

Appendix G - NHCS EHR Variable List

Data Item

Patient First Given Name

Patient Second Given Name (middle name)

Patient Surname (last name)

Patient Generational Suffix (eg Jr, Sr)

Patient Address 1

Patient Address 2

Patient City

Patient State

Patient Zip

Patient SSN

Patient Medicare number

Patient's medical record number

Patient Date of Birth

Patient Sex

Patient Race

Patient Ethnicity

Patient Marital Status

Patient Residence Type

NPI of physicians

Types of care providers seen (including attending, resident, intern, N.P., P. A., consulting, specialist(s), Nurse, mental health providers, social workers)

Encounter Number

Date/Time of admission/visit/arrival

Date/Time of departure/discharge

Expected source(s) of payment

Priority of Admission

Point of Origin

ICU, NICU, or CCU number of days of care

Discharge disposition

Admission Diagnosis

Diagnosis

Primary Diagnosis

Active Problems

Problems the patient has (all others besides asthma)
(Co-morbid conditions)

Adverse effect of medical treatment

Present on Admission

Lab Tests - Test Name

Lab Tests - Test Code

Lab Tests - Test Datetime

Lab Test - Quantitative Result

Lab Test - Qualitative Result

Provided: Examinations

Provided: Blood Tests

Provided: Imaging Services

Appendix G - NHCS EHR Variable List

Provided: Other tests and Procedures (except Excision of tissue, biopsy)

Provided: Excision of tissue, biopsy

Provided: Non-medication Tx

Provided: Health Education/Counselling

Ordered: Examinations

Ordered: Blood Tests

Ordered: Imaging Services

Ordered: Other tests and Procedures (except Excision of tissue, biopsy)

Ordered: Excision of tissue, biopsy

Ordered: Non-medication Tx

Ordered: Health Education/Counselling

Procedures using CPT and HCPCS CODES

Supplied/Administered Medication

Ordered Medication

Supplied/Administered Immunization

Ordered Immunization

Is Female Pregnant

Estimated Date of Delivery

Patient Asthmatic

Vital sign - Height

Vital sign - Weight

Vital sign - Temperature

Vital sign - Blood Pressure - Systolic

Vital sign - Blood Pressure - Diastolic

Vital sign - others

Appendix G - NHCS EHR Variable List

Xpath

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Any of the Admission Diagnosis, Diagnosis or Primary Diagnosis where there is no effectiveTime/high

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Appendix G - NHCS EHR Variable List

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Appendix G - NHCS EHR Variable List

Comments

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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.

Continued medication:
substanceAdministration/effectiveTime/low <
encounter date
New medication:
substanceAdministration/effectiveTime/low >=
encounter date

Continued medication:
substanceAdministration/effectiveTime/low <
encounter date
New medication:
substanceAdministration/effectiveTime/low >=
encounter date

Continued immunization:
substanceAdministration/effectiveTime/low <
encounter date
New immunization:
substanceAdministration/effectiveTime/low >=
encounter date

Continued medication:
substanceAdministration/effectiveTime/low <
encounter date
New medication:
substanceAdministration/effectiveTime/low >=
encounter date

value/@value=<numeric value>
value/@unit=<unit of measurement>

value/@value=<numeric value>
value/@unit=<unit of measurement>

value/@value=<numeric value>
value/@unit=<unit of measurement>

value/@value=<numeric value>
value/@unit=<unit of measurement>

value/@value=<numeric value>
value/@unit=<unit of measurement>

code contains the vital sign being measured
value contains the measurement
value/@value=<numeric value>
value/@unit=<unit of measurement>

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Patient Second Given Name (middle name)

Patient Surname (last name)

Patient Generational Suffix (eg Jr, Sr)

Patient Address 1

Patient Address 2

Patient City

Patient State

Patient Zip

Patient SSN

Patient Medicare number

Patient's medical record number

Patient Date of Birth

Patient Sex

Patient Race

Patient Ethnicity

Patient Marital Status

Patient Residence Type

Type of clinic/location where visit occurred (family practice, cardiology, etc.)

Has patient been seen in clinic/location before

If yes, how many visits in previous 12 months (excluding this visit)

NPI of physicians

Types of care providers seen (including attending, resident, intern, N.P., P. A., consulting, specialist(s), Nurse, mental health providers, social workers)

Anesthesia Provider Type

Seen by PCP

Source of referral

Encounter Number

Date/Time of admission/visit/arrival

Date/Time of departure/discharge

Expected source(s) of payment

Is this visit for a new problem, chronic problem (routine or flare-up), preventive care, pre-/post-surgery, surgery/procedure

Initial or follow-up visit?

Discharge disposition

Did someone attempt to follow-up with this patient within 24-hours after this surgery

If follow-up attempt was made, what was learned?

Reason for Visit (Patient)

Reason for Visit (Patient)

Diagnosis

Primary Diagnosis

Active Problems

Problems the patient has (all others besides asthma) (Co-morbid conditions)

Adverse effect of medical treatment

Lab Tests - Test Name

Appendix G - NHCS EHR Variable List

Lab Tests - Test Code

Lab Tests - Test Datetime

Lab Test - Quantitative Result

Lab Test - Qualitative Result

Provided: Examinations

Provided: Blood Tests

Provided: Imaging Services

Provided: Other tests and Procedures (except Excision of tissue, biopsy)

Provided: Excision of tissue, biopsy

Provided: Non-medication Tx

Provided: Health Education/Counselling

Ordered: Examinations

Ordered: Blood Tests

Ordered: Imaging Services

Ordered: Other tests and Procedures (except Excision of tissue, biopsy)

Ordered: Excision of tissue, biopsy

Ordered: Non-medication Tx

Ordered: Health Education/Counselling

Procedures using CPT and HCPCS CODES

Supplied/Administered Medication

Ordered Medication

Type(s) of Anesthesia administered

Supplied/Administered Immunization

Ordered Immunization

Tobacco Use

Smoking Status

Is Female Pregnant

Estimated Date of Delivery

Patient Asthmatic

Vital sign - Height

Vital sign - Weight

Vital sign - Temperature

Appendix G - NHCS EHR Variable List

Vital sign - Blood Pressure - Systolic

Vital sign - Blood Pressure - Diastolic

Vital sign - others

Temperature on arrival and last taken

Historical Labs

If injury, intentionality

If injury, cause

Symptoms(s) present during or after
surgery/procedure

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Xpath

/ClinicalDocument/recordTarget/patientRole/patient/name/given
/ClinicalDocument/recordTarget/patientRole/patient/name/given[2]
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Any of the Admission Diagnosis, Diagnosis or Primary Diagnosis where there is no effectiveTime/high

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Appendix G - NHCS EHR Variable List

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Appendix G - NHCS EHR Variable List

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Appendix G - NHCS EHR Variable List

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Results Section (Entries Optional)	Result Observation (V2)
Results Section (Entries Optional)	Result Observation (V2)
Results Section (Entries Optional)	Result Observation (V2)
Services and Procedures Section	Provided Service Observation
Services and Procedures Section	Provided Service Observation
Services and Procedures Section	Provided Service Observation
Services and Procedures Section	Provided Service Act
Services and Procedures Section	Provided Service Procedure
Services and Procedures Section	Provided Service Act
Services and Procedures Section	Provided Service Act
Services and Procedures Section	Ordered Service Observation
Services and Procedures Section	Ordered Service Observation
Services and Procedures Section	Ordered Service Observation
Services and Procedures Section	Ordered Service Act
Services and Procedures Section	Ordered Service Procedure
Services and Procedures Section	Ordered Service Act
Services and Procedures Section	Ordered Service Act
Services and Procedures Section	Provided Service Act OR Provided Service Observation OR Provided Service Procedure
Medications Section	Medication Activity (V2)
Medications Section	Planned Medication Activity (V2)
Medications Section	Medication Activity (V2)
Immunizations Section	Immunization Activity (V2)
Immunizations Section	Planned Immunization Activity (V2)
Patient Information Section (V3)	Tobacco Use (V2)
Patient Information Section (V3)	Smoking Status - Meaningful Use (V2)
Patient Information Section (V3)	Pregnancy Observation
Patient Information Section (V3)	Estimated Date of Delivery
Problems Section (V3)	Problem/Diagnosis/Symptom/Condition Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)

Appendix G - NHCS EHR Variable List

Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Vital Signs Section (entries required) (V2)	Vital Sign Observation (V2)
Results Section (Entries Optional)	Result Observation (V2)
Problems Section (V3)	Injury or Poisoning Observation (V2)
Problems Section (V3)	Injury or Poisoning Observation (V2)/Cause of Injury, Poisoning or Adverse Effect
Problems Section (V3)	Problem/Diagnosis/Symptom/Condition Observation (V2)

Appendix G - NHCS EHR Variable List

Comments

Value contains the number of visits

Will be a code representing an anesthesia provider

Free text
Coded

Appendix G - NHCS EHR Variable List

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.

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Code would be a type of anesthesia

Continued immunization:
substanceAdministration/effectiveTime/low
< encounter date
New immunization:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>

Appendix G - NHCS EHR Variable List

value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>

code contains the vital sign being measured
value contains the measurement
value/@value=<numeric value>
value/@unit=<unit of measurement>

Use date to get the two values
Use date to get historical labs

Use date to find inclusion in this set

Appendix G - NHCS EHR Variable List

Data Item

Patient First Given Name

Patient Second Given Name (middle name)

Patient Surname (last name)

Patient Generational Suffix (eg Jr, Sr)

Patient Address 1

Patient Address 2

Patient City

Patient State

Patient Zip

Patient SSN

Patient Medicare number

Patient's medical record number

Patient Date of Birth

Patient Sex

Patient Race

Patient Ethnicity

Patient Marital Status

Patient Residence Type

NPI of physicians

Types of care providers seen (including attending, resident, intern, N.P., P. A., consulting, specialist(s), Nurse, mental health providers, social workers)

Date/Time of admission/visit/arrival

Date/Time of provider contact

Date/Time of departure/discharge

Date/Time bed requested for hospital admission order or transfer

Expected source(s) of payment

Triage System

Triage Level

Mode of Arrival

Point of Origin

Initial or follow-up visit?

Was this patient seen in this ED and discharged in the prior 72 hours?

Discharge disposition

If admitted to observation unit, Dates and times (ED discharge/observation unit admission)

If admitted to observation unit, Dates and times (observation unit discharge)

If admitted to hospital, Specialty of admitting physician (e.g. hospitalist)

If admitted to hospital, Type of unit admitted to

If admitted to hospital, Hospital admission date

If admitted to hospital, Hospital discharge date

If admitted to hospital, Hospital discharge diagnosis

If admitted to hospital, Hospital discharge disposition

Clinician notes (e.g., physicians', nurses', P.A.s', N.P.s' and C.N.M.s' notes)

Reason for Visit (Patient)

Reason for Visit (Patient)

Diagnosis

Appendix G - NHCS EHR Variable List

Primary Diagnosis

Active Problems

Problems the patient has (all others besides asthma)
(Co-morbid conditions)

Adverse effect of medical treatment

Lab Tests - Test Name

Lab Tests - Test Code

Lab Tests - Test Datetime

Lab Test - Quantitative Result

Lab Test - Qualitative Result

Provided: Examinations

Provided: Blood Tests

Provided: Imaging Services

Provided: Other tests and Procedures (except Excision
of tissue, biopsy)

Provided: Excision of tissue, biopsy

Provided: Non-medication Tx

Provided: Health Education/Counselling

Ordered: Examinations

Ordered: Blood Tests

Ordered: Imaging Services

Ordered: Other tests and Procedures (except Excision
of tissue, biopsy)

Ordered: Excision of tissue, biopsy

Ordered: Non-medication Tx

Ordered: Health Education/Counselling

Procedures using CPT and HCPCS CODES

Supplied/Administered Medication

Ordered Medication

Supplied/Administered Immunization

Ordered Immunization

Patient Asthmatic

Pain Level

Vital sign - Height

Vital sign - Weight

Appendix G - NHCS EHR Variable List

Vital sign - Temperature

Vital sign - Blood Pressure - Systolic

Vital sign - Blood Pressure - Diastolic

Vital sign - Respiratory rate per minute

Vital sign - others

Temperature on arrival and last taken

Injury/poisoning

Cause of injury, poisoning, or adverse effect

Adverse effect of medical treatment

Medication: Given in ED

Medication: Rx at discharge

Immunization: Given in ED

Immunization: Rx at discharge

Appendix G - NHCS EHR Variable List

Xpath

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Appendix G - NHCS EHR Variable List

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Any of the Admission Diagnosis, Diagnosis or Primary Diagnosis where there is no effectiveTime/high

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OR

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OR

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Appendix G - NHCS EHR Variable List

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//substanceAdministration[templateId/@root="2.16.840.1.113883.10.20.22.4.52"]/consumable/manufacturedProduct/manufacturedMaterial/code

//substanceAdministration[templateId/@root="2.16.840.1.113883.10.20.22.4.120"]/consumable/manufacturedProduct/manufacturedMaterial/code

Appendix G - NHCS EHR Variable List

Section

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

(Header)

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(Header)

Patient Information Section (V3)

(Header)

(Header)

(Header)

(Header)

(Header)

Hospital Admission Section

Payment Sources Section

Triage Section

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

(Header)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Emergency Department Encounters Section (V2)

Reasons for Visit Section (V2)

Reasons for Visit Section (V2)

Problems Section (V3)

Appendix G - NHCS EHR Variable List

Problems Section (V3)

Problems Section (V3)

Problems Section (V3)

Problems Section (V3)

Results Section (Entries Optional)

Results Section (Entries Optional)

Results Section (Entries Optional)

Results Section (Entries Optional)

Results Section (Entries Optional)

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Services and Procedures Section

Medications Section

Medications Section

Immunizations Section

Immunizations Section

Problems Section (V3)

Triage Section

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Appendix G - NHCS EHR Variable List

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Vital Signs Section (entries required) (V2)

Diagnoses Section

Diagnoses Section

Problems Section (V3)

Medications Section

Medications Section

Immunizations Section

Immunizations Section

Appendix G - NHCS EHR Variable List

CDA Template

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

Patient Residence Observation

National Health Care Surveys (V2)

National Health Care Surveys (V2)

National Health Care Surveys (V2)

Emergency Department Encounter (NHCS-ED, NHAMCS-ED) (V3)

National Health Care Surveys (V2)

Listed for Admission to Hospital

Planned Coverage

Triage Level Observation

Current Emergency Department Visit (V2)/Transport Mode to Hospital Observation

Current Emergency Department Visit (V2)/Point of Origin Observation

Current Emergency Department Visit (V2)/Episode of Care Observation (V2)

Current Emergency Department Visit (V2)/Patient Seen in this ED in last 72 Hours and Discharged

National Health Care Surveys

Observation Unit Stay Encounter

Observation Unit Stay Encounter

Hospital Admission Encounter

Hospital Admission Encounter

Hospital Admission Encounter

Hospital Admission Encounter

Hospital Admission Encounter/Hospital Discharge Diagnosis (V2)/Problem Observation (V2)

Hospital Admission Encounter

Current Emergency Department Visit (V2)/Clinical Note and External Document Reference

Patient's Reason for Visit Observation

Problem/Diagnosis/Symptom/Condition Observation (V2)

Appendix G - NHCS EHR Variable List

Primary Diagnosis Observation (V2)

Admission Diagnosis Observation
Problem/Diagnosis/Symptom/Condition Observation (V2)
Primary Diagnosis Observation (V2)

Problem/Diagnosis/Symptom/Condition Observation (V2)

Adverse Effect of Medical Treatment

Result Observation (V2)

Result Observation (V2)

Result Observation (V2)

Result Observation (V2)

Result Observation (V2)

Provided Service Observation

Provided Service Observation

Provided Service Observation

Provided Service Act

Provided Service Procedure

Provided Service Act

Provided Service Act

Ordered Service Observation

Ordered Service Observation

Ordered Service Observation

Ordered Service Act

Ordered Service Procedure

Ordered Service Act

Ordered Service Act

Provided Service Act
OR
Provided Service Observation
OR
Provided Service Procedure

Medication Activity (V2)

Planned Medication Activity (V2)

Immunization Activity (V2)

Planned Immunization Activity (V2)

Problem/Diagnosis/Symptom/Condition Observation (V2)

Pain Assessment Scale Observation

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Appendix G - NHCS EHR Variable List

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Vital Sign Observation (V2)

Injury or Poisoning Observation

Cause of Injury, Poisoning or Adverse Effect

Adverse Effect of Medical Treatment

Medication Activity (V2)

Planned Medication Activity (V2)

Immunization Activity (V2)

Planned Immunization Activity (V2)

Appendix G - NHCS EHR Variable List

Comments

This is also the date and time the patient left the ED or observation unit

Free text
Coded

Appendix G - NHCS EHR Variable List

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.

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Continued immunization:
substanceAdministration/effectiveTime/low
< encounter date
New immunization:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>

Appendix G - NHCS EHR Variable List

value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>
value/@value=<numeric value>
value/@unit=<unit of measurement>

code contains the vital sign being measured
value contains the measurement
value/@value=<numeric value>
value/@unit=<unit of measurement>
Use date to get the two values

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date

Continued immunization:
substanceAdministration/effectiveTime/low
< encounter date
New immunization:
substanceAdministration/effectiveTime/low
>= encounter date

Continued medication:
substanceAdministration/effectiveTime/low
< encounter date
New medication:
substanceAdministration/effectiveTime/low
>= encounter date