

# HealthConcourse FHIR Server REST Service Endpoint API's

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## Introduction

This document contains the API signatures for the VistA APIs called by the REST service endpoints for FHIR on VistA.

Example curl command:

General format – server:port/endpoint?parameters

Example to return a data string:

```
curl -v http://localhost:8001/DHPPATVITICN?ICN=2176287883V515136
```

Example to return JSON:

```
curl -v http://localhost:8001/DHPPATVITICN?ICN=2176287883V515136\&JSON=J
```

There are detailed examples for each API and service endpoint in the unit test document:  
HealthConcourse REST Getter API Unit Tests

REST service endpoints are defined in the NETSERV HTTP ENDPOINT FILE (#996.52)  
Global - ^RGNET(996.52)

## Get Condition/Problem for Patient by ICN      DHPPATCONICN

Endpoint: DHPPATCONICN

API: PATCONI^SYNDHP03

```
PATCONI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient conditions for ICN
;
; Return patient conditions (problems) for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all VistA systems
; FRDAT - from date (inclusive), optional, compared to .13 DATE OF ONSET
; TODAT - to date (inclusive), optional, compared to .13 DATE OF ONSET
; Output:
; RETSTA - a delimited string that lists the following information
; PatientICN ^ resourceId ^ DiagnosisCode ; DiagnosisName ^ DateOfOnset ^ SnomedCode ;
SnomedName |
; and continue this for every diagnosis for a particular patient ICN
;
; Identifier will be "V_"_SITE ID_"_"_FILE #_"_"_FILE IEN i.e. V_500_9000011_930
;
```

## Get Encounters for Patient by ICN      DHPPATENCICN

Endpoint: DHPPATENCICN

API: PATENCI^SYNDHP40

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```
PATENCI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient primary encounters for ICN
;
; Return primary encounters/visits for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional, compared to .01 VISIT/ADMIT DATE&TIME
; TODAT - to date (inclusive), optional, compared to .01 VISIT/ADMIT DATE&TIME
; Output:
; RETSTA - a delimited string that lists the following information
; PatientICN ^ RESOURCE ID ^ TYPE ^ ENCOUNTER DATE ^ REASON ^ ICD DIAGNOSIS CODE ; ICD
DIAGNOSIS NAME
; ^ SERVICE CATEGORY ^ SOURCE ^
; ^ LOCATION OF ENCOUNTER , LOCATION ADDRESS SEPARATED BY SEMICOLONS ^ HOSPITAL LOCATION
; ^ PROVIDER(S) SEPARATED BY SEMICOLONS
;
; Identifier will be "V_"_SITE ID_"_"_FILE #_"_"_FILE IEN i.e. V_500_9000010_930
;
```

### Get Patients with a Condition      DHPPATS4CON

Endpoint: DHPPATS4CON

API: PATCONAL^SYNDHP03

```
PATCONAL(RETSTA,DHPSCT) ; Patients for a given active condition
;
; Return list of all patients who have a particular active condition (problem)
;
; Input:
; DHPSCT - SNOMED CT code (mandatory)
; Output:
; RETSTA - a delimited string that lists SNOMED CDT codes for active patient conditions
; - SCT^ICN 1|patient name 1^ICN 2|patient name 2^...^ICN n|patient name n
; - -1 - error
;
```

### Get Vitals for Patient by ICN DHPPATVITICN

Endpoint: DHPPATVITICN

API: PATVITI^SYNDHP01

```
PATVITI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient vitals for ICN
;
; Return patient vitals for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional, compared to .01 DATE/TIME VITALS TAKEN
; TODAT - to date (inclusive), optional, compared to .01 DATE/TIME VITALS TAKEN
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return string (default)
```

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```
; Output:
; RETSTA - a delimited string that lists the vitals for a patient
; - ICN^SCT code for vital|SCT description of vital|value of vital|date|resource id^...
; or patient vitals in JSON format
;
; note:resource identifier will be:
; "V"_SITE ID_FILE #_FILE IEN e.g. V_500_120.5_930
;
```

### Get Immunizations for Patient by ICN DHPPATIMMICN

Endpoint: DHPPATIMMICN

API: PATIMMI^SYNDHP02

```
PATIMMI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient immunizations for ICN
;
; Return patient immunizations for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all VistA systems
; FRDAT - from date (inclusive), optional, compared to Visit Date/Time
; TODAT - to date (inclusive), optional, compared to Visit Date/Time
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return string (default)
; Output:
; RETSTA - a delimited string that lists patient immunization information
; Resource ID |Imm. Enc. Visit Dt | Imm. CVX Code | Imm. Description | Series Indicator ;
Description |
; Imm. Given Date | Loc. of Enc. | Reaction Indicator ; Description | Imm. Provider
; or patient immunizations in JSON format
;
```

### Get Procedures for Patient by ICN DHPPATPRCICN

Endpoint: DHPPATPRCICN

API: PATPRCI^SYNDHP04

```
PATPRCI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient procedures for ICN
;
; Return patient procedures for a given patient ICN
; currently returns:
; -Surgical
; -Visit (V CPT)
; -Radiology
;
; Input:
; DHPICN - unique patient identifier across all VistA systems
; FRDAT - from date (inclusive), optional
; TODAT - to date (inclusive), optional
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
; Output:
; RETSTA - a delimited string that lists SNOMED CDT codes for the patient procedures
;         - ICN^SCT code|description|CPT code|date|identifier^...
;
```

### Get Diagnostic Report for Patient by ICN      DHPPATDXRICN

Endpoint: DHPPATDXRICN

API: PATDXRI^SYNDHP05

```
PATDXRI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient diagnostic report for ICN
;
; Return patient diagnostic report for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all VistA systems
; FRDAT - from date (inclusive), optional
; TODAT - to date (inclusive), optional
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return diagnostic report string (default)
; Output:
; RETSTA - ICN^"IMG"|status|dateTime|provider|identifier|CPT|SCT|desc|primary dx|dx
SCT|conclusion^...
; ^"MHDX"|status|dateTime|provider|identifier|diag code|SCT|decription^...
; ^"VISIT"|status|dateTime|provider|identifier|ICD|SCT|diag desc^...
; or patient diagnostic report data in JSON format
;
```

### Get Institution Info by Hospital Location Name      DPHHLOCINSTHLOCNAM

Endpoint: DPHHLOCINSTHLOCNAM

API: HOSINSTI^SYNDHP06

```
HOSINSTI(RETSTA,HLOCNAME,RETJSON) ; takes Hospital Location name and returns Institution
and Inst. details
;
; Return Institution and Inst. details for a given Hospital Location name
;
; Input:
; HLOCNAME - Hospital Location name
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return Location string (default)
; Output:
; RETSTA - a delimited string that lists institution details for hospital location name
;
LocName^LocIEN|institutionName|instIEN|instStreet1|instStreet2|instCity|instState|instZip|c
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
ontactName1_Phone1*repeats|resourceId  
; or hospital location & institution data in JSON format  
;
```

### Get Goals for Patient by ICNDHPPATGOLICN

Endpoint: DHPPATGOLICN

API: PATGOLI^SYNDHP07

```
PATGOLI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient goals for ICN  
;  
; Return patient nursing care plan goals for a given patient ICN  
;  
; Input:  
; ICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, compares to date/time entered  
; TODAT - to date (inclusive), optional, compares to date/time entered  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return patient goals string (default)  
; Output:  
; RETSTA - a delimited string that lists patient goals information  
; ICN ^ Resource ID | Date/Time Entered | Goal/Expected Outcome | Target Date | User Who  
Entered | code ; Status of Goal ^ ...  
; or patient nursing care plans in JSON format  
;
```

### Get Flags for Patient by ICN DHPPATFLGICN

Endpoint: DHPPATFLGICN

API: PATFLGI^SYNDHP08

```
PATFLGI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient flags for ICN  
;  
; Return patient flags for a given patient ICN  
;  
; Input:  
; ICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, not used, no logical date to compare  
; TODAT - to date (inclusive), optional, not used, no logical date to compare  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return patient flags string (default)  
; Output:  
; RETSTA - a delimited string that lists patient flag information  
; ICN^flag name|SNOMED code|flag record IEN|national or local|status|owner  
site|originating site|review date|resource id^...
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
; or patient flags in JSON format  
;
```

### Get Health Factors for Patient by ICN    DHPPATHLFICN

Endpoint: DHPPATHLFICN

API: PATHLFI^SYNDHP09

```
PATHLFI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient health factors for ICN  
;  
; Return patient vitals for a given patient ICN  
;  
; Input:  
; ICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, compared to Visit Date/Time  
; TODAT - to date (inclusive), optional, compared to Visit Date/Time  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return health factors string (default)  
; Output:  
; RETSTA - a delimited string that list the health factors for the patient  
; - ICN^SCT code|HF Name|Resource ID|HF Severity|Encounter Provider|Visit Date^...  
; or patient health factors in JSON format  
;
```

### Get Appointments for Patient by ICN            DHPPATAPTICN

Endpoint: DHPPATAPTICN

API: PATAPTI^SYNDHP41

```
PATAPTI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient appointments for ICN  
;  
; Return patient appointments for a given patient ICN  
; >>>> ONLY reads from Patient (2) file  
;  
; Input:  
; ICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, compared to appointment date/time  
; TODAT - to date (inclusive), optional, compared to appointment date/time  
; Output:  
; RETSTA - a delimited string that lists patient appointment information  
; ICN ^ Patient IEN _ Appt Date (HL7) | Clinic | Appt Status | purpose of visit | Appt  
Type | Resource ID ^...  
;
```

## Get Demographics for One Patient by ICN    DHPPATDEMICN

Endpoint: DHPPATDEMICN

API: PATDEMI^SYNDHP47

```
PATDEMI(RETSTA,DHPICN,RETJSON) ; get demographics for patient by ICN
;
; Return patient demographics for given patient ICN
;
; Input:
; ICN - unique patient identifier across all VistA systems
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return patient demographics string (default)
; Output:
; RETSTA - a delimited string that has the following
; ICN^Name^Phone Number^Gender^Date of
Birth^Address1,Address2,Address3,^City^State^ZIP^resID
; or patient demographics in JSON format
;
```

## Get Patient Demographics for Range of Patients    DHPPATDEMRNG

Endpoint: DHPPATDEMRNG

API: PATDEMRNG^SYNDHP47

```
PATDEMRNG(RETSTA,DHPPATS,RETJSON) ; get demographics for range of patients
;
; Return patient demographics for a range of patients
;
; Input:
; DHPPATS - mmmmRnnnn where nnnn and mmmm are patient DFNs, mmmm<nnnn (limited to 1000
patients for JSON)
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return patient demographics string (default)
; Output:
; RETSTA - a delimited string that has the following
; ICN^Name^Phone Number^Gender^Date of
Birth^Address1,Address2,Address3,^City^State^ZIP^resID|...
; or patient demographics in JSON format
;
;
```

## Get Patient Demographics for All Patients    DHPPATDEMALL

Endpoint: DHPPATDEMALL

API: PATDEMAL^SYNDHP47



## HealthConcourse FHIR Server REST Service Endpoint API's

```
PATDEMAL(RETSTA,DHPICN,RETJSON) ; get demographics for all patients
;
; Return patient demographics for all patients
;
; Input:
; DHPICN - "ALL"
; RETJSON - J = Return JSON (JSON is not currently supported for this call)
; F = Return FHIR
; 0 or null = Return patient demographics string (default)
; Output:
; RETSTA - a delimited string that has the following data elements for each patient
; ICN^Name^Phone Number^Gender^Date of
Birth^Address1,Address2,Address3,^City^State^ZIP^resID|...
; data for each patient is separated by "|"
; or patient demographics in JSON format
;
```

### Get Medication Statement for Patient by ICNDHPPATMEDSICN

Endpoint: DHPPATMEDSICN

API: PATMEDS^SYNDHP48

```
PATMEDS(RETSTA,DHPICN,FRDAT,TODAT) ; Patient medication statement for ICN
;
; Return patient medication statement for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all VistA systems
; FRDAT - from date (inclusive), optional
; TODAT - to date (inclusive), optional
; Output:
; RETSTA - a delimited string that lists the following information
; PatientICN ^ RESOURCE ID ^ STATUS ^ MEDICATION ^ DATE ASSERTED ^ CONDITION
; ^ DOSAGE , SITE ; ROUTE ; DOSE ^ QUANTITY ^ DAYS ^ RXN |
;
; Identifier will be "V"_SITE ID_"_"_FILEMAN #_"_"_FILE IEN i.e. V_500_55_930
;
```

### Get Medication Administration for Patient by ICN DHPPATMEDAICN

Endpoint: DHPPATMEDAICN

API: PATMEDA^SYNDHP48

```
PATMEDA(RETSTA,DHPICN,FRDAT,TODAT) ; Patient medication administration for ICN
;
; Return patient medication administration for a given patient ICN
;
; Input:
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional
; TODAT - to date (inclusive), optional
; Output:
; RETSTA - a delimited string that lists the following information
; PatientICN ^ RESOURCE ID ^ STATUS ^ MEDICATION ^ DATE ASSERTED ^ CONDITION
; ^ DOSAGE , SITE ; ROUTE ; DOSE ^ QUANTITY ^ DAYS ^ RXN |
;
; Identifier will be "V"_SITE ID_"_"_FILEMAN #_"_"_FILE IEN i.e. V_500_55_930
;
```

### Get Medication Dispense for Patient by ICN

DHPPATMEDDICN

Endpoint: DHPPATMEDDICN

API: PATMEDD^SYNDHP48

```
PATMEDD(RETSTA,DHPICN,FRDAT,TODAT) ; Patient medication dispense for ICN
;
; Return patient medication dispense for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional
; TODAT - to date (inclusive), optional
; Output:
; RETSTA - a delimited string that lists the following information
; PatientICN ^ RESOURCE ID ^ STATUS ^ MEDICATION ^ DATE ASSERTED ^ CONDITION
; ^ DOSAGE , SITE ; ROUTE ; DOSE ^ QUANTITY ^ DAYS ^ RXN |
;
; Identifier will be "V"_SITE ID_"_"_FILEMAN #_"_"_FILE IEN i.e. V_500_55_930
;
```

### Get Patient Observations by ICN DHPPATOBSICN

Endpoint: DHPPATOBSICN

API: PATOBSI^SYNDHP56

```
PATOBSI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient Observations for ICN
;
; Return patient Observations for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional, compared to date given (MH) date/time of
diagnosis (GAF)
; TODAT - to date (inclusive), optional, compared to date given (MH) date/time of
diagnosis (GAF)
; Output:
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
; RETSTA - a delimited string that lists LOINC and SNOMED CDT codes for the patient
Observations
; - ICN^LOINC code|description|SCT code|description|Instrument Name|date given|clinic
name|ordered by|scale:score|resource ID^...
;
```

### Get Labs for Patient by ICN DHPPATLABICN

Endpoint: DHPPATLABICN

API: PATLABI^SYNDHP53

```
PATLABI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient labs for ICN
;
; Return patient labs for a given patient ICN
;
; Input:
; DHPICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional, compared to 63.04:.01 DATE/TIME SPECIMEN TAKEN
; TODAT - to date (inclusive), optional, compared to 63.04:.01 DATE/TIME SPECIMEN TAKEN
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return lab string (default)
; Output:
; RETSTA - a delimited string that lists LOINC codes for the patient labs
; - ICN^LOINC code1|LOINC description|result|date|resource ID^...
; or patient chem labs in JSON format
;
```

### Get Encounter Providers for Patient by ICN DHPPATPRVICN

Endpoint: DHPPATPRVICN

API: PATPRVI^SYNDHP54

```
PATPRVI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient encounter providers for ICN
;
; Return patient enc providers for a given patient ICN
;
; Input:
; ICN - unique patient identifier across all Vista systems
; FRDAT - from date (inclusive), optional, compares to Visit Date/Time
; TODAT - to date (inclusive), optional, compares to Visit Date/Time
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 or null = Return patient providers string (default)
; Output:
; RETSTA - a delimited string that lists patient providers for encounters
; ICN^visit date|visit ien|provider
name|role|prim/sec|address1|address2|city|state|zip|off.
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
phone|specialization|resourceId^...  
; or patient enc providers in JSON format  
;
```

### Get Allergies for Patient by ICN DHPPATALLICN

Endpoint: DHPPATALLICN

API: PATALLI^SYNDHP57

```
PATALLI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Patient allergies for ICN  
;  
; Return patient allergies for a given patient ICN  
;  
; Input:  
; DHPICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, compared to origination date/time  
; TODAT - to date (inclusive), optional, compared to origination date/time  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return allergies string (default)  
; Output:  
; RETSTA - a delimited string that lists SNOMED CDT codes for the patient allergies  
; - ICN^allergen|SCT:code|origination dt/tm|type|verified flag|resource id~reaction:sct  
code:severity^...  
; or if no reaction: ICN^allergen|SCT:code|origination dt/tm|type|verified flag|resource  
id^...  
; or patient allergies in JSON format  
;
```

### Get Patient Notes by ICN DHPPATTIUCN

Endpoint: DHPPATTIUCN

API: PATTIUI^SYNDHP67

```
PATTIUI(RETSTA,DHPICN,FRDAT,TODAT) ; Patient TIU Notes for ICN  
;  
; Return patient Text Integration Utility Notes for a given patient ICN  
;  
; Input:  
; ICN - unique patient identifier across all VistA systems  
; FRDAT - from date (inclusive), optional, compared to 1201 ENTRY DATE/TIME  
; TODAT - to date (inclusive), optional, compared to 1201 ENTRY DATE/TIME  
; Output:  
; RETSTA - a delimited string that lists the following information  
; PatientICN~ResourceID|DateTime|NoteStatus|NoteConfidentiality  
; |NoteAuthor|NoteLine(1)^NoteLine(2)^NoteLine(3)...  
; ^NoteLine(n)^|LOINC Code_LOINC Name~...  
;
```

## HealthConcourse FHIR Server REST Service Endpoint API's

```
; Identifier will be "V"_SITE ID_FILE #_FILE IEN i.e. V_500_8925_930  
;
```

### Get One Care Team    DHPCARETEAM

Endpoint: DHPCARETEAM

API: GETTEAM^SYNDHP58

```
GETTEAM(RETSTA,TEAMID,RETJSON) ;get one care team  
;input: TEAMID - Team Name or IEN  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return TEAMS string (default)  
;returns: RETSTA - delimited string or JSON or FHIR string  
; resourceId | teamName | teamPurpose | institution | serviceDept | currentStatus |  
fhirTeamType | currentActivationDate | currentInactivationDate | current#Patients |  
resourceType  
; or care team data in JSON format  
; -1^What team?  
; -1^Team not found  
;
```

### Get All Care Teams    DHPCARETEAMS

Endpoint: DHPCARETEAMS

API: GETTEAMS^SYNDHP58

```
GETTEAMS(RETSTA,FRDAT,TODAT,RETJSON) ;get all care teams  
;input: FRDAT - from date (inclusive), optional, compared to Current Activation Date  
; TODAT - to date (inclusive), optional, compared to Current Activation Date  
; RETJSON - J = Return JSON  
; F = Return FHIR  
; 0 or null = Return TEAMS string (default)  
;returns: RETSTA - delimited string or JSON or FHIR string  
; field delimiter |  
; team delimiter ^  
; resourceId | teamName | teamPurpose | institution | serviceDept | currentStatus |  
fhirTeamType | currentActivationDate | currentInactivationDate | current#Patients |  
resourceType ^ ...  
; or care team data in JSON format  
;
```

### Get Patient Care Plans for ICN    DHPPATCPALLI

Endpoint: DHPPATCPALLI

API: PATCPALLI^SYNDHP59

## HealthConcourse FHIR Server REST Service Endpoint API's

```
PATCPALLI(RETSTA,DHPICN,FRDAT,TODAT,RETJSON) ; Get Patient Care Plans for ICN
;
; Return patient Care Plans for a given patient ICN
; This API will only return care plan(s) for ingested Synthea patients
;
; Input:
; DHPICN - patient ICN (unique patient identifier across all VistA systems)
; FRDAT - from date (inclusive), optional, compared to Visit Date/Time
; TODAT - to date (inclusive), optional, compared to Visit Date/Time
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 = Return Care Plan string (default)
; Output:
; RETSTA - a delimited string ...
; - ICN^resourceId|HF SCT|HF
Name|levelSeverity|encounterProvider|eventDateTime|visitDateTime|comments^...
; or care plan data in JSON format
;
```

### Get Patient Care Plan for ICN and Visit ID      DHPPATCPI

Endpoint: DHPPATCPI

API: PATCPI^SYNDHP59

```
PATCPI(RETSTA,DHPICN,VRESID,RETJSON) ; Patient Care Plan for ICN and Visit ID
;
; Return patient Care Plan for a given patient ICN and Visit ID
; This API will only return data for Synthea care plan patients
;
; Input:
; DHPICN - patient ICN (unique patient identifier across all VistA systems)
; VRESID - Visit resource ID
; RETJSON - J = Return JSON
; F = Return FHIR
; 0 = Return Care Plan string (default)
; Output:
; RETSTA - a delimited string ...
; - ICN^resourceId|HF SCT|HF
Name|levelSeverity|encounterProvider|eventDateTime|visitDateTime|comments^...
; or care plan data in JSON format
;
```

### Validate Patient for Traits      DHPPATVAL

Endpoint: DHPPATVAL

API: PATVAL^SYNDHP43

## HealthConcourse FHIR Server REST Service Endpoint API's

```
PATVAL(RETSTA,NAME,SSN,DOB,GENDER,MMDNM) ; validate patient for DHP
;
; this API validates a patient
; all the input criteria must be satisfied for the patient to be identified as a valid
patient
;
; Input:
; NAME is the patient Name - REQUIRED
; SSN is the patient Social Security Number - REQUIRED
; DOB is the patient Date of Birth - REQUIRED
; GENDER is the patient gender - REQUIRED
; MMDNM is the patient Mother's Maiden Name - optional
;
; Output:
; RETSTA is the name of the return array
; RETSTA(0)=STATUS^REASON^ICN
; STATUS = 1 - valid match found
; STATUS = 0 - no match found
;
```

### Get Mapped Code     DHPMAPSVC

Endpoint: DHPMAPSVC

API: MAPSVC^SYNDHP83

```
MAPSVC(RETSTA,DHPMAP,DHPCODE,DHPDIR,DHPIOE) ; get mapped code
;
; Return mapped code for given mapping and source code
;
; Input:
; DHPMAP - map identifier e.g. sct2icd, or rxn2ndf
; DHPCODE - source code to be mapped
; DHPDIR - direction of mapping
; D for direct (default)
; I for inverse
; DHPIOE - use internal or external mappings
; I for internal SYN Vista (default)
; H for external Health Concourse
; Output:
; RETSTA - a delimited string that has the following
; n^target_code
;
; -where n is a flag indicating success/failure of request
; 1 - success
; -1 - exception
; target_code is the code that is the result of the mapping
;
```

## Get VistA record for a Resource ID      DHPGETRESID

Endpoint: DHPGETRESID

API: GETREC^SYNDHP99

```
GETREC(RETSTR,RESID) ; Get VistA record for Resource ID
;Inputs: RETSTR - return string, by reference
; RESID - resource id - V_site_file#_record#
;Output: RETSTR - VistA record as a JSON string
; or error message
;
```