



<u>ANSI/HL7 V2.9-201922</u> 12/9/20197/11/2022V291 R1 N1 2022SEP

12. Patient Care

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Notes to Balloters

This is the First Normative Ballot for Version 2.9.1.

Please ballot on chapter content only as it contains all new changes due to V2.9.1 proposals to the standard.

Any additional suggested changes will be found 'Out of Scope'. The formatting of the chapters is mainly driven by the requirement to automatically extract data for automatic consistency checking and to build the HL7 V2.9.1 Database.

The following table itemizes the changes that have been applied to the chapter.

HL7 HQ, the Work Group Chairs and the International Affiliates thank you for your consideration!

Section	Section Name	Change Type	Proposal #	Substantive <u>Y/N</u>	<u>Line</u> <u>Item</u>
<u>12.3.1</u>	PGL/ACK - PATIENT GOAL MESSAGE (EVENTS PC6, PC7, PC8)	Added GSP, GSR and GSC segments into the message structure	SOGI	<u>Yes</u>	
<u>12.3.2</u>	PPR/ACK - PATIENT PROBLEM MESSAGE (EVENTS PC1, PC2, PC3)	Added GSP, GSR and GSC segments into the message structure	SOGI	<u>Yes</u>	
<u>12.3.3</u>	PPP/ACK - PATIENT PATHWAY MESSAGE (PROBLEM- ORIENTED) (EVENTS PCB, PCC, PCD)	Added GSP, GSR and GSC segments into the message structure	<u>SOGI</u>	<u>Yes</u>	
<u>12.3.4</u>	PPG/ACK - PATIENT PATHWAY MESSAGE (GOAL-ORIENTED) (EVENTS PCG, PCH, PCJ)	Added GSP, GSR and GSC segments into the message structure	SOGI	<u>Yes</u>	
12.4.1, 12.4.2, 12.4.3	<u>Data Element 00816 - > 02534</u>	eliminate conflict with table assignment to 0287		<u>No</u>	

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12.2 INTRODUCTION AND OVERVIEW

The Patient Care¹ Work Group has designed the following messages to support the communication of problem-oriented records, including clinical problems, goals, and pathway information between computer systems. The purpose of this chapter is to describe healthcare messages that need to be communicated between clinical applications for a given individual. These message transactions can be sent in either batch or online mode. As described in Chapter 2, multiple communication transactions may be grouped and sent between applications using a file transfer media or direct networked connection.

This chapter defines the transactions that occur at the seventh OSI level, that is, abstract messages. The examples of messages included in this chapter were constructed using the HL7 Encoding Rules.

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While not an ideal term, the word "patient" is used here to represent the entire spectrum of individuals who receive healthcare in a variety of settings including, but not limited to, acute care, clinic care, long-term care, residential care, home health care, office practices, school-based care and community settings.

This chapter describes a Clinical Relationship segment which enables the run-time expression of relationships between information elements both inside and, where identifiable, by the application, outside the message.

12.2.1 Glossary

The following definitions of key terms are used throughout this chapter:

12.2.1.1 Goal:

A **goal** refers to an objective to be achieved as a consequence of healthcare interventions applied to an individual. Goals are set in many areas of the healthcare system, and include educational, behavior modification, and clinical goals such as reduced discomfort, improved circulation. Goals are documented by a variety of healthcare professionals including physicians, nurses, and respiratory and other therapists. Goals are defined during patient visits and they may span one or multiple visits, encounters, or episodes of care.

12.2.1.2 Problem:

A **problem** of a given individual can be described by formal diagnosis coding systems (such as DRGs, NANDA Nursing Diagnosis, ICD9, DSM, etc.) or by other professional descriptions of healthcare issues affecting an individual. Problems can be short- or long-term in nature, chronic or acute, and have a status. In a longitudinal record, all problems may be of importance in the overall long-term care of an individual, and may undergo changes in status repeatedly. Problems are identified during patient visits, and may span multiple visits, encounters, or episodes of care.

12.2.1.3 Role:

A **role** refers to the function or responsibility assumed by a person in the context of a healthcare event. Role information documents a person's association with an identified healthcare activity. Examples include primary care provider, transcriptionist, reviewer, and consulting physician.

12.2.1.4 Clinical pathway:

A **clinical pathway** is a standardized plan of care against which progress towards health is measured. A clinical pathway is applied based upon the results of a patient assessment. A clinical pathway shows exact timing of all key patient care activities intended to achieve expected standard outcomes within designated time frames. A clinical pathway includes documentation of problems, expected outcomes/goals, and clinical interventions/orders.

12.2.1.5 Variance:

Variances are documented deviations, either positive or negative, from a pre-defined standard. Variances are documented against expected outcomes, orders, or the patient's progress in general.

12.2.2 Scenario Descriptions

12.2.2.1 Patient pre-admission or patient admission

A physician's office is scheduling a patient for admission to the hospital. The admitting diagnosis/problem list and admission information is sent by the physician's electronic information system to the hospital's Patient Administration system and longitudinal medical record. The trigger event identifies the message as an "add problem" or update patient medical information to the Patient Administration and medical record system.

12.2.2.2 Consultation

A consultation is requested for an individual. The information system generating the consultation triggers an unsolicited message containing the problem/diagnosis list that is transmitted to the consulting organization. Goals and various kinds of role information are included with the transmission. The trigger event identifies the message as an unchanged record.

12.2.2.3 Loading a clinical repository

Information from point of care, clinical practice management or ancillary systems regarding the creation or update of pathways, problems, diagnoses, or goals are communicated to the clinical repository. Message triggers from the departmental systems may indicate adding, correcting, deleting, or updating records maintained in the clinical data repository.

12.2.2.4 Communicating clinical pathways and multidisciplinary plans of care

The pathway is communicated between Quality Assurance, Point of Care Systems, Research Databases, and Clinical Order Entry Systems. A point of care information system triggers a linkage between a problem and a set of ordered interventions initiated by the clinical order entry system.

12.2.3 **Trigger Events**

The trigger events originate goal, problem and pathway messages. Each trigger event is documented below, along with the appropriate form of the message exchange. These are message-level event triggers, which are augmented by the action code fields contained in the pathway, problem and goal segments described below. Action codes are required fields in patient care message segments (see Chapter 2 for further information regarding implementation issues). Implementors need to apply the appropriate logic as part of their message construction (for example, logic would state that an "add" trigger event should not include segments with a "delete" action code).

In order to accommodate these high-level events, the following patient care events are included in HL7 Table 0003 – Event Type. The added events are instantiated in MSH-9 Message Type and are used by the pathway, problem, and goal messages. MSH-9 Message Type contains the message type and trigger event for the message.

12.2.4 **Use of Action Codes**

Prior to Version 2.3 of the Standard, all repeating segments had to be sent in an update message, because there was no way to indicate which ones changed and which ones did not. In this snapshot mode, all repeating segments must be sent with every subsequent message in the series of messages.

To reduce the number of repeating segments, action codes may be employed. Action codes (e.g., order control codes and result status codes) may be embedded within repeating segments and used by sophisticated application parsers to reduce the number of repetitions required for a complete record.

In either event, for systems implementing Version 2.3 or higher, if a particular repeating segment can be updated by either of these two modes, the parties concerned determine by agreement on a site-specific basis whether an interface uses the snapshot mode or the action code/unique identifier mode.

A description of valid action codes used in message segments originating in this chapter is given immediately below:

- a) AD (ADD) The object defined within the segment should be added to the set of objects that is linked to the previous object in the hierarchical structure of the message. (i.e., a goal under a problem is implicitly linked to the problem. If the goals already exist, the segment placement indicates the addition of a new linkage between the goal and that problem.)
- b) CO (CORRECT) The object attributes contained within the segment have been corrected. This is not updated information, but information originally sent and later found to be in error. The previous attributes should be replaced.
- c) UP (UPDATE) The object attributes contained within the segment are an update of previously sent information. The previous information was correct for the period of time in which it was sent.
- **DE** (**DELETE**) This object should be deleted from the set of objects which are linked to the previous object in the message hierarchy. An example might be a role deleted from the set of roles contained by the Goal object. Delete presumes the original linkage was in error.

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- e) LI (LINK) This action code denotes that the object contained in the segment should be linked in a dependency relationship to the previous object in the hierarchy. It is used to denote relationships and should not contain additional information other than those attributes necessary for specific identification.
- f) UN (UNLINK) This is a request that the object be removed from the set of linked objects. An example might be the dissolution of a relationship between a problem and a goal. Unlink presumes the original linkage was correct, but due to life cycle changes the active linkage is no longer appropriate.
- g) UC (UNCHANGED) This code signifies that the segment is being included for the purposes of hierarchical set identification. It does not contain any changed or additional data. Its purpose is to allow the identification of the collection set to which subsequent segments belong in the message structure. An example might be the modification of role information requiring the previous goal segment to be appropriately identified.

12.2.4.1 Examples of action code usage

A problem list and associated goals are generated in a Point of Care system. This transaction is broadcast through an interface engine that determines which systems in the organization require the event information and then forwards the messages appropriately. Each segment included in the original message contains the Action Code for **ADD** to signify an original message instance.

- h) Upon subsequent review, it is determined that a role segment designates the wrong person as the transcribing clerk for a problem. After the information is changed in the originating system, a new message is sent to provide synchronization. The message includes the original PRB segment with the PRB-1 Action Code for UNCHANGED (to identify the problem for which the role is being changed). This code signifies that the segment is included for the purposes of hierarchical linkage identification and that none of the information contained in it has been changed. The accompanying role segment sent would include the role transcriber in ROL-3 Role, the correct person in ROL-4 Role Person, and the value for CORRECT in ROL-2 Action Code.
- i) It is later decided that an additional goal must be added to a specific problem, and that an already existing goal that is currently supporting another problem should also be linked with this specific problem. The message would be constructed with the problem (PRB) segment for identification (the value for PRB-1 Action Code is UNCHANGED). The goal segment (GOL) for the additional goal would include GOL-1 Action Code for ADD. The goals already included with the problem list that need to be linked to this problem would have to be included on additional GOL segments with the GOL-1 Action Code for LINK.

Once data regarding a Diagnosis/Problem or a Goal have been communicated to other systems, there are occasions on which the data may have to be amended.

- j) New diagnoses/problems must be added to an individual's list. The Problem message is sent with the appropriate Problem Instance ID. All PRB segment(s) included in the message that contain the value for **ADD** in PRB-1 Action Code are processed as additions to the individual's problem list.
- k) New goals are added to the individual's record. The Goal message is sent with the GOL segments indicating the value for **ADD** as GOL-1 Action Code in each segment occurrence.
- Changes are made to the attributes of a goal. Examples include a change in the expected resolution
 date, a change in the life cycle status to reflect its successful conclusion, etc. The Goal message is sent
 with the appropriate GOL-4 Goal Instance ID. The GOL segments of the Goal message would include
 the value for UPDATE in GOL-1 Action Code.
- m) A new goal is attached to a problem already in the repository (e.g., the goal of "education on diabetes" for an individual diagnosed with "insulin-dependent diabetes"). A problem message would be sent with the PRB segment including the PRB-4 Problem Instance ID for the diabetes problem, and with the value UNCHANGED in PRB-1 Action Code. The attached GOL segment for the education goal would accompany the message and contain the value ADD in its GOL-1 Action Code field.
- n) A new diagnosis/problem is attached to a goal (e.g., a Goal is to "discharge an individual with intact

skin." While the initial problem was "skin breakdown related to immobility," a new problem is "potential for skin breakdown related to draining wounds"). A Goal message would be sent with the GOL segment, including the GOL-4 Goal Instance ID for the discharge goal, and contain the value UNCHANGED in GOL-1 Action Code. The attached PRB segment identifying the new problem, "potential for skin breakdown related to draining wounds," would accompany this message and contain the value for ADD in PRB-1 Action Code.

Note: If there is a requirement to modify information contained on a segment and unlink that same problem/goal, two segments must be transmitted (one for the modification and one for the unlink request).

12.2.5 Message Construction Rules

The semantic meaning of a message is contained in the message through the use of the trigger events, the implicit hierarchical linkages of the segments, and the segment action codes. Each of these has a scope within the message. The message event as included in the MSH-9 Message Type has a scope which is global to the message. The segment hierarchical linkage has a scope which includes both the segment itself and its relationship to its parent. The segment action code's scope is to the segment itself. It may further define link and unlink actions in the hierarchical structure.

12.2.5.1 Rule 1

The trigger event defines the action at the first level of the hierarchy, and should not be contradicted by either hierarchical linkages or segment action codes. Thus, a PC1 (problem add) event should only contain problem, goal, and role segments that have action codes **ADD**.

Trigger Event Types	Allowable Action Codes
xxx-Add	Top level action code must be ADD Dependent segment action code must be ADD (or NW for Order segments)
xxx-Update	Top level action code must be CORRECT, UPDATE, or UNCHANGED Dependent segment action codes - Any are allowed at the lower hierarchical levels
xxx-Delete	Top level action code must be DELETE Dependent segments' action codes must be DELETE

Figure 12-1. Table of allowable trigger event types and action codes

12.2.5.2 Rule 2

When using the segment action codes **LINK** and **UNLINK**, only those fields which are used to define a unique instance of the object are used. This action cannot be used to send changes and updates to the other fields of that segment.

12.2.5.3 Rule 3

In dependent segments **ADD** is the action code to use to establish the initial relationship between parent-child objects. The receiving system must be ready to handle multiple adds of the same object. An example is a Problem List of three (3) problems which is being sent. Attached to these problems are three (3) goals. Problem A has Goals 1 and 2 attached to it. Problem B has the same Goal 2 and a new Goal 3 attached to it. All of these will have the **ADD** action code in the segment, and when Problem B is transmitted with Goals 2 and 3, Goal 2 will have been previously transmitted with Problem A. The message construct would look like this:

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```
MSH...

PID...

PRB (Problem A)

GOL (Goal 1)

GOL (Goal 2)

PRB (Problem B)

GOL (Goal 2)

GOL (Goal 3)

PRB (Problem C) (No attached goals)
```

When two (or more) instances of the same problem or goal segment are present in a message both such segments must have identical values for all fields.

12.2.5.4 Rule 4

Remember that HL7 only provides for error messages at the message level. Thus, if the receiving system cannot process one segment, the entire message is going to be treated as an error (See Chapter 2).

12.2.5.5 Rule 5

The Problem, Goal, and Pathway messages integrate order segments as a method for establishing causal linkages. Linkages or relationships between orders, problems, goals, and pathways can therefore be presented in the Patient Care messages.

Orders referenced in Patient Care messages are used for linkage purposes only. Initiation and status changes to orders are accomplished by using dedicated messages defined in the Order Entry Chapter.

12.2.5.6 Rule 6

Order segments are sent with Problem and Goal segments in order to establish a linkage between them, NOT to communicate new orders or changes to those orders. For purposes of these messages, an LI (Link) and a UL (Unlink) code have been added to *HL7 Table 0119 - Order Control Codes*.

12.2.6 Acknowledgment Choreography

As of Version 2.9 Infrastructure and Messaging requires that Acknowledgment Choreography be explicitly specified in MSH-15 and MSH-16. Because of the nature of the Query and Response Messaging pattern, the Response message is always an Application Acknowledgment. To specify this, the value in MSH-16 SHALL always be "AL" for those messages that are Queries, to indicate that there will always be an Application Acknowledgment to the Query Message. See Chapter 2 for more details on this subject.

12.3 MESSAGE DEFINITIONS

Applications can have differing orientations for representing problem and goal hierarchies. For example, parent/child relationships may map problem(s) to goal(s), or goal(s) to problem(s). To accommodate these different orientations, the Problem message allows representation of goals that are functionally dependent upon a problem, and the Goal message allows representation of problems that are functionally dependent on a goal.

Due to the multiple occurrences of common segments such as Variance (VAR) and Notes (NTE), we have chosen to expand the segment definitions on the message diagrams to explicitly identify the hierarchical relationships. Examples of this would be "Variance (Goal)" and "Variance (Participation)." This does not imply unique segments, but indicates in the first case that the variance is related to its parent Goal, and in the second case that the variance is related to its parent Role.

The notation used to describe the sequence, the optionality, and the repetition of segments is described in Chapter 2, under "Format for defining abstract message."

Note: For all message definitions, the "OBR etc." notation represents all possible combinations of pharmacy and other order detail segments, as outlined in Chapter 4 conventions (See section 4.2.2.4, "Order detail segment").

12.3.1 PGL/ACK - Patient Goal Message (Events PC6, PC7, PC8)

This message is used to send goals from one application to another (e.g., a point of care system to a clinical repository). Many of the segments associated with this event are optional. This optionality allows systems in need of this information to set up transactions that fulfill their requirements.

PGL^PC6-PC8^PGL PC6: Patient Goal Message

<u>Segments</u>	Description	<u>Status</u>	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
PID	Patient Identification		3
[{ GSP }]	Person Gender and Sex		<u>3</u>
[{ GSR }]	Recorded Gender and Sex		<u>3</u>
[{ GSC }]	Sex for Clinical Use		<u>3</u>
{	PROVIDER begin		
PRD	Provider Data		11
[{CTD}]	Contact Data		11
}	PROVIDER end		
[PATIENT_VISIT begin		
PV1	Patient Visit		3
[PV2]	Patient Visit - Additional Info		3
]	PATIENT_VISIT end		
{	GOAL begin		
GOL	Detail Goal		12
[{NTE}]	Notes & Comments & Comments (Goal Comments)		2
[{VAR}]	Variance (Goal)		12
]	GOAL_PARTICIPATION begin		-
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Goal)		7
[{VAR}]	Variance (Participation)		12
}]	GOAL_PARTICIPATION end		
[{	PATHWAY begin		
PTH	Detail Pathway		12
[{VAR}]	Variance (Pathway)	-	12
}]	PATHWAY end		-
[{	OBSERVATION begin		-
OBX	Observation/Result		7

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Segments	Description	<u>Status</u>	Chapter
[{PRT}]	Participation		
[{NTE}]	Notes & Comments (Observation/Result Comments)		2
}]	OBSERVATION end		
[{	PROBLEM begin		
PRB	Detail Problem		12
[{NTE}]	Notes & Comments (Problem Comments)		2
[{VAR}]	Variance (Problem)		12
[{	PROBLEM_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Problem)		7
[{VAR}]	Variance (Participation)		12
}]	PROBLEM_PARTICIPATION end		
[{	PROBLEM_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		-
[{NTE}]	Notes & Comments (Observation/Result Comments)		
}]	PROBLEM_OBSERVATION end		-
}]	PROBLEM end		
[{	ORDER begin		•
ORC	Common Order		4
[ORDER_DETAIL begin		•
<	CHOICE begin		-
OBR	Order Detail Segment		4
			-
Hxx	etc.		•
>	CHOICE end		
[{NTE}]	Notes (Order Detail Comments)		2
[{VAR}]	Variance (Order)		12
[{	ORDER_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments (Observation Comments)		2
[{VAR}]	Variance (Observation/Result)		12
}]	ORDER_OBSERVATION end		
]	ORDER_DETAIL end		
}]	ORDER end		
}	GOAL end		•

Acknowledgement Choreography					
PGL^PC6-PC8^PGL_PC6					
Field name	Field name Field Value: Original mode Field value: Enhanced mode				
MSH-15	Blank	NE	AL, SU, ER	NE	AL, SU, ER
MSH-16	Blank	NE	NE	AL, SU, ER	AL, SU, ER
Immediate Ack	-	-	ACK^PC6-PC8^ACK	-	ACK^PC6-PC8^ACK
Application Ack	ACK^PC6-PC8^ACK	-	-	ACK^PC6- PC8^ACK	ACK^PC6-PC8^ACK

ACK^PC6-PC8^ACK: General Acknowledgment

<u>Segments</u>	<u>Description</u>	<u>Status</u>	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
MSA	Message Acknowledgment		2
[{ ERR }]	Error		2

Acknowledgement Choreography					
	ACK^PC6-PC8^ACK				
Field name Field Value: Original mode Field value: Enhanced mode			lue: Enhanced mode		
MSH-15	Blank	NE	AL, SU, ER		
MSH-16	Blank	NE	NE		
Immediate Ack	-	-	ACK^PC6-PC8^ACK		
Application Ack	-	-	-		

This error segment indicates the fields that caused a transaction to be rejected.

12.3.2 PPR/ACK - Patient Problem Message (Events PC1, PC2, PC3)

The patient problem message is used to send problems from one application to another (e.g., a point of care system to a clinical repository). Many of the segments associated with this event are optional. This optionality allows systems in need of this information to set up transactions that fulfill their requirements.

PPR^PC1-PC3^PPR_PC1: Patient Problem Message

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
PID	Patient Identification		3
[{ GSP }]	Person Gender and Sex		<u>3</u>

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<u>Segments</u>	Description	<u>Status</u>	Chapter
[{ GSR }]	Recorded Gender and Sex		<u>3</u>
[{ GSC }]	Sex for Clinical Use		<u>3</u>
{	PROVIDER begin		
PRD	Provider Data		11
[{CTD}]	Contact Data		11
}	PROVIDER end		
[PATIENT_VISIT begin		
PV1	Patient Visit		3
[PV2]	Patient Visit		3
]	PATIENT_VISIT end		
{	PROBLEM begin		
PRB	Detail Problem		12
[{NTE}]	Notes & Comments (Problem Comments)		2
[{VAR}]	Variance (Problem)		12
[{	PROBLEM_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Problem)		7
[{VAR}]	Variance (Participation)	······	12
}]	PROBLEM_PARTICIPATION end		
[{	PATHWAY begin		
PTH	Detail Pathway		12
[{VAR}]	Variance (Pathway)		12
}]	PATHWAY end		
[{	PROBLEM_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments (Observation/Result Comments)		2
}]	PROBLEM_OBSERVATION end		
[{	GOAL begin		
GOL	Detail Goal		12
[{NTE}]	Notes & Comments (Goal Comments)		2
[{VAR}]	Variance (Goal)	-	12
[{	GOAL_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Goal)	-	7
[{VAR}]	Variance (Participation)		12
}]	GOAL_PARTICIPATION end		
[{	GOAL OBSERVATION begin		

Segments	Description	<u>Status</u>	Chapte
OBX	Observation/Result		7
[{PRT}]	Participation		-
[{NTE}]	Notes & Comments (Observation/Result Comments)		2
}]	GOAL_OBSERVATION end		
}]	GOAL end		
[{	ORDER begin		
ORC	Common Order		4
[ORDER_DETAIL begin		-
<	CHOICE begin		
OBR	Order Detail Segment		4
l			
Hxx	etc.		-
>	CHOICE end		
[{NTE}]	Notes & Comments (Order Detail Comments)		2
[{VAR}]	Variance (Order)		12
[{	ORDER_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments (Observation Comments)		2
[{VAR}]	Variance (Observation/Result)		12
}]	ORDER_OBSERVATION end		
]	ORDER_DETAIL end		
}]	ORDER end		
}	PROBLEM end		

	Acknowledgement Choreography						
	PPR^PC1-PC3^PPR_PC1						
Field name Field Value: Original mode Field value: Enhanced mode							
MSH-15	Blank	NE	AL, SU, ER	NE	AL, SU, ER		
MSH-16	Blank	NE	NE	AL, SU, ER	AL, SU, ER		
Immediate Ack	-	-	ACK^PC1-PC3^ACK	-	ACK^PC1-PC3^ACK		
Application Ack	ACK^PC1-PC3^ACK	-	-	ACK^PC1- PC3^ACK	ACK^PC1-PC3^ACK		

ACK^PC1-PC3^ACK: General Acknowledgment

Segments	Description	Status	Chapter
MSH	Message Header		2

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Segments	Description	Status	Chapter
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
MSA	Message Acknowledgment		2
[{ ERR }]	Error		2

Acknowledgement Choreography					
	ACK^PC1-PC3^ACK				
Field name	Field Value: Original mode	Field va	lue: Enhanced mode		
MSH-15	Blank	NE	AL, SU, ER		
MSH-16	Blank	NE	NE		
Immediate Ack	-	-	ACK^PC1-PC3^ACK		
Application Ack	-	-	-		

This error segment indicates the fields that caused a transaction to be rejected.

12.3.3 PPP/ACK - Patient Pathway Message (Problem-Oriented) (Events PCB, PCC, PCD)

PPP^PCB-PCD^PPP PCB: Patient Pathway Problem-Oriented Message

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
PID	Patient Identification		3
[{ GSP }]	Person Gender and Sex		<u>3</u>
[{ GSR }]	Recorded Gender and Sex		<u>3</u>
[{ GSC }]	Sex for Clinical Use		<u>3</u>
{	PROVIDER begin		
PRD	Provider Data		11
[{CTD}]	Contact Data		11
}	PROVIDER end		
[PATIENT_VISIT begin		
PV1	Patient Visit		3
[PV2]	Patient Visit		3
]	PATIENT_VISIT end		
{	PATHWAY begin		-
PTH	Pathway Detail		12
[{NTE}]	Notes & Comments(Pathway Comments)		2
[{VAR}]	Variance (Pathway)		12
[{	PATHWAY_PARTICIPATION begin		

<u>egments</u>	Description	Status	Chapte
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Pathway)		7
[{VAR}]	Variance (Participation)		12
}]	PATHWAY_PARTICIPATION end		
[{	PROBLEM begin		
PRB	Detail Problem		12
[{NTE}]	Notes & Comments(Problem Comments)		2
[{VAR}]	Variance (Problem)		12
[{	PROBLEM_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Problem)		7
[{VAR}]	Variance (Participation)	_	12
}]	PROBLEM_PARTICIPATION end		
[{	PROBLEM_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation	······	
[{NTE}]	Notes & Comments(Observation/Result Comments)		2
}]	PROBLEM_OBSERVATION end		
[{	GOAL begin		
GOL	Detail Goal		12
[{NTE}]	Notes & Comments(Goal Comments)		2
[{VAR}]	Variance (Goal)		12
[{	GOAL_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Goal)		7
[{VAR}]	Variance (Participation)		12
}]	GOAL_PARTICIPATION end		
[{	GOAL_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments (Observation/Result Comments)		2
}]	GOAL_OBSERVATION end		
}]	GOAL end		
[{	ORDER begin		
ORC	Common Order	······	4
[ORDER_DETAIL begin		
<	CHOICE begin		

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Segments	Description	Status	Chapter
OBR	Order Detail Segment		4
Hxx	etc.		
>	CHOICE end		
[{NTE}]	Notes & Comments(Order Detail Comments)		2
[{VAR}]	Variance (Order)		12
[{	ORDER_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments(Observation Comments)		2
[{VAR}]	Variance (Observation/Result)		12
}]	ORDER_OBSERVATION end		
]	ORDER_DETAIL end		-
}]	ORDER end		
}]	PROBLEM end		-
}	PATHWAY end		

	Acknowledgement Choreography						
	PPP^PCB-PCD^PPP_PCB						
Field name	Field name Field Value: Original mode Field value: Enhanced mode						
MSH-15	Blank	NE	AL, SU, ER	NE	AL, SU, ER		
MSH-16	Blank	NE	NE	AL, SU, ER	AL, SU, ER		
Immediate Ack	-	-	ACK^PCB- PCD^ACK	-	ACK^PCB-PCD^ACK		
Application Ack	ACK^PCB-PCD^ACK	-	-	ACK^PCB- PCD^ACK	ACK^PCB-PCD^ACK		

ACK^PCB-PCD^ACK: General Acknowledgment

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ SFT }]	Software	-	2
[UAC]	User Authentication Credential	-	2
MSA	Message Acknowledgment	-	2
[{ ERR }]	Error		2

Acknowledgement Choreography					
	ACK^PCB-PCD^ACK				
Field name	Field Value: Original mode	Field va	lue: Enhanced mode		
MSH-15	Blank	NE	AL, SU, ER		
MSH-16	Blank	NE	NE		
Immediate Ack	-	-	ACK^PCB-PCD^ACK		
Application Ack	-	-	-		

12.3.4 PPG/ACK - Patient Pathway Message (Goal-Oriented) (Events PCG, PCH, PCJ)

PPG^PCG,PCH,PCJ^PPG_PCG: Patient Pathway Goal-Oriented Message

<u>Segments</u>	Description	<u>Status</u>	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
PID	Patient Identification		3
[{ GSP }]	Person Gender and Sex		<u>3</u>
[{ GSR }]	Recorded Gender and Sex		<u>3</u>
[{ GSC }]	Sex for Clinical Use		<u>3</u>
{	PROVIDER begin		
PRD	Provider Data		11
[{CTD}]	Contact Data		11
}	PROVIDER end		
[PATIENT_VISIT begin		
PV1	Patient Visit		3
[PV2]	Patient Visit		3
]	PATIENT_VISIT end		
{	PATHWAY begin		•
PTH	Pathway Detail		12
[{NTE}]	Notes & Comments(Pathway Comments)		2
[{VAR}]	Variance (Pathway)		12
[{	PATHWAY_PARTICIPATION begin		•
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Pathway)		7
[{VAR}]	Variance (Participation)		12
}]	PATHWAY_PARTICIPATION end		
[{	GOAL begin	-	
GOL	Detail Goal		12

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ments	<u>Description</u>	Status	Chapte:
[{NTE}]	Notes & Comments(Goal Comments)		2
[{VAR}]	Variance (Goal)		12
[{	GOAL_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Goal)		7
[{VAR}]	Variance (Participation)		12
}]	GOAL_PARTICIPATION end		
[{	GOAL_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments(Observation/Result Comments)		2
}]	GOAL_OBSERVATION end		
[{	PROBLEM begin		
PRB	Detail Problem		12
[{NTE}]	Notes & Comments (Problem Comments)		2
[{VAR}]	Variance (Problem)		12
[{	PROBLEM_PARTICIPATION begin		
ROL	For backwards compatibility only as of V2.9	В	15
PRT	Participation (Problem)		7
[{VAR}]	Variance (Participation)		12
}]	PROBLEM_PARTICIPATION end		
[{	PROBLEM_OBSERVATION begin		
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments(Observation/Result Comments)		2
}]	PROBLEM_OBSERVATION end		
}]	PROBLEM end	-	
[{	ORDER begin		
ORC	Common Order		4
[ORDER_DETAIL begin		
<	CHOICE begin		
OBR	Order Detail Segment		4
Hxx	etc.		
>	CHOICE end		•••••
[{NTE}]	Notes & Comments (Order Detail Comments)		2
[{VAR}]	Variance (Order)		12
[{	ORDER OBSERVATION begin		

Segments	Description	Status	Chapter
OBX	Observation/Result		7
[{PRT}]	Participation		
[{NTE}]	Notes & Comments(Observation Comments)		2
[{VAR}]	Variance (Observation/Result)		12
}]	ORDER_OBSERVATION end		
]	ORDER_DETAIL end		
}]	ORDER end		
}]	GOAL end		
}	PATHWAY end		

	Acknowledgement Choreography										
PPG^PCG,PCH,PCJ^PPG_PCG											
Field name	Field Value: Original mode Field value: Enhanced mode										
MSH-15	Blank	NE	AL, SU, ER	NE	AL, SU, ER						
MSH-16	Blank	NE	NE	AL, SU, ER	AL, SU, ER						
Immediate Ack	-	-	ACK^PCG,PCH,PCJ ^ACK	-	ACK^PCG,PCH,PCJ^A CK						
Application Ack											

ACK^PCG,PCH,PCJ^ACK: General Acknowledgment

<u>Segments</u>	<u>Description</u>	<u>Status</u>	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[UAC]	User Authentication Credential		2
MSA	Message Acknowledgment		2
[{ ERR }]	Error		2

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	Acknowledgement Choreography									
ACK^PCG,PCH,PCJ^ACK										
Field name	Field Value: Original mode	Field value: Enhanced mode								
MSH-15	Blank	NE	AL, SU, ER							
MSH-16	Blank	NE	NE							
Immediate Ack	-	-	ACK^PCG,PCH,PCJ^ACK							
Application Ack	-	-	-							

12.3.5 QRY - Patient Care Problem Query (Event PC4)

Retained for backwards compatibility only as of version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.6 PRR - Patient Problem Response (Event PC5)

Retained for backwards compatibility only as of version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.7 QRY - Patient Goal Query (Event PC9)

Retained for backwards compatibility only as of version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.8 PPV - Patient Goal Response (Event PCA)

Retained for backwards compatibility only in version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.9 QRY - Patient Pathway (Problem-Oriented) Query (Event PCE)

Retained for backwards compatibility only in version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.10 PTR - Patient Pathway (Problem-Oriented) Response (Event PCF)

Retained for backwards compatibility only in version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.11 QRY - Patient Pathway (Goal-Oriented) Query (Event PCK)

Retained for backwards compatibility only in version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.3.12 PPT - Patient Pathway (Goal-Oriented) Response (Event PCL)

Retained for backwards compatibility only in version 2.4 and removed from the standard as of v2.8; refer to Chapter 5, section 5.4. The original mode query and the QRD/QRF segments have been replaced.

12.4 MESSAGE SEGMENTS

12.4.1 GOL - Goal Detail Segment

The goal detail segment contains the data necessary to add, update, correct, and delete the goals for an individual.

				111	77 7 111110	ate Table	GOL	Goal Detail
SEQ	LEN	C.LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	22		ID	R		0287	00816 0	Action Code
							<u>2534</u>	
2			DTM	R			00817	Action Date/Time
3			CWE	R			00818	Goal ID
4			El	R			00819	Goal Instance ID
5			EI	0			00820	Episode of Care ID
6		3=	NM	0			00821	Goal List Priority
7			DTM	0			00822	Goal Established Date/Time
8			DTM	0			00824	Expected Goal Achieve Date/Time
9			CWE	0			00825	Goal Classification
10			CWE	0			00826	Goal Management Discipline
11			CWE	0			00827	Current Goal Review Status
12			DTM	0			00828	Current Goal Review Date/Time
13			DTM	0			00829	Next Goal Review Date/Time
14			DTM	0			00830	Previous Goal Review Date/Time
15				W			00831	Goal Review Interval
16			CWE	0			00832	Goal Evaluation
17		300=	ST	0	Υ		00833	Goal Evaluation Comment
18			CWE	0			00834	Goal Life Cycle Status
19			DTM	0			00835	Goal Life Cycle Status Date/Time
20			CWE	0	Υ		00836	Goal Target Type
21			XPN	0	Υ		00837	Goal Target Name
22			CNE	С		0725	02182	Mood Code

HL7 Attribute Table - GOL - Goal Detail

The business and/or application must assume responsibility for maintaining knowledge about data ownership, versioning, and/or audit trail control (for purposes of data integrity). It is also their responsibility to represent the appropriate version of that data.

12.4.1.1 GOL-1 Action Code (ID) 0081602534

Definition: The action code field gives the intent of the problem or goal. Refer to *HL7 Table 0287 – Problem/Goal Action Code* in Chapter 2C, Code Tables, for valid values.

12.4.1.2 GOL-2 Action Date/Time (DTM) 00817

Definition: This field contains the date/time that the operation represented by the action code was performed.

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12.4.1.3 GOL-3 Goal ID (CWE) 00818

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field identifies the goal. This is the identifier from an institution's master list of goals.

12.4.1.4 GOL-4 Goal Instance ID (EI) 00819

```
Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>
```

Definition: This field contains the unique identifier assigned by an initiating system to this instance of the goal.

Note: It is required that the value in this field be unique over time. This instance ID identifies a specific instance for a specific patient and is unique across all patients. See entity ID data type description in Chapter 2.

12.4.1.5 GOL-5 Episode of Care ID (EI) 00820

Definition: This field uniquely identifies the episode of care to which this goal applies. See note under "Ongoing issues."

Note: Based on application use, this field is required to be unique over time.

12.4.1.6 GOL-6 Goal List Priority (NM) 00821

Definition: This field prioritizes this goal on a list that is maintained for an individual.

12.4.1.7 GOL-7 Goal Established Date/Time (DTM) 00822

Definition: This field identifies the date/time when the stated goal was initially created.

12.4.1.8 GOL-8 Expected Goal Achieve Date/Time (DTM) 00824

Definition: This field contains the projected date/time for achieving the stated goal.

12.4.1.9 GOL-9 Goal Classification (CWE) 00825

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Se

Definition: This field indicates the kind of goal. This field can be used to categorize goals so that they may be managed and viewed independently within different applications (e.g., admission, final, post-operative, pre-operative, outpatient, discharge, etc.).

Note: This field can be used to differentiate separate goal lists that may be managed independently within applications.

12.4.1.10 GOL-10 Goal Management Discipline (CWE) 00826

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM) ^ <Second

Definition: This field indicates the category of caregiver with responsibility for managing this specific goal (e.g., care team, nursing, medicine, respiratory therapy, occupational therapy, dietary etc.). This is a repeating field to allow identification of all disciplines that may have the responsibility for this goal.

12.4.1.11 GOL-11 Current Goal Review Status (CWE) 00827

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the current point in the continuum of a goal review cycle (e.g., due, initiated, reviewed, overdue, verified, etc.).

12.4.1.12 GOL-12 Current Goal Review Date/Time (DTM) 00828

Definition: This field contains the date/time of the current review of the goal.

12.4.1.13 GOL-13 Next Goal Review Date/Time (DTM) 00829

Definition: This field contains the date/time of the next scheduled goal review.

12.4.1.14 GOL-14 Previous Goal Review Date/Time (DTM) 00830

Definition: This field contains the date/time that the goal was reviewed prior to the current review.

12.4.1.15 GOL-15 Goal Review Interval 00831

As of Version 2.5, this field was retained for backward compatibility only and withdrawn and removed as of v2.7. Refer to the TQ1 segment described in Chapter 4.

12.4.1.16 GOL-16 Goal Evaluation (CWE) 00832

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Second Second

Definition: This field provides an indicator of progress towards achievement of the goal (e.g., achieved, ahead of schedule, delayed, failed to achieve, etc.).

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12.4.1.17 GOL-17 Goal Evaluation Comment (ST) 00833

Definition: This field contains the comments associated with the goal evaluation. Examples of comments that might be entered in this field include: a reason for delay in achieving goal, or a clinical footnote about progress made towards the goal, etc.

12.4.1.18 GOL-18 Goal Life Cycle Status (CWE) 00834

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains an indication of the state of the goal (e.g., Active, Canceled, Inactive, Suspended, etc.).

12.4.1.19 GOL-19 Goal Life Cycle Status Date/Time (DTM) 00835

Definition: This field contains the effective date/time of the current goal life cycle status.

12.4.1.20 GOL-20 Goal Target Type (CWE) 00836

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the individual/group for whom the goal has been established (e.g., family group, family member, patient, etc.).

Note: This field is focused on a specific person/group that is directly patient-related.

12.4.1.21 GOL-21 Goal Target Name (XPN) 00837

Components: <Family Name (FN)> ^ <Given Name (ST)> ^ <Second and Further Given Names or Initials Thereof (ST)> ^ <Suffix (e.g., JR or III) (ST)> ^ <Prefix (e.g., DR) (ST)> ^ <WITHDRAWN Constituent> ^ <Name Type Code (ID)> ^ <Name Representation Code (ID)> ^ <Name Context (CWE)> ^ <WITHDRAWN Constituent> ^ <Name Assembly Order (ID)> ^ <Effective Date (DTM)> ^ <Expiration Date (DTM)> ^ <Professional Suffix (ST)> ^ <Called By (ST)>

Subcomponents for Name Context (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the identification of the person(s) on whom the goal is focused. This is a repeating field which allows for the identification of a group of individuals.

12.4.1.22 GOL-22 Mood Code (CNE) 02182

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field indicates the Mood of the Goal. It allows expression of the context of the problem.

Note: As Mood Code changes the meaning of the segment it must only be used in new messages as of v2.6.

Refer to *HL7 Table 0725 – Mood Codes* in Chapter 2C, Code Tables, for allowed values.

12.4.2 PRB - Problem Detail Segment

NOTE: This segment will be taken over by the Orders and Observations Work Group.

The problem detail segment contains the data necessary to add, update, correct, and delete the problems of a given individual.

SEQ	LEN	C.LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	22		ID	R		0287	00816 <u>0</u>	Action Code
							<u>2534</u>	
2			DTM	R	•		00817	Action Date/Time
3			CWE	R			00838	Problem ID
4			El	R	•		00839	Problem Instance ID
5			El	0	•		00820	Episode of Care ID
6			NM	0	-		00841	Problem List Priority
7			DTM	0	•		00842	Problem Established Date/Time
8			DTM	0			00843	Anticipated Problem Resolution Date/Time
9			DTM	0	_		00844	Actual Problem Resolution Date/Time
10			CWE	0			00845	Problem Classification
11			CWE	0	Υ		00846	Problem Management Discipline
12			CWE	0	_		00847	Problem Persistence
13			CWE	0			00848	Problem Confirmation Status
14			CWE	0			00849	Problem Life Cycle Status
15			DTM	0			00850	Problem Life Cycle Status Date/Time
16			DTM	0			00851	Problem Date of Onset
17		80=	ST	0			00852	Problem Onset Text
18			CWE	0			00853	Problem Ranking
19			CWE	0			00854	Certainty of Problem

HL7 Attribute Table - PRB - Problem Details

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SEQ	LEN	C.LEN	DT	ОРТ	RP/#	TBL#	ITEM#	ELEMENT NAME
20		4#	NM	0			00855	Probability of Problem (0-1)
21			CWE	0			00856	Individual Awareness of Problem
22			CWE	0		•	00857	Problem Prognosis
23			CWE	0			00858	Individual Awareness of Prognosis
24		200=	ST	0			00859	Family/Significant Other Awareness of Problem/Prognosis
25			CWE	0		•	00823	Security/Sensitivity
26			CWE	0	-	0836	02234	Problem Severity
27			CWE	0		0838	02235	Problem Perspective
28			CNE	С		0725	02237	Mood Code

The business and/or application must assume the responsibility for maintaining knowledge about data ownership, versioning, and/or audit trail control (for purposes of data integrity). It is also their responsibility to represent the appropriate version of that data.

12.4.2.1 PRB-1 Action Code (ID) 0081602534

Definition: This field contains the intent of the message. Refer to *HL7 Table 0287 – Problem/Goal Action Code* in Chapter 2C, Code Tables, for valid values.

12.4.2.2 PRB-2 Action Date/Time (DTM) 00817

Definition: This field contains the date/time that the operation represented by the action code was performed.

12.4.2.3 PRB-3 Problem ID (CWE) 00838

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM) ^ <Second Alternate Value Se

Definition: This field identifies the problem. This is the identifier from an institution's master list of problems.

12.4.2.4 PRB-4 Problem Instance ID (EI) 00839

Definition: This field contains the identifier assigned by an initiating system to an instance of a problem.

Note: It is required that this value remain unique over time. This instance ID identifies a specific instance for a specific patient and is unique across all patients. See entity ID data type description in Chapter 2.

12.4.2.5 PRB-5 Episode of Care ID (EI) 00820

Definition: This field uniquely identifies the episode of care to which this problem applies. (See note under "Ongoing issues.")

 $Note: \ \mbox{It}$ is required that this field be unique over time.

PRB-6 Problem List Priority (NM) 00841 12.4.2.6

Definition: This field prioritizes this problem on a list that is maintained for the individual.

PRB-7 Problem Established Date/Time (DTM) 00842 12.4.2.7

Definition: This field contains the date/time when the corresponding problem was initially identified by the caregiver.

12.4.2.8 PRB-8 Anticipated Problem Resolution Date/Time (DTM) 00843

Definition: This field contains the estimated date/time for resolving the stated problem.

12.4.2.9 PRB-9 Actual Problem Resolution Date/Time (DTM) 00844

Definition: This field contains the date/time that the problem was actually resolved.

12.4.2.10 PRB-10 Problem Classification (CWE) 00845

```
Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^
          <Alternate Identifier (ST)> ^{<} <Alternate Text (ST)> ^{<} <Name of Alternate</pre>
          Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding
          System Version ID (ST)> ^ <Original Text (ST)> ^ <Second Alternate
          Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second
          Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID
          (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set
          Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value
          Coding System OID (ST) > ^ < Second Alternate Value Set OID (ST) > ^ < Second
          Alternate Value Set Version ID (DTM)>
```

Definition: This field indicates the kind of problem. This field can be used to categorize problems so that they may be managed and viewed independently within different applications (e.g., admission, final, postoperative, pre-operative, outpatient, discharge, etc.).

12.4.2.11 PRB-11 Problem Management Discipline (CWE) 00846

```
Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^
           <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate
Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding</pre>
           System Version ID (ST)> ^ <Original Text (ST)> ^ <Second Alternate
           Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second
           Alternate Coding System (ID)> ^ < Second Alternate Coding System Version ID
           (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set
           Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value
           Set OID (ST) > ^ <Alternate Value Set Version ID (DTM) > ^ <Second Alternate
           Alternate Value Set Version ID (DTM)>
```

Definition: This field indicates the category of caregiver with responsibility for managing this specific problem (e.g., care team, nursing, medicine, respiratory therapy, occupational therapy, dietary, etc.). This is a repeating field to allow identification of all disciplines that may have the responsibility for this problem.

12.4.2.12 PRB-12 Problem Persistence (CWE) 00847

```
<Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate</pre>
          Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding
          System Version ID (ST)> ^ <Original Text (ST)> ^ <Second Alternate
          Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second
          Alternate Coding System (ID)> ^ < Second Alternate Coding System Version ID
          (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set
          Version ID (DTM)> ^ <alternate Coding System OID (ST)> ^ <alternate Value
          Set OID (ST)> ^{\wedge} <Alternate Value Set Version ID (DTM)> ^{\wedge} <Second Alternate
          Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second
          Alternate Value Set Version ID (DTM)>
```

Definition: This field contains the perseverance of a problem (e.g., acute, chronic, etc.).

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12.4.2.13 PRB-13 Problem Confirmation Status (CWE) 00848

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the verification status of a problem (e.g., confirmed, differential, provisional, rule-out, etc.).

12.4.2.14 PRB-14 Problem Life Cycle Status (CWE) 00849

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the current status of the problem at this particular date/time (e.g., active, active-improving, active-stable, active-worsening, inactive, resolved, etc.).

12.4.2.15 PRB-15 Problem Life Cycle Status Date/Time (DTM) 00850

Definition: This field indicates the effective date/time of the current problem life cycle status.

12.4.2.16 PRB-16 Problem Date of Onset (DTM) 00851

Definition: This field contains the date/time when the problem began.

12.4.2.17 PRB-17 Problem Onset Text (ST) 00852

Definition: This field allows for a textual representation of the time when the problem began.

12.4.2.18 PRB-18 Problem Ranking (CWE) 00853

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains a user-defined prioritization of a problem (e.g., numeric ranking, or the use of words such as "primary," "secondary," etc.).

12.4.2.19 PRB-19 Certainty of Problem (CWE) 00854

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set Version ID (ST)> ^ <Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains a qualitative representation of the certainty of a problem (e.g., HI - high, LO - low, ME - medium, etc.).

12.4.2.20 PRB-20 Probability of Problem (0-1) (NM) 00855

Definition: This field contains a quantitative or numeric representation of the certainty that the problem exists for this patient. This field has a valid range of 0 to 1. For example, a healthcare provider may be 75% (.75) sure that the problem has been correctly identified.

Note: We have provided for two different representations of the certainty of the problem due to varying representations in applications.

12.4.2.21 PRB-21 Individual Awareness of Problem (CWE) 00856

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the individual's comprehension of the problem (e.g., full, marginal, partial, etc.).

12.4.2.22 PRB-22 Problem Prognosis (CWE) 00857

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Se

Definition: This field contains the prognosis for the individual's problem (e.g., good, poor, etc.).

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12.4.2.23 PRB-23 Individual Awareness of Prognosis (CWE) 00858

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the individual's comprehension of the prognosis for the problem (e.g., full, marginal, partial, etc.).

12.4.2.24 PRB-24 Family/Significant Other Awareness of Problem/Prognosis (ST) 00859

Definition: This field indicates the individual's family or significant other's comprehension of the actual problem/prognosis.

12.4.2.25 PRB-25 Security/Sensitivity (CWE) 00823

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains information about the level of security and/or sensitivity surrounding the problem (e.g., highly sensitive, not sensitive, sensitive, etc.).

12.4.2.26 PRB-26 Problem Severity (CWE) 02234

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field indicates the severity of the Problem. Refer to *User-defined Table 0836- Problem Severity* in Chapter 2C, Code Tables, for suggested values.

12.4.2.27 PRB-27 Problem Perspective (CWE) 02235

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field indicates from whose perspective this problem was identified. Refer to *User-defined Table 0838 - Problem Perspective* in Chapter 2C, Code Tables, for suggested values.

12.4.2.28 PRB-28 Mood Code (CNE) 02237

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field indicates the Mood of the Problem. It allows expression of the context of the problem.

Note: As Mood Code changes the meaning of the segment it must only be used in new messages as of v2.6.

Refer to HL7 Table 0725 - Mood Codes in Chapter 2C, Code Tables, for allowed values.

12.4.3 PTH - Pathway Segment

The pathway segment contains the data necessary to add, update, correct, and delete from the record pathways that are utilized to address an individual's health care.

SEQ	LEN	C.LEN	DT	ОРТ	RP/#	TBL#	ITEM#	ELEMENT NAME
1	22		ID	R		0287	00816 0	Action Code
							<u>2534</u>	
2			CWE	R			01207	Pathway ID
3			El	R				Pathway Instance ID
4			DTM	R			01209	Pathway Established Date/Time
5			CWE	0			01210	Pathway Life Cycle Status
6			DTM	С				Change Pathway Life Cycle Status Date/Time
7			CNE	С		0725	02239	Mood Code

HL7 Attribute Table - PTH - Pathway

12.4.3.1 PTH-1 Action Code (ID) 0081602534

Definition: This field reveals the intent of the message. Refer to *HL7 Table 0287 – Problem/Goal Action Code* in Chapter 2C, Code Tables, for valid values.

12.4.3.2 PTH-2 Pathway ID (CWE) 01207

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the pathway master data identifier associated with the referenced problem or goal. Examples: open heart pathway, new diabetic, total hip replace.

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12.4.3.3 PTH-3 Pathway Instance ID (EI) 01208

Definition: This field contains a value generated by the originating application that represents an associated order placer group number, or other unique identifier assigned to the grouping of pathway directives.

Note: It is required that this value remain unique over time. This instance ID identifies a specific instance for a specific patient and is unique across all patients. See entity ID data type description in Chapter 2.

12.4.3.4 PTH-4 Pathway Established Date/Time (DTM) 01209

Definition: This field contains the identification of the event time for the current pathway record.

12.4.3.5 PTH-5 Pathway Life Cycle Status (CWE) 01210

```
Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System (ID)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>
```

Definition: This field contains an application-specific set of state identifiers (e.g., Active, Suspended, Complete, Canceled, Delayed, Scheduled).

12.4.3.6 PTH-6 Change Pathway Life Cycle Status Date/Time (DTM) 01211

Definition: This field contains the date/time when pathway has been modified or deactivated. (Marked as conditional – must be filled in if trigger event is update or terminate pathway.)

12.4.3.7 PTH-7 Mood Code (CNE) 02239

```
Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>
```

Definition: This field indicates the Mood of the Pathway. It allows expression of the context of the Pathway.

Note: As Mood Code changes the meaning of the segment it must only be used in new messages as of v2.6.

Refer to HL7 Table 0725 - Mood Codes in Chapter 2C, Code Tables, for allowed values.

12.4.4 VAR - Variance Segment

The variance segment contains the data necessary to describe differences that may have occurred at the time when a healthcare event was documented.

HL7 Attribute Table - VAR - Variance

SEQ	LEN	C.LEN	DT	ОРТ	RP/#	TBL#	ITEM#	ELEMENT NAME
1			EI	R			01212	Variance Instance ID

SEQ	LEN	C.LEN	DT	ОРТ	RP/#	TBL#	ITEM#	ELEMENT NAME
2			DTM	R			01213	Documented Date/Time
3			DTM	0			01214	Stated Variance Date/Time
4			XCN	0	Υ		01215	Variance Originator
5	•		CWE	0			01216	Variance Classification
6		512=	ST	0	Υ		01217	Variance Description

12.4.4.1 VAR-1 Variance Instance ID (EI) 01212

Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>

Definition: This field contains the unique identifier of the specific variance record.

12.4.4.2 VAR-2 Documented Date/Time (DTM) 01213

Definition: This field contains the time stamp that identifies the timed occurrence of the variance documentation.

12.4.4.3 VAR-3 Stated Variance Date/Time (DTM) 01214

Definition: This field contains the time stamp that identifies a stated time of the variance which may be different than the time it was documented.

12.4.4.4 VAR-4 Variance Originator (XCN) 01215

Components: <Person Identifier (ST)> ^ <Family Name (FN)> ^ <Given Name (ST)> ^ <Second and Further Given Names or Initials Thereof (ST)> ^ <Suffix (e.g., JR or III) (ST)> ^ <Prefix (e.g., DR) (ST)> ^ <WITHDRAWN Constituent> ^ <DEPRECATED-Source Table (CWE)> ^ <Assigning Authority (HD)> ^ <Name Type Code (ID)> ^ <Identifier Check Digit (ST)> ^ <Check Digit Scheme (ID)> ^ <Identifier Type Code (ID)> ^ <Assigning Facility (HD)> ^ <Name Representation Code (ID)> ^ <Name Context (CWE)> ^ <WITHDRAWN Constituent> ^ <Name Assembly Order (ID)> ^ <Effective Date (DTM)> ^ <Expiration Date (DTM)> ^ <Professional Suffix (ST)> ^ <Assigning Jurisdiction (CWE)> ^ <Assigning Agency or Department (CWE)> ^ <Security Check (ST)> ^ <Security Check Scheme (ID)>

Subcomponents for Family Name (FN): <Surname (ST)> & <Own Surname Prefix (ST)> & <Own Surname (ST)> & <Surname From Partner/Spouse (ST)> & <Surname from Partner/Spouse (ST)>

Subcomponents for Source Table (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set OID (DTM)>

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Subcomponents for Name Context (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Assigning Jurisdiction (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set Version ID (DTM)> & <Alternate Coding System OID (ST)> & <Alternate Value Set OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Assigning Agency or Department (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set Version ID (DTM)> & <Alternate Value Set Version ID (ST)> & <Alternate Value Set Version ID (ST)> & <Second Alternate Value Set OID (ST)> &

Definition: This field contains the originator (person or system) documenting the variance.

12.4.4.5 VAR-5 Variance Classification (CWE) 01216

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field identifies a categorical set of variances. Classification may be used by applications for presentation and processing functions.

12.4.4.6 VAR-6 Variance Description (ST) 01217

Definition: This field specifies the details of a variance. The content of the field is a string with optional formatting.

12.4.5 REL - Clinical Relationship Segment

The Clinical Relationship segment contains the data necessary to relate two data elements within and/or external to the message at run-time. It also includes information about the relationship.

Relationships are constrained to being between explicit segments of messages rather than beween the identities of entities they reference. Segments are available within the message but related persistent information may not be. Because of the transient nature of messages applications must manage the associations with entities which persist outside or across messages.

Examples:

Problem is a consequence of a diagnosis.

Diagnosis is supported by observation.

Observation is a manifestation of a diagnosis.

Complication is a consequence of a procedure.

HL7 Attribute Table - REL - Clinical Relationship Segment

SEQ	LEN	C.LEN	DT	ОРТ	RP/#	TBL#	ITEM#	ELEMENT NAME
1	14		SI	С			02240	Set ID -REL
2			CWE	R		0948	02241	Relationship Type
3			El	R			02242	This Relationship Instance Identifier
4			El	R			02243	Source Information Instance Identifier
5			El	R			02244	Target Information Instance Identifier
6			El	0			02245	Asserting Entity Instance ID
7			XCN	0			02246	Asserting Person
8			XON	0			02247	Asserting Organization
9			XAD	0		•	02248	Assertor Address
10			XTN	0			02249	Assertor Contact
11			DR	0			02250	Assertion Date Range
12	11		ID	0		0136	02251	Negation Indicator
13			CWE	0	•		02252	Certainty of Relationship
14		5=	NM	0			02253	Priority No
15	-	5=	NM	0			02254	Priority Sequence No (rel preference for consideration)
16	11		ID	0		0136	02255	Separability Indicator
17			ID	0		0203	02455	Source Information Instance Object Type
18			ID	0		0203	02456	Target Information Instance Object Type

12.4.5.1 REL-1 Set ID - REL (SI) 02240

Definition: This field contains the Set ID of the specific relationship Record.

12.4.5.2 REL-2 Relationship Type (CWE) 02241

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the type of the relationship. Refer to User-defined Table 0948 – Relationship Type, as defined in Chapter 2C, Code Tables for suggested values.

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12.4.5.3 REL-3 This Relationship Instance Identifier (EI) 02242

```
Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>
```

Definition: This field contains the instance identifier of this relationship.

12.4.5.4 REL-4 Source Information Instance Identifier (EI) 02243

```
Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>
```

Definition: This field contains the Instance ID of the Source Segment.

12.4.5.5 REL-5 Target Information Instance Identifier (EI) 02244

```
Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>
```

Definition: This field contains the Instance ID of the Target Segment.

12.4.5.6 REL-6 Asserting Entity Instance ID (EI) 02245

```
Components: <Entity Identifier (ST)> ^ <Namespace ID (IS)> ^ <Universal ID (ST)> ^ <Universal ID Type (ID)>
```

Definition: This field contains the Instance ID of the Person or Organization that asserted the relationship.

12.4.5.7 REL-7 Asserting Person (XCN) 02246

```
Components: <Person Identifier (ST)> ^ <Family Name (FN)> ^ <Given Name (ST)> ^ <Second and Further Given Names or Initials Thereof (ST)> ^ <Suffix (e.g., JR or III) (ST)> ^ <Prefix (e.g., DR) (ST)> ^ <WITHDRAWN Constituent> ^ <DEPRECATED-Source Table (CWE)> ^ <Assigning Authority (HD)> ^ <Name Type Code (ID)> ^ <Identifier Check Digit (ST)> ^ <Check Digit Scheme (ID)> ^ <Identifier Type Code (ID)> ^ <Assigning Facility (HD)> ^ <Name Representation Code (ID)> ^ <Name Context (CWE)> ^ <WITHDRAWN Constituent> ^ <Name Assembly Order (ID)> ^ <Effective Date (DTM)> ^ <Expiration Date (DTM)> ^ <Professional Suffix (ST)> ^ <Assigning Jurisdiction (CWE)> ^ <Assigning Agency or Department (CWE)> ^ <Security Check Scheme (ID)>
```

Subcomponents for Family Name (FN): <Surname (ST)> & <Own Surname Prefix (ST)> & <Own Surname (ST)> & <Surname from Partner/Spouse (ST)> & <Surname from Partner/Spouse (ST)>

Subcomponents for Source Table (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Coding System Version ID (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Assigning Authority (HD): <Namespace ID (IS)> & <Universal ID (ST)> & <Universal ID Type (ID)>

Subcomponents for Name Context (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Assigning Jurisdiction (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System (ID)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Value Set OID (ST)> & <Alternate Value Set OID (ST)> & <Second Alternate Value Set OID (DTM)>

Subcomponents for Assigning Agency or Department (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set Version ID (DTM)> & <Alternate Coding System OID (ST)> & <Alternate Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Second Alternate Value Set OID (ST)> & <Second Alter

Definition: This field contains the Identifier details of the Person who asserted the relationship.

12.4.5.8 REL-8 Asserting Organization (XON) 02247

Subcomponents for Organization Name Type Code (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the Identifier details of the Organization that asserted the relationship.

12.4.5.9 REL-9 Assertor Address (XAD) 02248

Components: <Street Address (SAD)> ^ <Other Designation (ST)> ^ <City (ST)> ^ <State or Province (ST)> ^ <Zip or Postal Code (ST)> ^ <Country (ID)> ^ <Address Type (ID)> ^ <Other Geographic Designation (ST)> ^ <Country/Parish Code (CWE)> ^ <Census Tract (CWE)> ^ <Address Representation Code (ID)> ^ <WITHDRAWN Constituent> ^ <Effective Date (DTM)> ^ <Expiration Date (DTM)> ^ <Expiration Reason (CWE)> ^ <Temporary Indicator (ID)> ^ <Bad Address Indicator (ID)> ^ <Address Usage (ID)> ^ <Addressee (ST)> ^ <Comment (ST)> ^ <Preference Order (NM)> ^ <Protection Code (CWE)> ^ <Address Identifier (EI)>

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Subcomponents for County/Parish Code (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second O

Subcomponents for Census Tract (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set Version ID (DTM)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Expiration Reason (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Alternate Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set OID (DTM)>

Subcomponents for Protection Code (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set Version ID (DTM)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set OID (ST)> & <Second Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Definition: This field contains the address of the Person or Organization that asserted the relationship.

12.4.5.10 REL-10 Assertor Contact (XTN) 02249

Components: <WITHDRAWN Constituent> ^ <Telecommunication Use Code (ID)> ^ <Telecommunication Equipment Type (ID)> ^ <Communication Address (ST)> ^ <Country Code (SNM)> ^ <Area/City Code (SNM)> ^ <Local Number (SNM)> ^ <Extension (SNM)> ^ <Any Text (ST)> ^ <Extension Prefix (ST)> ^ <Speed Dial Code (ST)> ^ <Unformatted Telephone number (ST)> ^ <Effective Start Date (DTM)> ^ <Expiration Date (DTM)> ^ <Protection Code (CWE)> ^ <Shared Telecommunication Identifier (EI)> ^ <Preference Order (NM)>

```
Subcomponents for Expiration Reason (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Second Alternate Coding System Version ID (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System (ID)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>
```

Subcomponents for Protection Code (CWE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)> & <Coding System Version ID (ST)> & <Alternate Coding System Version ID (ST)> & <Original Text (ST)> & <Second Alternate Identifier (ST)> & <Second Alternate Text (ST)> & <Name of Second Alternate Coding System (ID)> & <Second Alternate Coding System Version ID (ST)> & <Coding System OID (ST)> & <Value Set OID (ST)> & <Value Set OID (ST)> & <Alternate Coding System OID (ST)> & <Alternate Value Set Version ID (DTM)> & <Alternate Value Set Version ID (DTM)> & <Second Alternate Value Set Version ID (DTM)>

Subcomponents for Shared Telecommunication Identifier (EI): $\langle \text{Entity Identifier (ST)} \rangle$ & $\langle \text{Namespace ID (IS)} \rangle$ & $\langle \text{Universal ID (ST)} \rangle$ & $\langle \text{Universal ID Type (ID)} \rangle$

Definition: This field contains the address of the Person or Organization that asserted the relationship.

12.4.5.11 REL-11 Assertion Date Range (DR) 02250

```
Components: <Range Start Date/Time (DTM)> ^ <Range End Date/Time (DTM)>
```

Definition: This field contains the date range during which assertion of the relationship took place.

12.4.5.12 REL-12 Negation Indicator (ID) 02251

12.4.5.13 Definition: This field asserts the absence of the relationship for this particular REL segment. This field, if populated and set a value of 'Y', indicates that the given relationship does not exist.REL-13 Certainty of Relationship (CWE) 02252

```
Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)> ^ <Second Second Alternate Value Set Version ID (DTM)> ^ <Second Second Sec
```

Definition: This field contains the certainty of existence of the relationship.

NOTE that there are no suggested values for this coded element.

12.4.5.14 REL-14 Priority No (NM) 02253

Definition: This field contains the priority number as used, for example, in relative ordering, plans, and workflows.

12.4.5.15 REL-15 Priority Sequence No (NM) 02254

Definition: This field contains the priority sequence number as used, for example, in relative preference for consideration.

12.4.5.16 REL-16 Separability Indicator (ID) 02255

Definition: This field indicates whether source and target can be interpreted independently. Refer to *HL7 Table 0136 – Yes/no Indicator*, as defined in Chapter 2C, Code Tables.

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12.4.5.17 REL-17 Source Information Instance Object Type (ID) 02455

```
Components: Identifier (ID)
```

Definition: This field contains the identifier type code drawn from coding system HL70203 describing the object identified by the Source Information Instance Identifier (REL-4).

12.4.5.18 REL-18 Target Information Instance Object Type (ID) 02456

```
Components: Identifier (ID)
```

Definition: This field contains the identifier type code drawn from coding system HL70203 describing the object identified by the Target Information Instance Identifier (REL-5).

12.5 EXAMPLE TRANSACTIONS

The following is an example of a patient goal message.

```
MSH|^~\&|SENDAP|SENDFAC|RECAP|RECFAC|||PGL^PC4| <cr>
PID||0123456-1||EVERYMAN^ADAM^A|||||9821111|<cr>
PV1|1|I|2000^2012^01||||004777^ATTEND^AARON^A.|||SUR||||ADM|A0|<cr>
GOL|AD|199505011200|00312^Improve Peripheral Circulation^Goal Master
   List||||199505011200|199505101200|Due^Review Due^Next Review
   List|||199505021200||QAM|||ACT^Active^Level Seven Healthcare, Inc.
   Internal|199505011200| P^Patient^Level Seven Healthcare, Inc. Internal||<cr>
PRT||AD||AT^Attending Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
PRT||AD||EP^Entering Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
PRB|AD|199505011200|04411^Restricted Circulation^Nursing Problem List||
   ||199505011200|||IP^Inpatient^Problem Classification List|
   NU^Nursing^Management Discipline List|Acute^Acute^Persistence List|
   C^Confirmed^Confirmation Status List|A1^Active^Life Cycle Status List|
   199505011200|199504250000||2^Secondary^Ranking List|HI^High^Certainty Coding
   List||1^Fully^Awareness Coding List|2^Good^Prognosis Coding List|||| <cr>
PRT||AD||AT^Attending Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
OBX|001|TX|^Peripheral Dependent Edema|1|Increasing Edema in lower limbs|<cr>
```

The following is an example of a patient problem message.

```
OBX|001|TX|^Peripheral Dependent Edema|1|Increasing Edema in lower limbs|<cr>
GOL|AD|199505011200|00312^Improve Peripheral Circulation^Goal Master
    List|||199505011200|199505101200|Due^Review Due^Next Review List||
    199505021200||QAM|||ACT^Active^ Level Seven Healthcare, Inc.
    Internal|199505011200| P^Patient^Level Seven Healthcare, Inc.||<cr>
PRT||AD||AT^Attending Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
```

The following is an example of a patient pathway problem-oriented message.

```
MSH|^~\&|SENDAP|SENDFAC|RECAP|RECFAC|||PPP^PCB| <cr>
PID||0123456-1||EVERYMAN^ADAM^A|||||9821111|<cr>
PV1|1|I|2000^2012^01||||004777^ATTEND^AARON^A.|||SUR||||ADM|A0|<cr>
PTH|AD^^HL70287|OH457^Open Heart
   Pathway^AHCPR|0018329078785^PCIS1|199505011200|A1^Active^Pathway Life Cycle
   Status List|199505011200|<cr>
VAR|84032847876^LOCK|199505011200||^Verify^Virgil^V^^RN|23^Coincident^Variance
   Class List|Exceeds APACHE III threshold score. | <cr>
PRB|AD|199505011200|04411^Restricted Circulation^Nursing Problem List||
   ||199505011200|||IP^Inpatient^Problem Classification List|
   NU^Nursing^Management Discipline List|Acute^Acute^Persistence List|
   C^Confirmed^Confirmation Status List|A1^Active^Life Cycle Status List|
   199505011200|199504250000||2^Secondary^Ranking List|HI^High^Certainty Coding
   List||1^Fully^Awareness Coding List|2^Good^Prognosis Coding List|||| <cr>
PRT||AD||AT^Attending Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
PRT||AD||EP^Entering Provider^HL70912|^Admit^Alan^A^^RN|||||199505011200<cr>
ORC|NW|2045^OE||||E|^C^199505011200^199505011200^^TM30^^^|<cr>
RXO|||3|L|IV|D5W WITH 1/2 NS WITH 20 MEQ KCL EVERY THIRD BOTTLE STARTING WITH
   FIRST||W8&825&A^|N||||||H30<cr>
ORC|NW|1000^OE|9999999^RX|||E|^Q6H^D10^^^R|||||||<cr>
RXA|1|199505011200|||0047-0402-30^Ampicillin 250 MG TAB^NDC|2|TAB||<cr>
```

12.6 IMPLEMENTATION CONSIDERATIONS

The Patient Care Technical Committee recognizes that this document contains a great deal of information for computer systems that are currently under development. The participating institutions/vendors will be responsible for defining the necessary tables that have been previously discussed. As these tables are defined and clarified, they will be included in this document for distribution.

Applications can have differing orientations for representing problem and goal hierarchies. For example, parent:child relationships may map problem(s) to goal(s), or goal(s) to problem(s). To accommodate these different orientations, the Problem message allows representation of goals that are functionally dependent upon a problem, and the Goal message allows representation of problems that are functionally dependent on a goal. We recognize that institutions will decide on one or the other of the methodologies based on practice preferences.

12.7 OUTSTANDING ISSUES

In both the Problem and Goal segments a field named "Episode of Care" has been included. This field is intended to accommodate an entity defined by consensus business rules that defines an episode of care.

Individual businesses/applications must be cognizant of and able to handle data integrity issues that may arise from the fact that problem lists and goal lists may not have a single owner of record. This chapter does not address the need for joint data ownership (of problem and goal data) between two or more front-end clinical applications concurrently supporting patient care in real-time. From a data integrity perspective, problem/goal data must be

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Normative Ballot #1.

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sourced/originated (and thus owned) by a single application only - for example, a front-end clinical application (source) transmitting to a back-end repository application. This is not recognized to be within the current scope of the Patient Care Committee; therefore, this concern will be submitted to the Infrastructure & Messaging committee for further debate.