

Primary Care: General Clinical Note - History and Physical Exam Documentation Template

Documentation Tem- plate: Conceptual Structure

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Department of Veterans Affairs (VA)



**Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)**

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Primary Care: General Clinical Note - History and Physical Exam Documentation Template: Documentation Template: Conceptual Structure

by Knowledge Based Systems (KBS), Office of Informatics and Information Governance (OIIG), and Clinical Decision Support (CDS)

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Preface

Table 1. Revision History

Date	Life Cycle Event
June 18, 2018	Published
June 1, 2018	Published
June 1, 2018	Reviewed
March 26, 2018	Created

Table 2. Clinical White Paper Contributors

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Table 3. Artifact Identifier

Domain	Artifact ID	Name
urn:va.gov:kbs:knart:artifact:r1	5e1276d7-e331-5dd6-a774-4404ab0b36d0	O33

Artifact Applicability

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code System	Code	Value Set	Value Set Version
TargetUser	Primary Care Clinical Providers	SNOMED CT	453231000124104 Primary care provider (occupation)	N/A	N/A
PatientAgeGroup	Adult outpatients	SNOMED CT	133936004 Adult (person)	N/A	N/A
ClinicalVenue	Outpatient	SNOMED CT	33022008 Hospital-based outpatient department (environment)	N/A	N/A
ClinicalVenue	Primary Care Clinic	SNOMED CT	5351000124100 Primary care clinic (environment)	N/A	N/A

Models

Table 5. Model References

Referenced Model	Description
urn:solor.io:anf-model:1.0	VA Analysis Normal Form Model

Chapter 1. External Data Definitions

Definitions

Table 1.1. DateOfBirth

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)]- -(363702006 Has focus (attribute))->[105726004 Age AND/OR growth finding (finding)]- -(363714003 Interprets (attribute))->[184099003 Date of birth (observable entity)]]

Table 1.2. TreatmentForAStressRelatedConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[277132007 Therapeutic procedure (procedure)] -(363702006 Has focus (attribute))->[47505003 Posttraumatic stress disorder (disorder)]]

Table 1.3. TreamentForAMentalHealthConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[277132007 Therapeutic procedure (procedure)] -(363702006 Has focus (attribute))->[74732009 Mental disorder (disorder)]]

Table 1.4. HistoryOfHospitalizationForAStressRelatedConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[32485007 Hospital admission (procedure)] -(363702006 Has focus (attribute))->[47505003 Posttraumatic stress disorder (disorder)]]

Table 1.5. HistoryOfHospitalizationForAMentalHealthConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[32485007 Hospital admission (procedure)] -(363702006 Has focus (attribute))->[74732009 Mental disorder (disorder)]]

Table 1.6. HistoryOfEmergencyRoomForAStressRelatedConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[50849002 Emergency room admission (procedure)] -(363702006 Has focus (attribute))->[47505003 Posttraumatic stress disorder (disorder)]]

Table 1.7. HistoryOfEmergencyRoomForAMentalHealthConcern

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[50849002 Emergency room admission (procedure)] ->(363702006 Has focus (attribute))]->[74732009 Mental disorder (disorder)]]

Table 1.8. YearsOfService

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[365549006 Finding of history relating to military service (finding)]]

Table 1.9. SeparationFromServiceDate

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[266964007 Left military service (finding)]]

Table 1.10. HasOverseasTravel

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[276030007 Travel abroad (finding)]]

Table 1.11. PhysicalAbuseHistory

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[225824003 Victim of physical abuse (finding)]]

Table 1.12. AssaultAbuseHistory

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic
Annotation:
Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[56890008 Victim of sexual aggression (finding)]]elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))]->[95923004 Victim of psychological trauma (finding)]]

Table 1.13. SystolicBloodPressure

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |Has
focus (attribute))>[163030003 |On examination - Systolic blood pressure reading (finding)]]elm:val-
ue[elm:Code]: [259018001 |Millimeter of mercury (qualifier value)]

Table 1.14. DiastolicBloodPressure

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |Has
focus (attribute))>[163031004 |On examination - Diastolic blood pressure reading (finding)]]elm:val-
ue[elm:Code]: [259018001 |Millimeter of mercury (qualifier value)]

Table 1.15. Temperature

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |
Has focus (attribute))>[105723007 |Body temperature finding (finding)]]elm:value[elm:Code]:
[258712004 |Degrees Fahrenheit (qualifier value)]

Table 1.16. HeartRateBeatsPerMinute

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |Has
focus (attribute))>[301113001 |Finding of heart rate (finding)]]elm:value[elm:Code]: [258984001 |
Breaths/minute (qualifier value)]

Table 1.17. RespiratoryRateBreathsPerMinute

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |
Has focus (attribute))>[301283003 |Finding of rate of respiration (finding)]]elm:value[elm:Code]:
[258984001 |Breaths/minute (qualifier value)]

Table 1.18. OxygenSaturation

Expression: type=elm:Query

Annotation:

Codes: elm:value[elm:Code]: [398166005 |Performed (qualifier value)]elm:value[elm:Code]:
[[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |
Has focus (attribute))>[447755005 |Finding of oxygen saturation (finding)]]elm:value[elm:Code]:
[118582008 |Percent (property) (qualifier value)]

Table 1.19. Height

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[248327008 General finding of height (finding)]]elm:value[elm:Code]: [258677007 Inch (qualifier value)]

Table 1.20. Weight

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[107647005 Weight finding (finding)]]elm:value[elm:Code]: [258693003 pounds (qualifier value)]

Table 1.21. BMI

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[301331008 Finding of body mass index (finding)]]elm:value[elm:Code]: [258896009 Kilogram/square meter (qualifier value)]

Table 1.22. WaistCircumference

Expression: type=elm:Query
Annotation:
Codes: elm:value[elm:Code]: [398166005 Performed (qualifier value)]elm:value[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[[d91d51c7-556d-4016-b0a0-3ffdf8dbd9f6 Finding of waist circumference (find- ing)]]elm:value[elm:Code]: [258672001 Centimeter (qualifier value)]

Triggers

No trigger definitions are present.

Chapter 2. Expression Definitions

No expression definitions are present.

Chapter 3. Demographics

```
# Patient Name
prompt:
  re- String (Single)
sponse:

# Medical Record Number
prompt:
  re- Integer (Single)
sponse:

# Attending Physician
prompt:
  re- String (Single)
sponse:

# Other Current Clinical Providers?
  # prompt: Mental Health Providers
  response: String (Single)
  # prompt: Social Workers
  response: String (Single)
  # prompt: Residents (Include If Current)
  response: String (Single)
  # prompt: Other Providers
  response: String (Single)

# Date of Birth
prompt:
  re- Timestamp (Single)
sponse:
  initalValue: DateOfBirth

# Sex
prompt:
  re- Code (Single)
sponse:

# Self-Reported Gender Identity
prompt:
  re- Code (Single)
sponse:

# Race
prompt:
  re- Code (Single)
sponse:

# Ethnicity
prompt:
  re- Code (Single)
sponse:
```

Preferred Language

prompt: Preferred Language

response: Code (Single)

prompt: Translator Needed?

response: Boolean (Single)

Chapter 4. History

Visit Reason/Chief Complaint	
# prompt: Description	
response: String (Single)	
History of Present Illness	
# prompt: Details of history of present illness	
response: String (Single)	
Past Medical History	
# prompt: Past Medical History	
response: Tuple (Multiple)	
# Mental Health History	
# Are you currently seeing someone or taking medication for stress-related concerns, or for a mental health concern such as Post Traumatic Stress Disorder (PTSD)?	
# prompt: Behavioral Health Condition and Treatment History	
response: Boolean (Single)	
# Have you ever received treatment (such a as medication or counseling) for a stress-related concern, or for a mental health concern such as PTSD?	
# prompt: Behavioral Health Condition and Treatment History	
response: Boolean (Single)	
initialValue: elm:Or TreatmentForAStressRelatedConcern TreatmentForAMentalHealthConcern	
# Have you ever been to the Emergency Room or have you ever been hospitalized for a stress-related concern, or mental health concern such as PTSD?	
# prompt: Behavioral Health Condition and Treatment History	
response: Boolean (Single)	
initialValue: elm:AnyTrue	
Military History	
# Military History	
# prompt: Primary military occupation	
response: String (Single)	
# prompt: Secondary military occupation(s)	
response: String (Single)	
# prompt: Military exposure (Agent Orange, etc.)	
response: Code (Single)	
# prompt: Years of service	

	<p>response: Real (Single)</p> <p>initialValue: YearsOfService</p> <p># prompt: Separation from service date</p> <p>response: Timestamp (Single)</p> <p>initialValue: SeparationFromServiceDate</p> <p># prompt: Branch of service</p> <p>response: Code (Single)</p> <p># prompt: Overseas travel</p> <p>response: Boolean (Single)</p> <p>initialValue: HasOverseasTravel</p> <p># prompt: Conflict history</p> <p>response: String (Single)</p> <p># prompt: Additional details</p> <p>response: String (Single)</p>
Medication History	
#	Medication History
	<p># prompt: Current Prescribed Medications</p> <p>response: Tuple (Multiple)</p> <p># prompt: Current Over the Counter (OTC) Medications</p> <p>response: Tuple (Multiple)</p> <p># prompt: Recently Expired Medications</p> <p>response: Tuple (Multiple)</p>
#	Allergies and Adverse Reactions
	<p># prompt: Allergies and Adverse Reactions</p> <p>response: Tuple (Multiple)</p>
Surgical History	
	<p># prompt: Surgical Procedure</p> <p>response: Tuple (Multiple)</p> <p># prompt: Surgical Date</p> <p>response: Timestamp (Multiple)</p>
Family Medical History	
	<p># prompt: Family Medical History</p> <p>response: Tuple (Single)</p>
Preventive Services History	
	<p># prompt: Preventative Services History</p> <p>response: String (Single)</p>
Personal and Social History	
#	Living Situation/Social Support/Financial Support
	<p># prompt: Living Situation</p> <p>response: String (Single)</p>

	<p># prompt: Marital Status/Domestic Status response: Code (Single)</p> <p># prompt: Current Occupation response: String (Single)</p> <p># prompt: Level of Education response: Code (Single)</p> <p># prompt: Additional Personal, Social, and Employment History response: String (Single)</p>
# Substance Use	<p># prompt: Substance Use response: Code (Multiple)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Alcohol([a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[219006 Current drinker of alcohol (finding)])</p> <p>item: Tobacco([a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[110483000 Tobacco user (finding)])</p> <p>☞ item: Illicit drug(s)</p>
# Sexual and Abuse History	<p># prompt: Sexual Activity response: String (Single)</p> <p># prompt: Sexual Assault/Abuse History response: String (Single)</p> <p># prompt: Military Sexual Trauma History response: String (Single)</p> <p># prompt: Physical or Other Assault/Abuse History response: String (Single)</p> <p>initialValue: elm:Or PhysicalAbuseHistory AssaultAbuseHistory</p>
# Disability Rating	<p># prompt: Military Disability Rating response: Code (Single)</p>
Review of Systems	<p># prompt: Complete only relevant sections if complete H & P not intended response: Code (Multiple)</p> <p>response range: EnumerationConstraint (List)</p> <p>☞ item: Constitutional Symptoms (for example, fever, weight loss)</p> <p>☞ item: Eyes</p> <p>☞ item: Ears, nose, mouth, throat</p> <p>☞ item: Cardiovascular</p> <p>☞ item: Respiratory</p>

- ☞ item: Gastrointestinal
- ☞ item: Genitourinary
- ☞ item: Musculoskeletal
- ☞ item: Integumentary (skin and/or breast)
- ☞ item: Neurological
- ☞ item: Psychiatric
- ☞ item: Endocrine
- ☞ item: Hematologic/Lymphatic
- ☞ item: Allergic/Immunologic

Chapter 5. Screening

Screening	<p># prompt: Screening</p> <p>response: Code (Multiple)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Health Literacy</p> <p>item: Cognition</p> <p>item: Self-Reported Health Rating</p> <p>item: Nutrition/Diet</p> <p>item: Exercise/Physical Activity</p> <p>item: Alcohol Use([a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[219006 Current drinker of alcohol (finding)])</p> <p>item: Substance Use</p> <p>item: Tobacco Use([a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[110483000 Tobacco user (finding)])</p> <p>item: Consult for Depression</p> <p>item: Suicide Risk Assessment</p> <p>item: PTSD History</p> <p># prompt: Pain Level (0-10)</p> <p>response: Integer (Single)</p>
Functional Assessment	<p># prompt: Safety (Including Fall Risk, If Appropriate)</p> <p>response: Boolean (Single)</p> <p># prompt: Additional Risk Factors</p> <p>response: String (Single)</p>
Advance Directive Confirmed Accessible to Providers	<p># prompt: Yes Advance Directive Confirmed Accessible to Providers</p> <p>response: Boolean (Single)</p> <p># prompt: Additional Details</p> <p>response: String (Single)</p>

Chapter 6. Physical Examination

Vital Signs

prompt: Systolic Blood Pressure (BP) (mm Hg)
response: Integer (Single)

initialValue: SystolicBloodPressure

prompt: Diastolic BP (mm Hg)
response: Integer (Single)

initialValue: DiastolicBloodPressure

prompt: Temperature (°F)
response: Real (Single)

initialValue: Temperature

prompt: Heart rate beats per minutes (bpm)
response: Integer (Single)

initialValue: HeartRateBeatsPerMinute

prompt: Respiratory rate breaths per minute
response: Integer (Single)

initialValue: RespiratoryRateBreathsPerMinute

prompt: Oxygen saturation (%)
response: Integer (Single)

initialValue: OxygenSaturation

prompt: Height (inches)
response: Real (Single)

initialValue: Height

prompt: Weight (pounds)
response: Real (Single)

initialValue: Weight

prompt: BMI (kg/m²)
response: Real (Single)

initialValue: BMI

prompt: Waist Circumference (Centimeters)
response: Real (Single)

initialValue: WaistCircumference

Physical Exam

prompt: Physical Exam
response: Code (Multiple)
response range: EnumerationConstraint (List)
item: Head, Eyes, Ears, Nose and Throat (HEENT) Exam
item: Neck Exam
item: Cardiovascular Exam

item: Pulmonary Exam
item: Abdominal Exam
item: Genitourinary Exam
item: Extremities Exam
item: Musculoskeletal Exam
item: Skin Exam
item: Neurological Exam

Laboratory Results

prompt: Laboratory Test Results
response: Tuple (Single)

Imaging Results

prompt: Imaging Study Reports
response: Tuple (Single)
prompt: Image
response: URL (Single)

Chapter 7. Assessment and Plan

Assessment	<div># prompt: Details</div> <div>response: String (Single)</div> <div># prompt: Assessments and Plan, Including Risks and Benefits of Recommended Treatment, Discussed with Patient</div> <div>response: Boolean (Single)</div>
Plan of Treatment	<div># prompt: Plan of Treatment</div> <div>response: Code (Multiple)</div> <div>response range: EnumerationConstraint (List)</div> <div>☞ item: Preventive Services</div> <div>item: Preventive Counseling</div> <div>item: Patient Education</div> <div>item: Self-Management Education</div> <div># Medications Plan</div> <div># prompt: Current Medications</div> <div>response: Code (Multiple)</div> <div>response range: EnumerationConstraint (List)</div> <div>☞ item: Continue Medications</div> <div>☞ item: Discontinue Medications</div> <div>☞ item: Modified Medications</div> <div>☞ item: New Medications</div> <div># prompt: Other Plans</div> <div>response: String (Single)</div> <div># Consultations?</div> <div># prompt: Consultations?</div> <div>response: Boolean (Single)</div> <div># prompt: Consult specifics</div> <div>response: String (Single)</div> <div># Next Visit?</div> <div># prompt: Next Visit Date</div> <div>response: Timestamp (Single)</div>
◇ Patient Expresses Understanding and Agrees with Plan	<div>prompt:</div> <div>re- Boolean (Single)</div> <div>sponse:</div>

Chapter 8. Tabular List

Terminology Service Request (TSR) Mappings

Table 8.1. Terminology Versions

Name	Identifier	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

Table 8.2. Terminology References

System	Code	Display Text ^a	References ^b
SNOMED CT	118582008 Percent (property) (qualifier value)	Precoordinated Expression	1
SNOMED CT	133936004 Adult (person)	Adult outpatients	1
SNOMED CT	258672001 Centimeter (qualifier value)	Precoordinated Expression	1
SNOMED CT	258677007 Inch (qualifier value)	Precoordinated Expression	1
SNOMED CT	258693003 pounds (qualifier value)	Precoordinated Expression	1
SNOMED CT	258712004 Degrees Fahrenheit (qualifier value)	Precoordinated Expression	1
SNOMED CT	258896009 Kilogram/square meter (qualifier value)	Precoordinated Expression	1
SNOMED CT	258984001 Breaths/minute (qualifier value)	Precoordinated Expression	2
SNOMED CT	259018001 Millimeter of mercury (qualifier value)	Precoordinated Expression	2
SNOMED CT	33022008 Hospital-based outpatient department (environment)	Outpatient	1
SNOMED CT	398166005 Performed (qualifier value)	Precoordinated Expression	13
SNOMED CT	453231000124104 Primary care provider (occupation)	Primary Care Clinical Providers	1
SNOMED CT	5351000124100 Primary care clinic (environment)	Primary Care Clinic	1
SNOMED CT	[277132007 Therapeutic procedure (procedure)] ->(363702006 Has focus (attribute))->[47505003	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	Posttraumatic stress disorder (disorder)]		
SNOMED CT	[277132007 Therapeutic procedure (procedure)] - >(363702006 Has focus (attribute))->[74732009 Mental disorder (disorder)]	Postcoordinated Expression	1
SNOMED CT	[32485007 Hospital admission (procedure)] - >(363702006 Has focus (attribute))->[47505003 Posttraumatic stress disorder (disorder)]	Postcoordinated Expression	1
SNOMED CT	[32485007 Hospital admission (procedure)] - >(363702006 Has focus (attribute))->[74732009 Mental disorder (disorder)]	Postcoordinated Expression	1
SNOMED CT	[50849002 Emergency room admission (procedure)] - >(363702006 Has focus (attribute))->[47505003 Posttraumatic stress disorder (disorder)]	Postcoordinated Expression	1
SNOMED CT	[50849002 Emergency room admission (procedure)] - >(363702006 Has focus (attribute))->[74732009 Mental disorder (disorder)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[105723007 Body temperature finding (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[107647005 Weight finding (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation proce-	Tobacco	2

System	Code	Display Text ^a	References ^b
	dure (procedure)] - >(363702006 Has focus (attribute))->[110483000 Tobacco user (finding)]		
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] - >(363702006 Has focus (attribute))->[163030003 On examination - Sys- tolic blood pressure read- ing (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] - >(363702006 Has focus (attribute))->[163031004 On examination - Dias- tolic blood pressure read- ing (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] - >(363702006 Has focus (attribute))->[219006 Current drinker of alcohol (finding)]	Alcohol	2
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] - >(363702006 Has focus (attribute))->[225824003 Victim of physical abuse (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] - >(363702006 Has focus (attribute))->[248327008 General finding of height (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)] -	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	>(363702006 Has focus (attribute))->[266964007 Left military service (finding)]		
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[276030007 Travel abroad (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[301113001 Finding of heart rate (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[301283003 Finding of rate of respiration (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[301331008 Finding of body mass index (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[365549006 Finding of history relating to military service (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[447755005	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	Finding of oxygen saturation (finding)]		
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[56890008 Victim of sexual aggression (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] - >(363702006 Has focus (attribute))->[95923004 Victim of psychological trauma (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[[d91d51c7-556d-4016-b0a0-3ffdf8dbd9f6 Finding of waist circumference (finding)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)]- - >(363702006 Has focus (attribute))->[105726004 Age AND/OR growth finding (finding)]- - >(363714003 Interprets (attribute))->[184099003 Date of birth (observable entity)]	Postcoordinated Expression	1

^aIf a code is used multiple times in the KNART, only the display text of the first instance is shown.

^bCount of the number of times the given code system and code pair is used in the KNART.

Chapter 9. Behavior Symbols

Table 9.1. Group Organizational Behavior

Sym- bol	Name	Definition
#	Sentence Group	A group of related alternative actions is a sentence group if the item referenced by the action is the same in all the actions, and each action simply constitutes a different variation on how to specify the details for that item. For example, two actions that could be in a SentenceGroup are "aspirin, 500 mg, 2 times per day" and "aspirin, 300 mg, 3 times per day". In both cases, aspirin is the item referenced by the action, and the two actions represent two different options for how aspirin might be ordered for the patient. Note that a SentenceGroup would almost always have an associated selection behavior of "AtMostOne", unless it's a required action, in which case, it would be "ExactlyOne".
#	Logical Group	A group with this behavior logically groups its sub-elements, and may be shown as a visual group to the end user, but it is not required to do so.
➤	Visual Group	Any group marked with this behavior should be displayed as a visual group to the end user.

Table 9.2. Group Selection Behavior

Sym- bol	Name	Definition
#	Any	Any number of the items in the group may be chosen, from zero to all.
#	All	All the items in the group must be selected as a single unit.
#	AllOrNone	All the items in the group are meant to be chosen as a single unit: either all must be selected by the end user, or none may be selected.
#	ExactlyOne	The end user must choose one and only one of the selectable items in the group. The user may not choose none of the items in the group.
★	AtMostOne	The end user may choose zero or at most one of the items in the group.
✱	OneOrMore	The end user must choose a minimum of one, and as many additional as desired.

Table 9.3. Required Behavior

Sym- bol	Name	Definition
◆	Must	An action with this behavior must be included in the actions processed by the end user; the end user may not choose not to include this action.

Sym- bol	Name	Definition
◇	Could	An action with this behavior may be included in the set of actions processed by the end user.
➤	MustUnlessDocumented	An action with this behavior must be included in the set of actions processed by the end user, unless the end user provides documentation as to why the action was not included.

Table 9.4. Precheck Behavior

Sym- bol	Name	Definition
▲	Yes	An action with this behavior is one of the most frequent actions that is, or should be, included by an end user, for the particular context in which the action occurs. The system displaying the action to the end user should consider "pre-checking" such an action as a convenience for the user.
#	No	An action with this behavior is one of the less frequent actions included by the end user, for the particular context in which the action occurs. The system displaying the actions to the end user would typically not "pre-check" such an action.

Table 9.5. Cardinality Behavior

Sym- bol	Name	Definition
◆	Single	An action with this behavior may only be completed once.
❖	Multiple	An action with this behavior may be repeated multiple times.

Table 9.6. Item Flags

Sym- bol	Name	Definition
☞	fillIn	This item, in a list entry, allows the user to enter a fill in value that is not present in the set of presented choices.

Table 9.7. Read Only Behavior

Sym- bol	Name	Definition
#	true	For a particular action or action group, specifies whether the elements are read only.

Appendix A. References

This appendix contains the list of related resources and supporting documents used in creating this KNART.

List of References

Related Resources

[CCWP] *Primary Care: General Clinical Note - History and Physical Exam Clinical Content White Paper*

[CSD] *Primary Care: General Clinical Note - History and Physical Exam Documentation Template Conceptual Structure Document*

[KVRpt] *Primary Care: General Clinical Note - History and Physical Exam Documentation Template KNART Validation Report*

[URL] *The Hartford Institute for Geriatric Nursing, New York University, College of Nursing. Katz Index of ADLs and Lawton-Brody Instrumental Activities of Daily Living Scale. Try This: Best Practices in Nursing Care to Older Adults. 2007(23).* (link [https://clas.uiowa.edu/socialwork/sites/clas.uiowa.edu.socialwork/files/NursingHomeResource/documents/Katz%20ADL_LawtonIADL.pdf])

Supporting Evidence

[Denny 2008] Denny JC, Miller RA, Johnson KB, Spickard A. *Development and evaluation of a clinical note section header terminology.* AMIA Annu Symp Proc 2008. 2008;:156-160 (link [<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2656032/#>])

[Goetzel 2011] Goetzel RZ, Staley P, Ogden L, et al. *U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. A framework for patient-centered health risk assessments – providing health promotion and disease prevention services to Medicare beneficiaries. Centers for Disease Control and Prevention Website. Published 2011 Accessed August 29, 2017* (link [<https://www.cdc.gov/policy/hst/hra/frameworkforhra.pdf>])

[VA 2017a] *National Center for Health Promotion and Disease Prevention. Get Recommended Screening Tests and Immunizations for Men. Accessed August 29, 2017* (link [https://www.prevention.va.gov/Healthy_Living/Get_Recommended_Screening_Tests_and_Immunizations_for_Men.asp])

[VA 2017b] *Get Recommended Screening Tests and Immunizations for Women. National Center for Health Promotion and Disease Prevention. Accessed August 29, 2017* (link [https://www.prevention.va.gov/Healthy_Living/Get_Recommended_Screening_Tests_and_Immunizations_for_Women.asp])

[Section4103ofACA] *Medicare coverage and payment of the annual wellness visit providing a personalized prevention plan under Medicare Part B. FedRegist. 2011;76(228):42 CFR §410, §414, §415, and §495.* (link [<https://www.ecfr.gov/cgi-bin/text-idx?SID=fba3a01d98c4f85620f655426db549f5&mc=true&tpl=/ecfrbrowse/Title42/42chapterIV.tpl>])

[VA 2017c] *VA/DoD Clinical Practice Guideline for Opioid Therapy for Chronic Pain. The Opioid Therapy for Chronic Pain Work Group. Published February 2017* (link [<https://www.healthquality.va.gov/guidelines/Pain/cot/VADoDOTCPG022717.pdf>])

[USPSTF 2017] *USPSTF A and B Recommendations. U.S. Preventive Services Task Force. Updated April 2017* (link [https://www.uspreventiveservicestaskforce.org/Page/Name/uspstf-a-and-b-recommendations/])