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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

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 ^ RESOURSE 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)  
 ; 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  
 ; Output:  
 ; RETSTA - a delimited string that lists SNOMED CDT codes for the patient procedures  
 ; - ICN^SCT code|descrption|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 DHPHLOCINSTHLOCNAM

Endpoint: DHPHLOCINSTHLOCNAM

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|contactName1\_Phone1\*repeats|resourceId  
 ; or hospital location & institution data in JSON format  
 ;

# Get Goals for Patient by ICN DHPPATGOLICN

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^...  
 ; 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

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 ICN DHPPATMEDSICN

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 ^ RESOURSE 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:  
 ; 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 ^ RESOURSE 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 ^ RESOURSE 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:  
 ; RETSTA - a delimited string that lists LOINC and SNOMED CDT codes for the patient Observations  
 ; - ICN^LOINC code|description|SCT code|descrption|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. 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 DHPPATTIUICN

Endpoint: DHPPATTIUICN

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~...  
 ;  
 ; 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

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

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 indentifier 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 inernal 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   
 ;