

Attachment F - NHCS EHR Variable List

Data Item	Xpath	Section	CDA Template	Comments
Patient First Given Name	/ClinicalDocument/receiver/patientRole/patient/name/given	(Header)	National Health Care Surveys (V2)	
Patient Second Given Name (middle name)	/ClinicalDocument/receiver/patientRole/patient/name/given[2]	(Header)	National Health Care Surveys (V2)	
Patient Surname (last name)	/ClinicalDocument/receiver/patientRole/patient/name/family	(Header)	National Health Care Surveys (V2)	
Patient Generational suffix (eg Jr, Sr)	/ClinicalDocument/receiver/patientRole/patient/name/suffix	(Header)	National Health Care Surveys (V2)	
Patient Address 1	/ClinicalDocument/receiver/patientRole/addr/streetAddressLine	(Header)	National Health Care Surveys (V2)	
Patient Address 2	/ClinicalDocument/receiver/patientRole/addr/streetAddressLine	(Header)	National Health Care Surveys (V2)	
Patient City	/ClinicalDocument/receiver/patientRole/addr/city	(Header)	National Health Care Surveys (V2)	
Patient State	/ClinicalDocument/receiver/patientRole/addr/state	(Header)	National Health Care Surveys (V2)	
Patient Zip	/ClinicalDocument/receiver/patientRole/addr/postalCode	(Header)	National Health Care Surveys (V2)	
Patient SSN	/ClinicalDocument/receiver/patientRole/id[@root="2.16.840.1.113883.1.1"]	(Header)	National Health Care Surveys (V2)	
Patient Medicare number	/ClinicalDocument/receiver/patientRole/id[@root="2.16.840.1.113883.4.572"]	(Header)	National Health Care Surveys (V2)	
Patient's medical record number	/ClinicalDocument/receiver/patientRole/id	(Header)	National Health Care Surveys (V2)	
Patient Date of Birth	/ClinicalDocument/receiver/patientRole/patient/birthTime	(Header)	National Health Care Surveys (V2)	
Patient Sex	/ClinicalDocument/receiver/patientRole/patient/administrativeGenderCode	(Header)	National Health Care Surveys (V2)	
Patient Race	/ClinicalDocument/receiver/patientRole/patient/raceCode	(Header)	National Health Care Surveys (V2)	
Patient Ethnicity	/ClinicalDocument/receiver/patientRole/patient/ethnicGroupCode	(Header)	National Health Care Surveys (V2)	
Patient Marital Status	/ClinicalDocument/receiver/patientRole/patient/maritalStatusCode	(Header)	National Health Care Surveys (V2)	
Patient Residence Type	/observation[templated/@root="2.16.840.1.113883.10.20.34.3.25"]/value	Patient Information Section (V3)	Patient Residence Observation	
Type of clinic/location where visit occurred (family practice, cardiology, etc.)	/ClinicalDocument/componentOf/encounter/location/healthCareFacilityCode	(Header)	Outpatient Encounter (NHCS-OPD, NAMCS, NHAMCS-OPD) (V3)	
Has patient been seen in clinic/location before?	//act[templated/@root="2.16.840.1.113883.10.20.34.3.9"]/code[@code="108220007"]/@codeSystem="2.16.840.1.113883.6.96"]	Outpatient Encounters Section (V2)	Current Outpatient Visit (V3)/New Patient Act	
If yes, how many visits in previous 12 months (excluding this visit)	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.26"]/value	Outpatient Encounters Section (V3)	Current Outpatient Visit (V3)/Number of Visits in the Last 12 Months	Value contains the number of visits
NPI of physicians	/ClinicalDocument/documentationOf/serviceEvent/performer/assignedEntityId/@extension	(Header)	National Health Care Surveys (V2)	
Types of care providers seen (including attending residents, interns, N.P., P.A., consulting, specialists), Nurse, mental health providers, social workers)	/ClinicalDocument/documentationOf/serviceEvent/performer/assignedEntityCode	(Header)	National Health Care Surveys (V2)	
Anesthesia Provider Type	/ClinicalDocument/documentationOf/serviceEvent/performer/assignedEntityCode	(Header)	National Health Care Surveys (V2)	
Seen by PCP	/ClinicalDocument/documentationOf/serviceEvent/performer/functionCode[@code="PP"]/@codeSystem="2.16.840.1.113883.12.443"]	(Header)	Outpatient Encounter (NHCS-OPD, NAMCS, NHAMCS-OPD) (V2)	
Source of referral	//reference/externalDocument/code[@code="77113"]	Outpatient Encounters Section (V2)	Current Outpatient Visit (V3)/Clinical Note and External Document Reference	
Encounter Number	/ClinicalDocument/componentOf/encounter/encounterId	(Header)	National Health Care Surveys (V2)	
Date/Time of admission/visit/arrival	/ClinicalDocument/componentOf/encounter/effectiveTime/low	(Header)	National Health Care Surveys (V2)	
Date/Time of departure/discharge	/ClinicalDocument/componentOf/encounter/effectiveTime/high	(Header)	National Health Care Surveys (V2)	
Expected source(s) of payment	//act[templated/@root="2.16.840.1.113883.10.20.22.4.12"]/entryRelationship/act/code	Payment Sources Section	Planned Coverage	
Is this visit for a new problem, chronic problem (acute or flare-up), preventive care, pre-/post-surgery, surgery/procedure	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/value	Outpatient Encounters Section (V3)	Current Outpatient Visit (V3)/Major Reason for Visit	
Initial or follow-up visit?	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/value	Outpatient Encounters Section (V3)	Current Outpatient Visit (V3)/Episode of Care Observation (V2)	
Discharge disposition	/ClinicalDocument/componentOf/encounter/dischargeDispositionCode	(Header)	National Health Care Surveys (V2)	
Did someone attempt to follow up with this patient within 24-hours after this surgery	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.42"]/templated/@extension="2015-04-01"/value	Outpatient Encounters Section (V3)	Current Outpatient Visit (V3)/Procedure Follow-Up Attempt Observation	
If follow-up attempt was made, what was learned?	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.43"]/templated/@extension="2015-04-01"/value	Outpatient Encounters Section (V3)	Current Outpatient Visit (V3)/Procedure Follow-Up Attempt Observation/ Follow-up Attempt Outcome Observation	
Reason for Visit (Patient)	//section[templated/@root="2.16.840.1.113883.10.20.34.3.14"]/templated/@extension="2016-07-01"/text	Reasons for Visit Section (V2)	Reasons for Visit Section (V2)	Free text
Reason for Visit (Patient)	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/templated/@extension="2015-04-01"/code	Reasons for Visit Section (V2)	Patient's Reason for Visit Observation	Coded
Diagnosis	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Problem (Diagnosis/Symptom/Condition Observation (V2)	
Primary Diagnosis	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.6"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Primary Diagnosis Observation (V2)	
Active Problems	/any of the Admission Diagnosis, Diagnosis or Primary Diagnosis where there is no effectiveTime/High	Problems Section (V3)	Admission Diagnosis Observation Problem (Diagnosis/Symptom/Condition Observation (V2) Primary Diagnosis Observation (V2)	
Problems the patient has (all others besides asthma) (Co-occurring conditions)	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Problem (Diagnosis/Symptom/Condition Observation (V2)	
Adverse effect of medical treatment	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.14"]/value	Problems Section (V3)	Adverse Effect of Medical Treatment	
Lab Tests - Test Name	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.2"]/templated/@extension="2014-06-09"/code/@displayName	Results Section (Entries Optional)	Result Observation (V2)	
Lab Tests - Test Code	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.2"]/templated/@extension="2014-06-09"/code/@code	Results Section (Entries Optional)	Result Observation (V2)	
Lab Tests - Test Date/Time	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.2"]/templated/@extension="2014-06-09"/effectiveTime	Results Section (Entries Optional)	Result Observation (V2)	
Lab Test - Quantitative Result	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.2"]/templated/@extension="2014-06-09"/value	Results Section (Entries Optional)	Result Observation (V2)	
Lab Test - Qualitative Result	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.2"]/templated/@extension="2014-06-09"/interpretationCode	Results Section (Entries Optional)	Result Observation (V2)	
Provided: Exam/Immunizations	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Provided Service Observation	
Provided: Blood Tests	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Provided Service Observation	
Provided: Imaging Services	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Provided Service Observation	
Provided: Other tests and Procedures (except Excision of tissue, biopsy)	//act[templated/@root="2.16.840.1.113883.10.20.34.3.20"]/code	Services and Procedures Section	Provided Service Act	
Provided: Excision of tissue, biopsy	//procedure[templated/@root="2.16.840.1.113883.10.20.34.3.12"]/code	Services and Procedures Section	Provided Service Procedure	
Provided: Non-medication Tx	//act[templated/@root="2.16.840.1.113883.10.20.34.3.29"]/code	Services and Procedures Section	Provided Service Act	
Provided: Health Education/Counseling	//act[templated/@root="2.16.840.1.113883.10.20.34.3.29"]/code	Services and Procedures Section	Provided Service Act	
Ordered: Exam/Immunizations	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Ordered Service Observation	
Ordered: Blood Tests	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Ordered Service Observation	
Ordered: Imaging Services	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code	Services and Procedures Section	Ordered Service Observation	
Ordered: Other tests and Procedures (except Excision of tissue, biopsy)	//act[templated/@root="2.16.840.1.113883.10.20.34.3.19"]/code	Services and Procedures Section	Ordered Service Act	
Ordered: Excision of tissue, biopsy	//procedure[templated/@root="2.16.840.1.113883.10.20.34.3.12"]/code	Services and Procedures Section	Ordered Service Procedure	
Ordered: Non-medication Tx	//act[templated/@root="2.16.840.1.113883.10.20.34.3.19"]/code	Services and Procedures Section	Ordered Service Act	
Ordered: Health Education/Counseling	//act[templated/@root="2.16.840.1.113883.10.20.34.3.19"]/code	Services and Procedures Section	Ordered Service Act	
Procedures using CPT and HCPCS CODES	//act[templated/@root="2.16.840.1.113883.10.20.34.3.20"]/code OR //observation[templated/@root="2.16.840.1.113883.10.20.34.3.7"]/code OR //procedure[templated/@root="2.16.840.1.113883.10.20.34.3.12"]/code	Services and Procedures Section	Provided Service Act OR Provided Service Observation OR Provided Service Procedure	Choose one of the CDA Templates depending on the type of procedure (i.e. Act, Observation, or Procedure). See template descriptions in IG for details.
Supplied/Administered Medication	//substanceAdministration[templated/@root="2.16.840.1.113883.10.20.22.4.16"]/templated/@extension="2014-06-09"/consumable/manufactureProduct/manufactureMaterial/code	Medications Section	Medication Activity (V2)	Continued medication: substanceAdministration/effectiveTime/low <= encounter date New medication: substanceAdministration/effectiveTime/low >= encounter date
Ordered Medication	//substanceAdministration[templated/@root="2.16.840.1.113883.10.20.22.4.42"]/templated/@extension="2014-06-09"/consumable/manufactureProduct/manufactureMaterial/code	Medications Section	Planned Medication Activity (V2)	Continued medication: substanceAdministration/effectiveTime/low <= encounter date New medication: substanceAdministration/effectiveTime/low >= encounter date
Type of Anesthesia administered	//substanceAdministration[templated/@root="2.16.840.1.113883.10.20.22.4.16"]/templated/@extension="2014-06-09"/consumable/manufactureProduct/manufactureMaterial/code	Medications Section	Medication Activity (V2)	Code would be a type of anesthesia
Supplied/Administered Immunization	//substanceAdministration[templated/@root="2.16.840.1.113883.10.20.22.4.52"]/templated/@extension="2014-06-09"/consumable/manufactureProduct/manufactureMaterial/code	Immunizations Section	Immunization Activity (V2)	Continued immunization: substanceAdministration/effectiveTime/low <= encounter date New immunization: substanceAdministration/effectiveTime/low >= encounter date
Ordered Immunization	//substanceAdministration[templated/@root="2.16.840.1.113883.10.20.22.4.120"]/templated/@extension="2014-06-09"/consumable/manufactureProduct/manufactureMaterial/code	Immunizations Section	Planned Immunization Activity (V2)	Continued medication: substanceAdministration/effectiveTime/low <= encounter date New medication: substanceAdministration/effectiveTime/low >= encounter date
Tobacco Use	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.85"]/templated/@extension="2014-06-09"/value	Patient Information Section (V3)	Tobacco Use (V2)	
Smoking Status	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.78"]/templated/@extension="2014-06-09"/value	Patient Information Section (V3)	Smoking Status - Meaningful Use (V2)	
Is Female Pregnant	//observation[templated/@root="2.16.840.1.113883.10.20.15.1.8"]/value	Patient Information Section (V3)	Pregnancy Observation	
Estimated Date of Delivery	//observation[templated/@root="2.16.840.1.113883.10.20.15.1.1"]/value	Patient Information Section (V3)	Estimated Date of Delivery	
Patient Asthmatic	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Problem (Diagnosis/Symptom/Condition Observation (V2)	
Vital sign - Height	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@code="8302-2"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	value/@value=>numeric value->value/@unit=>unit of measurement->value/@value=>numeric value->value/@unit=>unit of measurement->
Vital sign - Weight	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@code="3141-9"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	value/@value=>numeric value->value/@unit=>unit of measurement->value/@value=>numeric value->value/@unit=>unit of measurement->
Vital sign - Temperature	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@code="8310-5"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	value/@value=>numeric value->value/@unit=>unit of measurement->value/@value=>numeric value->value/@unit=>unit of measurement->
Vital sign - Blood Pressure - Systolic	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@code="8480-6"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	value/@value=>numeric value->value/@unit=>unit of measurement->value/@value=>numeric value->value/@unit=>unit of measurement->
Vital sign - Blood Pressure - Diastolic	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@code="8462-4"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	value/@value=>numeric value->value/@unit=>unit of measurement->value/@value=>numeric value->value/@unit=>unit of measurement->
Vital signs - others	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	code contains the vital sign being measured
Operations on arrival and last taken	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/value	Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)	Use date to get the two values
Historical Labs	//observation[templated/@root="2.16.840.1.113883.10.20.22.4.27"]/templated/@extension="2014-06-09"/code/@displayName	Results Section (Entries Optional)	Result Observation (V2)	Use date to get historical labs
If injury, intentionality	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.17"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Injury or Poisoning Observation (V2)	
If injury, cause	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.17"]/templated/@extension="2015-04-01"/entryRelationship/observation[templated/@root="2.16.840.1.113883.10.20.34.3.27"]/value	Problems Section (V3)	Injury or Poisoning Observation (V2)/Cause of Injury, Poisoning or Adverse Effect	
Symptom(s) present during or after surgery/procedure	//observation[templated/@root="2.16.840.1.113883.10.20.34.3.1"]/templated/@extension="2015-04-01"/value	Problems Section (V3)	Problem (Diagnosis/Symptom/Condition Observation (V2)	Use date to find inclusion in this set