Mental Health: Consult for Depression Documentation Template

Documentation Template: Conceptual Structure

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Department of Veterans Affairs (VA)

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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
May 31, 2018	Published
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April 11, 2018	Pre-published
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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	414c5942-f0d3-56af-83e9-85a02016460a	B46

Artifact Applicability

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code System	Code	Value Set	Value Set Version
TargetUser	Primary Care Providers	SNOMED CT	453231000124104 |Primary care provider (occupation)|	N/A	N/A
TargetUser	Mental Health Providers embedded in primary care practice settings			N/A	N/A
PatientAgeGroup	Adult patients	SNOMED CT	133936004 |Adult (person)|	N/A	N/A
ClinicalFocus	Adult outpatients identified as requiring evaluation or treatment for depression			N/A	N/A
ClinicalVenue	Outpatient	SNOMED CT	33022008 |Hospital-based outpatient department (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. PHQ9ScoresInLastYear

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic, dateProperty=dateTime
Annotation:
Codes:
dateRange[elm:Interval]   low: elm:Add(elm:Today() elm:Quantity(-1 Year))   high: elm:Today()

Table 1.2. PHQ9Scores

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))->[365856005 |Screening finding (finding)]- (363714003 |Interprets (attribute))->[720433000 |Patient Health Questionnaire Nine Item score (observable entity)];]elm:value[elm:Code]: [260299005 |Number (qualifier value)|]

Triggers

No trigger definitions are present.

Chapter 2. Expression Definitions

No expression definitions are present.

Chapter 3. Screening Mental Health Evaluation

#	Patient Health Questionnaire-Plus (PHQ-plus)		
	#	Patient Health Questionnaire-plus (PHQ-plus)	
		A score of 10 is considered the threshold for mild symptoms of depression.	
		#	Over the past two weeks, how often have you been bothered by any of the following problems:
			# ◆ prompt: Little interest or pleasure in doing things?
			response: Integer (Single)
			response range: EnumerationConstraint (List)
			item: Not at all (score = 0)
			item: Several days (score = 1)
			item: More than half the days (score = 2)
			item: Nearly every day (score = 3)
			responseBinding: Property ("PHQPlus1")
			# ◆ prompt: Feeling down, depressed, or hopeless?
			response: Integer (Single)
			response range: EnumerationConstraint (List)
			item: Not at all (score = 0)
			item: Several days (score = 1)
			item: More than half the days (score = 2)
			item: Nearly every day (score = 3)
			responseBinding: Property ("PHQPlus2")
			# ◆ prompt: Trouble falling or staying asleep, or sleeping too much?
			response: Integer (Single)
			response range: EnumerationConstraint (List)
			item: Not at all (score = 0)
			item: Several days (score = 1)
			item: More than half the days (score = 2)
			item: Nearly every day (score = 3)
			responseBinding: Property ("PHQPlus3")
			# ◆ prompt: Feeling tired or having little energy?
			response: Integer (Single)
			response range: EnumerationConstraint (List)
			item: Not at all (score = 0)
			item: Several days (score = 1)
			item: More than half the days (score = 2)

item: Nearly every day (score = 3)

responseBinding: Property ("PHQPlus4")

\# ◆ prompt: Poor appetite or overeating?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: Several days (score = 1)

item: More than half the days (score = 2)

item: Nearly every day (score = 3)

responseBinding: Property ("PHQPlus5")

\# ◆ prompt: Feeling bad about yourself - or that you are a failure or have let yourself or your family down?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: Several days (score = 1)

item: More than half the days (score = 2)

item: Nearly every day (score = 3)

responseBinding: Property ("PHQPlus6")

\# ◆ prompt: Trouble concentrating on things, such as reading the newspaper or watching television?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: Several days (score = 1)

item: More than half the days (score = 2)

item: Nearly every day (score = 3)

responseBinding: Property ("PHQPlus7")

\# ◆ prompt: Moving or speaking so slowly that other people could have noticed. Or the opposite - being so fidgety or restless that you have been moving around a lot more than usual?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: Several days (score = 1)

item: More than half the days (score = 2)

item: Nearly every day (score = 3)

responseBinding: Property ("PHQPlus8")

\# ◆ prompt: Thoughts that you would be better off dead or of hurting yourself?

response: Integer (Single)

response range: EnumerationConstraint (List)

  item: Not at all (score = 0)

  item: Several days (score = 1)

  item: More than half the days (score = 2)

  item: Nearly every day (score = 3)

\# ◆ prompt: PHQ-plus total score

  A score weighting > 0 constitutes a positive result on the PHQ-plus screen.

response: Integer (Single)

responseBinding: Property ("PHQPlusScore")

initalValue: elm:Sum

\# ◆ prompt: PHQ-plus results (positive or negative)

  A positive screen is defined as either (a) a total score of 3 or more, or (b) a score above 0 on the third question (regardless of the score from the other questions).

response: Boolean (Single)

responseBinding: Property ("PHQPlusPositive")

initalValue: elm:IsTrue elm:Or(elm:GreaterOrEqual(elm:Property("PHQPlusScore") elm:Literal()) elm:Greater(elm:Property("PHQPlus3") elm:Literal()))

Condition:elm:Property

\# ◆ prompt: If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?

response: URL (Single)

response range: EnumerationConstraint (List)

  item: Not difficult at all

  item: Somewhat difficult

  item: Very difficult

  item: Extremely difficult

\# Suicide Risk

Follow VA protocol for emergency situations. Information about the Veterans Crisis Line should be provided as appropriate, including the telephone number (800.273.8255), text message support (838255), and the website (https://www.veteranscrisisline.net/)

\# prompt: The patient has a current, active suicidal ideation plan in place.

response: Boolean (Single)

responseBinding: Property ("SuicidalIdeationPlan")

Condition:elm:Property

\# Link to suicide screen

prompt: Link to suicide screen

response: URL (Single)

prompt: Additional Information
 response: String (Single)

Chapter 4. Medical History

# prompt:	Thyroid-stimulating hormone (TSH), free T4 results and dates
itemCode:	61167004 |Thyroid stimulating hormone measurement (procedure)|
itemCode:	5113004 |T4 free measurement (procedure)|
response:	Tuple (Single)
# prompt:	Additional Information
response:	String (Single)

Chapter 5. Treatment History

# prompt:	Interventions tried prior to consult request (timeframes, intensities, and providers for psychotherapy and any other interventions)
response:	String (Single)
# prompt:	Additional Information
response:	String (Single)

Chapter 6. Tabular List

Terminology Service Request (TSR) Mappings

Table 6.1. Terminology Versions

Name	Identifer	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

Table 6.2. Terminology References

System	Code	Display Text[a]	References[b]
SNOMED CT	133936004 |Adult (person)|	Adult patients	1
SNOMED CT	260299005 |Number (qualifier value)|	Precoordinated Expression	1
SNOMED CT	33022008 |Hospital-based outpatient department (environment)|	Outpatient	1
SNOMED CT	398166005 |Performed (qualifier value)|	Precoordinated Expression	1
SNOMED CT	453231000124104 |Primary care provider (occupation)|	Primary Care Providers	1
SNOMED CT	5113004 |T4 free measurement (procedure)|	Precoordinated Expression	1
SNOMED CT	61167004 |Thyroid stimulating hormone measurement (procedure)|	Precoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)]- ->(363702006 |Has focus (attribute))->[365856005 |Screening finding (finding)]- (363714003 |Interprets (attribute))->[720433000 |Patient Health Questionnaire Nine Item score (observable entity)];	Postcoordinated Expression	1

[a]If a code is used multiple times in the KNART, only the display text of the first instance is shown.

[b]Count of the number of times the given code system and code pair is used in the KNART.

Chapter 7. Behavior Symbols

Table 7.1. Group Organizational Behavior

Symbol	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 7.2. Group Selection Behavior

Symbol	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 7.3. Required Behavior

Symbol	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 7.4. 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 7.5. 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 7.6. 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 7.7. 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] *Mental Health: Consult for Depression Clinical Content White Paper*

[CSD] *Mental Health: Consult for Depression Documentation Template Conceptual Structure Document*

[KVRpt] *Mental Health: Consult for Depression Documentation Template KNART Validation Report*

[PHQ-9] *Patient Health Questionnaire-9 (PHQ-9)* (link [https://www.integration.samhsa.gov/images/res/PHQ%20-%20Questions.pdf])

[VA 2018] *Veterans crisis line | suicide prevention hotline, chat & text [Internet].; 2018; cited May 23, 2018]. Available from: https://www.veteranscrisisline.net/.* (link [https://www.veteranscrisisline.net/])

Supporting Evidence

[Arrol 2010] *Arroll B, Goodyear-Smith F, Crengle S, Gunn J, Kerse N, Fishman T, Falloon K, Hatcher S. Validation of PHQ-2 and PHQ-9 to screen for major depression in the primary care population. Ann Fam Med. 2010;8(4):348-353* (link [https://doi.org/10.1370/afm.1139])

[Dundon 2011] *Dundon M, Dollar K, Schohn M, Lantinga LJ. Primary Care-Mental Health Integration Co-Located, Collaborative Care: An Operations Manual. U.S. Department of Veterans Affairs Mental Illness Research, Education and Clinical Centers (MIRECC)/Centers of Excellence (CoE) website. Updated March 2011* (link [https://www.mirecc.va.gov/cih-visn2/Documents/Clinical/MH-IPC_CCC_Operations_Manual_Version_2_1.pdf])

[Kroenke 2001] *Kroenke K, Spitzer RL, Williams JB. The PHQ-9: validity of a brief depression severity measure. J Gen Intern Med. 2001;16(9):606-613* (link [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1495268/])

[Website] *Primary Care Mental Health Integration (PCMHI): Providing Same Day Access to Mental Health. U.S. Department of Veterans Affairs Mental Illness Research, Education and Clinical Centers (MIRECC)/Centers of Excellence (CoE) website. Accessed October 5, 2017* (link [https://www.mirecc.va.gov/cih-visn2/Documents/Clinical/PCMHI_Same_Day_Access_Options_for_Implementation.pdf])

[Siu 2016] *Siu AL, Bibbins-Domingo K, Grossman DC, et al. US Preventive Services Task Force (USPSTF). Screening for Depression in Adults: US Preventive Services Task Force Recommendation Statement. JAMA. 2016;315(4):380-387* (link [https://doi.org/10.1001/jama.2015.18392])

[Thibault 2004] *Thibalut JM, Steiner RW. Efficient identification of adults with depression and dementia. Ann Fam Physician. 2004;70(6):1101-1110* (link [https://www.ncbi.nlm.nih.gov/pubmed/15456119])