),</i>■ <i>MP (MAG prepared),</i>■ <i>OSP (oversampling phase)</i>■ <i>NONE (no sequence variant).</i> | VDT_STRING16 Varchar(16) |

SliceRT

The *SliceRT* table stores information regarding slice RT and which contains type specific data for slices for individual patients.

Table 8 SliceRT

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| SliceSer (FK) | Internal identification. This is a serial number that acts as the Primary Key to the Table. Serial numbers are automatically generated by Database Stored Procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| DoubleExposureSer | Valid serial number: The image is the planned field image of a double exposure. The serial number refers to the open field image of the double exposure. NULL: This image does not belong to a double exposure. | VDT_SERIALNUMBER Integer |
| ReportedValuesOrigin | Describes the origin of the parameter values reported in the image. Required for Port and Simulator Images. Values can be: <ul style="list-style-type: none">■ <i>OPERATOR</i> (manually entered by operator),■ <i>PLAN</i> (planned parameter values)■ <i>ACTUAL</i> (electronically recorded). | VDT_STRING16 Varchar(16) |
| IDUPosLat | Field parameter when the image is taken. This is an actual value. (IEC61217, in cm) | VDT_POSITION Float |
| IDUPosLng | Field parameter when the image is taken. This is an actual value. (IEC61217, in cm) | VDT_POSITION Float |
| IDUSID | Field parameter when the image is taken. This is an actual value. (IEC61217, in cm) | VDT_POSITION Float |

Table 8 SliceRT(continued)

| Column Name | Description | Datatype |
|----------------------|---|-----------------------------------|
| IDURtn | Field parameter when the image is taken. This is an actual value. (IEC61217, in cm) | VDT_ANGLE Float |
| Energy | Energy when the image is taken. This is an actual value. | VDT_ENERGY Integer |
| SAD | Source to axis distance. | VDT_POSITION Float |
| PrimaryDosimeterUnit | Measurement unit of machine dosimeter. | VDT_STRING16 Varchar(16) |
| MetersetExposure | Treatment machine meterset duration over which image has been acquired, specified in MU or MINUTE as defined in attribute <i>PrimaryDosimeterUnit</i> . | VDT_FLOAT Float |
| ExposureTime | Time of x-ray exposure in msec. | VDT_INT Integer |
| CollX1 | Field parameter when the image is taken. This is an actual value, (IEC61217, in cm). | VDT_COLLPARAM Float |
| CollX2 | Field parameter when the image is taken. This is an actual value, (IEC61217, in cm). | VDT_COLLPARAM Float |
| CollY1 | Field parameter when the image is taken. This is an actual value, (IEC61217, in cm). | VDT_COLLPARAM Float |
| CollY2 | Field parameter when the image is taken. This is an actual value, (IEC61217, in cm). | VDT_COLLPARAM Float |
| SliceRTType | Type denoting the slice class: SlicePl, SliceSl, SliceDRR. | VDT_TABLENAME Varchar(30) |
| OpenField | Flag indicating whether the image has been taken with an open field (<i>TRUE</i> : OpenField; the DoubleExposureSer should be not defined, <i>FALSE</i> : not an OpenField). | VDT_FLAG_FALSE_DEFAULT Integer |

Table 8 SliceRT(continued)

| Column Name | Description | Datatype |
|-------------------------|---|-------------------------------|
| DoseRate | DoseRate when the image is taken. This is an actual value. | VDT_DOSERATE Integer |
| StartCumulativeMeterset | Relative value of the point in time, where the image acquisition was started. This value is between 0.0 and the Final Meterset Weight. As long as the Final Meterset Weight is not defined in non-dynamic fields, in this case 1.0 is assumed for Final Meterset Weight as it is also set on Export of such fields. | VDT_FLOAT Float |
| EndCumulativeMeterset | Relative value of the point in time where the image acquisition was ended. This value is between 0.0 and the Final Meterset Weight. As long as the Final Meterset Weight is not defined in non-dynamic fields, in this case 1.0 is assumed for Final Meterset Weight as it is also set on export of such fields. | VDT_FLOAT Float |
| AcqNote | Free text with some information on how the acquisition was done. E.g. describes whether a pixel correction was made or not. This means that pixels obviously out of range are leveled automatically. | VDT_STRING254 Varchar(254) |
| GantryAngle | Treatment machine gantry angle [degrees]. | VDT_ANGLE Float |
| CollRtn | Treatment machine collimator angle [degrees]. | VDT_ANGLE Float |
| BladeX1 | Blade X1 value when the image is taken (IEC1217, in cm.). Value is only filled-in with treatment simulators. | VDT_FLOAT Float |
| BladeX2 | Blade X2 value when the image is taken (IEC1217, in cm.). Value is only filled-in with treatment simulators. | VDT_FLOAT Float |

Table 8 SliceRT(continued)

| Column Name | Description | Datatype |
|------------------|--|-----------------------|
| BladeY1 | Blade Y1 value when the image is taken (IEC1217, in cm.). Value is only filled-in with treatment simulators. | VDT_FLOAT Float |
| BladeY2 | Blade Y2 value when the image is taken (IEC1217, in cm.). Value is only filled-in with treatment simulators. | VDT_FLOAT Float |
| IDUCorrectionLat | A correction to IDUPosLat, indicating a possible difference between the IDUPosLat and the real position of the image (IEC1217, in cm.). This difference may result from a correction algorithm. The formula is: $<\text{Real Position}> = <\text{IDUPosLat}> + <\text{IDUCorrectionLat}>$ | VDT_POSITION Float |
| IDUCorrectionLng | A correction to IDUPosLng, indicating a possible difference between the IDUPosLng and the real position of the image (IEC1217, in cm.). This difference may result from a correction algorithm. The formula is: $<\text{Real Position}> = <\text{IDUPosLng}> + <\text{IDUCorrectionLng}>$ | VDT_POSITION Float |
| XRayTubeCurrent | X-Ray tube current in mA. | VDT_INT Integer |
| RTImagePositionX | The x coordinate of the upper left hand corner (center of first pixel transmitted) of the image, in the IEC x-ray image receptor coordinate system (in mm). | VDT_POSITION Float |
| RTImagePositionY | The y coordinate of the upper left hand corner (center of first pixel transmitted) of the image, in the IEC X-ray image receptor coordinate system (in mm). | VDT_POSITION Float |

Table 8 SliceRT(continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------|
| OffPlaneAngle | Angle describing the rotation of the off-plane coordinate system around the positive X axis direction of the IEC gantry coordinate system. A positive angle corresponds to a clockwise rotation as viewed in the direction of the X axis. 0 degrees describes a radiation source on the Z axis of the IEC gantry system. | VDT_ANGLE Float |
| IsoCenterPositionX | Coordinate of isocenter in respect to the FOR of the RT image, in mm. | VDT_FLOAT Float |
| IsoCenterPositionY | Coordinate of isocenter in respect to the FOR of the RT image, in mm. | VDT_FLOAT Float |
| IsoCenterPositionZ | Coordinate of iso center in respect to the FOR of the RT image, in mm. | VDT_FLOAT Float |
| PrimaryFluenceModeId | The identifier of the PrimaryFluenceMode as defined by the delivery system. Typically this Id is the same as the AddOnId of the PrimaryFluenceMode as referenced by the field. If NULL, the image has been taken with the standard flattening filter. | VDT_ID Varchar(16) |
| RadiationSer | Internal Identification (Serial Number which is the Primary Key to the Table). | VDT_ID Varchar(16) |

Table 8 SliceRT(continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------------|
| PlanSetupSer | <p>Foreignkey of the plan setup with which this image is associated.</p> <p>Association may have one or both of the following meanings:</p> <ul style="list-style-type: none">■ A portal image acquired during treatment documenting the treatment of the beam. All RT Images with a 3rd Component PORTAL in the image type fall into this category.■ A potential reference image reference image. <p>All RT Images, which are NOT of type portal fall into this category.</p> <p>All portal images that have set the ReferenceImage fall into this category as well.</p> | VDT_SERIALNUMBER Integer |
| UpdateOnBeamChange | Specifies that this image was created by a Varian application and can be updated/replaced whenever the associated Beam is updated. | VDT_FLAG_FALSE_DEFAULT Integer |
| ReferenceImage | If TRUE, specifies that this is a candidate for a primary reference image or has previously been a primary reference image. | VDT_FLAG_FALSE_DEFAULT Integer |
| RadiationMachineName | The name of the radiation machine (the radiation therapy machine where the acquisition occurred, or the machine modeled, when calculating DRRs, if known). | VDT_IDT Varchar(16) |

Study

The *Study* table stores data relevant to a diagnostic imaging study. This data is mainly used in DICOM, where a study is referred to as an appointment in which the patient and the study may contain several Series of diagnostic images.

Table 9 Study

| Column Name | Description | Datatype |
|--------------------------------|---|----------------------------------|
| StudySer (IE3) | System generated serial number for a study. | VDT_SERIALNUMBER Integer |
| PatientSer (FK) (IE1) (IE3) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| StudyId (IE1) | External identification of the study. | VDT_ID Varchar(16) |
| StudyName | Name of the study. | VDT_NAME Varchar(64) |
| CreationDate | Date/time when the study was created. | VDT_DATETIMESTAMP Datetime |
| CreationUserName | Name of the user who created the study. | VDT_USERNAME Varchar(32) |
| ReferringPhysician Name | The patient's referring physician. | VDT_STRING64 Varchar(64) |
| StudyUID (AK1) | Unique identifier of the study according to DICOM. | VDT_UID Varchar(64) |
| AccessionNumber | A RIS generated number which identifies the order of the study. Some CT scanners show the number to the user, and the user may use this as a <i>study number</i> . Other scanners do not use this number at all, or use it in some other way. | VDT_STRING16 Varchar(16) |
| Comment | General comment about the study. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 9 Study(continued)

| Column Name | Description | Datatype |
|---------------------|---|-----------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| RelatedCourseSer | Identifies the course to which this study is logically related, if any. This is a Foreign key to Course.CourseSer Mutually exclusive with <i>RelatedDiagnosisSer</i> . | VDT_SERIALNUMBER Integer |
| RelatedDiagnosisSer | Identifies the diagnosis to which this study is logically related, if any. This is a Foreign key to Diagnosis.DiagnosisSer. Mutually exclusive with <i>RelatedCourseSer</i> . | VDT_SERIALNUMBER Integer |

Chapter 9 Schedule Zone Tables

The **Schedule** zone identifies the tables found in the light green colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

NonScheduledActivity

The *NonScheduledActivity* table stores information about tasks.

Table 119 NonScheduledActivity

| Column Name | Description | Datatype |
|--------------------------------|--|---------------------------------|
| NonScheduledActivitySer | Serial number that acts as the primary key to the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| NonScheduledActivityRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (FK) (IE1) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time <i>ActivityInstanceSer</i> is modified. | VDT_REVISIONCOUNT Integer |
| PatientSer (FK) | Serial number that acts as the primary key in the <i>Patient</i> table. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) | The serial number that identifies the user who created the nonscheduled activity. | VDT_SERIALNUMBER Integer |
| CreatedByUserName | Name of user created Task. | VDT_USERNAME Varchar(32) |
| CreationDate | Date and Time of creation Task. | VDT_DATETIMESTAMP Datetime |
| UID (AK1) | Unique identifier of the task. Currently is not used. | VDT_UID Varchar(64) |
| ObjectStatus | Indicates whether the Task is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| DueDateTime (IE3) | Due date and time of the task. This field may be NULL. | VDT_DATETIME Datetime |

Table 119 NonScheduledActivity(continued)

| Column Name | Description | Datatype |
|------------------------------|---|----------------------------------|
| NonScheduledActivityCode | Status of the non-scheduled activity. Possible values include: <ul style="list-style-type: none">■ <i>Cancelled</i>■ <i>Completed</i>■ <i>Open</i> | VDT_STRING64 Varchar(64) |
| Priority | This a text value that describes the priority of the activity. The values are: <ul style="list-style-type: none">■ <i>High</i>■ <i>Low</i>■ <i>Medium</i>■ <i>NULL</i> | VDT_STRING64 Varchar(64) |
| ActivityNote | A note to describe the details of the activity. | VDT_STRING254 Varchar(254) |
| RecurrenceRuleSer (FK) (IE2) | Serial number that acts as the primary key in the <i>RecurrenceRule</i> table. | VDT_SERIALNUMBER Integer |
| ReadByAppUserName | Username of approved person who read the activity note. | VDT_USERNAME Varchar(32) |
| ReadByDateTime | The date and time the note was read. | VDT_DATETIME Datetime |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| WorkFlowActiveFlag | Specifies whether an activity is considered Active. | VDT_FLAG_TRUE_DEFAULT Integer |

NonScheduledActivityMH

The *NonScheduledActivityMH* table stores the complete modification history of tasks.

Table 120 NonScheduledActivityMH

| Column Name | Description | Datatype |
|--------------------------------|--|---------------------------------|
| NonScheduledActivitySer (FK) | Serial number that acts as the primary key to the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| NonScheduledActivityRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (IE1) | Serial number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount (IE1) | Revision count. Incremented each time ActivityInstanceSer is modified. | VDT_REVISIONCOUNT Integer |
| PatientSer | Serial number that acts as the primary key in the <i>Patient</i> table. | VDT_SERIALNUMBER Integer |
| CreatedByResourceSer | The serial number that identifies the user who created the nonscheduled activity. | VDT_SERIALNUMBER Integer |
| CreatedByUserName | Name of user created Task. | VDT_USERNAME Varchar(32) |
| CreationDate | Date and Time of creation Task. | VDT_DATETIMESTAMP Datetime |
| UID | Unique identifier of the task. Currently is not used. | VDT_UID Varchar(64) |
| ObjectStatus | Indicates whether the Task is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| DueDateTime | Due date and time of the task. This field may be NULL. | VDT_DATETIME Datetime |

Table 120 NonScheduledActivityMH(continued)

| Column Name | Description | Datatype |
|--------------------------|---|----------------------------------|
| NonScheduledActivityCode | Status of the non-scheduled activity. Possible values include: <ul style="list-style-type: none">■ <i>Cancelled</i>■ <i>Completed</i>■ <i>Open</i> | VDT_STRING64 Varchar(64) |
| Priority | This a text that describes the priority of the activity. The values are: <ul style="list-style-type: none">■ <i>High</i>■ <i>Low</i>■ <i>Medium</i>■ <i>NULL</i> | VDT_STRING64 Varchar(64) |
| ActivityNote | A note to describe the details of the activity. | VDT_STRING254 Varchar(254) |
| RecurrenceRuleSer | Serial number that acts as the primary key in the <i>RecurrenceRule</i> table. | VDT_SERIALNUMBER Integer |
| ReadByAppUserName | Username of approved person who read the activity note. | VDT_USERNAME Varchar(32) |
| ReadByDateTime | The date and time the note was read. | VDT_DATETIME Datetime |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| WorkFlowActiveFlag | Specifies whether an activity is considered Active. | VDT_FLAG_TRUE_DEFAULT Integer |

PatientLocation

The *PatientLocation* table correlates patients and their hospitals.

Table 121 PatientLocation

| Column Name | Description | Datatype |
|------------------------------------|---|-----------------------------------|
| PatientLocationSer | Serial number that acts as the primary key to the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| PatientLocationRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ScheduledActivitySer (FK) (AK1) | Serial number that acts as the primary key in the <i>ScheduledActivity</i> table. | VDT_SERIALNUMBER Integer |
| ScheduledActivityRevCount | Revision count. Incremented each time this row is modified in the <i>ScheduledActivity</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| ResourceSer (FK) | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| CheckedInFlag | Indicates whether a patient is checked in or not. Values are: <ul style="list-style-type: none">■ 0 – Checked in■ 1 – Not checked in | VDT_FLAG_FALSE_DEFAULT Integer |
| ArrivalDateTime | Date and time of patient check in. | VDT_DATETIME Datetime |
| Comment | General comment. | VDT_STRING254 Varchar(254) |

Table 121 PatientLocation(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PatientLocationMH

The *PatientLocationMH* table correlates patients and their hospitals.

Table 122 PatientLocationMH

| Column Name | Description | Datatype |
|---------------------------------|--|-----------------------------------|
| PatientLocationSer (FK) | Serial number that acts as the primary key to the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| PatientLocationRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ScheduledActivitySer (IE1) | Serial number that acts as the primary key in the <i>ScheduledActivity</i> table. | VDT_SERIALNUMBER Integer |
| ScheduledActivityRevCount (IE1) | Revision count. Incremented each time this row is modified in the <i>ScheduledActivity</i> table. | VDT_REVISIONCOUNT Integer |
| ObjectStatus | Indicates whether the Activity is <i>Active</i> , <i>InActive</i> or <i>Deleted</i> | VDT_OBJECTSTATUS Varchar(16) |
| ResourceSer | Serial number that acts as the primary key in the <i>Resource</i> table. | VDT_SERIALNUMBER Integer |
| CheckedInFlag | Indicates whether a patient is checked in or not. Values are: <ul style="list-style-type: none">■ 0 – Checked in■ 1 – Not checked in | VDT_FLAG_FALSE_DEFAULT Integer |
| ArrivalDateTime | Date and time of patient check in. | VDT_DATETIME Datetime |
| Comment | General comment. | VDT_STRING254 Varchar(254) |

Table 122 PatientLocationMH(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row changes. | VDT_TASKNAME Varchar(32) |

ScheduleHoliday

The *ScheduleHoliday* table stores information scheduled holidays.

Table 123 ScheduleHoliday

| Column Name | Description | Datatype |
|-----------------------------|--|----------------------------------|
| HolidaySer | Serial number that acts as the primary key for the table. Serial numbers are automatically generated by database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) (AK1) | Serial number that acts as the primary key in the <i>Department</i> table. | VDT_SERIALNUMBER Integer |
| HolidayId (AK1) | The user provides these values. This is no longer a secondary key for the table. NULLs may be allowed in the future. | VDT_ID Varchar(16) |
| HolidayName | The name of the holiday. | VDT_STRING32 Varchar(32) |
| StartTime (IE1) | Indicates the date and time when the holiday begins. | VDT_DATETIME Datetime |
| EndTime | Indicates the date and time when the holiday ends. | VDT_DATETIME Datetime |
| RecurrenceRuleSer (FK) | This is a Serial Number that acts as the primary key in the <i>RecurrenceRule</i> table. | VDT_SERIALNUMBER Integer |
| HsptlBusShutdown | Indicates whether the hospital shuts down normal business operations for this holiday. Values are: <ul style="list-style-type: none">■ 0 – Indicates the hospital does not shut down normal business operations.■ 1 – Indicates the hospital shuts down normal business operations. | VDT_FLAG Integer |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 123 ScheduleHoliday(continued)

| Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ScheduledActivity

The *ScheduledActivity* table stores information for appointments that can utilize any or all (but at least one) of the following resources: *venue*, *patient*, *hospital*, *staff* or *machine*. The patient associated with the scheduled activity is stored in *PatientSer* and the associated department is in *DepartmentSer*.

Table 124 ScheduledActivity

| Column Name | Description | Datatype |
|--------------------------------|--|-------------------------------|
| ScheduledActivitySer | System generated serial number for a scheduled activity. | VDT_SERIALNUMBER Integer |
| ScheduledActivityRevCount | Revision count. Incremented each time this row is modified. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (FK) (IE5) | Serial Number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | Revision count. Incremented each time <i>ActivityInstanceSer</i> is modified. | VDT_REVISIONCOUNT Integer |
| PatientSer (FK) (IE8) | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| CreatedByResourceSer (FK) | Serial number of the resource that created the appointment. | VDT_SERIALNUMBER Integer |
| CreatedByName | Name of the user that created the appointment. | VDT_USERNAME Varchar(32) |
| CreationDate | Date and time of the creation of an Appointment. | VDT_DATETIMESTAMP Datetime |
| CreatedByHL7 | Identifies the original source that created the record. | VDT_USERNAME Varchar(32) |
| UID (AK1) | Unique identifier of an appointment but is not currently used. | VDT_UID Varchar(64) |
| ScheduledStartTime (IE1) (IE2) | Scheduled start time of appointment. | VDT_DATETIME Datetime |
| ScheduledEndTime (IE2) | Scheduled end time of appointment. | VDT_DATETIME Datetime |

Table 124 ScheduledActivity(continued)

| Column Name | Description | Datatype |
|------------------------------|---|---------------------------------------|
| ActualStartDate | Actual date and time that the activity started. | VDT_DATETIME Datetime |
| ActualEndDate | Actual date and time that the activity ended. | VDT_DATETIME Datetime |
| ObjectStatus (IE7) | Indicates whether the scheduled activity is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| ScheduledActivityCode (IE7) | A number that indicates the specific status of this activity. Values are: <ul style="list-style-type: none">■ Canceled■ Canceled – Patient No-Show■ Completed■ In Progress■ Manually Completed■ Open■ Patient On-Break■ Pt. ComplActive■ Pt. ComplFinish■ Reschedule Activity (In-Active) | VDT_STRING64 Varchar(64) |
| Priority | Text value entered to describe the priority of the activity. Values are: <ul style="list-style-type: none">■ <i>High</i>■ <i>Low</i>■ <i>Medium</i>■ <i>NULL</i>. | VDT_STRING64 Varchar(64) |
| WaitListedFlag (IE4) | A number that indicates appointment status. Values are: <ul style="list-style-type: none">■ 0 – Confirmed■ 1 – Tentative | VDT_FLAG_FALSE _DEFAULT Integer |
| ActivityNote | A note about the scheduled activity. | VDT_STRING254 Varchar(254) |
| RecurrenceRuleSer (FK) (IE6) | Serial number that acts as the primary key in the <i>RecurrenceRule</i> table. | VDT_SERIALNUMBER Integer |

Table 124 ScheduledActivity(continued)

| Column Name | Description | Datatype |
|--------------------|---|--------------------------------------|
| ReadByAppUserName | Username of the person who read the activity note. | VDT_USERNAME Varchar(32) |
| ReadByDateTime | The date and time of the activity note. | VDT_DATETIME Datetime |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PreMedication | The pre-medication needed to perform this activity. | VDT_STRING64 Varchar(64) |
| ContrastAgent | The contrast agent needed to perform this activity. | VDT_STRING64 Varchar(64) |
| WorkFlowActiveFlag | Specifies whether an activity is considered Active. | VDT_FLAG_TRUE_DEFAL LT Integer |

ScheduledActivityMH

The *ScheduledActivityMH* table stores complete modification history of all appointments.

Table 125 ScheduledActivityMH

| Column Name | Description | Datatype |
|--------------------------------|---|-------------------------------|
| ScheduledActivitySer (FK) | Serial number that acts as the primary key for the table. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ScheduledActivityRevCount | Revision count. Incremented each time this row is modified. Used as part of the composite primary key for this table. | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer (IE1) | Serial Number that acts as the primary key in the <i>ActivityInstance</i> table. | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount (IE1) | Revision count. Incremented each time <i>ActivityInstanceSer</i> is modified. | VDT_REVISIONCOUNT Integer |
| PatientSer | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| CreatedByResourceSer | Serial number of the resource that created the appointment. | VDT_SERIALNUMBER Integer |
| CreatedByUserName | Name of the user that created the appointment. | VDT_USERNAME Varchar(32) |
| CreationDate | Date and time of the creation of an Appointment. | VDT_DATETIMESTAMP Datetime |
| CreatedByHL7 | Identifies the original source that created the record. | VDT_USERNAME Varchar(32) |
| UID | Unique identifier of an appointment but is not currently used. | VDT_UID Varchar(64) |
| ScheduledStartTime | Scheduled start time of appointment. | VDT_DATETIME Datetime |
| ScheduledEndTime | Scheduled end time of appointment. | VDT_DATETIME Datetime |

Table 125 ScheduledActivityMH(continued)

| Column Name | Description | Datatype |
|-----------------------|---|---------------------------------------|
| ActualStartDate | Actual date and time that the activity started. | VDT_DATETIME Datetime |
| ActualEndDate | Actual date and time that the activity ended. | VDT_DATETIME Datetime |
| ObjectStatus | Indicates whether the scheduled activity is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| ScheduledActivityCode | A number that indicates the specific status of this activity. Values are: <ul style="list-style-type: none">■ Canceled■ Canceled – Patient No-Show■ Completed■ In Progress■ Manually Completed■ Open■ Patient On-Break■ Pt. ComplActive■ Pt. ComplFinish■ Reschedule Activity (In-Active) | VDT_STRING64 Varchar(64) |
| Priority | Text value entered to describe the priority of the activity. Values are: <ul style="list-style-type: none">■ <i>High</i>■ <i>Low</i>■ <i>Medium</i>■ <i>NULL</i>. | VDT_STRING64 Varchar(64) |
| WaitListedFlag | A number that indicates appointment status. Values are: <ul style="list-style-type: none">■ 0 – Confirmed■ 1 – Tentative | VDT_FLAG_FALSE _DEFAULT Integer |
| ActivityNote | A note about the scheduled activity. | VDT_STRING254 Varchar(254) |
| RecurrenceRuleSer | Serial number that acts as the primary key in the RecurrenceRule table. | VDT_SERIALNUMBER Integer |

Table 125 ScheduledActivityMH(continued)

| Column Name | Description | Datatype |
|--------------------|---|-----------------------------------|
| ReadByAppUserName | Username of the person who read the activity note. | VDT_USERNAME Varchar(32) |
| ReadByDateTime | The date and time of the activity note. | VDT_DATETIME Datetime |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PreMedication | The pre-medication needed to perform this activity. | VDT_STRING64 Varchar(64) |
| ContrastAgents | The contrast agent needed to perform this activity. | VDT_STRING64 Varchar(64) |
| WorkFlowActiveFlag | Specifies whether an activity is considered Active. | VDT_FLAG_TRUE_DEFALULT Integer |

Chapter 10 System Zone Tables

The **System** zone identifies the tables found in the dark purple colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

AppUser

The *AppUser* table stores the list of users created in *Data Administration* and identifies the group to which the user belongs.

Table 126 AppUser

| Column Name | Description | Datatype |
|---------------------------|--|----------------------------------|
| AppUserSer | System generated serial number for a user. | VDT_SERIALNUMBER Integer |
| UserCUID (AK2) | Unique constant User ID | VDT_UID Varchar(64) |
| UserId (AK1) | External identification of the user. This attribute is mirrored from OSP. | VDT_ID Varchar(16) |
| ResourceSer (FK) (IE1) | Serial number for auxiliary equipment. | VDT_SERIALNUMBER Integer |
| LanguageId (FK) | External identification of the language used by the user. IDs are defined in “Developing International Software for MS Windows,” Appendix X. Examples are ENU, FRA, and DEU. | VDT_ID Varchar(16) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ConfigurationItem

The *ConfigurationItem* table stores the application and system-defined default values and flags. The *ConfigValue* column contains the value for each configuration item stored in ConfigurationItemId.

Configuration items include dose units, MLC initialization parameters, system parameters, and many more items. Each configuration item belongs to a specific configuration set. See “*ConfigurationSet*” on page 341 for information on these sets.

Table 127 ConfigurationItem

| Column Name | Description | Datatype |
|---------------------------|---|----------------------------------|
| ConfigurationSetSer (FK) | System generated serial number for a configuration set. Used as part of the composite primary key for this table. | VDT_SERIALNUMBER Integer |
| ConfigurationItemId (IE1) | ID of configuration item. Used as part of the composite primary key for this table. | VDT_ID Varchar(16) |
| SettingXML | The configuration setting information in XML format. | VDT_TEXT16K Text |
| SettingXMLLen | Length of the SettingXML attribute in bytes. | VDT_INT Integer |
| ConfigValue | Value of the configuration parameter. | VDT_STRING254 Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

ConfigurationSet

The *ConfigurationSet* table stores information regarding the various sets of data used to configure ARIA modules or treatment.

Configuration sets include system configuration parameters, MLC parameters, application defaults, and settings, among others. See “[“ConfigurationItem” on page 340](#) for information regarding the individual configuration items that belong to each configuration set.

Table 128 ConfigurationSet

| Column Name | Description | Datatype |
|--------------------------|--|----------------------------------|
| ConfigurationSetSer | System generated serial number for a configuration set. | VDT_SERIALNUMBER Integer |
| DepartmentSer (FK) (IE2) | System generated serial number for a department. | VDT_SERIALNUMBER Integer |
| AppUserSer (FK) (IE3) | System generated serial number for an app user. | VDT_SERIALNUMBER Integer |
| ConfigurationSetId (IE1) | External ID for a configuration set. | VDT_ID Varchar(16) |
| UserOverrideFlag | Indicates whether the set can be overridden by the user. Values are: <ul style="list-style-type: none">■ 0 – No■ 1 – Yes | VDT_FLAG_TRUE_DEFAULT Integer |
| EditFlag | Indicates whether the configuration set can be edited. Values are: <ul style="list-style-type: none">■ 0 – No, configuration set cannot be edited.■ 1 – Yes, configuration set can be edited. | VDT_FLAG_TRUE_DEFAULT Integer |
| Comment | General note about the configuration set. | VDT_COMMENT Varchar(254) |
| HstryUserName | UserName of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |

Table 128 ConfigurationSet(continued)

| Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

LanguageLookup

The *LanguageLookup* table provides information on the languages available for use with ARIA in the user's Windows environment.

Table 129 LanguageLookup

| Column Name | Description | Datatype |
|----------------|--|----------------------------------|
| LanguageId | External identification of the language used by the user. IDs are defined in <i>Developing International Software for MS Windows, Appendix X</i> . Examples are <i>ENU</i> , <i>FRA</i> , and <i>DEU</i> . | VDT_ID Varchar(16) |
| LanguageName | Name of the language corresponding to the LanguageId. Typical values are: <ul style="list-style-type: none">■ <i>English</i> (American)■ <i>French</i> (Standard)■ <i>German</i> (Swiss) | VDT_NAME Varchar(64) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

LookupTable

The *LookupTable* table provides lists for many different pieces of information in the Varian system database. Lists of data entered in ARIA using the *Data Administration* module are stored in the *LookupTable*.

Table 130 LookupTable

| Column Name | Description | Datatype |
|-----------------------------|--|-----------------------------|
| LookupTableSer | System generated serial number for a lookup table. | VDT_SERIALNUMBER Integer |
| ListSelector (IE1) (AK1) | Identifier for the lookup list. | VDT_STRING32 Varchar(32) |
| SubSelector (AK1) | Selector for a subset of a lookup list (serial number). | VDT_SERIALNUMBER Integer |
| LanguageId (FK) (IE1) (AK1) | External identification of the language used by the user. IDs are defined in <i>Developing International Software for MS Windows, Appendix X</i> . Typical values are: <ul style="list-style-type: none">■ ENU■ FRA■ DEU | VDT_ID Varchar(16) |
| LookupValue (AK1) | Value to look up in the lookup table. | VDT_STRING64 Varchar(64) |
| Expression1 | First expression that corresponds to LookupValue. Can be shown in the user's language. | VDT_STRING64 Varchar(64) |
| Expression2 | Second expression that corresponds to LookupValue. | VDT_STRING64 Varchar(64) |
| Expression3 | Third expression that corresponds to LookupValue. | VDT_STRING64 Varchar(64) |
| EditFlag | Indicates if this lookup table can be edited by users. This attribute is per table, but is multiplied for each entry of a lookup table. Values are: <ul style="list-style-type: none">■ 0 – Static data■ 1 – Editable by user | VDT_FLAG Integer |

Table 130 LookupTable(continued)

| Column Name | Description | Datatype |
|----------------|--|-----------------------------------|
| DefaultFlag | Indicates the default entry in a lookup table. Values are: <ul style="list-style-type: none">■ 0 – Not default■ 1 – Default value (one per lookup list) | VDT_FLAG_FALSE_DEFAULT Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Chapter 11 Brachytherapy Zone Tables

The **Brachytherapy** zone identifies the tables found in the dark green colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

BrachyApplicator

The *BrachyApplicator* table stores information about applicators used in brachytherapy treatment.

Table 131 BrachyApplicator

| Column Name | Description | Datatype |
|--------------------------|---|-------------------------------|
| BrachyApplicatorSer | System generated serial number for a brachy applicator. | VDT_SERIALNUMBER Integer |
| BrachyApplicatorId (AK1) | External ID of the brachy applicator. | VDT_ID Varchar(16) |
| BrachyApplicatorName | Name of brachy applicator. | VDT_NAME Varchar(64) |
| BrachyApplicatorTypeInfo | Applicator type. Values can be: <ul style="list-style-type: none">■ FLEXIBLE■ RIGID■ TEMPLATE | VDT_STRING16 Varchar(16) |
| DefaultLength | Distance between applicator connector and distal-most position of source. | VDT_FLOAT Float |
| ManufacturerName | Manufacturer of applicator. | VDT_STRING254 Varchar(254) |
| NoOfShapePoints | Number of shape points. | VDT_INT Integer |
| Shape | Shape. | VDT_CONTOURPOINTS Image |
| NoOfSourceGeom | Number of sources. | VDT_INT Integer |
| SourceGeometry | Each entry consists of a label (max. 20 characters) of the source position or needle, and a pair of start and end point coordinates of potential source or needle position. | Image |
| WallMaterialId | External ID of the wall material. | VDT_STRING16 Varchar(16) |

Table 131 BrachyApplicator(continued)

| Column Name | Description | Datatype |
|-------------------------|---|-----------------------------------|
| WallNominalTransmission | Nominal transmission through source applicator wall. | VDT_FLOAT Float |
| Comment | General note about this brachy applicator. | VDT_COMMENT Varchar(254) |
| StepSize | Default step size. | VDT_FLOAT Float |
| FirstSourcePosition | Default start position of sources. | VDT_FLOAT Float |
| LastSourcePosition | Default last position of sources. | VDT_FLOAT Float |
| SeparateSources | Specifies whether the applicator is allowed to have source positions with varying strengths | VDT_FLAG_FALSE_DEFAULT Integer |
| DefaultChannelNumber | Default channel number. | VDT_INT Integer |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

BrachyUnit

The *BrachyUnit* table stores information about the unit used in brachytherapy treatment.

Table 132 BrachyUnit

| Column Name | Description | Datatype |
|--------------------------|---|-----------------------------|
| ResourceSer (FK) | System generated serial number for a brachy field. | VDT_SERIALNUMBER Integer |
| MaxDwellTimePerChannel | Maximum time for all dwell positions in one channel, in seconds. | VDT_FLOAT Float |
| MaxDwellTimePerPos | Maximum time for one dwell position, in seconds. | VDT_FLOAT Float |
| MaxDwellTimePerTreatment | Maximum time for all dwell positions for treatment, in seconds. | VDT_FLOAT Float |
| TimeResolution | Time resolution of machine, such as 0.1 seconds. | VDT_FLOAT Float |
| SourceMovementType | Type of source movement. Values are: <ul style="list-style-type: none">■ <i>FIXED</i>■ <i>OSCILLATING</i>■ <i>STEPWISE</i>■ <i>UNIDIRECTIONAL</i> | VDT_STRING16 Varchar(16) |
| MinStepSize | Minimum distance between two consecutive dwell positions. | VDT_FLOAT Float |
| MaxStepSize | Maximum distance between two consecutive dwell positions. | VDT_FLOAT Float |
| NumOfDwellPosPerChannel | Maximum number of dwell positions in channel (usually same for all channels). | VDT_INT Integer |
| StepSizeResolution | Resolution of step size, such as 0.25 cm. | VDT_FLOAT Float |

Table 132 BrachyUnit(continued)

| Column Name | Description | Datatype |
|---------------------|--|-------------------------------|
| PosToSourceDist | Distance from dwell position to center of source. For example, the dwell position is determined by the tip of the wire, which is 6 mm from the center of the source. | VDT_FLOAT Float |
| DoseRateMode | Mode for dose rate. Values are: <ul style="list-style-type: none">■ <i>HDR</i>■ <i>LDR</i>■ <i>MDR</i>■ <i>PDR</i> | VDT_STRING16 Varchar(16) |
| ExportDirectory | The directory to export the plan for treatment. | VDT_STRING254 Varchar(254) |
| ExportPostProcessor | External program to invoke after exporting the plan to the treatment unit. This is used to automate user workflow when the treatment unit type is non-Varian. | VDT_STRING254 Varchar(254) |

Channel

The *Channel* table stores information about channels used in brachytherapy treatment.

Table 133 Channel

| Column Name | Description | Datatype |
|------------------|--|----------------------------------|
| ChannelSer | System generated serial number for a channel. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) | System generated serial number for the brachy unit for this channel. | VDT_SERIALNUMBER Integer |
| ChannelId | External ID of a channel. | VDT_ID Varchar(16) |
| ChannelName | Channel name. | VDT_NAME Varchar(64) |
| ChannelNumber | Channel number. | VDT_NUMBER Integer |
| MinLength | Minimum value for a dwell position (usually same for all channels). | VDT_FLOAT Float |
| MaxLength | Maximum value for a dwell position (usually same for all channels). | VDT_FLOAT Float |
| Comment | General note about a channel. | VDT_COMMENT Varchar(254) |
| HstryUserName | User Name of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was changed. | VDT_TASKNAME Varchar(32) |

RadioactiveSource

The *RadioactiveSource* table stores information regarding radioactive sources used in brachytherapy.

Table 134 RadioactiveSource

| Column Name | Description | Datatype |
|--------------------------------|--|-------------------------------------|
| RadioactiveSourceSer | System generated serial number for a radioactive source. | VDT_SERIALNUMBER Integer |
| RadioactiveSourceModelSer (FK) | System generated serial number for a radioactive source model. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) | System generated serial number for a radiation device. | VDT_SERIALNUMBER Integer |
| RadioactiveSourceId | External identification of the radioactive source. | VDT_ID Varchar(16) |
| RadioactiveSourceName | Name of the radioactive source. | VDT_NAME Varchar(64) |
| SourceNumber | Identification number of the radioactive source. | VDT_NUMBER Integer |
| SourceSerialNo | Serial number provided by the manufacturer for the radioactive source. | VDT_MANUFACTSERIALNO Varchar(64) |
| SourceStrength | Source strength, in units of air kerma (cGy cm ² /h). | VDT_FLOAT Float |
| CalibrationDate | Date and time of the activity measurement. | VDT_DATETIME Datetime |
| Comment | General note about the radioactive source. | VDT_COMMENT Varchar(254) |
| ObjectStatus | Used to denote whether the object is in Active, Inactive, or Dummy state. Only objects with Dummy status can be deleted. | VDT_OBJECTSTATUS Varchar(16) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 134 RadioactiveSource(continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

RadioactiveSourceModel

The *RadioactiveSourceModel* table stores information about various radioactive source models.

Table 135 RadioactiveSourceModel

| Column Name | Description | Datatype |
|----------------------------|---|-------------------------------|
| RadioactiveSourceModelSer | System generated serial number for a radioactive source model. | VDT_SERIALNUMBER Integer |
| RadioactiveSourceModelId | Serial number for a radioactive source model. | VDT_ID Varchar(16) |
| RadioactiveSourceModelName | Name of the radioactive source model. | VDT_NAME Varchar(64) |
| RadioIsotopType | Type of radioactive isotope, such as Ir-192. | VDT_STRING64 Varchar(64) |
| HalfTime | The half-life of the radioisotope, in seconds. | VDT_FLOAT Float |
| ManufacturerName | Name of the manufacturer of the radioactive source. | VDT_STRING64 Varchar(64) |
| SourceType | Type of source. Values are: <ul style="list-style-type: none">■ CYLINDER■ LINE■ POINT■ SPHERE | VDT_STRING16 Varchar(16) |
| ActivityConversionFact | Conversion factor from air kerma strength to activity Bq (=1/s) (specific for each radio isotope and source construction). | VDT_FLOAT Float |
| DoseRateConstant | Conversion factor from air kerma to dose in tissue. | VDT_FLOAT Float |
| ActiveSize | Dimensions (x, y, z) of the active source. | VDT_TRIPLEFLOAT Binary(24) |
| TotalSize | Dimensions (x, y, z) of the source, including the encapsulation. | VDT_TRIPLEFLOAT Binary(24) |

Table 135 RadioactiveSourceModel(continued)

| Column Name | Description | Datatype |
|---------------------------|---|----------------------------------|
| AnisotropyTable | File name of the anisotropy table. | VDT_FILENAME Varchar(254) |
| DoseCalcModel | Specifies dose calculation model. Values are: <ul style="list-style-type: none">■ <i>3D lookup</i>■ <i>External cobalt beam</i>■ <i>Linear source</i>■ <i>Point source</i> | VDT_STRING16 Varchar(16) |
| RadDoseFunctionType | Type of radial dose function. Values are: <ul style="list-style-type: none">■ <i>POLYNOME</i>■ <i>TABLE_OF_VALUES</i>■ <i>VAN_KLEFFENS</i> | VDT_STRING32 Varchar(32) |
| RadDoseFunctionNoOfValues | Number of values used to describe the dose function. Maximum number of values is 30. | VDT_INT Integer |
| RadDoseFunctionValuesX | Coefficients of the polynome or r g(r) value pairs, depending on type. | VDT_FLOAT30 Varbinary(240) |
| RadDoseFunctionValuesY | Coefficients of the polynome or r g(r) value pairs, depending on type. | VDT_FLOAT30 Varbinary (240) |
| Comment | General note about the radioactive source model. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

SourcePosition

The *SourcePosition* table stores information about the position of the radioactive source.

Table 136 SourcePosition

| Column Name | Description | Datatype |
|---------------------------------------|---|----------------------------------|
| SourcePositionSer | System generated serial number for a source position. | VDT_SERIALNUMBER Integer |
| RadioactiveSourceSer (FK) (IE1) (IE2) | System generated serial number for a radioactive source. | VDT_SERIALNUMBER Integer |
| RadiationSer (FK) (IE1) | System generated serial number for a field. | VDT_SERIALNUMBER Integer |
| SourcePositionId | External identification of the source position. | VDT_ID Varchar(16) |
| SourcePositionName | Name of the source position | VDT_NAME Varchar(64) |
| DwellPosition | Distance from treatment machine (along shape of applicator) for this dwell position, in mm. | VDT_FLOAT Float |
| DwellTime | Irradiation time of the dwell position, in seconds. | VDT_FLOAT Float |
| StructureSer | System generated serial number for a structure. | VDT_SERIALNUMBER Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Table 136 SourcePosition(continued)

| Column Name | Description | Datatype |
|---------------------|---|---------------------------------------|
| DwellTimeLockedFlag | <p>Identifies if the dwell time of this dwell position is locked.</p> <ul style="list-style-type: none">■ 1 = locked; it is not allowed to change the dwell time■ 0 = unlocked, it is allowed to change the dwell time | VDT_FLAG_FALSE_DEFAL LT Integer |
| DwellTimeMaxLimit | Identifies the maximum dwell time limit in relative seconds that this dwell position can have. Relative dwell time maps to one second when plan normalization is 100%, treatment percentage is 100% and prescribed dose is 1 Gy. | VDT_FLOAT Float |
| DwellTimeMinLimit | Identifies the minimum dwell time limit in relative seconds that this dwell position can have. Relative dwell time maps to one second when plan normalization is 100%, treatment percentage is 100%, and prescribed dose is 1 Gy. | VDT_FLOAT Float |

Chapter 12 Machine Zone Tables

The **Machine** zone identifies the tables found in the pink colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each table found in the Varian system database.

Columns are listed in the order in which they appear in each table in the database: primary key (one or more column names), followed by all columns. Key columns are indicated as follows:

- Primary keys, such as *PatientSer*, are shown in italics.
- Foreign keys (FK) are shown after a data column name. If a foreign key is also a primary key (or part of a composite primary key), it is shown in italics (with FK), such as *PatientSer (FK)*.
- Alternate keys are shown with AK in the name. Columns marked with (AK) indicate that this column, along with the Primary key, form a unique combination of values.
- Inversion entry attributes are designated by an (IEn) following the attribute name. There may be several inversion entries for an entity.
- Composite primary keys are italicized and reside together at the top of the table description.

The primary key for each table is shown in the top (boxed) portion of a table on the *ARIA Reports Schema* poster.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | “Tables, Views, and Stored Procedures” on page 615 |
| View list of all columns in a table | Appendix B | “Tables and Columns” on page 617 |
| View list of all columns in a view | Appendix C | “Views and Columns” on page 643 |
| View list of all columns in a stored procedure | Appendix D | “Stored Procedures and Columns” on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> poster |

EnergyMode

The *EnergyMode* table stores information regarding energy and mode combinations for an external beam accelerator.

Table 138 EnergyMode

| Column Name | Description | Datatype |
|---------------------------|--|-----------------------------------|
| EnergyModeSer | System generated serial number for an energy mode. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (AK1) | System generated serial number for an external beam accelerator. | VDT_SERIALNUMBER Integer |
| RadiationType (AK1) | Type of energy applied. Values are: <ul style="list-style-type: none">■ E (Electron)■ X (Photon)■ P (Proton) | VDT_ENERGYMODE Varchar(16) |
| Energy (AK1) | Nominal energy value in MeV, such as 12 or 20. | VDT_ENERGY Integer |
| MaxEnergy | The maximum energy measured in MeV (Proton specific). | VDT_ENERGY Integer |
| ObjectStatus | Indicates whether the energy and mode combination on the machine is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| MinDoseRate | Minimum dose rate applied with this EnergyMode combination. | VDT_DOSERATE Integer |
| MaxDoseRate | Maximum dose rate applied with this EnergyMode combination. | VDT_DOSERATE Integer |
| DefaultFlag | Specifies whether this EnergyMode combination is the default value that is used on this machine. Values are: <ul style="list-style-type: none">■ 0 – This EnergyMode combination is not the default used on this machine.■ 1 – This EnergyMode combination is the default used on this machine. | VDT_FLAG_FALSE_DEFAULT Integer |

Table 138 EnergyMode(continued)

| Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| DisplayCode | The user-visible codes that are presented in lookup tables or selection lists. | VDT_DISPLAYCODE Varchar(32) |
| InternalCode | Machine internal code as defined by the machine interface. Not all machine interfaces use codes. Some use the values of Energy and Mode directly. | VDT_INTERNALCODE Integer |
| LevelCode | Encoding of energy levels to allow comparison of EnergyModes over different types of machines. For example, if LevelCode = 1, it represents the lowest possible energy level. | VDT_INT Integer |
| Comment | General comment about the EnergyMode. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

ExternalBeam

The *ExternalBeam* table stores identification and measurement information about external beam linear accelerators.

Table 139 ExternalBeam

| Column Name | Description | Datatype |
|--------------------|--|-----------------------------------|
| ResourceSer (FK) | Serial number for an external beam. | VDT_SERIALNUMBER Integer |
| ExternalBeamType | Type of external beam. | VDT_TABLENAME Varchar(30) |
| CobaltFlag | Indicates whether this external beam unit is a Cobalt or a Linear Accelerator. Values are: 0 – Linear accelerator 1 – Cobalt | VDT_FLAG_FALSE_DEFAULT Integer |
| BeamAngle | Beam angle. | VDT_ANGLE Float |
| StopAngle | Gantry rotation stop angle in Arc therapy. The start angle is GantryRtn in a normal field. | VDT_ANGLE Float |
| CollMode | Defines whether a linear accelerator has asymmetrical jaws. Possible values are: <ul style="list-style-type: none">■ <i>AsymmetryX</i>■ <i>AsymmetryY</i>■ <i>AsymmetryX&Y</i>■ <i>Symmetry</i> | VDT_COLLMODE Varchar(16) |
| SAD | Source axis distance. | VDT_DISTANCE Float |
| SPD | Source phantom distance. | VDT_DISTANCE Float |
| PFDefaultEnergySer | Serial number for the port film default energy. | VDT_SERIALNUMBER Integer |

Table 139 ExternalBeam(continued)

| Column Name | Description | Datatype |
|---------------------------|---|-----------------------------------|
| PFMaxMuAllow | Maximum port film MUs allowed. | VDT_MU Integer |
| FixedBeamFlag | Flag that indicates whether the beam line is fixed or variable. Values are: <ul style="list-style-type: none">■ FALSE = Proton machine has a gantry■ TRUE = Proton machine has a fixed beam line | VDT_FLAG_FALSE_DEFAULT Integer |
| ImagerAutoCorrFlag | Flag to determine whether modules must automatically adjust imager position for MV images to correct for mechanical tolerances of the imager arms. Values are: <ul style="list-style-type: none">■ TRUE for R-Arms■ FALSE for Exact-Arms | VDT_FLAG_FALSE_DEFAULT Integer |
| ImagerAutoCorrTolerance | Maximum error distance (millimeters) that can be corrected by automatic correction of imager position. Larger errors must be corrected by manual adjustment of imager position. | VDT_FLOAT Float |
| UserPreselectableBeamLine | Flag that indicates whether the beam line can be modified by the user, a machine- dependent setting. | VDT_FLAG_FALSE_DEFAULT Integer |
| DefPortalImagingEnergySer | | VDT_SERIALNUMBER Integer |
| LowPortalImagingEnergySer | The low energy to be used for portal imaging. | VDT_SERIALNUMBER Integer |

Table 139 ExternalBeam(continued)

| Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| ConeBeamEnergySer | The energy to be used for MV CBCT imaging. | VDT_SERIALNUMBER Integer |
| PrimaryDosimeterUnit | Identifies the primary dosimeter unit of the treatment device. Values are: <ul style="list-style-type: none">■ MU■ MINUTE■ NP■ SECOND | VDT_ID Varchar(16) |
| ShutterError | Indicates shutter error of a cobalt unit in seconds. | VDT_FLOAT Float |

ImagingDevice

The *ImagingDevice* table stores information about various imaging devices. These devices include CT simulation and scanning devices, and portal and simulation imagers.

Table 140 ImagingDevice

| Column Name | Description | Datatype |
|-------------------------|--|---------------------------------------|
| ResourceSer (FK) | System generated serial number for an imaging device. | VDT_SERIALNUMBER Integer |
| ImagingDeviceType (IE1) | Type of imaging device. Values are: <ul style="list-style-type: none">■ <i>CTSimulator</i>■ <i>CTScanner</i>■ <i>LocalizationJig</i>■ <i>PortImager</i>■ <i>SimulationImager</i> | VDT_TABLENAME Varchar(30) |
| ImageModality | Modality of images. | VDT_MODALITY Varchar(16) |
| Comment | General note about an imaging device setup. | VDT_COMMENT Varchar(254) |
| ConeBeamFlag | Defined, whether the imager is capable of cone beam acquisition (<i>true</i>) or not (<i>false</i>). | VDT_FLAG_FALSE_ DEFAULT Integer |

Machine

The *Machine* table stores information about a device that is used in the treatment of a patient. A machine is either a Clinac accelerator or Ximatron simulator. It does not include auxiliary equipment, which is included in the *Auxiliary* table.

Table 141 Machine

| Column Name | Description | Datatype |
|------------------------------|--|------------------------------|
| ResourceSer (FK) | System generated serial number for a machine. | VDT_SERIALNUMBER Integer |
| WorkstationSer (FK) (IE1) | System generated serial number for a workstation. | VDT_SERIALNUMBER Integer |
| MachineId (AK1) | Unique machine ID assigned by the user. | VDT_ID Varchar(16) |
| MachineName | Name of a machine. | VDT_NAME Varchar(64) |
| MachineType | Type of machine from a specific manufacturer. Typical values are: <ul style="list-style-type: none">■ <i>Clinac</i>■ <i>Simulator</i> | VDT_TABLENAME Varchar(30) |
| MachineModel | Model of a machine. The models typically identify the machine type and manufacturer (in LookupTable). Typical values are: <ul style="list-style-type: none">■ <i>ABB Dynaray</i>■ <i>Philips SL75</i>■ <i>Siemens MC6300</i>■ <i>Varian0</i>■ <i>Varian0</i>■ <i>Varian0C</i>■ <i>Varian0C</i>■ <i>Varian CL18</i> | VDT_STRING64 Varchar(64) |

Table 141 Machine(continued)

| Column Name | Description | Datatype |
|------------------|---|---|
| MachineInterface | Interface that connects a machine with the environment (in <i>LookupTable</i>). Values are: <ul style="list-style-type: none">■ <i>ABB Dynalink</i>■ <i>Other</i>■ <i>Omnitron</i>■ <i>Philips ECI</i>■ <i>Philips SDE</i>■ <i>Siemens DMS SIF</i>■ <i>Varian CCX</i>■ <i>Varian CSSI</i>■ <i>Varian Logos</i>■ <i>VariSource</i>■ <i>XimServer</i> | VDT_STRING64 Varchar(64) |
| MachineScale | Scale convention that determines the range of mechanical parameters with which the machine works (in <i>LookupTable</i>). Typical values are: <ul style="list-style-type: none">■ <i>IEC61217</i>■ <i>VAR</i>■ <i>VAR_IEC</i> | VDT_SCALE Varchar(16) |
| ManufacturerName | Manufacturer of this machine. | VDT_STRING254 Varchar(254) |
| MachineSerialNo | Serial number (provided by manufacturer) that uniquely identifies this machine. | VDT_ MANUFACTSERIALNO Varchar(64) |
| ServiceContact | Name of company or person who provides service for this machine. | VDT_STRING128 Varchar(128) |
| DateInstalled | Date when this machine was installed. | VDT_DATETIME Datetime |
| DateLastService | Last date when this machine was serviced. | VDT_DATETIME Datetime |
| DateNextService | Next date when this machine should be serviced. | VDT_DATETIME Datetime |

Table 141 Machine(continued)

| Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| OperationStatus | Indicates the operational status of the machine. Typical values are: <ul style="list-style-type: none">■ <i>Disabled</i>■ <i>Down</i>■ <i>OnService</i>■ <i>Ready</i> | VDT_STATUS32 Varchar(32) |
| SoftwareVersion | Version of the installed software on this machine. | VDT_STRING32 Varchar(32) |
| HardwareVersion | Version of the hardware. | VDT_STRING32 Varchar(32) |
| Description | General note about this machine. | VDT_DESCRIPTION Varchar(64) |

OperatingLimit

The *OperatingLimit* table stores information about limits of operation for a radiation device.

Table 142 OperatingLimit

| Column Name | Description | Datatype |
|--------------------------|--|-----------------------------|
| OperatingLimitSer | System generated serial number for an operating limit. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (AK) | System generated serial number for the radiation device. | VDT_SERIALNUMBER Integer |
| ParameterType (AK) | Internal name of a parameter, which is the same for machines from different vendors. The available types are defined in MachineLookup table. Names correspond with the definition in the field. Typical values are: <ul style="list-style-type: none">■ <i>CollimatorRtn</i>■ <i>CollX1</i>■ <i>CollY1</i>■ <i>GantryRtn</i> | VDT_TYPE Varchar(32) |
| ParameterName | Name of the parameter as it is used on a particular machine. For example, GantryAngle. The name is shown in the user's language. | VDT_NAME Varchar(64) |
| MinValue | Minimum value or lower limit of the operating range for this parameter. | VDT_FLOAT Float |
| MaxValue | Maximum value or upper limit of the operating range for this parameter. | VDT_FLOAT Float |
| DefValue | Default value for this parameter. | VDT_FLOAT Float |
| LimitPrecision | Precision of this operating limit (independent of the unit). Possible values are: <ul style="list-style-type: none">■ 0 – Precision of 1■ 1 – Precision of 0.1■ 2 – Precision of 0.01 | VDT_INT Integer |

Table 142 OperatingLimit(continued)

| Column Name | Description | Datatype |
|------------------------|---|----------------------------------|
| TolerancePossible | Indicates whether this parameter is subject to tolerance tables or if it always has to fit exactly. Values are: <ul style="list-style-type: none">■ 1 – Tolerance tables can be used■ 0 – No tolerance possible | VDT_FLAG_TRUE_DEFAULT Integer |
| MotionMode | Motion modes for beam operation. Values are: <ul style="list-style-type: none">■ Static only – No movement during beam on or hold■ MultipleStaticPositions – Movement during beam hold only■ Dynamic – Movement during beam on and beam hold | VDT_STRING64 Varchar(64) |
| MaxSpeed | Maximum speed during beam operation of the object that the operating limit item is referencing. This attribute is used when the Motion mode is set to <i>Dynamic</i> . <i>Dynamic</i> will be used for items: gantry rotation, collimator rotation, and collimator X1, X2, Y1, and Y2 settings. Units are mm/sec or deg/sec. Default values: <ul style="list-style-type: none">■ Y collimators: 12 mm/sec.■ X-collimators: 24 mm/sec. Collimator rot: 12 deg/sec. Gantry rotation: 6 deg / sec. | VDT_FLOAT Float |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |
| PrimaryFluenceMode Ser | Serial number of the referenced primary fluence mode. | VDT_SERIALNUMBER Integer |

Table 142 OperatingLimit(continued)

| Column Name | Description | Datatype |
|-------------------------------|--|-----------------------------|
| TechniqueSer (FK) (AK,IE1) | Serial number of referenced technique. | VDT_SERIALNUMBER Integer |

PlanningSystem

The *PlanningSystem* table provides a connection to the *Resource* table where the information regarding planning systems resides.

Table 143 PlanningSystem

| Column Name | Description | Datatype |
|------------------|---|----------------------------------|
| ResourceSer (FK) | System generated serial number for a planning system. | VDT_SERIALNUMBER Integer |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

PortImager

The *PortImager* table stores information regarding port imaging devices.

Table 144 PortImager

| Column Name | Description | Datatype |
|----------------------|--|--------------------------------|
| ResourceSer (FK) | System generated serial number for a port imager. | VDT_SERIALNUMBER Integer |
| ExtBeamResourceSer | Internal identification number. | VDT_SERIALNUMBER Integer |
| DefaultFlag | Indicates which PortImager is the default for a certain ExternalBeam machine. ExternalBeam units may have two PortImagers, one for normal operation and a second one for total body treatment. This flag is evaluated by SequenceImage planning to define the default PortImager and the default AcquisitionQuality. | VDT_FLAG_FALSE_DEFAULT Integer |
| SAD | SAD of the imager source, measured in cm. | VDT_DISTANCE Float |
| Gantry | Source angle, along IEC Gantry System definition, for the imager (if this angle is fixed in respect to the IEC room system). | VDT_ANGLE Float |
| GantryPitch | Source pitch, along DICOM Gantry Pitch System definition, for the imager (if this angle is fixed in respect to the IEC room system). | VDT_ANGLE Float |
| RadSourceGantryDelta | Delta angle between the therapeutic source and the imager source for Gantry-mounted imagers. | VDT_FLOAT Float |

RadiationDevice

The *RadiationDevice* tables stores information about external beam, simulator, and brachytherapy type devices.

Table 145 RadiationDevice

| Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| ResourceSer (FK) | System generated serial number for a radiation device. | VDT_SERIALNUMBER Integer |
| RadiationDeviceType | Type of radiation type. Values are: <ul style="list-style-type: none">■ BrachyUnit■ ExternalBeam■ Simulator | VDT_TABLENAME Varchar(30) |
| Features | General note about special features of this unit. | VDT_DESCRIPTION Varchar(64) |
| CompletelyModelled | Defines whether the device configuration is completely modeled to allow complete plan content reading and modifications (when the value is <i>true</i>) or not (when the value is <i>false</i>). Examples of devices with value <i>false</i> are Tomotherapy and Robotic treatment machines. | VDT_FLAG_FALSE_DEFAULT Integer |

SimulationImager

The *SimulationImager* table contains resolution and calibration information for specific simulation imaging devices as identified by serial numbers.

Table 146 SimulationImager

| Column Name | Description | Datatype |
|-----------------------|---|-----------------------------|
| ResourceSer (FK) | System generated serial number for a simulation imager. | VDT_SERIALNUMBER Integer |
| SimulatorResource Ser | Internal identification number. | VDT_SERIALNUMBER Integer |
| CalibrationAccuracy | Notes regarding accuracy of last calibration. | VDT_STRING32 Varchar(32) |
| CalibrationDate | Date and time of last calibration. | VDT_DATETIME Datetime |
| ExposureTime | Amount of time for exposure. | VDT_TIME Float |
| VideoBoard | Display and digitalization system used to digitize an image. Typical values are: <ul style="list-style-type: none">■ Datacube■ Matrox Corona■ Matrox Genesis■ MaxPCI/MaxVGA | VDT_STRING64 Varchar(64) |
| NoOfXLines | Number of readout lines in X direction. | VDT_COUNT Integer |
| NoOfYLines | Number of readout lines in Y direction. | VDT_COUNT Integer |
| ResolutionX | Resolution in X direction. | VDT_RESOLUTION Float |
| ResolutionY | Resolution in Y direction. | VDT_RESOLUTION Float |

Simulator

The *Simulator* table stores collimation information regarding serial number controlled simulators.

Table 147 Simulator

| Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| ResourceSer (FK) | System generated serial number for a simulator. | VDT_SERIALNUMBER Integer |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ <i>AsymmetryX</i>■ <i>AsymmetryY</i>■ <i>AsymmetryX&Y</i>■ <i>Symmetry</i> | VDT_COLLMODE Varchar(16) |
| BeamTime | Total accumulated beam time. | VDT_TIME Float |
| XRayUnit | Description of the installed X-ray system. | VDT_STRING64 Varchar(64) |

Technique

The *Technique* table stores information about various techniques used for treatment with external beam linear accelerators.

Table 148 Technique

| Column Name | Description | Datatype |
|---------------------------|---|-----------------------------------|
| TechniqueSer | System generated serial number for a technique. | VDT_SERIALNUMBER Integer |
| ResourceSer (FK) (AK1) | System generated serial number for a resource. | VDT_SERIALNUMBER Integer |
| TechniqueId (AK1) | Unique ID for the technique. Possible values include: <ul style="list-style-type: none">■ ARC■ HDTSE■ STATIC■ TOTAL | VDT_ID Varchar(16) |
| ObjectStatus | Indicates whether the technique is <i>Active</i> , <i>InActive</i> , or <i>Deleted</i> . | VDT_OBJECTSTATUS Varchar(16) |
| DefaultFlag | Indicates whether this technique is the default used on this machine. <ul style="list-style-type: none">■ 1 – Default■ 0 – Not default | VDT_FLAG_FALSE_DEFAULT Integer |
| DisplayCode | The user-visible codes that are presented in lookup tables or selection lists. | VDT_DISPLAYCODE Varchar(32) |
| InternalCode | Machine internal code (if defined by machine interface). | VDT_INTERNALCODE Integer |
| LevelCode | Encoding of the technique levels to allow comparison of techniques over different types of machines. | VDT_INT Integer |
| Comment | General note about a technique. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |

Table 148 Technique(continued)

| Column Name | Description | Datatype |
|---------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

Workstation

The *Workstation* table stores information about a computer that is connected to the network and has one or more ARIA modules installed. The system administrator assigns a unique ID to each workstation.

Table 149 Workstation

| Column Name | Description | Datatype |
|--------------------|---|----------------------------------|
| WorkstationSer | System generated serial number for this workstation. | VDT_SERIALNUMBER Integer |
| WorkstationId (AK) | Unique identification number for this workstation. | VDT_ID Varchar(16) |
| Location | Physical location of this workstation. | VDT_STRING64 Varchar(64) |
| WorkstationName | Name of workstation. | VDT_NAME Varchar(64) |
| ComputerName | Office, room, or place where this workstation is located. | VDT_STRING64 Varchar(64) |
| DefaultTask | Default task that should be started when workstation is first powered on or rebooted. | VDT_STRING64 Varchar(32) |
| QueueSelected | QueueSelected identifies the resource that this workstation is working on. | VDT_SERIALNUMBER Integer |
| Comment | Free text. | VDT_COMMENT Varchar(254) |
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. | VDT_HSTRYUSERNAME Varchar(32) |
| HstryTimeStamp | System time when data in the row was modified. | timestamp |
| HstryDateTime | Date the data in the row was modified. | VDT_DATETIMESTAMP Datetime |
| HstryTaskName | Name of the activity when data in the row was modified. | VDT_TASKNAME Varchar(32) |

The **View Descriptions** zone identifies the tables found in the light blue colored zone of tables on the *ARIA Reports Schema* poster. The information identified in this chapter expands upon the information found in the poster by presenting the columns in each view found in the Varian system database.



WARNING: Varian will no longer support these views after the ARIA 10.0 MR1 release.

A view is a specific collection of tables and columns from the Varian system database. The tables that comprise a view are already linked, providing a predefined set of data from which you can choose columns for your report. Therefore you can use a view as though it were one table that has all the columns you need for your report.

Three types of views exist in the Varian system database:

- Views with the prefix *vv_* and the suffix *View*. These provide predefined views of tables in the database, such as *vv_DoseOverrideView*.
- Views with the prefix *vv_*. These access various lookup tables and provide textual descriptions for numeric code values that are used throughout the database.
- Views that act as a replacement for obsolete tables. These views are named for the table they replace.

Lookup tables contain lists of customizable values that are configured using *Data Administration*. These lists provide custom selections that can appear in lists in ARIA modules.

Because views consist of tables and columns in the Varian system database, this chapter identifies the Source Table and Source Column from which the actual data is retrieved when the view is used in a query. If a column in the view contains a calculated value, the formula for that calculation is provided.

| To | See | Description |
|--|------------|--|
| Locate a table, view, or stored procedure | Appendix A | "Tables, Views, and Stored Procedures" on page 615 |
| View list of all columns in a table | Appendix B | "Tables and Columns" on page 617 |
| View list of all columns in a view | Appendix C | "Views and Columns" on page 643 |
| View list of all columns in a stored procedure | Appendix D | "Stored Procedures and Columns" on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> Poster |

vv_Activity

The *vv_Activity* view provides the textual representation for the activity in the specified language when this view is used.

Table 1 vv_Activity

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| ListSelector | Identifier for the lookup list. Source Table: LookupTable Source Column: ListSelector | VDT_STRING32 Varchar(32) |
| LanguageId | External identification of the language used by the user. IDs are defined in “Developing International Software for MS Windows,” Appendix X. Typical values are: <ul style="list-style-type: none">■ ENU■ FRA■ DEU Source Table: LookupTable Source Column: LanguageId | VDT_ID Varchar(16) |
| LookupValue | Value to look up in the lookup table. Source Table: LookupTable Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | First expression that corresponds to LookupValue. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| SubSelector | Returns a subset of the lookup list. Source Table: LookupTable Source Column: SubSelector | VDT_SERIALNUM Integer |

vv_ActivityLng

The *vv_ActivityLng* view provides the textual representation for the activity in a specific language. This language is specified in the configuration process during installation.

Table 2 vv_ActivityLng

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| LookupValue | <p>Value to look up in the lookup table. Source Table: LookupTable Source View: vv_Activity Source Column: LookupValue</p> | VDT_STRING64 Varchar(64) |
| Expression1 | <p>Name of the activity. Source Table: LookupTable Source View: vv_Activity Source Column: Expression1</p> | VDT_STRING64 Varchar(64) |

vv_DiagnosisTypeLng

The *vv_DiagnosisTypeLng* view lists the diagnostic types in the language used to record information in the database.

Table 3 vv_DiagnosisTypeLng

| View Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| LookupValue | Value to look up in the lookup table. Source Table: LookupTable Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | First expression that corresponds to LookupValue. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |

vv_DoseOverrideView

The *vv_DoseOverrideView* view provides dose information, specifies override type, and contains authorization information.

Table 4 vv_DoseOverrideView

| View Column Name | Description | Datatype |
|------------------|--|------------------------------|
| LastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| FirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient ID number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| SiteId | SiteId is defined by the user when the reference point data is entered. Source Table: RefPoint Source Column: RefPointId | VDT_ID Varchar(16) |
| SiteName | Non-unique name that gives a detailed description of the reference point. Source Table: RefPoint Source Column: RefPointName | VDT_NAME Varchar(64) |
| TotalDose | Total dose that will be delivered to this reference point from all treatment fields. Dose values are denoted in Gy or cGy. Source Table: RefPoint, ConfigurationItem Source Column: TotalDoseLimit, ConfigValue Formula: $\text{RefPoint.TotalDoseLimit} * (99 * \text{CHARINDEX('cGy', ConfigurationItem.ConfigValue)} + 1)$ | VDT_DOSE Float |

Table 4 vv_DoseOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|---|-------------------------------|
| DailyDose | Maximum dose, in Gy or cGy, that the reference point can receive in a 24-hour period. Source Table: RefPoint, ConfigurationItem Source Column: DailyDoseLimit, ConfigValue Formula: RefPoint.DailyDoseLimit * (99 * CHARINDEX('cGy', ConfigurationItem.ConfigValue) + 1) | VDT_DOSE Float |
| DoseOverDateTime | Date and time when the override was authorized or recorded. Source Table: RefPointLog Source Column: ModificationDate | VDT_DATETIME Datetime |
| DoseOverType | Indicates the type of override. Values are: <ul style="list-style-type: none">■ DailyDose■ TotalDose■ SessionDose Source Table: RefPointLog Source Column: OverRideType | VDT_STRING16 Varchar(16) |
| DoseOverAuthName | Username of the person who authorizes the override. This person must have the privileges to authorize an override. Source Table: RefPointLog Source Column: OvrdAuthorizedName | VDT_USERNAME Varchar(32) |
| DoseUnits | Value of the dose configuration parameter, in Gy or cGy. Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |

vv_PatientDoctor

The *vv_PatientDoctor* view provides information about patients and their associated physicians.

Table 5 vv_PatientDoctor

| View Column Name | Description | Datatype |
|-------------------------|--|---------------------------------------|
| PatientSer | <p>System generated serial number for a person who is a patient.</p> <p>Source Table: Patient</p> <p>Source Column: PatientSer</p> | VDT_SERIALNUMBER Integer |
| ResourceSer | <p>System generated serial number for a physician.</p> <p>Source Table: PatientDoctor</p> <p>Source Column: ResourceSer</p> | VDT_SERIALNUMBER Integer |
| PrimaryFlag | <p>Indicates if this is the patient's primary care physician. Values are:</p> <ul style="list-style-type: none">■ 1 = Primary care physician■ 0 = Not primary care physician <p>Source Table: PatientDoctor</p> <p>Source Column: PrimaryFlag</p> | VDT_FLAG_FALSE _DEFAULT Integer |
| OncologistFlag | <p>Indicates if the physician is an oncologist. Values are:</p> <ul style="list-style-type: none">■ 1 = Yes■ 0 = No <p>Source Table: PatientDoctor</p> <p>Source Column: OncologistFlag</p> | VDT_FLAG_FALSE _DEFAULT Integer |

vv_PatientStatus

The *vv_PatientStatus* view provides the textual representation for Patient Status found in the Edit window in *Patient Manager* and *Activity Capture* modules.

In this view, the *ListSelector* column is set to *Patient Status*, which provides the appropriate information stored for the patient's status.

Table 6 vv_PatientStatus

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| ListSelector | Identifier for the lookup list. Source Table: LookupTable Source Column: ListSelector | VDT_STRING32 Varchar(32) |
| LanguageId | External identification of the language used by the user. IDs are defined in "Developing International Software for MS Windows," Appendix X. Typical values are: <ul style="list-style-type: none">■ ENU■ FRA■ DEU Source Table: LookupTable Source Column: LanguageId | VDT_ID Varchar(16) |
| LookupValue | Value to look up in the lookup table. Source Table: LookupTable Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | Patient Status. First expression that corresponds to LookupValue. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |

vv_PatientStatusLng

The *vv_PatientStatusLng* view provides the textual representation for *Patient Status* found in the Edit window in *Patient Manager* and *Activity Capture* modules. This textual representation is in a specific language. This language is specified in the configuration process during installation.

Table 7 vv_PatientStatusLng

| View Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| LookupValue | Value to look up in the lookup table. Source View: vv_PatientStatus Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | Patient Status. First expression that corresponds to LookupValue. Source View: vv_PatientStatus Source Column: Expression1 | VDT_STRING64 Varchar(64) |

vv_PlanOverrideView



The *vv_PlanOverrideView* view provides information regarding any machine parameters that were overridden at time of treatment.

Note: The Varian system database stores all mechanical position values in the database in IEC61217 scale. It automatically converts this internal representation to the scales specified in Data Administration. When writing reports that display field values, you must modify your reports to see the fields in the scale of your choice by either converting from IEC61217 to your scale, or producing a report in IEC61217 scale.

The appropriate scale conversion formulas for each machine parameter are included here.

Table 8 vv_PlanOverrideView

| View Column Name | Description | Datatype |
|-------------------|--|------------------------------|
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| TreatmentDateTime | The date and time the treatment occurred. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | VDT_DATETIME Date |
| TreatmentFieldSer | System generated serial number for a field. Source Table: TreatmentFieldHstry Source Column: FieldSer | VDT_SERIALNUMBER Integer |
| LastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| FirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient ID number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| CourseId | Unique ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|--------------------|---|-----------------------------|
| TreatmentFieldId | Unique ID for a treatment field. Source Table: TreatmentFieldMH Source Column: FieldId | VDT_ID Varchar(16) |
| TreatmentFieldName | Name of field. Source Table: TreatmentFieldMH Source Column: FieldName | VDT_NAME Varchar(64) |
| GantryRtnOvrd | Indicates whether the gantry rotation was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: GantryRtnOverrideFlag Formula: isnull(TreatmentFieldHstry.GantryRtnOverrideFlag,0) | VDT_OVERRIDEFLAG Integer |
| CollRtnOvrd | Indicates whether the collimator rotation was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CollRtnOverrideFlag Formula: isnull(TreatmentFieldHstry.CollRtnOverrideFlag,0) | VDT_OVERRIDEFLAG Integer |
| CouchLatOvrd | Indicates whether the couch lateral position was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CouchLatOverrideFlag Formula: isnull(TreatmentFieldHstry.CouchLatOverrideFlag,0) | VDT_OVERRIDEFLAG Integer |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| CouchLngOvrd | <p>Indicates whether the couch longitudinal position was overridden. Values are:</p> <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CouchLngOverrideFlag Formula: isnull(TreatmentFieldHstry.CouchLngOverrideFlag,0)</p> | VDT_OVERRIDEFLAG Integer |
| CouchRtnOvrd | <p>Indicates whether the patient support angle was overridden. Values are:</p> <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: PatientSupportAngleOverFlag Formula: isnull(TreatmentFieldHstry.PatientSupportAngleOverFlag,0)</p> | VDT_OVERRIDEFLAG Integer |
| CouchVrtOvrd | <p>Indicates whether the couch vertical position was overridden. Values are:</p> <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CouchVrtOverrideFlag Formula: isnull(TreatmentFieldHstry.CouchVrtOverrideFlag,0)</p> | VDT_OVERRIDEFLAG Integer |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| CollModeOvrd | <p>Defines the kind of collimation used. Possible values are:</p> <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y <p>Source Table: TreatmentFieldMH Source Column: CollMode and Source Table: TreatmentFieldHstry Source Column: CollMode Formula: patindex(TreatmentFieldMH. CollMode, TreatmentFieldHstry .CollMode)</p> | VDT_COLLMODE Varchar(16) |
| Y1Ovrd | <p>Indicates whether the Y1 collimator position was overridden. Values are:</p> <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollY1OverrideFlag Formula: isnull(TreatmentFieldHstry. CollY1OverrideFlag,0)</p> | VDT_OVERRIDEFLAG Integer |
| Y2Ovrd | <p>Indicates whether the Y2 collimator position was overridden. Values are:</p> <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollY2OverrideFlag Formula: isnull(TreatmentFieldHstry. CollY2OverrideFlag,0)</p> | VDT_OVERRIDEFLAG Integer |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| X1Ovrd | <p>Indicates whether the X1 collimator position was overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollX1OverrideFlag Formula: <code>isnull(TreatmentFieldHstry.CollX1OverrideFlag,0)</code></p> | VDT_OVERRIDEFLAG Integer |
| X2Ovrd | <p>Indicates whether the X2 collimator position was overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollX2OverrideFlag Formula: <code>isnull(TreatmentFieldHstry.CollX2OverrideFlag,0)</code></p> | VDT_OVERRIDEFLAG Integer |
| PlanGantryRtn | <p>Plan value of gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment.</p> <p>Source Table: Machine Source Column: MachineScale <i>and</i> Source Table: TreatmentFieldMH Source Column: GantryRtn Formula: <code>CHARINDEX('VAR',right(Machine.MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldMH.GantryRtn-180)-1)+1)+180-TreatmentFieldMH.GantryRtn) + CHARINDEX('VAR_IEC',Machine.MachineScale)* (TreatmentFieldMH.GantryRtn) + CHARINDEX('ABB_IEC',Machine.MachineScale)* (TreatmentFieldMH.GantryRtn)</code></p> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|--------------------|--|-----------------------------|
| PlanGantryExtended | <p>Indicates whether there is Planned Gantry Return Extended. If first character is "E" then it's Gantry Return Extended. Values are the first character from the following:</p> <ul style="list-style-type: none">■ NN■ NE■ EN■ EE <p>Source Table: TreatmentFieldMH Source Column: GantryRtnExt Formula: Substring(TreatmentFieldMH.GantryRtnExt,1,1)</p> | VDT_STRING16 Varchar(16) |
| PlanCollRtn | <p>Plan value of collimator rotation angle during field treatment, in degrees.</p> <p>Source Table: Machine Source Column: MachineScale <i>and</i> Source Table: TreatmentFieldMH Source Column: CollRtn Formula: CHARINDEX('VAR',right(Machine.MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldMH.CollRtn-180)-1)+1)+180- TreatmentFieldMH.CollRtn) + CHARINDEX('VAR_IEC',Machine.MachineScale) * (TreatmentFieldMH.CollRtn) + CHARINDEX('ABB_IEC',Machine.MachineScale) * (TreatmentFieldMH.CollRtn)</p> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|-------------------------|
| PlanCouchLat | <p>Plan value of lateral displacement of the couch top from the couch centerline, in cm.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CouchLat</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (TreatmentFieldMH.CouchLat+100) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (1000 * (1-SIGN(SIGN(TreatmentFieldMH. CouchLat)+1)) + (TreatmentFieldMH.CouchLat)) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (100 * (1-SIGN(SIGN(TreatmentFieldMH. CouchLat)+1)) + (TreatmentFieldMH.CouchLat))</pre> | VDT_FLOAT Float |
| PlanCouchLng | <p>Plan value of longitudinal displacement of the couch top from its fully-extended position (closest to the gantry), in cm.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CouchLng</p> | VDT_COUCHPARAM Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|---|--------------------|
| PlanCouchRtn | <p>Plan value of couch rotation. Corresponds with VDT_FLOAT couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: PatientSupportAngle</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldMH. PatientSupportAngle-180)-1)+1)+180-Treatment FieldMH. PatientSupportAngle) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (360 - TreatmentFieldMH. PatientSupportAngle) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (360 - TreatmentFieldMH. PatientSupportAngle)</pre> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|--------------------|
| PlanCouchVrt | <p>Plan value of vertical couch displacement, in cm.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CouchVrt</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (100 - TreatmentFieldMH.CouchVrt) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (1000 * (1+SIGN(SIGN(TreatmentFieldMH. CouchVrt)-1)) - (TreatmentFieldMH.CouchVrt)) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (1000 * (1+SIGN(SIGN(TreatmentFieldMH. CouchVrt)-1)) - (TreatmentFieldMH.CouchVrt)) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (1000 * (1+SIGN(SIGN(TreatmentFieldMH. CouchVrt)-1)) - (TreatmentFieldMH.CouchVrt))</pre> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|-----------------------|--|---------------------------|
| ActualGantryRtn | <p>Actual value of gantry rotation angle during a treatment, or the angle at which irradiation and rotation starts during an ARC treatment.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: GantryRtn</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldHstry. GantryRtn-180)-1)+1)+180- TreatmentFieldHstry.GantryRtn) + CHARINDEX('VAR_IEC', Machine.MachineScale) * (TreatmentFieldHstry.GantryRtn) + CHARINDEX('ABB_IEC', Machine.MachineScale) * (TreatmentFieldHstry.GantryRtn)</pre> | VDT_FLOAT Float |
| ActualGantry Extended | <p>Start angle (N or E) for extended range for Varian auto sequencing values.</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: GantryRtnExt</p> <p>Formula:</p> <pre>Substring(TreatmentFieldHstry. GantryRtnExt,1,1)</pre> | VDT_STRING1 Varchar(1) |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|--------------------|
| ActualCollRtn | <p>Actual value of collimator rotation angle during field treatment, in degrees.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CollRtn</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldHstry. CollRtn-180)-1)+180- TreatmentFieldHstry.CollRtn) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (TreatmentFieldHstry.CollRtn) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (TreatmentFieldHstry.CollRtn))</pre> | VDT_FLOAT Float |
| ActualCouchLat | <p>Actual value of lateral displacement of the couch top from the couch centerline in centimeters.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CouchLat</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine. MachineScale,3)) * (TreatmentFieldHstry.CouchLat+100) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (1000 * (1-SIGN(SIGN(TreatmentFieldHstry. CouchLat)+1)) + (TreatmentFieldHstry.CouchLat)) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (100 * (1-SIGN(SIGN(TreatmentFieldHstry. CouchLat)+1)) + (TreatmentFieldHstry.CouchLat))</pre> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|-------------------------|
| ActualCouchLng | <p>Actual value of longitudinal displacement of the couch top from its fully-extended position (closest to the gantry) in centimeters.</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CouchLng</p> | VDT_COUCHPARAM Float |
| ActualCouchRtn | <p>Actual value of couch rotation. Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale and</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: PatientSupportAngle</p> <p>Formula:</p> <pre>ActualPatientSupportAngle = CHARINDEX('VAR',right(Machine. MachineScale,3)) * (360 * (SIGN(SIGN(TreatmentFieldHstry. PatientSupportAngle-180)-1)+1)+180-Treatment FieldHstry. PatientSupportAngle) + CHARINDEX('VAR_IEC',Machine. MachineScale) * (360 - TreatmentFieldHstry. PatientSupportAngle) + CHARINDEX('ABB_IEC',Machine. MachineScale) * (360 - TreatmentFieldHstry. PatientSupportAngle)</pre> | VDT_FLOAT Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|------------------------|
| ActualCouchVrt | <p>Actual value of vertical couch displacement in centimeters.</p> <p>Source Table: Machine</p> <p>Source Column: MachineScale</p> <p>and</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CouchVrt</p> <p>Formula:</p> <pre>CHARINDEX('VAR',right(Machine.MachineScale,3)) * (100 - TreatmentFieldHstry.CouchVrt) + CHARINDEX('VAR_IEC',Machine.MachineScale) * (1000 * (1+SIGN(SIGN(TreatmentFieldHstry.CouchVrt)-1)) - (TreatmentFieldHstryCouchVrt)) + CHARINDEX('ABB_IEC',Machine.MachineScale) * (1000 * (1+SIGN(SIGN(TreatmentFieldHstry.CouchVrt)-1)) - (TreatmentFieldHstry.CouchVrt))</pre> | VDT_FLOAT Float |
| PlanCollY1 | <p>Plan value of Y1 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1, in cm. A negative number means the edge of the jaw is beyond the beam centerline.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CollY1</p> <p>Formula:</p> <pre>TreatmentFieldMH.CollY1 * -1</pre> | VDT_COLLPARAM Float |
| PlanCollY2 | <p>Plan value of Y2 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X2, in cm. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CollY2</p> | VDT_COLLPARAM Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| PlanCollX1 | <p>Plan value of X1 collimator position.</p> <p>Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X1, in cm. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CollX1</p> <p>Formula: TreatmentFieldMH.CollX1 * -1</p> | VDT_COLLPARAM Float |
| PlanCollX2 | <p>Plan value of X2 collimator position.</p> <p>Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1, in cm. A negative number means the edge of the jaw is beyond the beam centerline.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CollX2</p> | VDT_COLLPARAM Float |
| PlanCollMode | <p>Plan value of collimation mode used. Possible values are:</p> <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y <p>Source Table: TreatmentFieldMH</p> <p>Source Column: CollMode</p> | VDT_COLLMODE Varchar(16) |
| ActualCollMode | <p>Actual value of collimation mode used.</p> <p>Possible values are:</p> <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CollMode</p> | VDT_COLLMODE Varchar(16) |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|---|------------------------|
| ActualCollY1 | <p>Actual value of Y1 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1 in centimeters. A negative number means the edge of the jaw is beyond the beam centerline.</p> <p>Source Table: TreatmentFieldHstry Source Column: CollY1 Formula: TreatmentFieldHstry.CollY1 * -1</p> | VDT_COLLPARAM Float |
| ActualCollY2 | <p>Actual value of Y2 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y2 in centimeters. A negative number means the edge of the jaw is beyond the beam centerline.</p> <p>Source Table: TreatmentFieldHstry Source Column: CollY2</p> | VDT_COLLPARAM Float |
| ActualCollX1 | <p>Actual value of X1 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X1 in centimeters. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: TreatmentFieldHstry Source Column: CollX1 Formula: TreatmentFieldHstry.CollX1 * -1</p> | VDT_COLLPARAM Float |
| ActualCollX2 | <p>Actual value of X2 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X2 in centimeters. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: TreatmentFieldHstry Source Column: CollX2</p> | VDT_COLLPARAM Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| Scale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| PlanMU | <p>PlanMU is the PlannedMU for the Field.</p> <p>Source Table: TreatmentField Source Column: MupGy and</p> <p>Source Table: FieldRefPoint Source Column: FieldDose Formula: $\text{round}(MUpGy * \text{FieldDose}, 0),$ where the MUpGy value is taken from the Field table and FieldDose is taken from the FieldRefPoint table.</p> | VDT_FLOAT Float |
| ActualMU | <p>Number of monitor units (MUs) delivered to the field during treatment exposure.</p> <p>Source Table: TreatmentFieldHstry Source Column: ActualMU</p> | VDT_MU Integer |
| MUFlag | <p>Indicates whether the MUs were overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: MUOverrideFlag Formula: $\text{isnull}(\text{TreatmentFieldHstry.MUOverrideFlag}, 0)$ </p> | VDT_OVERRIDEFLAG Integer |
| PlanTime | <p>Plan value of total exposure time, in minutes. When this exposure time expires, delivery of the field dose ends. This value only applies if the machine is not a C-Series model.</p> <p>Source Table: TreatmentFieldMH Source Column: TreatmentTime</p> | VDT_TIME Float |

Table 8 vv_PlanOverrideView (continued)

| View Column Name | Description | Datatype |
|-------------------|--|-----------------------------|
| OvrdTime | Actual value of total exposure time, in minutes. When this exposure time expires, delivery of the field dose ends. This value only applies if the machine is not a C-Series model. Source Table: TreatmentFieldHstry Source Column: TreatmentTime | VDT_TIME Float |
| TimeFlag | Indicates whether the treatment time was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: TreatmentTimeOverrideFlag | VDT_OVERRIDEFLAG Integer |
| AuthorizationName | Name of person who approved this treatment field history. Source Table: TreatmentFieldHstry Source Column: ApprovalUserName | VDT_USERNAME Varchar(32) |
| MachineOverride | Indicates whether the machine was overridden at time of treatment. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: MachOverrideFlag | VDT_OVERRIDEFLAG Integer |
| PlanMachineId | Plan value for the machine to be used in treatment. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| ActualMachineId | Actual value of the machine ID used in treatment. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |

vv_ResourceName

The *vv_ResourceName* view provides a list of resources.

Table 9 vv_ ResourceName

| View Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| ResourceSer | <p>System generated serial number for a resource activity. Used as part of the composite primary key for this table.</p> <p>Source Table: Resource</p> <p>Source Column: ResourceSer</p> | VDT_SERIALNUMBER Integer |
| ResourceName | <p>The type of resource. Values are:</p> <ul style="list-style-type: none">■ Staff■ Doctor■ Machine■ Venue <p>Source Table: Resource</p> <p>Source Column: ResourceType</p> | VDT_NAME Varchar(64) |

vv_ScheduledActivity

The *vv_ScheduledActivity* view provides table on scheduled activities.

Table 10 vv_ ScheduledActivity

| View Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| ListSelector | Identifier for the lookup list. Source Table: LookupTable Source Column: ListSelector | VDT_STRING32 Varchar(32) |
| LanguageId | Identification of the user language as defined by Appendix X: Locales and Language IDs from the book "Developing International Software for MS Windows". Examples include <i>ENU</i> , <i>FRA</i> , and <i>DEU</i> . Source Table: LanguageLookup Source Column: LanguageId | VDT_ID Varchar(16) |
| LookupValue | Value to look up in the lookup table. Source Table: LookupTable Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | First expression that corresponds to LookupValue. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |

vv_SexLng

The *vv_SexLng* view provides a list of gender identity terms in the primary language used with the Varian system database.

Table 11 vv_SexLng

| View Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| LookupValue | Value to look up in the lookup table. Source Table: LookupTable Source Column: LookupValue | VDT_STRING64 Varchar(64) |
| Expression1 | First expression that corresponds to LookupValue. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |

vv_syFieldMU

The *vv_syFieldMU* view rounds calculated monitor units (MUs) to display precision.

Table 12 vv_syFieldMU

| View Column Name | Description | Datatype |
|-------------------------|---|-----------------------------|
| PlanSetupSer | System generated serial number for a plan setup. | VDT_SERIALNUMBER Integer |
| FractionationSer | System generated serial number for the fractionation. | VDT_SERIALNUMBER Integer |
| MU | Actual number of MUs delivered to this field. | VDT_FLOAT Float |

vv_TreatHistoryView

The *vv_TreatHistoryView* view provides information regarding the treatment history for patients.

Table 13 vv_TreatHistoryView

| View Column Name | Description | Datatype |
|-------------------|--|--------------------------|
| LastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| FirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient ID number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_ID Varchar(16) |
| CourseId | Unique ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| TreatmentDateTime | The date and time the treatment occurred. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | VDT_DATETIME Datetime |

Table 13 vv_TreatHistoryView(continued)

| View Column Name | Description | Datatype |
|-------------------------|---|---------------------------------------|
| TreatCategory | <p>Description of type of treatment data contained in this record. Values are:</p> <ul style="list-style-type: none"> ■ MAN = Manual treatment ■ TRT = Record and Verify treatment ■ PORT = Port film ■ IMAGE = Portal image <p>Source Table: TreatmentFieldHstry Source Column: RVFlag and Source Table: TreatmentFieldHstry Source Column: PFFlag and Source Table: TreatmentFieldHstry Source Column: PIFlag Formula: <pre>substring('MAN TRT PORT IMAGE',(5*TreatmentFieldHstry. RVFlag + isnull(5*(Convert(Integer, ASCII(TreatmentFieldHstry.PFFlag)/ ASCII(TreatmentFieldHstry.PFFlag)))),0) + isnull(5*(Convert(Integer, ASCII(TreatmentFieldHstry.PIFlag)/ ASCII(TreatmentFieldHstry.PIFlag)))),0)) + 1, 5)</pre> </p> | VDT_STRING5 Varchar(5) |
| TreatmentFieldId | <p>Unique ID for the field.</p> <p>Source Table: TreatmentFieldHstry Source Column: FieldId</p> | VDT_ID Varchar(16) |
| TreatmentFieldName | <p>Name of field.</p> <p>Source Table: TreatmentFieldHstry Source Column: FieldName</p> | VDT_NAME Varchar(64) |
| PlanOverride | <p>Indicates if this treatment had a plan override. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Has override ■ 0 = No override <p>Source Table: TreatmentFieldHstry Source Column: OverrideFlag</p> | VDT_FLAG_FALSE _DEFAULT Integer |
| SessionNumber | <p>Serial number of a session. Used to numerically order sessions.</p> <p>Source Table: Session Source Column: SessionNum</p> | VDT_NUMBER Integer |

Table 13 vv_TreatHistoryView(continued)

| View Column Name | Description | Datatype |
|------------------|--|-------------------------------|
| FieldStatus | Status of the field. Values include: <ul style="list-style-type: none"> ■ Active ■ Treated ■ Pt. Treated Source Table: SessionField Source Column: FldStatus | VDT_STRING64 Varchar(64) |
| ScheduleNote | General note about the schedule. Source Table: TreatmentFieldHstry Source Column: ScheduleNote | VDT_STRING254 Varchar(254) |
| HistoryNote | General note about the treatment history. Source Table: TreatmentFieldHstry Source Column: HistoryNote | VDT_STRING254 Varchar(254) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| TreatmentType | Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are: <ul style="list-style-type: none"> ■ STATIC ■ ARC ■ TOTAL ■ HDTSE Source Table: TreatmentFieldHstry Source Column: Technique | VDT_TECHNIQUE Varchar(16) |
| Energy | Energy/Mode combination used with this treatment field. Source Table: TreatmentFieldHstry Source Column: EnergyMode | VDT_ENERGYMODE Varchar(16) |
| MU | Number of monitor units (MUs) delivered to the field during treatment exposure. Source Table: TreatmentFieldHstry Source Column: ActualMU | VDT_MU Integer |

vv_syTRTEvents

The *vv_syTRTEvents* view provides details on events related to treatment.

Table 14 vv_syTRTEvents

| View Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| TreatmentDateTime | Date and time when the treatment occurred. | VDT_DATETIME Datetime |
| FractionNumber | Number of the fraction for this beam. Partial treatment of the same fraction has the same fraction number. | VDT_INT Integer |
| FractionNumberCalc | Error corrected fraction number. In cases where a treatment delivery system did not provide correct fraction numbers, the output here might be different than in FractionNumber. | VDT_INT Integer |
| EventNumber | Indicates the event number. Identical event numbers are used on treatment records, treated together. | VDT_INT Integer |
| LastFractionNumber | Latest fraction number within the entire plan. | VDT_INT Integer |
| LastFractionNumberCalc | Latest calculated fraction number within the entire plan. | VDT_INT Integer |
| LastEventNumber | Latest event number within the entire plan. | VDT_INT Integer |
| PatientSer | System generated serial number for a person who is a patient. | VDT_SERIALNUMBER Integer |
| TreatmentDateTimeFirst | Date and time when the treatment first occurred. | VDT_DATETIME Datetime |
| TreatmentDateTimeLast | Date and time when the treatment last occurred. | VDT_DATETIME Datetime |

vv_syTRTHistoryRecords

The *vv_syTRTHistoryRecords* view provides details on treatment records.

Table 15 vv_syTRTHistoryRecords

| View Column Name | Description | Datatype |
|-------------------------|---|-----------------------------|
| PatientSer | System generated serial number for a patient. | VDT_SERIALNUMBER Integer |
| CourseSer | CourseSer System generated serial number for a course. | VDT_SERIALNUMBER Integer |
| FractionationSer | System generated serial number for the fractionation. | VDT_SERIALNUMBER Integer |
| RadiationSer | System generated serial number for the beam. | VDT_SERIALNUMBER Integer |
| TreatmentFieldHstrySer | System generated serial number for the treatment history field. | VDT_SERIALNUMBER Integer |
| FractionNumber | Number of the fraction for this beam. Partial treatment of the same fraction has the same fraction number. | VDT_INT Integer |
| RecordMUActual | Monitor Units of this treatment record. | Char(8) |
| FieldMUActual | Sum of Monitor Units over all beams within the same fraction. | Char(8) |
| FieldMUPlanned | Planned Moniter Unites taken from "the field." | Char(8) |
| RecordStatus | Possible values are: <ul style="list-style-type: none">■ Active■ Treated | VDT_STRING16 Varchar(16) |
| FieldStatus | Values are defined in LookupTable for ListSelector SESSION_FIELD_STATUS: <ul style="list-style-type: none">■ Active■ Treated | VDT_STRING64 Varchar(64) |
| TreatmentDeliveryType | Specifies the treatment type. | VDT_STRING16 Varchar(16) |

vv_UserLanguage

The *vv_UserLanguage* view identifies the user language.

Table 16 vv_UserLanguage

| View Column Name | Description | Datatype |
|------------------|--|-----------------------|
| LanguageId | <p>Identification of the user language as defined by Appendix X: Locales and Language IDs from the book "Developing International Software for MS Windows". Examples include <i>ENU</i>, <i>FRA</i>, and <i>DEU</i>.</p> <p>Source Table: LanguageLookup Source Column: LanguageId</p> | VDT_ID Varchar(16) |

Chapter 14 Stored Procedures

The prefix *vp_* identifies stored procedures that can be used as the data source for reports.



WARNING: Varian will no longer support these Stored Procedures after the ARIA 10.0 MR1 release.

A stored procedure is a precompiled collection of SQL statements that can accept user-supplied parameters to control the data that is returned. Stored procedures make it easy to retrieve complex sets of data from the database.

A stored procedure provides a predefined set of data from which you can choose columns for your report. Therefore you can use a stored procedure as the data source that provides the result set of data for your report.

Several InfoMaker reports included use stored procedures as their data source. For example, the *Chart Check* report uses a stored procedure called *vp_GetChartCheckReport2* to retrieve the data needed for the report.



Note: *The stored procedures listed in this chapter are available for use in building InfoMaker-based reports. These stored procedures are used in the InfoMaker reports in InfoMaker Reports Reference Guide. They may change when the Varian system database schema changes. Therefore, please be aware of this when building reports using these stored procedures.*

Because stored procedures consist of tables and columns in the Varian system database, this chapter identifies the *Source Table* and *Source Column* from which the actual data is retrieved when the stored procedure is used as the data source for a query.

If a column in the stored procedure contains a calculated value, the formula for that calculation is provided.

| To | See | Description |
|---|------------|--|
| Locate a table, view, or stored procedure | Appendix A | "Tables, Views, and Stored Procedures" on page 615 |

| To | See | Description |
|--|------------|---|
| View list of all columns in a table | Appendix B | "Tables and Columns" on page 617 |
| View list of all columns in a view | Appendix C | "Views and Columns" on page 643 |
| View list of all columns in a stored procedure | Appendix D | "Stored Procedures and Columns" on page 645 |
| Reports writing schema | Poster | <i>ARIA Reports Schema</i> Poster |

vp_GetChargesForDeluxeRep

The stored *vp_GetChargesForDeluxeRep* procedure.

Table 165 Input Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|----------------|------------------------------------|-----------------------|
| @PatientId | Identifies the ID1 of the patient. | VDT_ID Varchar(16) |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|------------------|--|-----------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_NAME Varchar(64) |
| PatientLastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupValue's for PATIENT_STATUS:New Patient (NP),Previous Patient (NOP). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|------------------------------|--|---------------------------------|
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_ID Varchar(16) |
| TemplateId | Identification of the template. Source Table: Template Source Column: TemplateID | VDT_STRING64 Varchar(64) |
| TemplateSer | System generated serial number for a template. Source Table: Template Source Column: TemplateSer | VDT_SERIALNUMBER Integer |
| TemplateRevCount | RevisionCount. Source Table: Template Source Column: TemplateRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCode Description | A description of the activity. Source Table: ProcedureCodeMH Source Column: Comment | VDT_COMMENT Varchar(254) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology'</i> and other options. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| ProcedureBillingCode | The hospital specific activity charge code. Source Table: ProcedureCodeMH Source Column: BillingCode | VDT_ACTIVITYCODE Varchar(64) |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|-------------------------|--|-------------------------------|
| ActivityCategory | Name of activity category. Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ExportedDateTime | Date and time the charges were exported. Source Table: ActInstProcCode Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| FromDateOfService | Date and time of service when the activity was begun. Source Table: ActInstProcCode Source Column: FromDateOfService | VDT_DATETIME Datetime |
| ToDateOfService | Date and time of service when the activity ended. Source Table: ActInstProcCode Source Column: ToDateOfService | VDT_DATETIME Datetime |
| MarkedCompletedBy | Name of the person who marked activity completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdBy | VDT_USERNAME Datetime |
| MarkedCompletedDateTime | Date and Time Activity was marked completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdDateTime | VDT_DATETIME Datetime |
| ExportedBy | User name of the person who exported the charges. Source Table: ActInstProcCode Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| ActivityExportedFlag | Set to 1 when ExportedDateTime is not equal null, otherwise set to 0. | Bit |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|-----------------|--|-----------------------------|
| ChargeWaivedBy | User name of the person who waived the charges. Source Table: ActInstProcCode Source Column: ChargeWaivedBy | VDT_USERNAME Varchar(32) |
| ReviewedBy | User name of the person who reviewed the activity capture. Source Table: ActInstProcCode Source Column: ReviewedBy | VDT_USERNAME Varchar(32) |
| PrmrGblCharge | Total standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY Money |
| PrmrTechCharge | Technical component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrTechCharge | VDT MONEY Money |
| PrmrProfCharge | Professional component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrProfessCharge | VDT MONEY Money |
| ChargedAmount | If ExportedDateTime is not NULL then charge this amount. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY Money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: ProfessionalRVU | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: GlobalRVU | VDT_FLOAT Float |
| TechnicalRVU | Technical component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: TechnicalRVU | VDT_FLOAT Float |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------|
| ActivityModifierCode | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. Source Table: ActivityCodeMdMH Source Column: Modifier | VDT_ACTIVITYCODE Varchar(64) |
| ActMdCode Description | Free text. Source Table: ActivityCodeMdMH Source Column: Description | VDT_DESCRIPTION Varchar(64) |
| AttendingOncologist Name | String consisted of LastName, comma, and FirstName of Attending Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistId | Not used | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| ActivityCaptureSer | System generated serial number for a activity capture. Source Table: ActivityCapture Source Column: ActivityCaptureSer | VDT_SERIALNUMBER Integer |
| ActivityCaptureRev Count | RevisionCount. Source Table: ActivityCapture Source Column: ActivityCaptureRevCount | VDT_REVISIONCOUNT Integer |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|--------------------------|--|------------------------------|
| ActivityInstanceSer | Internal Identification (Serial Number which is the Primary Key to the ActivityInstance table). Source Table: ActInstProcCode Source Column: ActivityInstanceSer | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityInstanceRevCount | VDT_REVISIONCOUNT Integer |
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ModifierSer | Internal Identification (Serial Number which is the Primary Key to the ActivityCodeMd table). Source Table: ActInstProcCode Source Column: ModifierSer | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityCodeMdRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Internal Identification (Serial Number which is the Primary Key to the ProcedureCode table). Source Table: ActInstProcCode Source Column: ProcedureCodeSer | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ProcedureCodeRevCount | VDT_REVISIONCOUNT Integer |
| DiagnosisSer | Not used | VDT_SERIALNUMBER Integer |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|--------------------------------|--|-----------------------------------|
| AccountBillingCode Ser | Internal Identification (Serial Number which is the Primary Key to the AccountBillingCode table). Source Table: ActivityCapture Source Column: AccountBillingCodeSer | VDT_SERIALNUMBER Integer |
| AccountBillingCode RevCount | RevisionCount. Source Table: ActivityCapture Source Column: AccountBillingCodeRevCount | VDT_REVISIONCOUNT Integer |
| ResourceSer | Internal Identification (Serial Number which is the Primary Key to the Resource table). Source Table: ActivityCapture Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AttendingOncologist Ser | Internal Identification (Serial Number which is the Primary Key to the Doctor table). Source Table: ActivityCapture Source Column: AttendingOncologistSer | VDT_SERIALNUMBER Integer |
| DepartmentSer | Internal Identification (Serial Number which is the Primary Key to the Department table). Source Table: ActivityCapture Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. <ul style="list-style-type: none"> ■ 0 = OutPatient ■ 1 = InPatient Source Table: ActivityCapture Source Column: InPatientFlag | VDT_FLAG_FALSE_DEFAULT Integer |
| CreditedBy | User name of the person who authorize the credit. Source Table: Credit Source Column: CreditedBy | VDT_USERNAME Varchar(32) |
| CreditedDateTime | Date and time the credit was done. Source Table: Credit Source Column: CreditedDateTime | VDT_DATETIME Datetime |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|--------------------------|---|-------------------------------|
| CreditExportedBy | User name of the person who exported the credit. Source Table: Credit Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| CreditExportedDate Time | Date and time the credit was exported. Source Table: Credit Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| CreditNote | Source Table: Credit Source Column: Note | VDT_STRING254 Varchar(254) |
| CreditSer | System generated serial number for a credit. Source Table: Credit Source Column: CreditSer | VDT_SERIALNUMBER Integer |
| CreditRevCount | Not used | VDT_REVISIONCOUNT Integer |
| CreditAmount | If ExportedDateTime is not null, credit amount is null, otherwise it is equal negative. ProcedureCodeMH.PrmrGblCharge. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY Money |
| ActInstProcCodeSer | System generated serial number for a activity instance procedure code. Source Table: ActInstProcCode Source Column: ActInstProcCodeSer | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRev Count | RevisionCount. Source Table: ActInstProcCode Source Column: ActInstProcCodeRevCount | VDT_REVISIONCOUNT Integer |
| AllModifierCodes | String consisted of Modifier, comma, Modifier2, comma, Modifier3, comma, Modifier4, comma, Modifier5, comma, Modifier6, comma, Modifier7. Source Table: ActInstProcCode Source Column: Modifier, Modifier2, Modifier3, Modifier4, Modifier5, Modifier6, Modifier7 | VDT_STRING64 Varchar(64) |

Table 166 Return Values for vp_GetChargesForDeluxeRep

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| DiagnosisId | The Id assigned to a diagnosis. Source Table: ActCaptDiagnosis Source Column: LastKnownDiagnosisCode | VDT_STRING254 Varchar(254) |
| RefMD | | VDT_NAME Varchar(64) |
| PrimaryMD | | VDT_NAME Varchar(64) |

vp_GetChargesForecast

The *vp_GetChargesForecast* stored procedure lists all changes for the user-selected patient and indicates if those changes are reported or not.

Table 165 Input Values for vp_GetChargesForecast

| SP Column Name | Description | Datatype |
|----------------|--------------------|------------------------------|
| @strPatientId | ID of the patient. | VDT_PATIENTID Varchar(25) |

Table 166 Return Values for vp_GetChargesForecast

| SP Column Name | Description | Datatype |
|------------------|--|------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientLastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupValue's for PATIENT_STATUS:New Patient (NP),Previous Patient (NOP). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|---------------------------|--|---------------------------------|
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_ID Varchar(16) |
| TemplateId | Identification of the template. Source Table: Template Source Column: TemplateID | VDT_STRING64 Varchar(64) |
| TemplateSer | System generated serial number for a template. Source Table: Template Source Column: TemplateSer | VDT_SERIALNUMBER Integer |
| TemplateRevCount | RevisionCount. Source Table: Template Source Column: TemplateRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCode Description | A description of the activity. Source Table: ProcedureCodeMH Source Column: Comment | VDT_DESCRIPTION Varchar(64) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology'</i> and other options. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| ProcedureBillingCode | The hospital specific activity charge code. Source Table: ProcedureCodeMH Source Column: BillingCode | VDT_ACTIVITYCODE Varchar(64) |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|--------------------------|--|-------------------------------|
| ActivityCategory | Name of activity category. Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ExportedDateTime | Date and time the charges were exported. Source Table: ActInstProcCode Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| FromDateOfService | Date and time of service when the activity was begun. Source Table: ActInstProcCode Source Column: FromDateOfService | VDT_DATETIME Datetime |
| ToDateOfService | Date and time of service when the activity ended. Source Table: ActInstProcCode Source Column: ToDateOfService | VDT_DATETIME Datetime |
| MarkedCompletedBy | Name of the person who marked activity completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdBy | VDT_USERNAME Varchar(32) |
| MarkedCompletedDate Time | Date and Time Activity was marked completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdDateTime | VDT_DATETIME Datetime |
| ExportedBy | User name of the person who exported the charges. Source Table: ActInstProcCode Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| ActivityExportedFlag | Set to 1 when ExportedDateTime is not equal null, otherwise set to 0. | bit |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|-----------------------------|
| ChargeWaivedBy | User name of the person who waived the charges. Source Table: ActInstProcCode Source Column: ChargeWaivedBy | VDT_USERNAME Varchar(32) |
| ReviewedBy | User name of the person who reviewed the activity capture. Source Table: ActInstProcCode Source Column: ReviewedBy | VDT_USERNAME Varchar(32) |
| PrmrGlblCharge | Total standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| PrmrTechCharge | Technical component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrTechCharge | VDT MONEY money |
| PrmrProfCharge | Professional component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrProfessCharge | VDT MONEY money |
| ChargedAmount | If ExportedDateTime is not NULL then charge this amount. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: ProfessionalRVU | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: GlobalRVU | VDT_FLOAT Float |
| TechnicalRVU | Technical component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: TechnicalRVU | VDT_FLOAT Float |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|-------------------------|---|---------------------------------|
| ActivityModifierCode | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. Source Table: ActivityCodeMdMH Source Column: Modifier | VDT_ACTIVITYCODE Varchar(64) |
| ActMdCodeDescription | Free text. Source Table: ActivityCodeMdMH Source Column: Description | VDT_DESCRIPTION Varchar(64) |
| AttendingOncologistName | String consisted of LastName, comma, and FirstName of Attending Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistId | Not used | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| ActivityCaptureSer | System generated serial number for a activity capture. Source Table: ActivityCapture Source Column: ActivityCaptureSer | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | RevisionCount. Source Table: ActivityCapture Source Column: ActivityCaptureRevCount | VDT_REVISIONCOUNT Integer |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|--------------------------|--|------------------------------|
| ActivityInstanceSer | Internal Identification (Serial Number which is the Primary Key to the ActivityInstance table). Source Table: ActInstProcCode Source Column: ActivityInstanceSer | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityInstanceRevCount | VDT_REVISIONCOUNT Integer |
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ModifierSer | Internal Identification (Serial Number which is the Primary Key to the ActivityCodeMd table). Source Table: ActInstProcCode Source Column: ModifierSer | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityCodeMdRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Internal Identification (Serial Number which is the Primary Key to the ProcedureCode table). Source Table: ActInstProcCode Source Column: ProcedureCodeSer | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ProcedureCodeRevCount | VDT_REVISIONCOUNT Integer |
| DiagnosisSer | Not used | VDT_SERIALNUMBER Integer |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|----------------------------|--|-----------------------------------|
| AccountBillingCodeSer | Internal Identification (Serial Number which is the Primary Key to the AccountBillingCode table). Source Table: ActivityCapture Source Column: AccountBillingCodeSer | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | RevisionCount. Source Table: ActivityCapture Source Column: AccountBillingCodeRevCount | VDT_REVISIONCOUNT Integer |
| ResourceSer | Internal Identification (Serial Number which is the Primary Key to the Resource table). Source Table: ActivityCapture Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AttendingOncologistSer | Internal Identification (Serial Number which is the Primary Key to the Doctor table). Source Table: ActivityCapture Source Column: AttendingOncologistSer | VDT_SERIALNUMBER Integer |
| DepartmentSer | Internal Identification (Serial Number which is the Primary Key to the Department table). Source Table: ActivityCapture Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. ■ 0 = OutPatient ■ 1 = InPatient Source Table: ActivityCapture Source Column: InPatientFlag | VDT_FLAG_FALSE_DEFAULT Integer |
| CreditedBy | User name of the person who authorize the credit. Source Table: Credit Source Column: CreditedBy | VDT_USERNAME Varchar(32) |
| CreditedDateTime | Date and time the credit was done. Source Table: Credit Source Column: CreditedDateTime | VDT_DATETIME Datetime |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|-------------------------|--|-------------------------------|
| CreditExportedBy | User name of the person who exported the credit. Source Table: Credit Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| CreditExportedDateTime | Date and time the credit was exported. Source Table: Credit Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| CreditNote | Source Table: Credit Source Column: Note | VDT_STRING254 Varchar(254) |
| CreditSer | System generated serial number for a credit. Source Table: Credit Source Column: CreditSer | VDT_SERIALNUMBER Integer |
| CreditRevCount | Not used | VDT_REVISIONCOUNT Integer |
| CreditAmount | If ExportedDateTime is not null, credit amount is null, otherwise it is equal negative. ProcedureCodeMH.PrmrGblCharge. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY money |
| ActInstProcCodeSer | System generated serial number for a activity instance procedure code. Source Table: ActInstProcCode Source Column: ActInstProcCodeSer | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActInstProcCodeRevCount | VDT_REVISIONCOUNT Integer |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |

Table 166 Return Values for vp_GetChargesForecast(continued)

| SP Column Name | Description | Datatype |
|-------------------|---|-------------------------------|
| OriginalCharge | If ExportedDateTime is not null, original charge is equal ProcedureCodeMH. PrmrGblCharge. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT_MONEY money |
| AllModifierCodes | String consisted of Modifier, comma, Modifier2, comma, Modifier3, comma, Modifier4, comma, Modifier5, comma, Modifier6, comma, Modifier7. Source Table: ActInstProcCode Source Column: Modifier, Modifier2, Modifier3, Modifier4, Modifier5, Modifier6, Modifier7 | VDT_STRING254 Varchar(254) |
| PrimaryOncologist | String consisted of LastName, comma, and FirstName of the primary Oncologist. Source Table: Doctor Source Column: LastName + First Name | VDT_STRING254 Varchar(254) |

vp_GetChargesReport

The *vp_GetChargesReport* stored procedure lists all the exported activities for the given exported date range. The report also includes the credited charges for the activity.

Table 167 Input Values for vp_GetChargesReport

| SP Column Name | Description | Datatype |
|-----------------|---|------------------------------|
| @PatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @TemplateId | Identifies the ID of the template. | VDT_ID Varchar(16) |
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported)included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported)included in the report. | VDT_DATETIME Datetime |
| @Start_FrmDate | Not used | VDT_DATETIME Datetime |
| @End_ToDate | Not used | VDT_DATETIME Datetime |
| @LastName | Identifies last name of patient. | VDT_NAME Varchar(64) |
| @FirstName | Identifies first name of patient. | VDT_NAME Varchar(64) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |

Table 167 Input Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|----------------|--------------------------|------------------------|
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(16) |

Table 168 Return Values for vp_GetChargesReport

| SP Column Name | Description | Datatype |
|--------------------|--|------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientLastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient. Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupValue's for PATIENT_STATUS:New Patient (NP),Previous Patient (NOP). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_ID Varchar(16) |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|---------------------------|---|---------------------------------|
| TemplateId | Identification of the template. Source Table: Template Source Column: TemplateID | VDT_STRING64 Varchar(64) |
| TemplateSer | System generated serial number for a template. Source Table: Template Source Column: TemplateSer | VDT_SERIALNUMBER Integer |
| TemplateRevCount | RevisionCount. Source Table: Template Source Column: TemplateRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCode Description | A description of the activity. Source Table: ProcedureCodeMH Source Column: Comment | VDT_DESCRIPTION Varchar(64) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology</i> , and other options. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| ProcedureBillingCode | The hospital specific activity charge code. Source Table: ProcedureCodeMH Source Column: BillingCode | VDT_ACTIVITYCODE Varchar(64) |
| ActivityCategory | Name of activity category. Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ExportedDateTime | Date and time the charges were exported. Source Table: ActInstProcCode Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| FromDateOfService | Date and time of service when the activity was begun. Source Table: ActInstProcCode Source Column: FromDateOfService | VDT_DATETIME Datetime |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| ToDateOfService | Date and time of service when the activity ended. Source Table: ActInstProcCode Source Column: ToDateOfService | VDT_DATETIME Datetime |
| MarkedCompletedBy | Name of the person who marked activity completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdBy | VDT_USERNAME Varchar(32) |
| MarkedCompletedDateTime | Date and Time Activity was marked completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdDateTime | VDT_DATETIME Datetime |
| ExportedBy | User name of the person who exported the charges. Source Table: ActInstProcCode Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| ActivityExportedFlag | Set to 1 when ExportedDateTime is not equal null, otherwise set to 0. | bit |
| ChargeWaivedBy | User name of the person who waived the charges. Source Table: ActInstProcCode Source Column: ChargeWaivedBy | VDT_USERNAME Varchar(32) |
| ReviewedBy | User name of the person who reviewed the activity capture. Source Table: ActInstProcCode Source Column: ReviewedBy | VDT_USERNAME Varchar(32) |
| PrmrGlblCharge | Total standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| PrmrTechCharge | Technical component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrTechCharge | VDT MONEY money |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------|
| PrmrProfCharge | Professional component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrProfessCharge | VDT_MONEY money |
| ChargedAmount | If credit status is active then it is equal PrmrGlblCharge, otherwise it is equal 0.0. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT_MONEY money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: ProfessionalRVU | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: GlobalRVU | VDT_FLOAT Float |
| TechnicalRVU | Technical component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: TechnicalRVU | VDT_FLOAT Float |
| ActivityModifierCode | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. Source Table: ActivityCodeMdMH Source Column: Modifier | VDT_ACTIVITYCODE Varchar(64) |
| ActMdCode Description | Free text Source Table: ActivityCodeMdMH Source Column: Description | VDT_DESCRIPTION Varchar(64) |
| AttendingOncologist Name | String consisted of LastName, comma, and FirstName of Attending Oncologist Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|--------------------------|--|------------------------------|
| OncologistId | Not used. | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| ActivityCaptureSer | System generated serial number for a activity capture. Source Table: ActivityCapture Source Column: ActivityCaptureSer | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | RevisionCount. Source Table: ActivityCapture Source Column: ActivityCaptureRevCount | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer | Internal Identification (Serial Number which is the Primary Key to the ActivityInstance table). Source Table: ActInstProcCode Source Column: ActivityInstanceSer | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityInstanceRevCount | VDT_REVISIONCOUNT Integer |
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ModifierSer | Internal Identification (Serial Number which is the Primary Key to the ActivityCodeMd table). Source Table: ActInstProcCode Source Column: ModifierSer | VDT_SERIALNUMBER Integer |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|----------------------------|--|------------------------------|
| ActivityCodeMdRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityCodeMdRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Internal Identification (Serial Number which is the Primary Key to the ProcedureCode table). Source Table: ActInstProcCode Source Column: ProcedureCodeSer | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ProcedureCodeRevCount | VDT_REVISIONCOUNT Integer |
| DiagnosisSer | Not used | VDT_SERIALNUMBER Integer |
| AccountBillingCodeSer | Internal Identification (Serial Number which is the Primary Key to the AccountBillingCode table). Source Table: ActivityCapture Source Column: AccountBillingCodeSer | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | RevisionCount. Source Table: ActivityCapture Source Column: AccountBillingCodeRevCount | VDT_REVISIONCOUNT Integer |
| ResourceSer | Internal Identification (Serial Number which is the Primary Key to the Resource table). Source Table: ActivityCapture Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AttendingOncologistSer | Internal Identification (Serial Number which is the Primary Key to the Doctor table). Source Table: ActivityCapture Source Column: AttendingOncologistSer | VDT_SERIALNUMBER Integer |
| DepartmentSer | Internal Identification (Serial Number which is the Primary Key to the Department table). Source Table: ActivityCapture Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|--------------------------------|
| InPatientFlag | <p>Flag indicating whether the patient stays in the hospital or not.</p> <ul style="list-style-type: none"> ■ 0 = OutPatient ■ 1 = InPatient <p>Source Table: ActivityCapture Source Column: InPatientFlag</p> | VDT_FLAG_FALSE_DEFAULT Integer |
| CreditedBy | <p>User name of the person who authorize the credit.</p> <p>Source Table: Credit Source Column: CreditedBy</p> | VDT_USERNAME Varchar(32) |
| CreditedDateTime | <p>Date and time the credit was done.</p> <p>Source Table: Credit Source Column: CreditedDateTime</p> | VDT_DATETIME Datetime |
| CreditExportedBy | <p>User name of the person who exported the credit.</p> <p>Source Table: Credit Source Column: ExportedBy</p> | VDT_USERNAME Varchar(32) |
| CreditExportedDateTime | <p>Date and time the credit was exported.</p> <p>Source Table: Credit Source Column: ExportedDateTime</p> | VDT_DATETIME Datetime |
| CreditNote | <p>Note</p> <p>Source Table: Credit Source Column: Note</p> | VDT_STRING254 Varchar(254) |
| CreditSer | <p>System generated serial number for a credit.</p> <p>Source Table: Credit Source Column: CreditSer</p> | VDT_SERIALNUMBER Integer |
| CreditRevCount | Not used | VDT_REVISIONCOUNT Integer |
| CreditAmount | <p>If credit status is active, than it is equal negative PrmrGblCharge, otherwise it is null.</p> <p>Source Table: ProcedureCodeMH Source Column: PrmrGblCharge</p> | VDT MONEY money |

Table 168 Return Values for vp_GetChargesReport(continued)

| SP Column Name | Description | Datatype |
|-----------------------------|---|-------------------------------|
| ActInstProcCodeSer | System generated serial number for a activity instance procedure code. Source Table: ActInstProcCode Source Column: ActInstProcCodeSer | VDT_SERIALNUMBER Integer |
| ActInstProcCode RevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActInstProcCodeRevCount | VDT_REVISIONCOUNT Integer |
| AllModifierCodes | String consisted of Modifier, comma, Modifier2, comma, Modifier3, comma, Modifier4, comma, Modifier5, comma, Modifier6, comma, Modifier7. Source Table: ActInstProcCode Source Column: Modifier, Modifier2, Modifier3, Modifier4, Modifier5, Modifier6, Modifier7 | VDT_STRING254 Varchar(254) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin | VDT_ID Varchar(16) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate | VDT_DATETIME Datetime |
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate | VDT_DATETIME Datetime |
| DiagnosisId | The Id assigned to a diagnosis. Source Table: ActCaptDiagnosis Source Column: LastKnownDiagnosisCode | VDT_STRING254 Varchar(254) |

vp_GetChartCheckReport2

The *vp_GetChartCheckReport2* stored procedure lists all patients scheduled for treatment on each machine during the selected period. The report includes the total prescribed dose, dose delivered to the time the report is generated, and the calculated number of fractions remaining for each reference point.

Table 169 Input Values for vp_GetChartCheckReport2

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 170 Return Values for vp_GetChartCheckReport2

| SP Column Name | Description | Datatype |
|-----------------|---|-----------------------------|
| PatientSer | System generated serial number for a patient. Source Table: ScheduledActivity Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |

Table 170 Return Values for vp_GetChartCheckReport2(continued)

| SP Column Name | Description | Datatype |
|------------------|---|-----------------------------------|
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| ClinicalStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_CLINICALSTATUS Varchar(16) |
| RefPointSer | System generated serial number for a reference point. Source Table: RefPoint Source Column: RefPointSer | VDT_SERIALNUMBER Integer |
| RefPointId | Unique ID for reference point. Source Table: RefPoint Source Column: RefPointId | VDT_ID Varchar(16) |
| RefPointName | Name of a reference point. Source Table: RefPoint Source Column: RefPointName | VDT_NAME Varchar(64) |

Table 170 Return Values for vp_GetChartCheckReport2(continued)

| SP Column Name | Description | Datatype |
|--------------------|--|-------------------------|
| TotalDoseLimit | Absolute total dose limit for this RefPoint. This is actually a kind of 'total breakpoint'. Treatments cannot go beyond this Limit without a qualified dose override procedure. Source Table: RefPoint Source Column: TotalDoseLimit | VDT_DOSE Float |
| DailyDoseLimit | Absolute total dose limit for this RefPoint per session. Or: Same as TotalDoseLimit, just for the time period of a treatment session. Source Table: RefPoint Source Column: SessionDoseLimit | VDT_DOSE Float |
| SessionCount | A count of the sessions. | VDT_DOSE Float |
| FractionsRemaining | Returns the calculated number of fractions remaining. | VDT_INT Integer |
| TotalDeliveredDose | Total delivered dose to date for this reference point. Source Table: RefPointDeliveredDose Source Column: TotDeliveredDose | VDT_DOSE Float |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |

Table 170 Return Values for vp_GetChartCheckReport2(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|-------------------------------|
| DoctorAliasName | The physician's name that appears on the screen instead of the combination of Honorific, FirstName, MiddleName, LastName, and NameSuffix. The DisplayName field is set in the Administration application (see Physician Profile under Resource). Source Table: Doctor Source Column: AliasName | VDT_NAME Varchar(64) |
| Honorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| PrimaryFlag | Indicates if this is the patient's primary care physician. Values are: <ul style="list-style-type: none">■ 1 = Primary care physician■ 0 = Not primary care physician Source View: vv_PatientDoctor Source Column: PrimaryFlag | VDT_FLAG Integer |
| DoseConfig | Configuration value for dose units, either Gy or cGy. Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |
| ApprovalStatus | Status of the treatment plan for ListSelector 'APPROVAL_STATUS'. Values are: <ul style="list-style-type: none">■ Reviewed■ Completed■ PlanApproval■ TreatApproval Source Table: LookupTable Source Column: Expression1 | VDT_STRING32 Varchar(32) |
| PrescribedDose | Total Planned dose for the plan. | VDT_DOSE Float |

Table 170 Return Values for vp_GetChartCheckReport2(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------|
| PlanSetupId | External identification of the Plan Setup Source Table: PlanSetup Source Column: PlanSetupId | VDT_ID Varchar(16) |
| ReportStartDate | @StartDate | VDT_DATETIME Datetime |
| ReportEndDate | @EndDate | VDT_DATETIME Datetime |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin | VDT_ID Varchar(16) |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |

vp_GetChrgsByActCategory

The *vp_GetChrgsByActCategory* stored procedure identifies all activity name, activity category, procedure code, average unit charge, quantity and total charge (average unit charge * quantity) grouped by *ActivityCategory* for the given date range. Totals are displayed for each *ActivityCategory* and each date.

Table 171 Input Values for vp_GetChrgsByActCategory

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------|
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 172 Return Values for vp_GetChrgsByActCategory

| SP Column Name | Description | Datatype |
|--------------------------|--|---------------------------------|
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime Formula: convert (varchar(2), datepart (mm, ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(2), datepart(dd,ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(4), datepart (yy, ActInstProcCode. CompletedDateTime)) | VDT_DATETIME Datetime |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCodeDescription | Comment of procedure code. Source Table: ProcedureCodeMH Source Column: Comment | VDT_COMMENT Varchar(254) |
| ProcedureCodeType | Not used | VDT_TYPE Varchar(32) |
| ActivityCategory | Lookup available for ACTIVITY_CATEGORY Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| TotalChargeCost | Sum of all total standard charge that primary payor allows for procedure. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| UserDefinedCode | Not used | VDT_ACTIVITYCODE Varchar(64) |
| NumberofOccurrences | Number of charges. | VDT_INT Integer |

Table 172 Return Values for vp_GetChrgsByActCategory(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------|
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate. | VDT_DATETIME Datetime |
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate. | VDT_DATETIME Datetime |
| AvgUnitCost | Average charge cost defined as TotalChargeCost divided by NumberofOccurrences. | VDT MONEY money |

vp_GetChrgsByActName

The *vp_GetChrgsByActName* stored procedure identifies all activity name, procedure code, average unit charge, quantity, and total charge (average unit charge * quantity) grouped by *ActivityName* for the given date range. Totals are displayed for each *ActivityName* and each date.

Table 173 Input Values for vp_GetChrgsByActName

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------|
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled Otherwise NULL | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 174 Return Values for vp_GetChrgsByActName

| SP Column Name | Description | Datatype |
|--------------------------|--|-----------------------------|
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime Formula: convert (varchar(2), datepart (mm, ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(2), datepart(dd,ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(4), datepart (yy, ActInstProcCode. CompletedDateTime)) | VDT_DATETIME Datetime |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCodeDescription | Comment of procedure code. Source Table: ProcedureCodeMH Source Column: Comment | VDT_COMMENT Varchar(254) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology</i> , and others. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| TotalChargeCost | Sum of all total standard charges that primary payor allows for procedures Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| NumberofOccurrences | Number of charges. | VDT_INT Integer |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate. | VDT_DATETIME Datetime |

Table 174 Return Values for vp_GetChrgsByActName(continued)

| SP Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate. | VDT_DATETIME Datetime |
| ActivityCategory | Lookup available for ACTIVITY_CATEGORY. Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| AvgUnitCost | Average charge cost defined as TotalChargeCost divided by NumberofOccurrences. | VDT MONEY money |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |

vp_GetChrgsByActType

The *vp_GetChrgsByActType* stored procedure identifies all activity name, activity type, procedure code, average unit charge, quantity and total charge (average unit charge * quantity) grouped by activity type for the given date range. Totals are displayed for each *Activity Type* and each date.

Table 175 Input Values for vp_GetChrgsByActType

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------|
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported)included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 176 Return Values for vp_GetChrgsByActType

| SP Column Name | Description | Datatype |
|--------------------------|--|-----------------------------|
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime Formula: convert (varchar(2), datepart (mm, ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(2), datepart(dd,ActInstProcCode. CompletedDateTime)) + "/" + convert (varchar(4), datepart (yy, ActInstProcCode. CompletedDateTime)) | VDT_DATETIME Datetime |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCodeDescription | Comment of procedure code. Source Table: ProcedureCodeMH Source Column: Comment | VDT_COMMENT Varchar(254) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology</i> , and others. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| TotalChargeCost | Sum of all total standard charges that primary payor allows for procedures. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| NumberofOccurrences | Number of charges. | VDT_INT Integer |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(64) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate. | VDT_DATETIME Datetime |

Table 176 Return Values for vp_GetChrgsByActType(continued)

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate. | VDT_DATETIME Datetime |
| AvgUnitCost | Average charge cost defined as TotalChargeCost divided by NumberofOccurrences. | VDT MONEY money |

vp_GetCourseDiagnosis

The *vp_GetCourseDiagnosis* stored procedure identifies all course, diagnosis, and prescription information for the selected patient. Diagnoses not attached to the course are not included. The printed report offers space for an approval signature and date.

Table 177 Input Values for vp_GetCourseDiagnosis

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @strCourseId | Identifies the ID of the course. | VDT_ID Varchar(16) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 178 Return Values for vp_GetCourseDiagnosis

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| CourseStatus | Language specific expressions for a course. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| ClinicalStatus | <p>Indicates clinical status of course. Possible states are:</p> <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED <p>Source Table: Course Source Column: ClinicalStatus</p> | VDT_CLINICALSTATUS Varchar(16) |
| Intent | <p>Describes objective of course as related to patient's disease. Example of values (selected from the list entered in the Administration application) are:</p> <ul style="list-style-type: none">■ Curative■ Palliative■ Unknown■ Definitive <p>Source Table: Course Source Column: Intent</p> | VDT_INTENT Varchar(16) |
| CourseNote | <p>Describes the treatment course.</p> <p>Source Table: Course Source Column: Comment</p> | VDT_COMMENT Varchar(254) |
| StartTime | <p>Date and Time Treatment was begun on this Course.</p> <p>Source Table: Course Source Column: StartDateTime</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CourseEndDate | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|-------------------------------|
| ClinicalConceptId | External identification of the Plan Setup. Source Table: PlanSetup Source Column: PlanSetupId | VDT_ID Varchar(16) |
| Volume | External identification of an instance. Source Table: PatientVolume Source Column: VolumeId | VDT_STRING64 Varchar(64) |
| EnergyMode | Beam type (photons or electrons) and energy of the radiation (in MV or MeV). Source Table: EnergyMode Source Column: Energy, RadiationType | VDT_STRING254 Varchar(254) |
| Depth | Not used | VDT_STRING16 Varchar(16) |
| DosePerFraction | The Dose which is delivered to the RefPoint by all fields of the PlanSetup for one Fraction. This dose is the normalized dose (the dose exactly at the location of the RefPoint). Source Table: DoseContribution Source Column: DosePerFraction | VDT_DOSE Float |
| FractionsPerWeek | Number of fractions per week. Source Table: Fractionation Source Column: FractionsPerWeek | VDT_INT Integer |
| NumberOfWeeks | Not used | VDT_STRING16 Varchar(16) |
| PrescribedDose | Total Planned dose for the plan. | VDT_DOSE Float |
| ClinicalConceptComment | Note about any other information regarding this plan setup. Source Table: PlanSetup Source Column: Comment | VDT_COMMENT Varchar(254) |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. Source Table: PlanSetup Source Column: HstryUserName | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. Source Table: PlanSetup Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| DoseConfig | Value of the configuration item ID <i>Dose</i> for ConfigurationSetId <i>GblUnit</i> . Value of the dose configuration parameter, in Gy or cGy Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorHonorable | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorable | VDT_STRING16 Varchar(16) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| TreatApprovalDate | Date and time when the plan concept correlation was approved for treatment. Source Table: PlanSetup Source Column: StatusDate | VDT_DATETIME Datetime |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|-----------------------|---|-----------------------------|
| TreatApprovalUserName | Name of person who approved this concept for treatment. Source Table: PlanSetup Source Column: StatusUserName | VDT_USERNAME Varchar(32) |
| ApprovalStatus | Status of the treatment plan for ListSelector 'APPROVAL_STATUS'. Values are: <ul style="list-style-type: none">■ Reviewed■ Completed■ PlanApproval■ TreatApproval Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| TreatmentType | Not used | VDT_STRING16 Varchar(16) |
| NumberOfFractions | Number of fractions planned. | VDT_COUNT Integer |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STATUS32 Varchar(32) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |

Table 178 Return Values for vp_GetCourseDiagnosis(continued)

| SP Column Name | Description | Datatype |
|--------------------|--|-------------------------------|
| Sex | Sex of the patient corresponding the values in LookupTable for sex <i>'Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown'.</i> Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| FractionsPerDay | Number of fractions per day. Source Table: Fractionation Source Column: FractionPerDay | VDT_STRING254 Varchar(254) |
| PrimaryNote | Free text. Source Table: PlanSetup Source Column: Comment | VDT_COMMENT Varchar(254) |
| FractionsRemaining | Number of fractions planned without treated fractions. | VDT_INT Integer |
| PlanSetupName | Name of the PlanSetup. Source Table: PlanSetup Source Column: PlanSetupName | VDT_NAME Varchar(64) |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |

vp_GetCourseDiagnosisRptAll

The *vp_GetCourseDiagnosisRptAll* stored procedure identifies all course, diagnosis, and prescription information for the selected patient. Diagnoses not attached to the course are not included. The printed report offers space for an approval signature and date.

Table 179 Input Values for vp_GetCourseDiagnosisRptAll

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @strCourseId | Identifies the ID of the course. | VDT_ID Varchar(16) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID varchar(64) |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| CourseStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|-----------------------------------|
| ClinicalStatus | <p>Indicates clinical status of course. Possible states are:</p> <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED <p>Source Table: Course Source Column: ClinicalStatus</p> | VDT_CLINICALSTATUS Varchar(16) |
| Intent | <p>Describes objective of course as related to patient's disease. Example of values (selected from the list entered in the Administration application) are:</p> <ul style="list-style-type: none"> ■ Curative ■ Palliative ■ Unknown ■ Definitive <p>Source Table: Course Source Column: Intent</p> | VDT_INTENT Varchar(16) |
| CourseNote | <p>Describes the treatment course.</p> <p>Source Table: Course Source Column: Comment</p> | VDT_COMMENT Varchar(254) |
| StartTime | <p>Date of patient's admission to hospital.</p> <p>Source Table: Course Source Column: StartDateTime</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CourseEndDate | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|-------------------------------|
| ClinicalConceptId | External identification of the Plan Setup. Source Table: PlanSetup Source Column: PlanSetupId | VDT_ID Varchar(16) |
| Volume | External identification of an instance. Source Table: PatientVolume Source Column: VolumeId | VDT_STRING64 Varchar(64) |
| EnergyMode | Beam type (photons or electrons) and energy of the radiation (in MV or MeV). Source Table: EnergyMode Source Column: Energy, RadiationType | VDT_STRING254 Varchar(254) |
| Depth | Not used | VDT_STRING16 Varchar(16) |
| DosePerFraction | The Dose which is delivered to the RefPoint by all fields of the PlanSetup for one Fraction. This dose is the normalized dose (the dose exactly at the location of the RefPoint). Source Table: DoseContribution Source Column: DosePerFraction | VDT_DOSE Float |
| FractionsPerWeek | Number of fractions per week. Source Table: Fractionation Source Column: FractionsPerWeek | VDT_INT Integer |
| NumberOfWeeks | Not used | VDT_STRING16 Varchar(16) |
| PrescribedDose | Total Planned dose for the plan. | VDT_DOSE Float |
| ClinicalConceptComment | Note about any other information regarding this plan setup. Source Table: PlanSetup Source Column: Comment | VDT_COMMENT Varchar(254) |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|-------------------|--|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. Source Table: PlanSetup Source Column: HstryUserName | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. Source Table: PlanSetup Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| DoseConf1 | Value of the configuration item ID 'Dose' for ConfigurationSetId 'GblUnit'. Value of the dose configuration parameter, in Gy or cGy. Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none"> ■ Dr ■ Mr ■ Mrs ■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| TreatApprovalDate | Date and time when the plan concept correlation was approved for treatment. Source Table: PlanSetup Source Column: StatusDate | VDT_DATETIME Datetime |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|-----------------------|---|-----------------------------|
| TreatApprovalUserName | Name of person who approved this concept for treatment. Source Table: PlanSetup Source Column: StatusUserName | VDT_USERNAME Varchar(32) |
| ApprovalStatus | Status of the treatment plan for ListSelector 'APPROVAL_STATUS'. Values are: <ul style="list-style-type: none">■ Reviewed■ Completed■ PlanApproval■ TreatApproval Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| TreatmentType | Not used | VDT_STRING16 Varchar(16) |
| NumberOfFractions | Number of fractions planned. | VDT_COUNT Integer |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STATUS64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA. Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |

Table 180 Return Values for vp_GetCourseDiagnosisRptAll(continued)

| SP Column Name | Description | Datatype |
|--------------------|--|-------------------------------|
| Sex | Sex of the patient corresponding the values in LookupTable for sex <i>(Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown).</i> Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| FractionsPerDay | Number of fractions per day. Source Table: Fractionation Source Column: FractionPerDay | VDT_STRING254 Varchar(254) |
| PrimaryNote | Free text. Source Table: PlanSetup Source Column: Comment | VDT_COMMENT Varchar(254) |
| FractionsRemaining | Number of fractions planned without treated fractions. | VDT_INT Integer |

vp_GetDailyChargesReview

The *vp_GetDailyChargesReview* stored procedure lists all charges exported within the specified start and end dates.

Table 181 Input Values for vp_GetDailyChargesReview

| SP Column Name | Description | Datatype |
|-----------------|---|------------------------------|
| @PatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 182 Return Values for vp_GetDailyChargesReview

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| PatientId | Unique patient identifier assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|--------------------|--|-----------------------------|
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | Not used | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_ID Varchar(16) |
| TemplateId | Identification of the template. This is a NULL field. Source Table: Template Source Column: TemplateID | VDT_STRING64 Varchar(64) |
| TemplateSer | This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. Source Table: Template Source Column: TemplateSer | VDT_SERIALNUMBER Integer |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|------------------------------|--|---------------------------------|
| TemplateRevCount | RevisionCount. Source Table: Template Source Column: TemplateRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCode Description | A description of the activity. Source Table: ProcedureCode Source Column: Comment | VDT_DESCRIPTION Varchar(64) |
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology</i> , and others. Source Table: ProcedureCode Source Column: CodeType | VDT_TYPE Varchar(32) |
| ProcedureBillingCode | The hospital specific activity charge code. Source Table: ProcedureCode Source Column: BillingCode | VDT_ACTIVITYCODE Varchar(64) |
| ActivityCategoryCode | Name of activity category. Source Table: ActivityCategory Source Column: ActivityCategoryCode | VDT_STRING128 Varchar(128) |
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ExportedDateTime | Date and time the charges were exported. Source Table: ActInstProcCode Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| FromDateOfService | Date and time of service when the activity was begun. Source Table: ActInstProcCode Source Column: FromDateOfService | VDT_DATETIME Datetime |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| ToDateOfService | Date and time of service when the activity ended. Source Table: ActInstProcCode Source Column: ToDateOfService | VDT_DATETIME Datetime |
| MarkedCompletedBy | Name of the person who marked activity completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdBy | VDT_USERNAME Varchar(32) |
| MarkedCompletedDateTime | Date and Time Activity was marked completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdDateTime | VDT_DATETIME Datetime |
| ExportedBy | User name of the person who exported the charges. Source Table: ActInstProcCode Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| ActivityExportedFlag | Not used | Integer |
| ChargeWaivedBy | User name of the person who waived the charges. Source Table: ActInstProcCode Source Column: ChargeWaivedBy | VDT_USERNAME Varchar(32) |
| ReviewedBy | User name of the person who reviewed the activity capture. Source Table: ActInstProcCode Source Column: ReviewedBy | VDT_USERNAME Varchar(32) |
| PrmrGlblCharge | Total standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| PrmrTechCharge | Technical component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrTechCharge | VDT MONEY money |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|--------------------------|---|---------------------------------|
| PrmrProfCharge | Professional component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrProfessCharge | VDT_MONEY money |
| ChargedAmount | If ExportedDateTime is not NULL then charge this amount. Source Table: ProcedureCodeMH Source Column: PrmrGlbCharge | VDT_MONEY money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: ProfessionalRVU | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: GlobalRVU | VDT_FLOAT Float |
| TechnicalRVU | Technical component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: TechnicalRVU | VDT_FLOAT Float |
| ActivityModifierCode | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. Source Table: ActivityCodeMdMH Source Column: Modifier | VDT_ACTIVITYCODE Varchar(64) |
| ActMdCodeDescription | Free text Source Table: ActivityCodeMdMH Source Column: Description | VDT_DESCRIPTION Varchar(64) |
| AttendingOncologist Name | String consisted of LastName, comma, and FirstName of Attending Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|--------------------------|--|------------------------------|
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistId | Not used. | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Not used | VDT_NAME Varchar(64) |
| ActivityCaptureSer | This is a Serial Number that acts as the Primary Key to the Table. Serial Numbers are automatically generated by Database Stored Procedures during the insert operation. Source Table: ActivityCapture Source Column: ActivityCaptureSer | VDT_SERIALNUMBER Integer |
| ActivityCaptureRevCount | RevisionCount. Source Table: ActivityCapture Source Column: ActivityCaptureRevCount | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer | Internal Identification (Serial Number which is the Primary Key to the ActivityInstance table). Source Table: ActInstProcCode Source Column: ActivityInstanceSer | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityInstanceRevCount | VDT_REVISIONCOUNT Integer |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|----------------------------|---|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ModifierSer | Internal Identification (Serial Number which is the Primary Key to the <i>ActivityCodeMd</i> table). Source Table: ActInstProcCode Source Column: ModifierSer | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityCodeMdRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Internal Identification (Serial Number which is the Primary Key to the <i>ProcedureCode</i> table). Source Table: ActInstProcCode Source Column: ProcedureCodeSer | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ProcedureCodeRevCount | VDT_REVISIONCOUNT Integer |
| DiagnosisSer | Not used | VDT_SERIALNUMBER Integer |
| AccountBillingCodeSer | Internal Identification (Serial Number which is the Primary Key to the <i>AccountBillingCode</i> table). Source Table: ActivityCapture Source Column: AccountBillingCodeSer | VDT_SERIALNUMBER Integer |
| AccountBillingCodeRevCount | RevisionCount. Source Table: ActivityCapture Source Column: AccountBillingCodeRevCount | VDT_REVISIONCOUNT Integer |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|------------------------|--|-----------------------------------|
| ResourceSer | Internal Identification (Serial Number which is the Primary Key to the Resource table). Source Table: ActivityCapture Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AttendingOncologistSer | Internal Identification (Serial Number which is the Primary Key to the Doctor table). Source Table: ActivityCapture Source Column: AttendingOncologistSer | VDT_SERIALNUMBER Integer |
| DepartmentSer | Internal Identification (Serial Number which is the Primary Key to the Department table). Source Table: ActivityCapture Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. ■ 0 = OutPatient ■ 1 = InPatient Source Table: ActivityCapture Source Column: InPatientFlag | VDT_FLAG_FALSE_DEFAULT Integer |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin | VDT_ID Varchar(16) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate | VDT_DATETIME Datetime |
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate | VDT_DATETIME Datetime |
| AllModifierCodes | String consisted of Modifier, comma, Modifier2, comma, Modifier3, comma, Modifier4, comma, Modifier5, comma, Modifier6, comma, Modifier7. Source Table: ActInstProcCode Source Column: Modifier , Modifier2, Modifier3, Modifier4, Modifier5, Modifier6, Modifier7 | VDT_STRING254 Varchar(254) |

Table 182 Return Values for vp_GetDailyChargesReview(continued)

| SP Column Name | Description | Datatype |
|------------------------|--|-------------------------------|
| CreditedBy | User name of the person who authorize the credit. Source Table: Credit Source Column: CreditedBy | VDT_USERNAME Varchar(32) |
| CreditedDateTime | Date and time the credit was done. Source Table: Credit Source Column: CreditedDateTime | VDT_DATETIME Datetime |
| CreditExportedBy | User name of the person who exported the credit. Source Table: Credit Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| CreditExportedDateTime | Date and time the credit was exported. Source Table: Credit Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| CreditNote | Source Table: Credit Source Column: Note | VDT_STRING254 Varchar(254) |
| CreditSer | System generated serial number for a credit. Source Table: Credit Source Column: CreditSer | VDT_SERIALNUMBER Integer |
| CreditRevCount | Not used | VDT_REVISIONCOUNT Integer |
| CreditAmount | If credit status is active, than it is equal to a negative PrmrGblCharge, otherwise it is null. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY Money |
| DiagnosisId | The Id assigned to a diagnosis. Source Table: ActCaptDiagnosis Source Column: LastKnownDiagnosisCode | VDT_STRING254 Varchar(254) |

vp_GetDeptSchedule

The *vp_GetDeptSchedule* stored procedure lists the patient related activities for patients scheduled in each department.

Table 183 Input Values for vp_GetDeptSchedule

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| @StartDate | The starting date of the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date of the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 184 Return Values for vp_GetDeptSchedule

| SP Column Name | Description | Datatype |
|--------------------|---|-----------------------------|
| ScheduledStartTime | Scheduled start date and time of the appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | VDT_DATETIME Datetime |
| ActivityExpression | Local language expression1 for ListSelector ACTIVITY in LookupTable. Source Table: vv_ActivityLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |

Table 184 Return Values for vp_GetDeptSchedule(continued)

| SP Column Name | Description | Datatype |
|-------------------|---|-------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| ActivityCode | Local language expression1 for ListServer ACTIVITY in Lookup Table. Source Table: vv_ActivityLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| AppointmentStatus | The schedule activity code. Values are: <ul style="list-style-type: none">■ Cancelled■ Cancelled - Patient No-Show■ Completed■ In Progress■ Manually Completed■ Open■ Patient On-Break■ Pt. ComplActive■ Pt. ComplFinish■ Reschedule Activity (In-Active) Source Table: ScheduledActivity Source Column: ScheduledActivityCode | VDT_STRING254 Varchar(254) |
| ActivityNote | A note about the scheduled activity. Source Table: ScheduledActivity Source Column: ActivityNote | VDT_STRING254 Varchar(254) |
| ResourceName | Name of a resource. Source Table: vv_ResourceName Source Column: ResourceName | VDT_NAME Varchar(64) |

Table 184 Return Values for vp_GetDeptSchedule(continued)

| SP Column Name | Description | Datatype |
|--------------------|---|--------------------------------|
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (<i>New Patient (NP)/Previous Patient (NOP)</i>). Source Table: PatientActuals Source Column: PatientStatus | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_ID Varchar(16) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| Sex | The sex of the patient corresponds to the values in the LookupTable for sex. That values are: <ul style="list-style-type: none">■ Female■ Male■ Not Stated■ Other (Hermaphrodite)■ Transsexual■ Unknown | VDT_STRING64 Varchar(64) |

Table 184 Return Values for vp_GetDeptSchedule(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|---------------------------|
| ScheduledDate | The date portion of the <i>ScheduledStartTime</i> column, converted to a mm/dd/yy format. Source Table: ScheduledActivity Source Column: ScheduledStartTime Formula: convert(varchar, ScheduledActivity.ScheduledStartTime,) | VDT_STRING8 Varchar(8) |
| ScheduledTime | Time of a scheduled appointment or activity is converted to a string that includes the scheduled start date and time. Source Table: ScheduledActivity Source Column: ScheduledStartTime | Varchar(8) |
| ReportRunBy | Identifies the output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | Lists the output parameter as @StartDate. | VDT_DATETIME Datetime |
| ReportEndDate | Shows the output parameter as @EndDate. | VDT_NAME Varchar(64) |

vp_GetDiagnosisCode

The *vp_GetDiagnosisCode* stored procedure retrieves schedule information for physician and staff members.

Table 185 Input Values for vp_GetDiagnosisCode

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| @StartDate | The starting date of the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date of the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 186 Return Values for vp_GetDiagnosisCode

| SP Column Name | Description | Datatype |
|--------------------|---|---------------------------------------|
| DiagnosisTableName | Diagnosis coding system. Values can include: <ul style="list-style-type: none">■ ICD-9 (default)■ ICD-10■ ICD-0 Additional Diagnosis Table Standards (DTS) tables can be added using the Data Administration application. Source Table: Diagnosis Source Column: DiagnosisTableName | VDT_DIAGNOSISTABLENAME Varchar(64) |
| DiagnosisCode | Alphanumeric value that describes a particular diagnosis. These values are typically assigned by an authority who is recognized and supported by the medical community. Source Table: Diagnosis Source Column: DiagnosisCode | VDT_DIAGNOSISCODE Varchar(16) |

Table 186 Return Values for vp_GetDiagnosisCode

| SP Column Name | Description | Datatype |
|-----------------|---|-------------------------------|
| DiagnosisDesc | Description of the diagnosis; the cause of a disease inferred from the analysis of symptoms and diagnostic test results. Source Table: Diagnosis Source Column: Description | VDT_STRING254 Varchar(254) |
| CodeCount | A computed column. | Integer |
| ReportStartDate | @StartDate | VDT_DATETIME Datetime |
| ReportEndDate | @EndDate | VDT_DATETIME Datetime |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |

vp_GetDoctorStaffSchedule

The *vp_GetDoctorStaffSchedule* stored procedure retrieves schedule information for physician and staff members.

Table 187 Input Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|-------------------|--|--------------------------|
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @strDoctorStaffId | Id of Doctor or Staff. | VDT_ID Varchar(16) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 188 Return Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|------------------|--|------------------------------|
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |

Table 188 Return Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|--------------------|--|----------------------------------|
| DiagnosisCode | Alphanumeric value that describes a particular diagnosis. These values are typically assigned by an authority who is recognized and supported by the medical community. Source Table: Diagnosis Source Column: DiagnosisCode | VDT_DIAGNOSISCODE Varchar(16) |
| DiagnosisDesc | Description of the diagnosis; the cause of a disease inferred from the analysis of symptoms and diagnostic test results. Source Table: Diagnosis Source Column: Description | VDT_STRING254 Varchar(254) |
| ActivityNote | A note about the scheduled activity. Source Table: ScheduledActivity Source Column: ActivityNote | VDT_STRING254 Varchar(254) |
| ScheduledStartTime | Scheduled start time of appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | VDT_DATETIME Datetime |
| ScheduledEndTime | Scheduled end time of appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledEndTime | VDT_DATETIME Datetime |
| ScheduledDate | Date portion of the ScheduledStartTime column converted to mm/dd/yy format. Source Table: ScheduledActivity Source Column: ScheduledStartTime Formula: convert(varchar, ScheduledActivity.ScheduledStartTime,) | VDT_STRING8 Varchar(8) |
| ActivityName | Local language expression1 for ListSelector ACTIVITY in LookupTable. Source Table: vv_ActivityLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |

Table 188 Return Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|------------------------|---|-------------------------------|
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| OncologistOrStaff Name | String contains: Doctor Last Name, comma, DoctorFirstName for Doctor or Staff Last Name, comma, Staff First Name for Staff Source Table: Doctor or Staff Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| ActivitySer | System generated serial number for this activity. Source Table: Activity Source Column: ActivitySer | VDT_SERIALNUMBER Integer |
| DepartmentSer | System generated serial number for the department. Source Table: ScheduledActivity Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |
| ResourceSer | System generated serial number for a schedulable resource. Source Table: Resource Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AppointmentStatus | The schedule activity code. Values are: <ul style="list-style-type: none">■ Cancelled■ Cancelled - Patient No-Show■ Completed■ In Progress■ Manually Completed■ Open■ Patient On-Break■ Pt. CompltActive■ Pt. CompltFinish■ Reschedule Activity (In-Active) Source Table: ScheduledActivity Source Column: ScheduledActivityCode | VDT_STRING254 Varchar(254) |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |

Table 188 Return Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: PatientActuals Source Column: PatientStatus | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: Patient Source Column: Sex | VDT_STRING64 Varchar(64) |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| PatientSer | System generated serial number for a patient. Source Table: ScheduledActivity Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ReportStartDate | @StartDate | VDT_DATETIME Datetime |
| ReportEndDate | @EndDate | VDT_DATETIME Datetime |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |

Table 188 Return Values for vp_GetDoctorStaffSchedule

| SP Column Name | Description | Datatype |
|----------------------------------|---|-------------------------|
| OncologistOrStaff DisplayName | Staff Alias Name for Staff or Doctor Alias Name for Doctor. Source Table: Doctor or Staff Source Column: AliasName | VDT_NAME Varchar(64) |
| ScheduledTime | Time of converted to string scheduled start date and time of the appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | Varchar(8) |

vp_GetExtendedPlanMHRep

The *vp_GetExtendedPlanMHRep* stored procedure includes the history of all modifications made to each plan for each course for the selected patient and also includes AddOn treatment which would be of interest to customers who use non-Varian treatment machines.

Table 189 Input Values for vp_GetExtendedPlanMHRep

| SP Column Name | Description | Datatype |
|----------------|------------------------------------|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |

Table 190 Return Values for vp_GetExtendedPlanMHRep

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| RadiationSer | System generated serial number for a field. Source Table: Field Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| FieldRevCount | Revision count of the corresponding record in the Field table. Source Table: Field Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |
| GantryRtn | Gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment. Source Table: Field Source Column: GantryRtn | VDT_ANGLE Float |
| CollRtn | Collimator rotation angle during field treatment, in degrees. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y Source Table: Field Source Column: CollMode | VDT_COLLMODE Varchar(16) |
| CollY1 | Collimator top (farther from gantry) Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1 Formula: Field.CollY1 * -1.0 | VDT_COLLPARAM Float |
| CollY2 | Collimator bottom Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY2 | VDT_COLLPARAM Float |
| CollX1 | Collimator right X position (viewed from radiation source). In IEC scale, values increase to right. Source Table: Field Source Column: CollX1 Formula: Field.CollX1 * -1.0 | VDT_COLLPARAM Float |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|------------------------------|
| CollX2 | Collimator left X position. In IEC scale, values increase to right. Source Table: Field Source Column: CollX2 | VDT_COLLPARAM Float |
| CouchVrt | Couch vertical position. In IEC scale, values increase when moving up, and zero is at isocentric height. Source Table: Field Source Column: CouchVrt | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position. In IEC scale, values increase when moving toward gantry. Source Table: Field Source Column: CouchLng | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position. In IEC scale, values increase to left when viewed from gantry. Source Table: Field Source Column: CouchLat | VDT_COUCHPARAM Float |
| Technique | Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are: <ul style="list-style-type: none">■ STATIC■ ARC■ TOTAL■ HDTSE Source Table: Field Source Column: Technique | VDT_TECHNIQUE Varchar(16) |
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: PatientSupportAngle | VDT_ANGLE Float |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| EnergyMode | String consist of converted EnergyMode divided by 0 and RadiationType. Source Table: EnergyMode Source Column: EnergyMode, RadiationType | VDT_ENERGYMODE Varchar(16) |
| SSD | Source-to-skin distance (same as target-to-skin distance). Source Table: Field Source Column: SSD | VDT_FLOAT Float |
| MU | Number of monitor units (MUs) to deliver to the field during treatment exposure, equal MUpGy * FieldDose. Source Table: FieldRefPointMH Source Column: FieldDose | VDT_MU Integer |
| TreatmentTime | Total treatment time of this field. Used to verify that the user is not given too large a dose. Calculated from MUpGy and DoseRate. Source Table: Field Source Column: TreatmentTime | VDT_TIME Float |
| StopAngle | Rotation angle of the gantry at which irradiation and rotation stop during an electron or X-ray Arc treatment. Source Table: Field Source Column: StopAngle | VDT_ANGLE Float |
| MUpDeg | Not used | VDT_MUDEG Float |
| ToleranceId | Unique ID for this table. Source Table: Tolerance Source Column: ToleranceId | VDT_ID Varchar(16) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------------|--|-----------------------------------|
| MachineScale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| TreatApprovalUserName | <p>The user who set Status</p> <p>Source Table: PlanSetup Source Column: StatusUserName</p> | VDT_USERNAME Varchar(32) |
| TreatApprovalDate | <p>The date/time when Status was set. This may be a nominal time different to the time of the update, according to application logic</p> <p>Source Table: PlanSetup Source Column: StatusDate</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CompletedDateTime | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |
| ClinicalStatus | <p>Indicates clinical status of course.</p> <p>Possible states are:</p> <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED <p>Source Table: Course Source Column: ClinicalStatus</p> | VDT_CLINICALSTATUS Varchar(16) |
| HstryUserName | <p>Username of the person logged into the workstation when data in the row was modified.</p> <p>Source Table: Radiation Source Column: HstryUserName</p> | VDT_HSTRYUSERNAME Varchar(32) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-------------------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. Source Table: Radiation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| GantryRtnExt | Indicates whether there is planned gantry return extended. If first character is <i>E</i> then it's gantry return extended. Values are the first character from the following: <ul style="list-style-type: none">■ NN■ NE■ EN■ EE Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field. GantryRtnExt, 1, 1), | VDT_STRING16 Varchar(16) |
| StopAngleExt | Extended range indication for the gantry stop angle. If the first character is "E" then it's gantry return extended. If the second character is <i>E</i> then the stop angle is extended. Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field. GantryRtnExt, 2, 1) | VDT_STRING16 Varchar(16) |
| TableTopEccentric Angle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: TableTopEccentricAngle | VDT_ANGLE Float |
| AddOnEDW | Dynamic wedge add-ons of one of the AddOnId1 thru AddOnId6. Source Table: AddOn Source Column: AddOnId1 thru AddOnId6 | VDT_ID Varchar(16) |
| AddOnId1 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------|
| AddOnId2 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOnId3 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOnId4 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOnId5 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOnId6 | Add on used in this field. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOn | String consists of AddOnEDW + " " + AddOnId1 + " " + AddOnId2 + " " + AddOnId3 + " " + AddOnId4 + " " + AddOnId5 + " " + AddOnId6 | VDT_ID Varchar(16) |
| WedgeMU | Wedge dose equal round(WedgeDose * MU,0). Source Table: Field Source Column: WedgeDose | VDT_DOSE Float |
| PlanSetupId | Unique ID for the plan setup. Source Table: PlanSetup Source Column: PlanSetupID | VDT_ID Varchar(16) |
| PlanSetupName | Name of the plan setup. Source Table: PlanSetup Source Column: PlanSetupName | VDT_NAME Varchar(64) |
| PlanUID | Unique identifier for the plan. Source Table: Fractionation Source Column: PlanUID | VDT_UID Varchar(64) |

Table 190 Return Values for vp_GetExtendedPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|------------------|--|-------------------------------|
| PreviousPlanUID | Indicates if this plan is a predecessor plan to the actual <i>PlanConceptCorrelation</i> (as it can be declared in DICOM RT Plan object). Source Table: Fractionation Source Column: PredecessorPlanUID | VDT_UID Varchar(64) |
| PlanModifiedDate | Date the data in the row was modified. Source Table: Fractionation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| PlanStatus | The currently active status. Status strings are a subset (or all) of those defined in the Approval.ApprovalStatus attribute. Valid status strings are: <ul style="list-style-type: none">■ Unapproved■ Reviewed Source Table: PlanSetup Source Column: Status | VDT_STRING64 Varchar(64) |
| PlanSetupSer | System generated serial number for a plan setup. Source Table: PlanSetup Source Column: PlanSetupSer | VDT_SERIALNUMBER Integer |

vp_GetFieldAddOn

The *vp_GetFieldAddOn* report is a subroutine of the procedure.

Table 191 Input Values for vp_GetFieldAddOn

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 192 Return Values for vp_GetFieldAddOn

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| AddOnId | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId | VDT_ID Varchar(16) |
| AddOnName | Name of an AddOn. Source Table: AddOn Source Column: AddOnName | VDT_NAME Varchar(64) |
| FieldSer | System generated serial number for a FieldAddOn. Source Table: FieldAddOn Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| AddOnType | AddOnType may be one of the following: MLC, Wedge, Compensator, Applicator, Tray Source Table: AddOn Source Column: AddOnType | VDT_TYPE Varchar(32) |

vp_GetInandOutPatientStats

The *vp_GetInandOutPatientStats* stored procedure lists number of patients treated on each machine as determined by the number of treatment sessions for the user-selected date range.

Table 193 Input Values for vp_GetInandOutPatientStats

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| @Start_Date | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @End_Date | The ending date for the information included in the report. | VDT_DATETIME Datetime |

Table 194 Return Values for vp_GetInandOutPatientStats

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| MachineId | Unique ID for a machine. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 1 = InPatient■ 0 = OutPatient Source Table: PatientActuals Source Column: InPatientFlag | VDT_FLAG Integer |
| SessionSer | System generated serial number for a session. Source Table: TreatmentFieldHstry Source Column: SessionSer | VDT_SERIALNUMBER Integer |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |

Table 194 Return Values for vp_GetInandOutPatientStats(continued)

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| TreatFldDate | <p>The date the treatment occurred.</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: TreatmentDateTime</p> <p>Formula:</p> <pre>convert (varchar, datepart(year, TreatmentFieldHstry.Treatment DateTime),) + '' + '(' + substring(convert (varchar, (0.01*datepart(month, TreatmentFieldHstry.TreatmentDate Time))),3,2) + ') ' + datename(month, TreatmentFieldHstry.TreatmentDate Time)</pre> | VDT_DATETIME Datetime |

vp_GetNPIInPatientStats

The *vp_GetNPIInPatientStats* stored procedure lists number of In/Out patients for New/Previous (NP/NOP) patients treated on each machine as determined by the number of treatment sessions for the user-selected date range.

Table 195 Input Values for vp_GetNPIInPatientStats

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| @Start_Date | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @End_Date | The ending date for the information included in the report. | VDT_DATETIME Datetime |

Table 196 Return Values for vp_GetNPIInPatientStats

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| MachineId | Unique ID for a machine. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 1 = InPatient■ 0 = OutPatient Source Table: PatientActuals Source Column: InPatientFlag | VDT_FLAG Integer |
| SessionSer | System generated serial number for a session. Source Table: TreatmentFieldHstry Source Column: SessionSer | VDT_SERIALNUMBER Integer |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |

Table 196 Return Values for vp_GetNPIInOutPatientStats(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| TreatFldDate | <p>The date the treatment occurred.</p> <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: TreatmentDateTime</p> <p>Formula:</p> <pre>convert (varchar, datepart(year, TreatmentFieldHstry.Treatment DateTime),) + '' + '(' + substring(convert (varchar, (0.01*datepart(month, TreatmentFieldHstry.Treatment DateTime))),3,2) + ')' + datename(month, TreatmentFieldHstry.Treatment DateTime)</pre> | VDT_DATETIME Datetime |
| Expression1 | <p>LookupAvailable for</p> <p>PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)).</p> <p>Source Table: vv_PatientStatus</p> <p>Source Column: Expression1</p> | VDT_STRING64 Varchar(64) |

vp_GetPatientRegistration

The *vp_GetPatientRegistration* stored procedure lists demographics data, user-defined attributes, diagnoses, points of contact, physician, and insurance information for the selected patient.

Table 197 Input Values for vp_GetPatientRegistration

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 198 Return Values for vp_GetPatientRegistration

| SP Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 1 = InPatient■ 0 = OutPatient Source Table: PatientActuals Source Column: InPatientFlag | VDT_FLAG Integer |

Table 198 Return Values for vp_GetPatientRegistration(continued)

| SP Column Name | Description | Datatype |
|------------------|--|----------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| SSN | The Social Security Number of the patient. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| DiagnosisCode | Alphanumeric value that describes a particular diagnosis. These values are typically assigned by an authority who is recognized and supported by the medical community. Source Table: Diagnosis Source Column: DiagnosisCode | VDT_DIAGNOSISCODE Varchar(16) |
| Description | Description of the diagnosis; the cause of a disease inferred from the analysis of symptoms and diagnostic test results. Source Table: Diagnosis Source Column: Description | VDT_STRING254 Varchar(254) |
| DiagnosisTypeLng | Identifies diagnosis types that are specific to the language used for the database. Source Table: vv_DiagnosisTypeLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |

Table 198 Return Values for vp_GetPatientRegistration(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| Age | The age of the patient. This is calculated information. Formula: datediff(dd,DateOfBirth, getdate())/365 | VDT_INT Integer |
| PatientStatus | Patient Status in a specific language. This language is specified in the configuration process during installation. Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| Sex | Identifies the gender (or sex) specific types that are specific to the language used for the database. Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| AddressLine1 | Street address line 1. Source Table: Address Source Column: AddressLine1 | VDT_ADDRESSLINE Varchar(64) |
| AddressLine2 | Street address line 2. Source Table: Address Source Column: AddressLine2 | VDT_ADDRESSLINE Varchar(64) |
| AddressLine3 | Street address line 3. Source Table: Address Source Column: AddressLine3 | VDT_ADDRESSLINE Varchar(64) |
| CityOrTownship | City or township in which the address is located. Source Table: Address Source Column: CityOrTownship | VDT_ADDRESSLINE Varchar(64) |
| County | County in which the address is located. Source Table: Address Source Column: County | VDT_ADDRESSLINE Varchar(64) |
| StateOrProvince | State or province in which the address is located. Source Table: Address Source Column: StateOrProvince | VDT_ADDRESSLINE Varchar(64) |

Table 198 Return Values for vp_GetPatientRegistration(continued)

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------------|
| PostalCode | Postal code such as a U.S. ZIP code. Source Table: Address Source Column: PostalCode | VDT_POSTALCODE Varchar(16) |
| Country | Country in which the address is located. Source Table: Address Source Column: Country | VDT_ADDRESSLINE Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| PatientDOB | Date of birth of patient. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |

vp_GetPlanMHRep

The *vp_GetPlanMHRep* stored procedure includes the history of all modifications made to each plan for each course for the selected patient.

Table 199 Input Values for vp_GetPlanMHRep

| SP Column Name | Description | Datatype |
|----------------|------------------------------------|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |

Table 200 Return Values for vp_GetPlanMHRep

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| RadiationSer | System generated serial number for a field. Source Table: Field Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| FieldRevCount | Revision count of the corresponding record in the Field table. Source Table: Field Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |
| GantryRtn | Gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment. Source Table: Field Source Column: GantryRtn | VDT_ANGLE Float |
| CollRtn | Collimator rotation angle during field treatment, in degrees. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y Source Table: Field Source Column: CollMode | VDT_COLLMODE Varchar(16) |
| CollY1 | Collimator top (farther from gantry) Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1 Formula: Field.CollY1 * -1.0 | VDT_COLLPARAM Float |
| CollY2 | Collimator bottom Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY2 | VDT_COLLPARAM Float |
| CollX1 | Collimator right X position (viewed from radiation source). In IEC scale, values increase to right. Source Table: Field Source Column: CollX1 Formula: Field.CollX1 * -1.0 | VDT_COLLPARAM Float |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|------------------------------|
| CollX2 | Collimator left X position. In IEC scale, values increase to right. Source Table: Field Source Column: CollX2 | VDT_COLLPARAM Float |
| CouchVrt | Couch vertical position. In IEC scale, values increase when moving up, and zero is at isocentric height. Source Table: Field Source Column: CouchVrt | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position. In IEC scale, values increase when moving toward gantry. Source Table: Field Source Column: CouchLng | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position. In IEC scale, values increase to left when viewed from gantry. Source Table: Field Source Column: CouchLat | VDT_COUCHPARAM Float |
| Technique | Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are: <ul style="list-style-type: none">■ STATIC■ ARC■ TOTAL■ HDTSE Source Table: Field Source Column: Technique | VDT_TECHNIQUE Varchar(16) |
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: PatientSupportAngle | VDT_ANGLE Float |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-------------------------------|
| EnergyMode | <p>String consist of converted EnergyMode divided by0 and RadiationType.</p> <p>Source Table: EnergyMode Source Column: EnergyMode, RadiationType</p> | VDT_ENERGYMODE Varchar(16) |
| SSD | <p>Source-to-skin distance (same as target-to-skin distance).</p> <p>Source Table: Field Source Column: SSD</p> | VDT_FLOAT Float |
| MU | <p>Number of monitor units (MUs) to deliver to the field during treatment exposure.</p> <p>Source Table: Field Source Column: MU</p> | VDT_MU Integer |
| TreatmentTime | <p>Total treatment time of this field. Used to verify that the user is not given too large a dose. Calculated from MUpGy and DoseRate.</p> <p>Source Table: Field Source Column: TreatmentTime</p> | VDT_TIME Float |
| StopAngle | <p>Rotation angle of the gantry at which irradiation and rotation stop during an electron or X-ray Arc treatment.</p> <p>Source Table: Field Source Column: StopAngle</p> | VDT_ANGLE Float |
| MUpDeg | Not used | VDT_MUDEG Float |
| ToleranceId | <p>Unique ID for this table.</p> <p>Source Table: Tolerance Source Column: ToleranceId</p> | VDT_ID Varchar(16) |
| MachineId | <p>Unique machine ID assigned by the user.</p> <p>Source Table: Machine Source Column: MachineId</p> | VDT_ID Varchar(16) |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------------|--|-----------------------------------|
| MachineScale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| TreatApprovalUserName | <p>The user who set Status.</p> <p>Source Table: PlanSetup Source Column: StatusUserName</p> | VDT_USERNAME Varchar(32) |
| TreatApprovalDate | <p>The date/time when Status was set. This may be a nominal time different to the time of the update, according to application logic.</p> <p>Source Table: PlanSetup Source Column: StatusDate</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CompletedDateTime | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |
| ClinicalStatus | <p>Indicates clinical status of course. Possible states are:</p> <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED <p>Source Table: Course Source Column: ClinicalStatus</p> | VDT_CLINICALSTATUS Varchar(16) |
| HstryUserName | <p>Username of the person logged into the workstation when data in the row was modified.</p> <p>Source Table: Radiation Source Column: HstryUserName</p> | VDT_USERNAME Varchar(32) |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|-------------------------|---|-------------------------------|
| HstryDateTime | Date the data in the row was modified. Source Table: Radiation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| GantryRtnExt | Indicates whether there is planned gantry return extended. If first character is <i>E</i> then it's gantry return extended. Values are the first character from the following: <ul style="list-style-type: none">■ NN■ NE■ EN■ EE Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field. GantryRtnExt, 1, 1), | VDT_STRING16 Varchar(16) |
| StopAngleExt | Extended range indication for the gantry stop angle. If the second character is <i>E</i> then it's stop angle extended else its <i>N</i> . Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field. GantryRtnExt, 2, 1) | VDT_STRING16 Varchar(16) |
| TableTopEccentric Angle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: TableTopEccentricAngle | VDT_ANGLE Float |
| PlanSetupId | Unique ID for the plan setup. Source Table: PlanSetup Source Column: PlanSetupID | VDT_ID Varchar(16) |
| PlanSetupName | Name of the plan setup. Source Table: PlanSetup Source Column: PlanSetupName | VDT_NAME Varchar(64) |

Table 200 Return Values for vp_GetPlanMHRep(continued)

| SP Column Name | Description | Datatype |
|------------------|--|-------------------------------|
| PlanUID | DICOM UID to identify the DICOM RT Plan object. Source Table: Fractionation Source Column: PlanUID | VDT_UID Varchar(64) |
| PreviousPlanUID | This plan is a predecessor plan to the actual <i>PlanConceptCorrelation</i> (as it can be declared in DICOM RT Plan object). Source Table: Fractionation Source Column: PredecessorPlanUID | VDT_UID Varchar(64) |
| PlanModifiedDate | Date the data in the row was modified. Source Table: Fractionation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| PlanStatus | The last status which has been set and which is currently active. Terms are (a subset or all) of those defined in Approval.Status. Currently this list matches those in Approval.Status. Valid status strings are: <ul style="list-style-type: none">■ Unapproved■ Reviewed Source Table: PlanSetup Source Column: Status | VDT_STRING64 Varchar(64) |
| PlanSetupSer | System generated serial number for a plan setup. Source Table: PlanSetup Source Column: PlanSetupSer | VDT_SERIALNUMBER Integer |

vp_GetPlanOverride

The *vp_GetPlanOverride* stored procedure lists the plan and actual values for treatment plan parameters that were overridden during the patient's treatment for the specified period.

Table 201 Input Values for vp_GetPlanOverride

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 202 Return Values for vp_GetPlanOverride

| SP Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| TreatmentDateTime | Date and time when the treatment occurred. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | VDT_DATETIME Datetime |
| TreatmentFieldSer | System generated serial number for the treatment field. Source Table: TreatmentFieldHstry Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| FieldId | Unique ID for a treatment field. Source Table: TreatmentFieldHstry Source Column: FieldId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: TreatmentFieldHstry Source Column: FieldName | VDT_NAME Varchar(64) |
| GantryRtnOvrd | Indicates whether the gantry rotation was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: GantryRtnOverrideFlag | VDT_INT Integer |
| CollRtnOvrd | Indicates whether the collimator rotation was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CollRtnOverrideFlag | VDT_INT Integer |
| CouchLatOvrd | Indicates whether the couch lateral position was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CouchLatOverrideFlag | VDT_INT Integer |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|---|--------------------|
| CouchLngOvrd | Indicates whether the couch longitudinal position was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CouchLngOverrideFlag | VDT_INT Integer |
| CouchRtnOvrd | Indicates whether the patient support angle was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: PatientSupportAngleOverFlag | VDT_INT Integer |
| CouchVrtOvrd | Indicates whether the couch vertical position was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CouchVrtOverrideFlag | VDT_INT Integer |
| CollModeOvrd | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y Source Table: Field Source Column: CollMode and Source Table: TreatmentFieldHstry Source Column: CollMode | VDT_INT Integer |
| Y1Ovrd | Indicates whether the Y1 collimator position was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: CollY1OverrideFlag | VDT_INT Integer |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|--------------------|--|-----------------------------|
| Y2Ovrd | <p>Indicates whether the Y2 collimator position was overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollY2OverrideFlag</p> | VDT_INT Integer |
| X1Ovrd | <p>Indicates whether the X1 collimator position was overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollX1OverrideFlag</p> | VDT_INT Integer |
| X2Ovrd | <p>Indicates whether the X2 collimator position was overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: CollX2OverrideFlag</p> | VDT_INT Integer |
| PlanGantryRtn | <p>Plan value of gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment.</p> <p>Set PlanGantryRtn to null, if GantryRtnOvrd = 0 .</p> <p>Source Table: Field Source Column: GantryRtn</p> | VDT_FLOAT Float |
| PlanGantryExtended | <p>Indicates whether there is planned gantry return extended. If first character is <i>E</i> then it's gantry return extended. Values are the first character of the following:</p> <ul style="list-style-type: none"> ■ NN ■ NE ■ EN ■ EE <p>Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field. <i>GantryRtnExt</i>, 1, 1)</p> | VDT_STRING16 Varchar(16) |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| PlanCollRtn | Plan value of collimator rotation angle during field treatment, in degrees. Set PlanCollRtn to null, if CollRtnOvrd = 0. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| PlanCouchLat | Plan value of lateral displacement of the couch top from the couch centerline, in cm. Source Table: TreatmentFieldHstry Source Column: CouchLatPlanned | VDT_FLOAT Float |
| PlanCouchLng | Plan value of longitudinal displacement of the couch top from its fully-extended position (closest to the gantry), in cm. Source Table: TreatmentFieldHstry Source Column: CouchLng | VDT_COUCHPARAM Float |
| PlanCouchRtn | Plan value of couch rotation. Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: PatientSupportAngle | VDT_FLOAT Float |
| PlanCouchVrt | Plan value of vertical couch displacement, in cm. Source Table: TreatmentFieldHstry Source Column: CouchVrt | VDT_FLOAT Float |
| ActualGantryRtn | Actual value of gantry rotation angle during a treatment, or the angle at which irradiation and rotation starts during an ARC treatment. Source Table: TreatmentFieldHstry Source Column: GantryRtn | VDT_FLOAT Float |
| ActualGantryExtended | Gantry rotation angle during a treatment, or the angle at which irradiation and rotation starts during an ARC treatment, in degrees. Indication for Actual Gantry Return Extended. If first character is <i>E</i> then it's Gantry Return Extended. Source Table: TreatmentFieldHstry Source Column: GantryRtn | VDT_STRING16 Varchar(16) |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-------------------------|
| ActualCollRtn | Actual value of collimator rotation angle during field treatment, in degrees. Source Table: TreatmentFieldHstry Source Column: CollRtn | VDT_FLOAT Float |
| ActualCouchLat | Actual value of lateral displacement of the couch top from the couch centerline in centimeters. Source Table: TreatmentFieldHstry Source Column: CouchLat | VDT_FLOAT Float |
| ActualCouchLng | Actual value of longitudinal displacement of the couch top from its fully-extended position (closest to the gantry) in centimeters. Source Table: TreatmentFieldHstry Source Column: CouchLng | VDT_COUCHPARAM Float |
| ActualCouchRtn | Actual value of couch rotation. Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: TreatmentFieldHstry Source Column: PatientSupportAngle | VDT_FLOAT Float |
| ActualCouchVrt | Actual value of vertical couch displacement in centimeters. Source Table: TreatmentFieldHstry Source Column: CouchVrt | VDT_FLOAT Float |
| PlanCollY1 | Plan value of Y1 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1, in cm. A negative number means the edge of the jaw is beyond the beam centerline. Source Table: Field Source Column: CollY1 | VDT_COLLPARAM Float |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| PlanCollY2 | <p>Plan value of Y2 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X2, in cm. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: Field</p> <p>Source Column: CollY2</p> | VDT_COLLPARAM Float |
| PlanCollX1 | <p>Plan value of X1 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X1, in cm. A negative number means the edge of the jaw is past the beam centerline.</p> <p>Source Table: Field</p> <p>Source Column: CollX1</p> | VDT_COLLPARAM Float |
| PlanCollX2 | <p>Plan value of X2 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1, in cm. A negative number means the edge of the jaw is beyond the beam centerline.</p> <p>Source Table: Field</p> <p>Source Column: CollX2</p> | VDT_COLLPARAM Float |
| PlanCollMode | <p>Plan value of collimation mode used. Possible values are:</p> <ul style="list-style-type: none"> ■ Symmetry ■ AsymmetryX ■ AsymmetryY ■ AsymmetryX&Y <p>Source Table: Field</p> <p>Source Column: CollMode</p> | VDT_COLLMODE Varchar(16) |
| ActualCollMode | <p>Actual value of collimation mode used. Possible values are:</p> <ul style="list-style-type: none"> ■ Symmetry ■ AsymmetryX ■ AsymmetryY ■ AsymmetryX&Y <p>Source Table: TreatmentFieldHstry</p> <p>Source Column: CollMode</p> | VDT_COLLMODE Varchar(16) |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|--|------------------------|
| ActualCollY1 | Actual value of Y1 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y1 in centimeters. A negative number means the edge of the jaw is beyond the beam centerline. Source Table: TreatmentFieldHstry Source Column: CollY1 | VDT_COLLPARAM Float |
| ActualCollY2 | Actual value of Y2 collimator position. Displacement (+ or -) from the beam centerline of the projection at isocenter of the upper collimator jaw Y2 in centimeters. A negative number means the edge of the jaw is beyond the beam centerline. Source Table: TreatmentFieldHstry Source Column: CollY2 | VDT_COLLPARAM Float |
| ActualCollX1 | Actual value of X1 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X1 in centimeters. A negative number means the edge of the jaw is past the beam centerline. Source Table: TreatmentFieldHstry Source Column: CollX1 | VDT_COLLPARAM Float |
| ActualCollX2 | Actual value of X2 collimator position. Displacement from the beam centerline of the projection at isocenter of lower collimator jaw X2 in centimeters. A negative number means the edge of the jaw is past the beam centerline. Source Table: TreatmentFieldHstry Source Column: CollX2 | VDT_COLLPARAM Float |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| Scale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in <i>LookupTable</i>). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| ActualScale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in <i>LookupTable</i>). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| PlanMU | <p>The planned MU for this treatment.</p> <p>Source Table: TreatmentFieldHstry Source Column: PlannedMU</p> | VDT_FLOAT Float |
| ActualMU | <p>Actual number of MUs delivered to this field.</p> <p>Source Table: TreatmentFieldHstry Source Column: ActualMU</p> | VDT_FLOAT Float |
| OvrdMU | Not used | VDT_MU Integer |
| MUFlag | <p>Indicates whether the MUs were overridden. Values are:</p> <ul style="list-style-type: none"> ■ 1 = Overridden ■ 0 = Not overridden <p>Source Table: TreatmentFieldHstry Source Column: MUOverrideFlag</p> | VDT_INT Integer |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|-------------------|---|-----------------------------|
| PlanTime | Plan value of total exposure time, in minutes. When this exposure time expires, delivery of the field dose ends. This value only applies if the machine is not a C-Series model. Source Table: Field Source Column: TreatmentTime | VDT_TIME Float |
| OvrdTime | Actual value of total exposure time, in minutes. When this exposure time expires, delivery of the field dose ends. This value only applies if the machine is not a C-Series model. Source Table: TreatmentFieldHstry Source Column: TreatmentTime | VDT_TIME Float |
| TimeFlag | Indicates whether the treatment time was overridden. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: TreatmentTimeOverrideFlag | VDT_OVERRIDEFLAG Integer |
| AuthorizationName | Name of person who approved this treatment field history. Source Table: TreatmentFieldHstry Source Column: ApprovalUserName | VDT_USERNAME Varchar(32) |
| MachineOverride | Indicates whether the machine was overridden at time of treatment. Values are: <ul style="list-style-type: none">■ 1 = Overridden■ 0 = Not overridden Source Table: TreatmentFieldHstry Source Column: MachOverrideFlag | VDT_OVERRIDEFLAG Integer |
| PlanMachineId | Plan value for the machine to be used in treatment. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|-----------------------------|
| ActualMachineId | Actual value of the machine ID used in treatment. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| TreatmentFieldHstrySer | System generated serial number for the treatment history field. Source Table: TreatmentFieldHstry Source Column: TreatmentFieldHstrySer | VDT_SERIALNUMBER Integer |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| PatientSer | System generated serial number for the patient. Source Table: TreatmentFieldHstry Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| RadiationSer | System generated serial number for the field. Source Table: TreatmentFieldHstry Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| PFFlag | B is Before PortFilm, A is After PortFilm, and NULL is NOT a PortFilm. Source Table: TreatmentFieldHstry Source Column: PFFlag | Char(1) |
| PIFlag | B is Before PortImage, A is After PortImage, and NULL is NOT a PortImage. Source Table: TreatmentFieldHstry Source Column: PIFlag | Char(1) |
| SessionSer | System generated serial number for the session. Source Table: TreatmentFieldHstry Source Column: SessionSer | VDT_SERIALNUMBER Integer |
| FractionationSer | System generated serial number for the fractionation. Source Table: TreatmentFieldHstry Source Column: FractionationSer | VDT_SERIALNUMBER Integer |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|------------------------------|--|------------------------------|
| PrevTreatmentFieldHstrySer | Max TreatmentFieldhstrySer for the field, session and fractionation, when PFFlag and PIFlag are NULL and RVFlag not equal 0. Source Table: TreatmentFieldHstry Source Column: TreatmentFieldHstrySer | VDT_SERIALNUMBER Integer |
| FieldRevCount | Revision count of the corresponding record in the Treatment Field history table. Source Table: TreatmentFieldHstry Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |
| PlanTableTopEccentricAngle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: TableTopEccentricAngle | VDT_ANGLE Float |
| ActualTableTopEccentricAngle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: TreatmentFieldHstry Source Column: TableTopEccentricAngle | VDT_ANGLE Float |
| TableTopEccentricAngleOvrdrd | Indicates whether the couch angle was overridden. Values are: <ul style="list-style-type: none">■ 1 – Overridden■ 0 – Not overridden Source Table: TreatmentFieldHstry Source Column: TableTopEccAngleOverFlag | VDT_INT Integer |
| WedgeDoseOvrdrd | Indicates whether the couch angle was overridden. Values are: <ul style="list-style-type: none">■ 1 – Overridden■ 0 – Not overridden Source Table: TreatmentFieldHstry Source Column: WedgeDoseOverrideFlag | VDT_INT Integer |
| PlanWedgeDose | Not used | VDT_DOSE Float |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|-------------------------------|
| ActualWedgeDose | Quotient of MU for Wedge per MU of Total MU of Field. Range: 0.0 - 1.0. (e.g. 0.2 for 20 MU of MU). Source Table: TreatmentFieldHstry Source Column: WedgeDose | VDT_DOSE Float |
| XOvrd | Not used | Int |
| YOvrd | Not used | int |
| PlanCollY | Source Table: TreatmentFieldHstry Source Column: PlanCollMode, PlanCollY1, PlanCollY2 | VDT_COLLPARAM Float |
| ActualCollY | Source Table: TreatmentFieldHstry Source Column: ActualCollMode, ActualCollY1, ActualCollY2 | VDT_COLLPARAM Float |
| PlanCollX | Source Table: TreatmentFieldHstry Source Column: PlanCollMode, PlanCollX1, PlanCollX2 | VDT_COLLPARAM Float |
| ActualCollX | Source Table: TreatmentFieldHstry Source Column: ActualCollMode, ActualCollX1, ActualCollX2 | VDT_COLLPARAM Float |
| SessionNumber | External identification of a Session. Used to numerically order Sessions. Source Table: Session Source Column: SessionNum | Integer |
| FieldStatus | Values are defined in LookupTable for ListSelector SESSION_FIELD_STATUS: <ul style="list-style-type: none"> ■ Active ■ Partially Treated ■ Treated ■ Inactive Source Table: LookupTable Source Column: Expression1 | VDT_STRING254 Varchar(254) |
| ElapsedDays | Number of days between treatment date and starting date for override. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | int |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| MU | Actual number of MUs delivered to this field. Source Table: TreatmentFieldHstry Source Column: ActualMU | VDT_FLOAT Float |
| AddOnIds | String consists of AddOn Id's: isnull(AddOnId1,"") + " "+ isnull(AddOnId2,"") + " "+ isnull(AddOnId3,"") + " "+ isnull(AddOnId4,"") + " "+ isnull(AddOnId5,"") + " "+ isnull(AddOnId6,"") + " "+ isnull(AddOnId7,"") + " "+ isnull(AddOnId8,"") + " "+ isnull(AddOnId9,"") + " "+ isnull(AddOnId10,"") Source Table: vv_syTFHFull Source Column: AddOnId1, AddOnId2, AddOnId3, AddOnId4, AddOnId5, AddOnId6, AddOnId7, AddOnId8, AddOnId9, AddOnId10 | VDT_STRING254 Varchar(254) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: PatientActuals Source Column: PatientStatus | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|-------------------|---|--------------------------------|
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: Patient Source Column: Sex | VDT_STRING64 Varchar(64) |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| TreatCategory | Not used | VDT_STRING16 Varchar(16) |
| PlanSetupId | Unique ID for the plan setup. Source Table: PlanSetup Source Column: PlanSetupID | VDT_ID Varchar(16) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |
| ActualResourceSer | System generated serial number for actual machine. Source Table: Machine Source Column: ResourceSer | VDT_SERIALNUMBER Integer |

Table 202 Return Values for vp_GetPlanOverride(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|-----------------------------|
| PlanResourceSer | System generated serial number for planned machine. Source Table: Machine Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| DepartmentName | Identifies the name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |

vp_GetPortFilmandImage

The *vp_GetPortFilmandImage* stored procedure lists the plan and actual values for treatment plan parameters that were overridden during the patient's treatment for the specified period.

Table 203 Input Values for vp_GetPortFilmandImage

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 204 Return Values for vp_GetPortFilmandImage

| SP Column Name | Description | Datatype |
|------------------|--|------------------------------|
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |

Table 204 Return Values for vp_GetPortFilmandImage(continued)

| SP Column Name | Description | Datatype |
|-------------------|---|------------------------------|
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| DoctorAliasName | The physician's name that appears on the screen instead of the combination of <i>Honorific, FirstName, MiddleName, LastName, and NameSuffix</i> . The <i>DisplayName</i> field is set in <i>Data Administration</i> (see <i>Managing Physicians and Staff Members</i> in ARIA online help). Source Table: Doctor Source Column: AliasName | VDT_NAME Varchar(64) |
| TreatmentDateTime | Date and time when the treatment occurred. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | VDT_DATETIME Datetime |
| FieldId | Unique ID for a treatment field. Source Table: TreatmentFieldHstry Source Column: FieldId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: TreatmentFieldHstry Source Column: FieldName | VDT_NAME Varchar(64) |
| PFFlag | Indicates when a port film occurred. Values are: <ul style="list-style-type: none">■ NULL – Not a port film■ A – After port film■ B – Before port film Source Table: TreatmentFieldHstry Source Column: PFFlag | VDT_STRING1 Varchar(1) |
| PIFlag | Indicates when a portal image occurred. Values are: <ul style="list-style-type: none">■ NULL – Not a port image■ A – After port image■ B – Before port image Source Table: TreatmentFieldHstry Source Column: PIFlag | VDT_STRING1 Varchar(1) |

Table 204 Return Values for vp_GetPortFilmandImage(continued)

| SP Column Name | Description | Datatype |
|------------------|---|-----------------------------|
| RadiationSer | System generated serial number for a field. Source Table: TreatmentFieldHstry Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| SessionSer | System generated serial number for a session. Source Table: TreatmentFieldHstry Source Column: SessionSer | VDT_SERIALNUMBER Integer |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| PhysMachSer | Serial number for the machine that was actually used for treatment. Normally the same as <i>ResourceSer</i> , but can differ if another machine was used. Source Table: TreatmentFieldHstry Source Column: PhysMachSer | VDT_SERIALNUMBER Integer |
| PatientSer | System generated serial number for a patient. Source Table: TreatmentFieldHstry Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ApprovalUserName | Name of the user who has approved this image. Source Table: Image Source Column: ApprovalUserName | VDT_USERNAME Varchar(32) |
| ImageNote | A historical sequence of notes attached to the image containing the date when new text was entered, the user who entered it, and free text. Not to be mixed up with attribute Comment. Source Table: Image Source Column: ImageNotes | VDT_STRING16 Varchar(16) |
| ImageNotesFlag | Indicates whether there is an <i>ImageNotesLen</i> > 0. Values are: <ul style="list-style-type: none">■ Yes - when <i>ImageNotesLen</i> > 0■ No - when <i>ImageNotesLen</i> = 0 Source Table: Image Source Column: ImageNotesLen | VDT_STRING16 Varchar(16) |

Table 204 Return Values for vp_GetPortFilmandImage(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| ApprovalDate | Date and Time this Image was approved. Source Table: Image Source Column: ApprovalDate | VDT_DATETIME Datetime |
| PatientName | String consisted of <i>LastName</i> , comma and <i>FirstName</i> of the patient. Source Table: Patient Source Column: <i>LastName</i> and <i>FirstName</i> | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| OncologistName | String consisted of <i>LastName</i> , comma, and <i>FirstName</i> of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| ImageType | <i>ImageType</i> is used to identify the class that has to be instantiated in VFC. Source Table: Image Source Column: ImageType | VDT_TABLENAME Varchar(30) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @StartDate | VDT_DATETIME Datetime |
| ReportEndDate | @EndDate | VDT_DATETIME Datetime |

Table 204 Return Values for vp_GetPortFilmandImage(continued)

| SP Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| FilmorImageIndicator | String has following values: PortFilm – when PFFlag has values B (Before PortFilm) or A (After PortFilm) PortImage – when PIFlag values B (Before PortImage) or A (After PortImage) Source Table: TreatmentFieldHstry Source Column: PFFlag, PIFlag | VDT_STRING64 Varchar(64) |
| DepartmentName | Not used | VDT_NAME Varchar(64) |

vp_GetRadTherapyInfo

The *vp_GetRadTherapyInfo* stored procedure lists the plan and actual values for treatment plan parameters that were overridden during the patient's treatment for the specified period.

Table 205 Input Values for vp_GetRadTherapyInfo

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------|
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_EDate | The starting date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @End_EDate | The ending date of the exported charges included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported) included in the report. | VDT_DATETIME Datetime |

Table 206 Return Values for vp_GetRadTherapyInfo

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| LastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| FirstName | First name of the patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |

Table 206 Return Values for vp_GetRadTherapyInfo(continued)

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Not used | VDT_PATIENTID Varchar(25) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| DateOfBirth | Date of birth of patient. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: vv_SexLng Source Column: Expression1 | VDT_SEX Varchar(16) |
| InPatientFlag | Indicates if the patient is in or out. Values are: <ul style="list-style-type: none">■ 1 = InPatient■ 0 = OutPatient Source Table: ActivityCapture Source Column: InPatientFlag | VDT_FLAG Integer |
| PlnTpAbbrvtn | Abbreviation used for displaying plan type on payor information screens, CAP, FFS, HMO, MED, MEC, and PPO, among others. Source Table: PlanTypes Source Column: PlnTpAbbrvtn | VDT_TYPE Varchar(32) |

Table 206 Return Values for vp_GetRadTherapyInfo(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| CompanyName | Name of the company that issued the medical insurance plan. Source Table: Payor Source Column: CompanyName | VDT_NAME Varchar(64) |
| AddressLine1 | Street address line 1 Source Table: Address Source Column: AddressLine1 | VDT_ADDRESSLINE Varchar(64) |
| AddressLine2 | Street address line 2. Source Table: Address Source Column: AddressLine2 | VDT_ADDRESSLINE Varchar(64) |
| AddressLine3 | Street address line 3. Source Table: Address Source Column: AddressLine3 | VDT_ADDRESSLINE Varchar(64) |
| StateOrProvince | State or province in which the address is located. Source Table: Address Source Column: StateOrProvince | VDT_ADDRESSLINE Varchar(64) |
| CityOrTownship | City or township in which the address is located. Source Table: Address Source Column: CityOrTownship | VDT_ADDRESSLINE Varchar(64) |
| PostalCode | Postal code such as a U.S. ZIP code. Source Table: Address Source Column: PostalCode | VDT_POSTALCODE Varchar(16) |
| Comment | Free text. Source Table: PatientAuthorization Source Column: Comment | VDT_COMMENT Varchar(254) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |

Table 206 Return Values for vp_GetRadTherapyInfo(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|----------------------------------|
| DoctorAliasName | The physician's name that appears on the screen instead of the combination of <i>Honorific, FirstName, MiddleName, LastName, and NameSuffix</i> . The <i>DisplayName</i> field is set in <i>Data Administration</i> (see <i>Managing Physicians and Staff Members</i> in ARIA online help). Source Table: Doctor Source Column: AliasName | VDT_NAME Varchar(64) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DiagnosisCode | Not used | VDT_DIAGNOSISCODE Varchar(16) |
| Description | Not used | VDT_DESCRIPTION Varchar(64) |
| AuthorizationId | Authorization ID assigned by the user to uniquely identify a row in the PatientAuthorization table. Source Table: PatientAuthorization Source Column: AuthorizationId | VDT_ID Varchar(16) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate. | VDT_DATETIME Datetime |
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate. | VDT_DATETIME Datetime |

vp_GetRefPointDefinition

The *vp_GetRefPointDefinition* stored procedure identifies for the selected patient each reference point and its fields for each course. The report includes the daily and total dose, dose per session for each contributing field, and any breakpoints are shown for each reference point. There is space at the bottom of the report for an approval signature and date.

Table 207 Input Values for vp_GetRefPointDefinition

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 208 Return Values for vp_GetRefPointDefinition

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|------------------|--|-----------------------------------|
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| CourseId | Unique ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| ClinicalStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_CLINICALSTATUS Varchar(16) |
| RefPointId | Unique ID for reference point. Source Table: RefPoint Source Column: RefPointId | VDT_ID Varchar(16) |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| RefPointName | Name of a reference point. Source Table: RefPoint Source Column: RefPointName | VDT_NAME Varchar(64) |
| DailyDoseLimit | Absolute total dose limit for this RefPoint per day. Or: Same as TotalDoseLimit, just for the time period of a day. Source Table: RefPoint Source Column: DailyDoseLimit | VDT_DOSE Float |
| TotalDoseLimit | Absolute total dose limit for this reference point. This is actually a kind of <i>total breakpoint</i> . Treatments cannot go beyond this limit without a qualified dose-override procedure. Source Table: RefPoint Source Column: TotalDoseLimit | VDT_DOSE Float |
| FieldId | Unique ID for the field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of the field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |
| DoseperSession | Dose delivered by a field to a reference point for each fractionation. This value is set at approval time when the final concept is chosen. In planning, it is calculated by: <i>DosePerFraction * (relative)OutputFactor.</i> Without planning, it is set manually. Source Table: FieldRefPoint Source Column: FieldDose | VDT_DOSE Float |
| DoseConfig | Value of the configuration item ID <i>Dose for ConfigurationSetId GblUnit.</i> Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|-----------------------|---|-----------------------------|
| CompletedByUserName | Username of authorized person who marked the course as complete. Source Table: Course Source Column: CompletedByUserName | VDT_USERNAME Varchar(32) |
| CompletedDateTime | Date and time the course was completed. Source Table: Course Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorHonorable | Doctor's professional or courtesy title. Typical values are: ■ Dr ■ Mr ■ Mrs ■ Ms Source Table: Doctor Source Column: Honorable | VDT_STRING16 Varchar(16) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| PlanApprovalDate | Not used | VDT_DATETIME Datetime |
| PlanApprovalUserName | Not used | VDT_USERNAME Varchar(32) |
| TreatApprovalDate | Date and time when this fractionation scheme was approved after planning was completed. Source Table: PlanSetup Source Column: StatusDate | VDT_DATETIME Datetime |
| TreatApprovalUserName | Name of person who approved this concept for treatment. Source Table: PlanSetup Source Column: StatusUserName | VDT_USERNAME Varchar(32) |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| RefPointSer | System generated serial number for a reference point. Source Table: RefPoint Source Column: RefPointSer | VDT_SERIALNUMBER Integer |
| ApprovalStatus | Status of the treatment plan from LookupTable where ListSelector is equal 'APPROVAL_STATUS'. Values are: <ul style="list-style-type: none">■ Reviewed■ Completed■ PlanApproval■ TreatApproval Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientName | String consisted of <i>LastName</i> , comma, and <i>FirstName</i> of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female</i> , <i>Male</i> , <i>Not Stated</i> , <i>Other (Hermaphrodite)</i> , <i>Transsexual</i> , <i>Unknown</i>). Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|-----------------------------|
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| StartTime | Date and Time Treatment was begun on this Course. Source Table: Course Source Column: StartTime | VDT_DATETIME Datetime |
| CourseEndDate | Date and time the course was completed. Source Table: Course Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| Intent | Describes the objective of the Course as related to the Patient's disease. There are three (3) possible values: <i>Curative, Palliative, or Unknown.</i> (NLS Lookup: COURSE_INTENT) Source Table: Course Source Column: Intent | VDT_INTENT Varchar(16) |
| CourseNote | Free text. Source Table: Course Source Column: Comment | VDT_COMMENT Varchar(254) |
| OncologistName | String consisted of <i>LastName</i> , comma, and <i>FirstName</i> of Oncologist Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin.</i> | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |

Table 208 Return Values for vp_GetRefPointDefinition(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|-------------------------|
| SessionDoseLimit | Absolute total dose limit for this RefPoint per session. Or: Same as <i>TotalDoseLimit</i> , just for the time period of a treatment session. Source Table: RefPoint Source Column: SessionDoseLimit | VDT_DOSE Float |
| DoseDeliveredToDate | Total delivered dose to date for this RefPoint. Source Table: RefPointDeliveredDose Source Column: TotDeliveredDose | VDT_DOSE Float |
| PlanSetupId | Unique ID for the plan setup. Source Table: PlanSetup Source Column: PlanSetupID | VDT_ID Varchar(16) |
| PlanSetupName | Name of the plan setup. Source Table: PlanSetup Source Column: PlanSetupName | VDT_NAME Varchar(64) |
| PrimaryReferralFlag | <ul style="list-style-type: none">■ 1 – when DoseSpecificationFlag equals 1■ 0 – in other cases Source Table: FieldRefPoint Source Column: DoseSpecificationFlag | bit |
| DepartmentName | Identifies the name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |

vp_RptPhyChartCheck

The *vp_RptPhyChartCheck* stored procedure get the list of patients treated for the given date range. Also returns the first and last date of treatment.

Table 209 Input Values for vp_RptPhyChartCheck

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal to 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 210 Return Values for vp_RptPhyChartCheck

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |

Table 210 Return Values for vp_RptPhyChartCheck(continued)

| SP Column Name | Description | Datatype |
|------------------|--|-----------------------------------|
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| ClinicalStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_CLINICALSTATUS Varchar(16) |

Table 210 Return Values for vp_RptPhyChartCheck(continued)

| SP Column Name | Description | Datatype |
|-------------------------|--|-----------------------------|
| Intent | <p>Describes objective of course as related to patient's disease. Example of values (selected from the list entered in the Administration application) are:</p> <ul style="list-style-type: none"> ■ Curative ■ Palliative ■ Unknown ■ Definitive <p>Source Table: Course Source Column: Intent</p> | VDT_INTENT Varchar(16) |
| CourseNote | <p>Describes the treatment course.</p> <p>Source Table: Course Source Column: Comment</p> | VDT_COMMENT Varchar(254) |
| StartTime | <p>Date and Time Treatment was begun on this Course.</p> <p>Source Table: Course Source Column: StartDateTime</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CourseCompletedDateTime | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |
| DoctorFirstName | <p>Doctor's first name.</p> <p>Source Table: Doctor Source Column: FirstName</p> | VDT_NAME Varchar(64) |

Table 210 Return Values for vp_RptPhyChartCheck(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|-----------------------------|
| DoctorHonorific | <p>Doctor's professional or courtesy title. Typical values are:</p> <ul style="list-style-type: none"> ■ Dr ■ Mr ■ Mrs ■ Ms <p>Source Table: Doctor Source Column: Honorific</p> | VDT_STRING16 Varchar(16) |
| DoctorLastName | <p>Doctor's last name (surname or family name).</p> <p>Source Table: Doctor Source Column: LastName</p> | VDT_NAME Varchar(64) |
| PatientName | <p>String consisted of LastName, comma, and FirstName of the patient.</p> <p>Source Table: Patient Source Column: LastName and FirstName</p> | VDT_NAME Varchar(64) |
| PatientStatus | <p>LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)).</p> <p>Source Table: vv_PatientStatusLng Source Column: Expression1</p> | VDT_STATUS32 Varchar(32) |
| PatientDOB | <p>Patient's Date of Birth.</p> <p>Source Table: Patient Source Column: DateOfBirth</p> | VDT_DATETIME Datetime |
| SSN | <p>Patient's Social Security Number. Required by ACRNEMA Dicom3.</p> <p>Source Table: Patient Source Column: SSN</p> | VDT_STRING64 Varchar(64) |
| Sex | <p>Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>).</p> <p>Source Table: vv_SexLng Source Column: Expression1</p> | VDT_STRING64 Varchar(64) |

Table 210 Return Values for vp_RptPhyChartCheck(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|-----------------------------|
| OncologistName | <p>String consisted of <i>LastName</i>, comma, and <i>FirstName</i> of Oncologist.</p> <p>Source Table: Doctor Source Column: LastName, FirstName</p> | VDT_NAME Varchar(64) |
| FirstDayofTreatment | <p>Starting (min) date and time of treatment for corresponding patient and course.</p> <p>Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime</p> | |
| LastDayofTreatment | <p>End (max) date and time of treatment for corresponding patient and course.</p> <p>Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime</p> | |
| ElapsedDays | <p>Number of days between end treatment date and starting date for treatment.</p> <p>Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime</p> | int |
| TreatmentFieldHstrySer | <p>System generated serial number for the treatment history field.</p> <p>Source Table: TreatmentFieldHstry Source Column: TreatmentFieldHstrySer</p> | VDT_SERIALNUMBER Integer |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |

vp_GetScheduleApptReport

The *vp_GetScheduleApptReport* stored procedure lists all scheduled appointments for doctors, accelerators and simulators for a user-specified day. Provides patient name and activity name.

Table 211 Input Values for vp_GetScheduleApptReport

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| @Schedule_Date | The date of the scheduled activities included in the report. | VDT_DATETIME Datetime |

Table 212 Return Values for vp_GetScheduleApptReport

| SP Column Name | Description | Datatype |
|--------------------|---|------------------------------|
| ScheduledStartTime | Scheduled start date and time of the appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | VDT_DATETIME Datetime |
| ActivityExpression | Local language expression1 for ListSelector ACTIVITY in LookupTable. Source Table: vv_ActivityLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientId | Not used | VDT_PATIENTID Varchar(25) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| ResourceName | Name of a resource. Source Table: vv_ResourceName Source Column: ResourceName | VDT_NAME Varchar(64) |

vp_GetSiteHistoryReport

The *vp_GetSiteHistoryReport* stored procedure provides the treatment history for each reference point attached to a course for a specific patient. The report includes the dose delivered to each reference point by the treatment fields that are related to that reference point. The total dose delivered to date for each reference point is provided at the end of the history.

Table 213 Input Values for vp_GetSiteHistoryReport

| SP Column Name | Description | Datatype |
|----------------|--|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL. | VDT_FLAG Integer |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 214 Return Values for vp_GetSiteHistoryReport

| SP Column Name | Description | Datatype |
|-------------------|--|--------------------------|
| CourseId | Unique ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| TreatmentDateTime | The date and time the treatment occurred. Source Table: TreatmentFieldHstry Source Column: TreatmentDateTime | VDT_DATETIME Datetime |

Table 214 Return Values for vp_GetSiteHistoryReport(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| TreatCategory | <p>Description of type of treatment data contained in this record. Values are:</p> <ul style="list-style-type: none">■ MAN = Manual treatment■ TRT = Record and Verify treatment■ PORT = Port film■ IMAGE = Portal image <p>Source Table: TreatmentFieldHstry Source Columns: RVFlag, PFFlag, PIFlag Formula: substring('MAN TRT TRT PORT IMAGEIMAGE',(5* TreatmentFieldHstry.RVFlag + isnull (10*(Convert(Integer,ASCII(TreatmentField Hstry.PFFlag)/ASCII(TreatmentFieldHstry. PFFlag))),0) + isnull(15*(Convert (Integer, ASCII(TreatmentFieldHstry.PIFlag)/ASCII(TreatmentFieldHstry.PIFlag))),0)) + 1, 5)</p> | Char(8) |
| FieldId | <p>Unique ID for the field.</p> <p>Source Table: TreatmentFieldHstry Source Column: FieldId</p> | VDT_ID Varchar(16) |
| FieldName | <p>Name of the field.</p> <p>Source Table: TreatmentFieldHstry Source Column: FieldName</p> | VDT_NAME Varchar(64) |
| Technique | <p>Technique of this field. For a treatment field, it corresponds to a TechniqueId in the external beam definition. Typical values are:</p> <ul style="list-style-type: none">■ STATIC■ ARC■ TOTAL■ HDTSE <p>Source Table: TreatmentFieldHstry Source Column: Technique</p> | VDT_TECHNIQUE Varchar(16) |

Table 214 Return Values for vp_GetSiteHistoryReport(continued)

| SP Column Name | Description | Datatype |
|------------------|---|---------------------------------|
| EnergyMode | Energy/Mode combination used with this treatment field. Source Table: TreatmentFieldHstry Source Column: EnergyMode Formula: rtrim(ltrim(str(TreatmentFieldHstry.NominalEnergy/1000)+TreatmentFieldHstry.RadiationType)) | VDT_ENERGYSOURCE Varchar(16) |
| MU | Number of monitor units (MUs) delivered to the field during treatment exposure. Source Table: TreatmentFieldHstry Source Column: ActualMU | VDT_MU Integer |
| RefPointId | Unique ID for reference point. Source Table: RefPoint Source Column: RefPointId | VDT_ID Varchar(16) |
| RefPointName | Name of a reference point. Source Table: RefPoint Source Column: RefPointName | VDT_NAME Varchar(64) |
| DoseDelivered | Actual dose applied to a reference point by a treatment. Source Table: RefPointHstry Source Column: ActualDose | VDT_DOSE Float |
| DoseConfig | Value of the dose configuration parameter, in Gy or cGy. Source Table: ConfigurationItem Source Column: ConfigValue | VDT_STRING254 Varchar(254) |
| PatientId | Unique patient ID number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientLastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of the patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |

Table 214 Return Values for vp_GetSiteHistoryReport(continued)

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------------|
| PlanSetupId | Unique ID for the plan setup. Source Table: PlanSetup Source Column: PlanSetupId | VDT_ID Varchar(16) |
| PlanUID | Name of the plan setup. Source Table: PlanSetup Source Column: PlanSetupName | VDT_UID Varchar(64) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)) Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |

Table 214 Return Values for vp_GetSiteHistoryReport(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| RefPointSer | System generated serial number for a reference point. Source Table: RefPoint Source Column: RefPointSer | VDT_SERIALNUMBER Integer |
| ClinicalStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| StartTime | Date and Time Treatment was begun on this Course. Source Table: Course Source Column: StartDateTime | VDT_DATETIME Datetime |
| CourseEndDate | Date and time the course was completed. Source Table: Course Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| Intent | Describes the objective of the Course as related to the Patient's disease. There are three (3) possible values: Curative, Palliative, or Unknown. (NLS Lookup: COURSE_INTENT) Source Table: Course Source Column: Intent | VDT_INTENT Varchar(16) |
| CourseNote | Free text Source Table: Course Source Column: Comment | VDT_COMMENT Varchar(254) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |

Table 214 Return Values for vp_GetSiteHistoryReport(continued)

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |
| HospitalName | Identifies the name of the hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Gives the name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |

vp_GetSTrtFieldHstry

The *vp_GetSTrtFieldHstry* stored procedure lists the treatment field history details for the given date range.

Table 215 Input Values for vp_GetSTrtFieldHstry

| SP Column Name | Description | Datatype |
|----------------|---|--------------------------|
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date for the information included in the report. | VDT_DATETIME Datetime |

Table 216 Return Values for vp_GetSTrtFieldHstry

| SP Column Name | Description | Datatype |
|-------------------|--|------------------------------|
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| TreatmentDateTime | Date and time when the treatment occurred. Source Table: vv_syTFHFull Source Column: TreatmentDateTime | VDT_DATETIME Datetime |

Table 216 Return Values for vp_GetSTrtFieldHstry(continued)

| SP Column Name | Description | Datatype |
|----------------|---|---------------------------------------|
| TreatCategory | <p>Description of category of treatment data contained in this record. Values are:</p> <ul style="list-style-type: none"> ■ TRT = Record and Verify treatment ■ PORT = Port film ■ IMAGE = Portal image <p>Source Table: vv_syTFHFull Source Column: RVFlag, PIFlag, PFFlag Formula: <code>substring('MAN TRT PORT IMAGE',(5* vv_syTFHFull.RVFlag +isnull(5*(Convert(Integer,ASCII(vv_ coTFHFull.PFFlag)/ASCII (vv_syTFHFull.PFFlag)))),0) +isnull(5*(Convert(Integer,ASCII(vv_c oTFHFull.PIFlag)/ASCII (vv_syTFHFull.PIFlag)))),0)) + 1, 5)</code></p> | VDT_STRING32 Varchar(32) |
| FieldId | <p>Unique ID for a treatment field.</p> <p>Source Table: vv_syTFHFull Source Column: FieldId</p> | VDT_ID Varchar(16) |
| FieldName | <p>Name of field.</p> <p>Source Table: vv_syTFHFull Source Column: FieldName</p> | VDT_NAME Varchar(64) |
| FieldRevCount | <p>Revision count. Incremented each time this row is modified.</p> <p>Source Table: vv_syTFHFull Source Column: FieldRevCount</p> | VDT_REVISIONCOUNT Integer |
| PlanOverride | <p>Indicates which treatments had an override. Values are:</p> <ul style="list-style-type: none"> ■ 0 – No override ■ 1 – Has override <p>Source Table: coTFHFull Source Column: OverrideFlag</p> | VDT_FLAG_FALSE _DEFAULT Integer |
| SessionNumber | <p>Session number of the treatment.</p> <p>Source Table: Session Source Column: SessionNum</p> | VDT_NUMBER Integer |

Table 216 Return Values for vp_GetSTrtFieldHstry(continued)

| SP Column Name | Description | Datatype |
|----------------|--|----------------------------------|
| FieldStatus | <p>Values are defined in LookupTable for ListSelector SESSION_FIELD_STATUS:</p> <ul style="list-style-type: none"> ■ Active ■ Partially Treated ■ Treated ■ Inactive <p>Source Table: LookupTable Source Column: Expression1</p> | VDT_STRING64 Varchar(64) |
| ScheduleNote | <p>Schedule note.</p> <p>Source Table: vv_syTFHFull Source Column: ScheduleNote</p> | VDT_STRING254 Varchar(254) |
| HistoryNote | <p>Treatment field history note.</p> <p>Source Table: vv_syTFHFull Source Column: HistoryNote</p> | VDT_STRING254 Varchar(254) |
| MachineId | <p>Unique machine ID assigned by the user.</p> <p>Source Table: Machine Source Column: MachineId</p> | VDT_ID Varchar(16) |
| TreatmentType | <p>Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are:</p> <ul style="list-style-type: none"> ■ STATIC ■ ARC ■ TOTAL ■ HDTSE <p>Source Table: vv_syTFHFull Source Column: Technique</p> | VDT_TECHNIQUE Varchar(16) |
| Energy | <p>Beam type (photons or electrons) and energy of the radiation (in MV or MeV).</p> <p>Source Table: coTFHFull Source Column: NominalEnergy, RadiationType Formula: If NominalEnergy > 0: $LTRIM(str(NominalEnergy/1000) + RadiationType),$</p> | VDT_ENERGYSUMMARY Varchar(16) |

Table 216 Return Values for vp_GetSTrtFieldHstry(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------|
| MU | <p>Number of monitor units (MUs) to deliver to the field during treatment exposure.</p> <p>Source Table: vv_syTFHFull</p> <p>Source Column: MU</p> | VDT_MU Integer |
| WedgeMU | <p>The Dose delivered by a Field to a RefPoint for each Fractionation.</p> <p>This value is set at approval time, when the final concept is chosen.</p> <p>In Planning this is calculated by: DosePerFraction * (relative)OutputFactor.</p> <p>Without planning this is set manually.</p> <p>Source Table: coTFHFull</p> <p>Source Column: WedgeDose</p> | VDT_DOSE Integer |
| AddOnId1 | <p>Identifies the add-ons of the machine. It is set to <i>null</i> when WedgeType is DynamicWedge.</p> <p>Source Table: coTFHFull</p> <p>Source Column: AddOnId1</p> | VDT_ID Varchar(16) |
| AddOnId2 | <p>Identifies the add-ons of the machine. It is set to “null” when WedgeType is DynamicWedge.</p> <p>Source Table: coTFHFull</p> <p>Source Column: AddOnId2</p> | VDT_ID Varchar(16) |
| AddOnId3 | <p>Identifies the add-ons of the machine. It is set to <i>null</i> when WedgeType is DynamicWedge.</p> <p>Source Table: coTFHFull</p> <p>Source Column: AddOnId3</p> | VDT_ID Varchar(16) |
| AddOnId4 | <p>Identifies the add-ons of the machine. It is set to <i>null</i> when WedgeType is DynamicWedge.</p> <p>Source Table: coTFHFull</p> <p>Source Column: AddOnId4</p> | VDT_ID Varchar(16) |
| AddOnId5 | <p>Identifies the add-ons of the machine. It is set to <i>null</i> when WedgeType is DynamicWedge.</p> <p>Source Table: coTFHFull</p> <p>Source Column: AddOnId5</p> | VDT_ID Varchar(16) |

Table 216 Return Values for vp_GetSTrtFieldHstry(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------|
| AddOnId6 | Identifies the add-ons of the machine. It is set to <i>null</i> when WedgeType is DynamicWedge. Source Table: coTFHFull Source Column: AddOnId6 | VDT_ID Varchar(16) |
| AddOnEDW | EDW add-ons. Source Table: coTFHFull Source Column: AddOnId1, AddOnId2, AddOnId3, AddOnId4, AddOnId5, AddOnId6 | VDT_ID Varchar(16) |
| AddOn | Concatenation of all AddOnId's. Source Table: TreatmentFieldHstry Source Columns: AddOnId1, AddOnId2, AddOnId3, AddOnId4, AddOnId5, AddOnId6 | VDT_ID Varchar(16) |

vp_GetSTrtFieldMHRep

The *vp_GetSTrtFieldMHRep* stored procedure lists the treatment field modification details for the given patient.

Table 217 Input Values for vp_GetSTrtFieldMHRep

| SP Column Name | Description | Datatype |
|----------------|------------------------------------|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |

Table 218 Return Values for vp_GetSTrtFieldMHRep

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: ■ Dr ■ Mr ■ Mrs ■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| RadiationSer | System generated serial number for a field. Source Table: Field Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| FieldRevCount | Revision count. Incremented each time this row is modified. Source Table: Field Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |
| GantryRtn | Gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment. Source Table: Field Source Column: GantryRtn | VDT_ANGLE Float |
| CollRtn | Collimator rotation angle during field treatment, in degrees. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y Source Table: Field Source Column: CollMode | VDT_COLLMODE Varchar(16) |
| CollY1 | Collimator top (farther from gantry) Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1 | VDT_COLLPARAM Float |
| CollY2 | Collimator bottom Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY2 | VDT_COLLPARAM Float |
| CollX1 | Collimator right X position (viewed from radiation source). In IEC scale, values increase to right. Source Table: Field Source Column: CollX1 | VDT_COLLPARAM Float |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|---------------------|---|------------------------------|
| CollX2 | Collimator left X position. In IEC scale, values increase to right. Source Table: Field Source Column: CollX2 | VDT_COLLPARAM Float |
| CouchVrt | Couch vertical position. In IEC scale, values increase when moving up, and zero is at isocentric height. Source Table: Field Source Column: CouchVrt | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position. In IEC scale, values increase when moving toward gantry. Source Table: Field Source Column: CouchLng | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position. In IEC scale, values increase to left when viewed from gantry. Source Table: Field Source Column: CouchLat | VDT_COUCHPARAM Float |
| Technique | Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are: <ul style="list-style-type: none">■ STATIC■ ARC■ OTAL■ HDTSE Source Table: Field Source Column: Technique | VDT_TECHNIQUE Varchar(16) |
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: PatientSupportAngle | VDT_ANGLE Float |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-------------------------------|
| EnergyMode | Energy/Mode combination used with this treatment field. Source Table: EnergyMode Source Column: Energy, RadiationType Formula: $\text{str}(\text{EnergyMode.Energy}/100) + \text{EnergyMode.RadiationType}$ | VDT_ENERGymode Varchar(16) |
| SSD | Source-to-skin distance (same as target-to-skin distance). Source Table: Field Source Column: SSD | VDT_FLOAT Float |
| MU | Number of monitor units (MUs) to deliver to the field during treatment exposure. Source Table: Field Source Column: MU | VDT_MU Integer |
| TreatmentTime | Total treatment time of this field. Used to verify that the user is not given too large a dose. Calculated from MUpGy and DoseRate. Source Table: Field Source Column: TreatmentTime | VDT_TIME Float |
| StopAngle | Rotation angle of the gantry at which irradiation and rotation stop during an electron or X-ray Arc treatment. Source Table: Field Source Column: StopAngle | VDT_ANGLE Float |
| MUpDeg | MU/degree in Arc therapy. Source Table: Field Source Column: MUpDeg | VDT_MUDEG Float |
| ToleranceId | Unique ID for this table. Source Table: Tolerance Source Column: ToleranceId | VDT_ID Varchar(16) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|-----------------------|--|-----------------------------------|
| MachineScale | <p>Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are:</p> <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC <p>Source Table: Machine Source Column: MachineScale</p> | VDT_SCALE Varchar(16) |
| TreatApprovalUserName | <p>Name of person who approved this concept for treatment.</p> <p>Source Table: PlanSetup Source Column: StatusUserName</p> | VDT_USERNAME Varchar(32) |
| TreatApprovalDate | <p>Date and time when the plan concept correlation was approved for treatment.</p> <p>Source Table: PlanSetup Source Column: StatusDate</p> | VDT_DATETIME Datetime |
| CompletedByUserName | <p>Username of authorized person who marked the course as complete.</p> <p>Source Table: Course Source Column: CompletedByUserName</p> | VDT_USERNAME Varchar(32) |
| CompletedDateTime | <p>Date and time the course was completed.</p> <p>Source Table: Course Source Column: CompletedDateTime</p> | VDT_DATETIME Datetime |
| ClinicalStatus | <p>Indicates clinical status of course. Possible states are:</p> <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED <p>Source Table: Course Source Column: ClinicalStatus</p> | VDT_CLINICALSTATUS Varchar(16) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | <p>Username of the person logged into the workstation when data in the row was modified.</p> <p>Source Table: Radiation</p> <p>Source Column: HstryUserName</p> | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | <p>Date the data in the row was modified.</p> <p>Source Table: Radiation</p> <p>Source Column: HstryDateTime</p> | VDT_DATETIMESTAMP Datetime |
| GantryRtnExt | <p>Indicates the extended range for Varian Auto Sequencing. Two characters indicate the start and stop angle. If the first character is <i>E</i> then it's gantry return extended. If the second character is <i>E</i> then it's stop angle Extended. Values are the first character from the following:</p> <ul style="list-style-type: none">■ NN■ NE■ EN■ EE <p>Set GantryRtnExt equal to null, when it is equal <i>N</i>.</p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: GantryRtnExt</p> <p>Formula: <code>Substring(TreatmentField MH.GantryRtnExt, 1, 1)</code></p> | VDT_STRING16 Varchar(16) |
| StopAngleExt | <p>Extended range indication for the gantry stop angle. If the second character is <i>E</i> then it's stop angle extended. Set StopAngleExt equal to, when it is equal <i>N</i></p> <p>Source Table: TreatmentFieldMH</p> <p>Source Column: GantryRtnExt</p> <p>Formula: <code>Substring(TreatmentField MH.GantryRtnExt, 2, 1)</code></p> | VDT_STRING16 Varchar(16) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|------------------------|--|-----------------------|
| TableTopEccentricAngle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: TableTopEccentricAngle | VDT_ANGLE Float |
| AddOnEDW | EDW add-ons. Source Table: AddOn Source Column: AddOnId1, AddOnId2, AddOnId3, AddOnId4, AddOnId5, AddOnId6 | VDT_ID Varchar(16) |
| AddOnId1 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId1 | VDT_ID Varchar(16) |
| AddOnId2 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId2 | VDT_ID Varchar(16) |
| AddOnId3 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId3 | VDT_ID Varchar(16) |
| AddOnId4 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId4 | VDT_ID Varchar(16) |
| AddOnId5 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId5 | VDT_ID Varchar(16) |
| AddOnId6 | Identifies the add-ons of the machine. Source Table: AddOn Source Column: AddOnId6 | VDT_ID Varchar(16) |

Table 218 Return Values for vp_GetSTrtFieldMHRep(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------|
| AddOn | Concatenation of all AddOnId's. Source Table: TreatmentFieldHstry Source Columns: AddOnId1, AddOnId2, AddOnId3, AddOnId4, AddOnId5, AddOnId6 | VDT_ID Varchar(16) |
| WedgeMU | Wedge monitor units. Source Table: Field Source Column: WedgeDose | VDT_DOSE Float |

vp_GetTreatFieldSetup

The *vp_GetTreatFieldSetup* stored procedure lists the treatment field parameters for each course for the selected patient.

Table 219 Input Values for vp_GetTreatFieldSetup

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @dtStart | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @dtEnd | The ending date for the information included in the report. | VDT_DATETIME Datetime |

Table 220 Return Values for vp_GetTreatFieldSetup

| SP Column Name | Description | Datatype |
|------------------|--|------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|-----------------|--|--------------------------------|
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseId | External ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none"> ■ Dr ■ Mr ■ Mrs ■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| FieldSer | System generated serial number for a field. Source Table: Field Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| ResourceSer | System generated serial number for a schedulable resource. Source Table: Radiation Source Column: ResourceSer | VDT_SERIALNUMBER Integer |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: FieldId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: FieldName | VDT_NAME Varchar(64) |
| GantryRtn | Gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment. Source Table: Field Source Column: GantryRtn | VDT_ANGLE Float |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none"> ■ Symmetry ■ AsymmetryX ■ AsymmetryY ■ AsymmetryX&Y Source Table: Field Source Column: CollMode | VDT_COLLMODE Varchar(16) |
| CollRtn | Collimator rotation angle during field treatment, in degrees. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| CollY | Collimator Y position for symmetrical fields. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1, CollY2 | VDT_COLLPARAM Float |
| CollY1 | Collimator top (farther from gantry) Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1 | VDT_COLLPARAM Float |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-------------------------|
| CollY2 | Collimator bottom Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY2 | VDT_COLLPARAM Float |
| CollX | Collimator X position for symmetrical fields. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollX1, CollX2 | VDT_COLLPARAM Float |
| CollX1 | Collimator right X position (viewed from radiation source). In IEC scale, values increase to right. Source Table: Field Source Column: CollX1 | VDT_COLLPARAM Float |
| CollX2 | Collimator left X position. In IEC scale, values increase to right. Source Table: Field Source Column: CollX2 | VDT_COLLPARAM Float |
| CouchVrt | Couch vertical position. In IEC scale, values increase when moving up, and zero is at isocentric height. Source Table: Field Source Column: CouchVrt | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position. In IEC scale, values increase when moving toward gantry. Source Table: Field Source Column: CouchLng | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position. In IEC scale, values increase to left when viewed from gantry. Source Table: Field Source Column: CouchLat | VDT_COUCHPARAM Float |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|---------------------|--|-------------------------------|
| Technique | <p>Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are:</p> <ul style="list-style-type: none"> ■ STATIC ■ ARC ■ TOTAL ■ HDTSE <p>Source Table: Field Source Column: Technique</p> | VDT_TECHNIQUE Varchar(16) |
| FieldNote | <p>General note about the setup.</p> <p>Source Table: Field Source Column: Note</p> | VDT_STRING254 Varchar(254) |
| PatientSupportAngle | <p>Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above.</p> <p>Source Table: Field Source Column: PatientSupportAngle</p> | VDT_ANGLE Float |
| EnergyMode | <p>Energy/Mode combination used with this treatment field.</p> <p>Source Table: EnergyMode Source Column: Energy, RadiationType Formula: $\text{rtrim(ltrim(str(.EnergyMode. Energy/1000)+ EnergyMode.RadiationType))}$ </p> | VDT_ENERGYMODE Varchar(16) |
| SSD | <p>Source-to-skin distance (same as target-to-skin distance).</p> <p>Source Table: Field Source Column: SSD</p> | VDT_FLOAT Float |
| MU | <p>Number of monitor units (MUs) to deliver to the field during treatment exposure.</p> <p>Source Table: Field Source Column: MU</p> | VDT_MU Integer |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| TreatmentTime | Total treatment time of this field. Used to verify that the user is not given too large a dose. Calculated from MUUpGy and DoseRate. Source Table: Field Source Column: TreatmentTime | VDT_TIME Float |
| StopAngle | Rotation angle of the gantry at which irradiation and rotation stop during an electron or X-ray Arc treatment. Source Table: Field Source Column: StopAngle | VDT_ANGLE Float |
| MUpDeg | Not used | VDT_MUDEG Float |
| FieldRevCount | Revision count. Incremented each time this row is modified. Source Table: Field Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |
| ToleranceId | Unique ID for this table. Source Table: Tolerance Source Column: ToleranceId | VDT_ID Varchar(16) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| MachineScale | Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are: <ul style="list-style-type: none"> ■ VAR ■ IEC61217 ■ VAR_IEC Source Table: Machine Source Column: MachineScale | VDT_SCALE Varchar(16) |
| ToleranceSer | System generated serial number for a tolerance. Source Table: Field Source Column: ToleranceSer | VDT_SERIALNUMBER Integer |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|------------------------|---|-----------------------------|
| GantryRtnExt | <p>Indicates whether there is planned gantry return extended. Values are the first character from the following:</p> <ul style="list-style-type: none"> ■ NN ■ NE ■ EN ■ EE <p>Set GantryRtnExt equal to null, when it is equal N.</p> <p>Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field.GantryRtnExt,1,1)</p> | VDT_STRING16 Varchar(16) |
| StopAngleExt | <p>Extended range indication for the gantry stop angle. Values are the second character from the following:</p> <ul style="list-style-type: none"> ■ NN ■ NE ■ EN ■ EE <p>Set StopAngleExt equal to null, when it is equal N.</p> <p>Source Table: Field Source Column: GantryRtnExt Formula: Substring(Field.GantryRtnExt,2,1)</p> | VDT_STRING16 Varchar(16) |
| TableTopEccentricAngle | <p>Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above.</p> <p>Source Table: Field Source Column: TableTopEccentricAngle</p> | VDT_ANGLE Float |
| PlanSetupId | <p>Unique ID for the plan setup.</p> <p>Source Table: PlanSetup Source Column: PlanSetupId</p> | VDT_ID Varchar(16) |
| PlanUID | Not used | VDT_UID Varchar(64) |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|----------------|--|-----------------------------|
| ReferenceImage | Indicates whether an image reference is attached to this field. Source Table: TreatmentField Source Column: RefImageSer | VDT_SERIALNUMBER Integer |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: vv_SexLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| StartDateTime | Date and Time Treatment was begun on this Course. Source Table: Course Source Column: StartDateTime | VDT_DATETIME Datetime |
| CourseEndDate | Date and time the course was completed. Source Table: Course Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| Intent | Describes the objective of the Course as related to the Patient's disease. There are three (3) possible values: <i>Curative, Palliative, or Unknown.</i> (NLS Lookup: COURSE_INTENT) Source Table: Course Source Column: Intent | VDT_INTENT Varchar(16) |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|-----------------------|---|-------------------------------|
| CourseNote | Free text. Source Table: Course Source Column: Comment | VDT_COMMENT Varchar(254) |
| ClinicalStatus | Indicates language specific CLINICAL_STATUS for course. Possible values for english are: <ul style="list-style-type: none"> ■ ACTIVE ■ COMPLETED ■ RESTORED Source Table: vv_ClinicalStatusLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| CourseSer | System generated serial number for a course. Source Table: Course Source Column: CourseSer | VDT_SERIALNUMBER Integer |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | @dtStart | VDT_DATETIME Datetime |
| ReportEndDate | @dtEnd | VDT_DATETIME Datetime |
| PatientStatus | LookupAvailable for PATIENT_STATUS (New Patient (NP)/Previous Patient (NOP)). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| FieldModifiedDateTime | Date the data in the row was modified. Source Table: Radiation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |

Table 220 Return Values for vp_GetTreatFieldSetup(continued)

| SP Column Name | Description | Datatype |
|------------------------|--|----------------------------------|
| FieldModifiedUsereName | Username of the person logged into the workstation when data in the row was modified. Source Table: Radiation Source Column: HstryUserName | VDT_HSTRYUSERNAME Varchar(32) |

vp_GetTreatmentFieldMHRep

The *vp_GetTreatmentFieldMHRep* stored procedure lists the treatment fields.

Table 221 Input Values for vp_GetTreatmentFieldMHRep

| SP Column Name | Description | Datatype |
|----------------|------------------------------------|------------------------------|
| @trPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |

Table 222 Return Values for vp_TreatmentFieldMHRep

| SP Column Name | Description | Datatype |
|------------------|--|--------------------------------|
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| PatientLastName | Patient last name. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | Patient first name. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientId | Unique patient ID number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| CourseId | Unique ID for a course. Source Table: Course Source Column: CourseId | VDT_ID Varchar(16) |
| DoctorHonorific | Doctor's professional or courtesy title. Typical values are: <ul style="list-style-type: none">■ Dr■ Mr■ Mrs■ Ms Source Table: Doctor Source Column: Honorific | VDT_STRING16 Varchar(16) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| DoctorLastName | Doctor's last name. Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| HospitalName | External name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_ID Varchar(16) |
| FieldSer | System generated serial number for a field. Source Table: Field Source Column: RadiationSer | VDT_SERIALNUMBER Integer |
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |
| FieldRevCount | Field revision count. Source Table: Field Source Column: FieldRevCount | VDT_REVISIONCOUNT Integer |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| GantryRtn | Gantry rotation angle (in IEC scale) during a treatment, or the angle at which irradiation and rotation starts during an Arc treatment. Source Table: Field Source Column: GantryRtn | VDT_ANGLE Float |
| CollRtn | Collimator rotation angle during field treatment, in degrees. Source Table: Field Source Column: CollRtn | VDT_ANGLE Float |
| CollMode | Defines the kind of collimation used. Possible values are: <ul style="list-style-type: none">■ Symmetry■ AsymmetryX■ AsymmetryY■ AsymmetryX&Y Source Table: Field Source Column: CollMode | VDT_COLLMODE Varchar(16) |
| CollY1 | Collimator top (farther from gantry) Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY1 Formula: Field.CollY1 * -1 . 0 | VDT_COLLPARAM Float |
| CollY2 | Collimator bottom Y position. In IEC scale, values increase when moving away from gantry. Source Table: Field Source Column: CollY2 | VDT_COLLPARAM Float |
| CollX1 | Collimator right X position (viewed from radiation source). In IEC scale, values increase to right. Source Table: Field Source Column: CollX1 Formula: Field.CollX1 * -1 . 0 | VDT_COLLPARAM Float |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|---------------------|--|------------------------------|
| CollX2 | Collimator left X position. In IEC scale, values increase to right. Source Table: Field Source Column: CollX2 | VDT_COLLPARAM Float |
| CouchVrt | Couch vertical position. In IEC scale, values increase when moving up, and zero is at isocentric height. Source Table: Field Source Column: CouchVrt | VDT_COUCHPARAM Float |
| CouchLng | Couch longitudinal position. In IEC scale, values increase when moving toward gantry. Source Table: Field Source Column: CouchLng | VDT_COUCHPARAM Float |
| CouchLat | Couch lateral position. In IEC scale, values increase to left when viewed from gantry. Source Table: Field Source Column: CouchLat | VDT_COUCHPARAM Float |
| Technique | Technique of this field. For a treatment field, it corresponds to TechniqueId in the ExternalBeam definition. Typical values are: <ul style="list-style-type: none">■ STATIC■ ARC■ TOTAL■ HDTSE Source Table: Field Source Column: Technique | VDT_TECHNIQUE Varchar(16) |
| PatientSupportAngle | Corresponds with couch isocentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: PatientSupportAngle | VDT_ANGLE Float |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|----------------|---|-------------------------------|
| EnergyMode | Energy/Mode combination used with this treatment field. Source Table: EnergyMode Source Column: Energy, RadiationType Formula: str(EnergyMode.Energy/100) + EnergyMode.RadiationType | VDT_ENERGymode Varchar(16) |
| SSD | Source-to-skin distance (same as target-to-skin distance). Source Table: Field Source Column: SSD | VDT_FLOAT Float |
| MU | Number of monitor units (MUs) to deliver to the field during treatment exposure. Source Table: Field Source Column: MU | VDT_MU Integer |
| TreatmentTime | Total treatment time of this field. Used to verify that the user is not given too large a dose. Calculated from MUpGy and DoseRate. Source Table: Field Source Column: TreatmentTime | VDT_TIME Float |
| StopAngle | Rotation angle of the gantry at which irradiation and rotation stop during an electron or X-ray Arc treatment. Source Table: Field Source Column: StopAngle | VDT_ANGLE Float |
| MUpDeg | MU/degree in Arc therapy. Source Table: TreatmentFieldMH Source Column: MUpDeg | VDT_MUDEG Float |
| ToleranceId | Unique ID for this table. Source Table: Tolerance Source Column: ToleranceId | VDT_ID Varchar(16) |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|-----------------------|--|-----------------------------------|
| MachineScale | Scale convention that determines the range of mechanical parameters with which the machine works (in LookupTable). Typical values are: <ul style="list-style-type: none">■ VAR■ IEC61217■ VAR_IEC Source Table: Machine Source Column: MachineScale | VDT_SCALE Varchar(16) |
| TreatApprovalUserName | Name of person who approved this concept for treatment. Source Table: PlanSetup Source Column: StatusUserName | VDT_USERNAME Varchar(32) |
| TreatApprovalDate | Date and time when the plan concept correlation was approved for treatment. Source Table: PlanSetup Source Column: StatusDate | VDT_DATETIME Datetime |
| CompletedByUserName | Username of authorized person who marked the course as complete. Source Table: Course Source Column: CompletedByUserName | VDT_USERNAME Varchar(32) |
| CompletedDateTime | Date and time the course was completed. Source Table: Course Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ClinicalStatus | Indicates clinical status of course. Possible states are: <ul style="list-style-type: none">■ ACTIVE■ COMPLETED■ RESTORED Source Table: Course Source Column: ClinicalStatus | VDT_CLINICALSTATUS Varchar(16) |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|----------------|---|----------------------------------|
| HstryUserName | Username of the person logged into the workstation when data in the row was modified. Source Table: Radiation Source Column: HstryUserName | VDT_HSTRYUSERNAME Varchar(32) |
| HstryDateTime | Date the data in the row was modified. Source Table: Radiation Source Column: HstryDateTime | VDT_DATETIMESTAMP Datetime |
| GantryRtnExt | Indicates whether there is planned gantry return extended. If first character is <i>E</i> then it's gantry return extended. Values are the first character from the following: <ul style="list-style-type: none">■ NN■ NE■ EN■ EE Set GantryRtnExt equal to null, when it is equal <i>N</i> . Source Table: TreatmentFieldMH Source Column: GantryRtnExt Formula: Substring(TreatmentField MH.GantryRtnExt, 1, 1), | VDT_STRING16 Varchar(16) |
| StopAngleExt | Extended range indication for the gantry stop angle. Values are the second character from the following: <ul style="list-style-type: none">■ NN■ NE■ EN■ EE <ul style="list-style-type: none">■ Set StopAngleExt equal to null, when it is equal <i>N</i> Source Table: TreatmentFieldMH Source Column: GantryRtnExt Formula: Substring(Field. GantryRtnExt, 2, 1) | VDT_STRING16 Varchar(16) |

Table 222 Return Values for vp_TreatmentFieldMHRep (continued)

| SP Column Name | Description | Datatype |
|------------------------|---|--------------------|
| TableTopEccentricAngle | Corresponds with couch eccentric rotation. In IEC scale, values increase counter-clockwise when viewed from above. Source Table: Field Source Column: TableTopEccentricAngle | VDT_ANGLE Float |

vp_GetVisionImagesRpt

The *vp_GetVisionImagesRpt* stored procedure lists all ARIA Radiation Oncology images acquired for each machine within a user-defined range.

Table 223 Input Values for vp_GetVisionImagesRpt

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @EndDate | The ending date for the information included in the report. | VDT_DATETIME Datetime |
| @strPatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |

Table 224 Return Values for vp_GetVisionImagesRpt

| SP Column Name | Description | Datatype |
|------------------|---|-------------------------------|
| FieldId | Unique ID for a treatment field. Source Table: Radiation Source Column: RadiationId | VDT_ID Varchar(16) |
| FieldName | Name of field. Source Table: Radiation Source Column: RadiationName | VDT_NAME Varchar(64) |
| ImageId | External identification. ID of Image. Source Table: Image Source Column: ImageId | VDT_ID Varchar(16) |
| CreationDate | Date/Time of the image taken/created. Source Table: Image Source Column: CreationDate | VDT_DATETIMESTAMP Datetime |
| ApprovalDate | Date and Time this Image was approved. Source Table: Image Source Column: ApprovalDate | VDT_DATETIME Datetime |
| ApprovalUserName | Name of the user who has approved this image. Source Table: Image Source Column: ApprovalUserName | VDT_USERNAME Varchar(32) |

Table 224 Return Values for vp_GetVisionImagesRpt(continued)

| SP Column Name | Description | Datatype |
|----------------|---|------------------------------|
| ImageType | Type of the image taken. Values are defined in LookupTable for ListSelector IMAGE_TYPE: <ul style="list-style-type: none">■ Image CT■ Image SL■ Image 2D Source Table: LookupTable Source Column: Expression1 | VDT_TABLENAME Varchar(30) |
| ImageStatus | Application status of the image. Examples: <ul style="list-style-type: none">■ None - No defined status■ New - Default status of image after acquisition■ Reviewed - Image was reviewed by a radiographer■ Approved - Approved by an oncologist. This attribute should not be NULL, because this means status has never been explicitly set. Source Table: LookupTable Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| ImageNote | A historical sequence of notes attached to the image containing the date when new text was entered, the user who entered it, and free text. Source Table: Image Source Column: ImageNotes | VDT_TEXT Text |
| MachineId | Unique machine ID assigned by the user. Source Table: Machine Source Column: MachineId | VDT_ID Varchar(16) |
| MachineName | Name of a machine. Source Table: Machine Source Column: MachineName | VDT_NAME Varchar(64) |
| DepartmentId | Not used | VDT_ID Varchar(16) |

Table 224 Return Values for vp_GetVisionImagesRpt(continued)

| SP Column Name | Description | Datatype |
|------------------|--|------------------------------|
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Name of the department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| DoctorId | Unique doctor ID that identifies a row in the table. The user assigns this ID when the doctor information is entered. Source Table: Doctor Source Column: DoctorId | VDT_ID Varchar(16) |
| DoctorLastName | Doctor's last name (surname or family name). Source Table: Doctor Source Column: LastName | VDT_NAME Varchar(64) |
| DoctorFirstName | Doctor's first name. Source Table: Doctor Source Column: FirstName | VDT_NAME Varchar(64) |
| HospitalName | Identifies the name of the hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: FirstName | VDT_NAME Varchar(64) |

Table 224 Return Values for vp_GetVisionImagesRpt(continued)

| SP Column Name | Description | Datatype |
|-----------------|---|--------------------------------|
| PatientNote | Special notes regarding this patient. Source Table: PatientNote Source Column: Note | VDT_STRING254 Varchar(254) |
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ImageNotesFlag | <ul style="list-style-type: none"> ■ Yes - Indicates if ImageNotes are there. (ImageNotesLen > 0) ■ No- Indicates if ImageNotes are not there. (ImageNotesLen = 0) Source Table: Image Source Column: ImageNotesLen | VDT_STRING64 Varchar(64) |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| WorkPhone | Phone number at which patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONENUMBER Varchar(64) |
| ReportStartDate | @Start_Date | VDT_DATETIME Datetime |
| ReportEndDate | @End_Date | VDT_DATETIME Datetime |
| ReportRunBy | Output parameter @strUserId from <i>vp_syGetCurrentLogin</i> . | VDT_ID Varchar(16) |

Table 224 Return Values for vp_GetVisionImagesRpt(continued)

| SP Column Name | Description | Datatype |
|----------------|---|-----------------------------|
| ImageSer | Internal identification. This is a serial number automatically generated by the database stored procedures during the insert operation. | VDT_SERIALNUMBER Integer |

vp_RptActCompltdNotExported

The *vp_RptActCompltdNotExported* stored procedure lists all activities that have been completed but have not yet been exported.

Table 225 Input Values for vp_RptActCompltdNotExported

| SP Column Name | Description | Datatype |
|-----------------|---|------------------------------|
| @End_CDate | The ending date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @End_MkdCDate | The ending date of the marked completed activities (but not exported)included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |
| @PatientId | Identifies the ID1 of the patient. | VDT_PATIENTID Varchar(25) |
| @Start_CDate | The starting date of the completed activities included in the report. | VDT_DATETIME Datetime |
| @Start_MkdCDate | The starting date of the marked completed activities (but not exported)included in the report. | VDT_DATETIME Datetime |
| @TemplateId | Identifies the ID of the template. | VDT_ID Varchar(16) |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 226 Return Values for vp_RptActCompltdNotExported

| SP Column Name | Description | Datatype |
|-----------------|--|------------------------------|
| PatientId | Unique patient identifier number assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| PatientLastName | Last name of the patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|---------------------------|---|--------------------------------|
| PatientFirstName | First name of patient. Source Table: Patient. Source Column: FirstName | VDT_NAME Varchar(64) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| PatientStatus | LookupValue's for PATIENT_STATUS: <i>New Patient</i> (NP) or <i>Previous Patient</i> (NOP). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientDOB | Patient's Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |
| AccountBillingCode | Account Billing Code Id. Source Table: AccountBillingCodeMH Source Column: AccountBillingCodeId | VDT_STRING20 Varchar(20) |
| TemplateId | Identification of the template. Source Table: Template Source Column: TemplateID | VDT_STRING64 Varchar(64) |
| TemplateSer | System generated serial number for a template. Source Table: Template Source Column: TemplateSer | VDT_SERIALNUMBER Integer |
| TemplateRevCount | RevisionCount. Source Table: Template Source Column: TemplateRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCode | Name of procedure code. Source Table: ProcedureCodeMH Source Column: ProcedureCode | VDT_STRING64 Varchar(64) |
| ProcedureCode Description | A description of the activity. Source Table: ProcedureCodeMH Source Column: Comment | VDT_DESCRIPTION Varchar(64) |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------|
| ProcedureCodeType | Type of ProcedureCode. Values are <i>Professional, Technical, Global, Administrative, Medical Oncology</i> , and other options. Source Table: ProcedureCodeMH Source Column: CodeType | VDT_TYPE Varchar(32) |
| ProcedureBillingCode | The hospital specific activity charge code. Source Table: ProcedureCodeMH Source Column: BillingCode | VDT_ACTIVITYCODE Varchar(64) |
| ActivityCategory | Name of activity category. Source Table: vv_ActivityCategoryLng Source Column: Expression1 | VDT_STRING128 Varchar(128) |
| CompletedDateTime | Date and time activity was completed. Source Table: ActInstProcCode Source Column: CompletedDateTime | VDT_DATETIME Datetime |
| ExportedDateTime | Date and time the charges were exported. Source Table: ActInstProcCode Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| FromDateOfService | Date and time of service when the activity was begun. Source Table: ActInstProcCode Source Column: FromDateOfService | VDT_DATETIME Datetime |
| ToDateOfService | Date and time of service when the activity ended. Source Table: ActInstProcCode Source Column: ToDateOfService | VDT_DATETIME Datetime |
| MarkedCompletedBy | Name of the person who marked activity completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdBy | VDT_USERNAME Varchar(32) |
| MarkedCompleted DateTime | Date and Time Activity was marked completed. Source Table: ActInstProcCode Source Column: MrkdCmpltdDateTime | VDT_DATETIME Datetime |
| ExportedBy | User name of the person who exported the charges. Source Table: ActInstProcCode Source Column: ExportedBy | VDT_USERNAME Varchar(32) |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|----------------------|--|-----------------------------|
| ActivityExportedFlag | Set to 1 when ExportedDateTime is not equal null, otherwise set to 0. | bit |
| ChargeWaivedBy | User name of the person who waived the charges. Source Table: ActInstProcCode Source Column: ChargeWaivedBy | VDT_USERNAME Varchar(32) |
| ReviewedBy | User name of the person who reviewed the activity capture. Source Table: ActInstProcCode Source Column: ReviewedBy | VDT_USERNAME Varchar(32) |
| PrmrGlblCharge | Total standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| PrmrTechCharge | Technical component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrTechCharge | VDT MONEY money |
| PrmrProfCharge | Professional component of the standard charge that primary payor allows for this procedure. Source Table: ProcedureCodeMH Source Column: PrmrProfessCharge | VDT MONEY money |
| ChargedAmount | If credit status is active then it is equal PrmrGlblCharge, otherwise it is equal 0.0. Source Table: ProcedureCodeMH Source Column: PrmrGlblCharge | VDT MONEY money |
| ProfessionalRVU | Professional component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: ProfessionalRVU | VDT_FLOAT Float |
| GlobalRVU | Total Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: GlobalRVU | VDT_FLOAT Float |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|-----------------------------|---|---------------------------------|
| TechnicalRVU | Technical component of the Medicare RVUs for this procedure. Source Table: ProcedureCodeMH Source Column: TechnicalRVU | VDT_FLOAT Float |
| ActivityModifierCode | Identifying code for this modifier in alphanumeric format (one or two characters). This is supplemental information intended to clarify activity charges for payors. Source Table: ActivityCodeMdMH Source Column: Modifier | VDT_ACTIVITYCODE Varchar(64) |
| ActMdCode Description | Free text Source Table: ActivityCodeMdMH Source Column: Description | VDT_DESCRIPTION Varchar(64) |
| AttendingOncologist Name | String consisted of LastName, comma, and FirstName of Attending Oncologist Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistName | String consisted of LastName, comma, and FirstName of Oncologist. Source Table: Doctor Source Column: LastName, FirstName | VDT_NAME Varchar(64) |
| OncologistId | Not used | VDT_NAME Varchar(64) |
| HospitalName | Name of a hospital. Source Table: Hospital Source Column: HospitalName | VDT_NAME Varchar(64) |
| DepartmentName | Name of a department. Source Table: Department Source Column: DepartmentName | VDT_NAME Varchar(64) |
| ActivityCaptureSer | System generated serial number for a activity capture. Source Table: ActivityCapture Source Column: ActivityCaptureSer | VDT_SERIALNUMBER Integer |

Table 226 Return Values for vp_RptActCompldNotExported (continued)

| SP Column Name | Description | Datatype |
|--------------------------|---|------------------------------|
| ActivityCaptureRevCount | RevisionCount. Source Table: ActivityCapture Source Column: ActivityCaptureRevCount | VDT_REVISIONCOUNT Integer |
| ActivityInstanceSer | Internal Identification (Serial Number which is the Primary Key to the <i>ActivityInstance</i> table). Source Table: ActInstProcCode Source Column: ActivityInstanceSer | VDT_SERIALNUMBER Integer |
| ActivityInstanceRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityInstanceRevCount | VDT_REVISIONCOUNT Integer |
| PatientSer | System generated serial number for a patient. Source Table: Patient Source Column: PatientSer | VDT_SERIALNUMBER Integer |
| ModifierSer | Internal Identification (Serial Number which is the Primary Key to the <i>ActivityCodeMd</i> table). Source Table: ActInstProcCode Source Column: ModifierSer | VDT_SERIALNUMBER Integer |
| ActivityCodeMdRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ActivityCodeMdRevCount | VDT_REVISIONCOUNT Integer |
| ProcedureCodeSer | Internal Identification (Serial Number which is the Primary Key to the <i>ProcedureCode</i> table). Source Table: ActInstProcCode Source Column: ProcedureCodeSer | VDT_SERIALNUMBER Integer |
| ProcedureCodeRevCount | RevisionCount. Source Table: ActInstProcCode Source Column: ProcedureCodeRevCount | VDT_REVISIONCOUNT Integer |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|-----------------------------|---|-----------------------------------|
| DepartmentSer | Internal Identification (Serial Number which is the Primary Key to the <i>Department</i> table). Source Table: ActivityCapture Source Column: DepartmentSer | VDT_SERIALNUMBER Integer |
| AccountBillingCode Ser | Internal Identification (Serial Number which is the Primary Key to the <i>AccountBillingCode</i> table). Source Table: ActivityCapture Source Column: AccountBillingCodeSer | VDT_SERIALNUMBER Integer |
| AccountBillingCode RevCount | RevisionCount. Source Table: ActivityCapture Source Column: AccountBillingCodeRevCount | VDT_REVISIONCOUNT Integer |
| ResourceSer | Internal Identification (Serial Number which is the Primary Key to the <i>Resource</i> table). Source Table: ActivityCapture Source Column: ResourceSer | VDT_SERIALNUMBER Integer |
| AttendingOncologist Ser | Internal Identification (Serial Number which is the Primary Key to the <i>Doctor</i> table). Source Table: ActivityCapture Source Column: AttendingOncologistSer | VDT_SERIALNUMBER Integer |
| DiagnosisSer | Not used | VDT_SERIALNUMBER Integer |
| InPatientFlag | Flag indicating whether the patient stays in the hospital or not. ■ 0 = OutPatient ■ 1 = InPatient Source Table: ActivityCapture Source Column: InPatientFlag | VDT_FLAG_FALSE_DEFAULT Integer |
| CreditedBy | User name of the person who authorize the credit. Source Table: Credit Source Column: CreditedBy | VDT_USERNAME Varchar(32) |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|--------------------------|---|-------------------------------|
| CreditedDateTime | Date and time the credit was done. Source Table: Credit Source Column: CreditedDateTime | VDT_DATETIME Datetime |
| CreditExportedBy | User name of the person who exported the credit. Source Table: Credit Source Column: ExportedBy | VDT_USERNAME Varchar(32) |
| CreditExportedDate Time | Date and time the credit was exported. Source Table: Credit Source Column: ExportedDateTime | VDT_DATETIME Datetime |
| CreditNote | Note. Source Table: Credit Source Column: Note | VDT_STRING254 Varchar(254) |
| CreditSer | System generated serial number for a credit. Source Table: Credit Source Column: CreditSer | VDT_SERIALNUMBER Integer |
| CreditRevCount | Not used | VDT_REVISIONCOUNT Integer |
| CreditAmount | If credit status is active, than it is equal negative PrmrGblCharge, otherwise it is null. Source Table: ProcedureCodeMH Source Column: PrmrGblCharge | VDT MONEY money |
| ActInstProcCodeSer | System generated serial number for a activity instance procedure code. Source Table: ActInstProcCode Source Column: ActInstProcCodeSer | VDT_SERIALNUMBER Integer |
| ActInstProcCodeRev Count | RevisionCount. Source Table: ActInstProcCode Source Column: ActInstProcCodeRevCount | VDT_REVISIONCOUNT Integer |

Table 226 Return Values for vp_RptActCompltdNotExported (continued)

| SP Column Name | Description | Datatype |
|------------------|---|-------------------------------|
| AllModifierCodes | String consisted of Modifier, comma, Modifier2, comma, Modifier3, comma, Modifier4, comma, Modifier5, comma, Modifier6, comma, Modifier7. Source Table: ActInstProcCode Source Column: Modifier, Modifier2, Modifier3, Modifier4, Modifier5, Modifier6, Modifier7 | VDT_STRING254 Varchar(254) |
| DiagnosisId | User-defined ID for the diagnosis. | VDT_ID Varchar(32) |
| ReportEndDate | @End_CDate or @End_EDate or @End_MkdCDate | VDT_DATETIME Datetime |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin | VDT_ID Varchar(32) |
| ReportStartDate | @Start_CDate or @Start_EDate or @Start_MkdCDate | VDT_DATETIME Datetime |

vp_RptMachineSchedule

The *vp_RptMachineSchedule* stored procedure lists appointments related to machines for a given date range.

Table 227 Input Values for vp_RptMachineSchedule

| SP Column Name | Description | Datatype |
|----------------|--|--------------------------|
| @EndDate | The ending date of the information included in the report. | VDT_DATETIME Datetime |
| @HIPAA_FLAG | Flag is equal 1, when HIPAA auditing is enabled. Otherwise NULL | VDT_FLAG Integer |
| @StartDate | The starting date for the information included in the report. | VDT_DATETIME Datetime |
| @UserCUID | Unique constant User ID. | VDT_UID Varchar(64) |

Table 228 Return Values for vp_RptMachineSchedule

| SP Column Name | Description | Datatype |
|--------------------|---|------------------------------|
| PatientLastName | Last name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientFirstName | First name of patient. Source Table: Patient Source Column: LastName | VDT_NAME Varchar(64) |
| PatientId | Unique patient identifier assigned by the user when the information for this patient is entered. Source Table: Patient Source Column: PatientId | VDT_PATIENTID Varchar(25) |
| ScheduledStartTime | Scheduled start date and time of the appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | VDT_DATETIME Datetime |

Table 228 Return Values for vp_RptMachineSchedule (continued)

| SP Column Name | Description | Datatype |
|-----------------------|---|----------------------------------|
| ScheduledActivityCode | <p>String representing schedule activity code. It can have following values: <i>Open, In Progress, Cancelled, Completed, Manually Completed, Pt. ComplActive, Pt. ComplFinish, Patient On-Break, Cancelled - Patient No-Show, Reschedule Activity.</i></p> <p>Source Table: ScheduledActivity</p> <p>Source Column: ScheduledActivityCode</p> | VDT_STRING254 Varchar(254) |
| ActivityNote | <p>This a textual note entered to describe the details of the activity. This is a NULL allowed field.</p> <p>Source Table: ScheduledActivity</p> <p>Source Column: ActivityNote</p> | VDT_STRING254 Varchar(254) |
| HospitalName | <p>Name of a hospital.</p> <p>Source Table: Hospital</p> <p>Source Column: HospitalName</p> | VDT_NAME Varchar(64) |
| DepartmentName | <p>Name of a hospital or clinic department.</p> <p>Source Table: Department</p> <p>Source Column: DepartmentName</p> | VDT_NAME Varchar(64) |
| ActivityCode | <p>The name of a schedulable or nonschedulable activity. This attribute is an alternate key for the Activity table.</p> | VDT_STRING64 Varchar(64) |
| ObjectStatus | <p>The ObjectStatus indicates whether the Appointment is <i>Active, InActive, or Deleted.</i></p> <p>Source Table: ScheduledActivity</p> <p>Source Column: ObjectStatus</p> | VDT_OBJECT_STATUS Varchar(16) |
| PatientSer | <p>System generated serial number that identifies a patient.</p> <p>Source Table: Patient</p> <p>Source Column: PatientSer</p> | VDT_SERIAL_NUMBER Integer |
| MachineId | <p>Unique machine ID assigned by the user.</p> <p>Source Table: Machine</p> <p>Source Column: MachineId</p> | VDT_ID Varchar(16) |

Table 228 Return Values for vp_RptMachineSchedule (continued)

| SP Column Name | Description | Datatype |
|--------------------|---|------------------------------------|
| WorkPhone | Phone number at which the patient can be contacted at work. Source Table: Patient Source Column: WorkPhone | VDT_PHONENUMBER Varchar(64) |
| HomePhone | Phone number at which patient can be contacted at home. Source Table: Patient Source Column: HomePhone | VDT_PHONE NUMBER Varchar(64) |
| ActivityExpression | Local language expression1 for ListSelector ACTIVITY in LookupTable. Source Table: vv_ActivityLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| PatientId2 | Non-unique identifier that can be assigned to a patient. Source Table: Patient Source Column: PatientId2 | VDT_PATIENTID Varchar(25) |
| PatientName | String consisted of LastName, comma, and FirstName of the patient. Source Table: Patient Source Column: LastName and FirstName | VDT_NAME Charchar(64) |
| PatientDOB | Patients Date of Birth. Source Table: Patient Source Column: DateOfBirth | VDT_DATETIME Datetime |
| Sex | Sex of the patient corresponding the values in LookupTable for sex (<i>Female, Male, Not Stated, Other (Hermaphrodite), Transsexual, Unknown</i>). Source Table: Patient Source Column: Sex | VDT_STRING64 Varchar(64) |
| SSN | Patient's Social Security Number. Required by ACRNEMA Dicom3. Source Table: Patient Source Column: SSN | VDT_STRING64 Varchar(64) |

Table 228 Return Values for vp_RptMachineSchedule (continued)

| SP Column Name | Description | Datatype |
|------------------|--|---------------------------------|
| ScheduledEndTime | Scheduled end time of appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledEndTime | VDT_DATETIME Datetime |
| OncologistName | String containing Doctor Last Name, comma, DoctorFirstName. Source Table: Doctor Source Column: LastName and FirstName | VDT_NAME Varchar(64) |
| DoctorAliasName | The physician's name that appears on the screen instead of the combination of Honorific, FirstName, MiddleName, LastName, and NameSuffix. The DisplayName field is set in the Administration application (see Physician Profile under Resource). Source Table: Doctor Source Column: AliasName | VDT_NAME Varchar(64) |
| ReportRunBy | Output parameter @strUserId from vp_syGetCurrentLogin. | VDT_ID Varchar(16) |
| ReportStartDate | Date provided in the input of the report. | VDT_DATETIME Datetime |
| ReportEndDate | Report End Date - To date range provided in the input of the report | VDT_DATETIME Datetime |
| PatientStatus | Status indicating whether the patient is new or has previously been seen at the facility. Values are: <i>New Patient</i> (NP) or <i>Previous Patient</i> (NOP). Source Table: vv_PatientStatusLng Source Column: Expression1 | VDT_STRING64 Varchar(64) |
| ActivitySer | System generated serial number for this activity. This attribute is the primary key for the ActInstProcCode table. Source Table: Activity Source Column: ActivitySer | VDT_SERIAL NUMBER Integer |

Table 228 Return Values for vp_RptMachineSchedule (continued)

| SP Column Name | Description | Datatype |
|-------------------|---|---------------------------------|
| DepartmentSer | System-generated serial number that identifies a department. This attribute is the primary key for the Department table. Source Table: ScheduledActivity Source Column: DepartmentSer | VDT_SERIAL NUMBER Integer |
| AppointmentStatus | Localized value for the ScheduledActivityCode. Source Table: LookupTable SourceValue: Expression1 | VDT_STRING254 Varchar(254) |
| ScheduledTime | Scheduled start date and time of the appointment or activity. Source Table: ScheduledActivity Source Column: ScheduledStartTime | VDT_DATETIME Datetime |

Appendix A Tables, Views, and Stored Procedures

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