

# **Mental Health: Consult for Depression Documentation Template**

## **Documentation Tem- plate: Conceptual Structure**

**Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007, CLIN0005AF**

**Department of Veterans Affairs (VA)**



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

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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
May 31, 2018	Published
May 30, 2018	Reviewed
April 11, 2018	Pre-published
April 11, 2018	Created

**Table 2. Clinical White Paper Contributors**

Name	Role	Affiliation
William Becker, MD	Author	Internist West Haven ,CT
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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

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# 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

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# Models

**Table 5. Model References**

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

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# 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 (at- tribute))->[720433000  Patient Health Questionnaire Nine Item score (observable entity)];elm:val- ue[elm:Code]: [260299005  Number (qualifier value)]

## Triggers

No trigger definitions are present.



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# Chapter 2. Expression Definitions

No expression definitions are present.

# Chapter 3. Screening Mental Health Evaluation

<input type="checkbox"/> Patient Health Questionnaire-Plus (PHQ-plus)	<div> <input type="checkbox"/> Patient Health Questionnaire-plus (PHQ-plus)         </div> <div>           A score of 10 is considered the threshold for mild symptoms of depression.         </div> <div> <input type="checkbox"/> Over the past two weeks, how often have you been bothered by any of the following problems:         </div> <div> <input type="checkbox"/> ♦ prompt: Little interest or pleasure in doing things?         </div> <div>           response: Integer (Single)         </div> <div>           response range: EnumerationConstraint (List)         </div> <div>           item: Not at all (score = 0)         </div> <div>           item: Several days (score = 1)         </div> <div>           item: More than half the days (score = 2)         </div> <div>           item: Nearly every day (score = 3)         </div> <div> <b>responseBinding:</b> Property ("PHQPlus1")         </div> <div> <input type="checkbox"/> ♦ prompt: Feeling down, depressed, or hopeless?         </div> <div>           response: Integer (Single)         </div> <div>           response range: EnumerationConstraint (List)         </div> <div>           item: Not at all (score = 0)         </div> <div>           item: Several days (score = 1)         </div> <div>           item: More than half the days (score = 2)         </div> <div>           item: Nearly every day (score = 3)         </div> <div> <b>responseBinding:</b> Property ("PHQPlus2")         </div> <div> <input type="checkbox"/> ♦ prompt: Trouble falling or staying asleep, or sleeping too much?         </div> <div>           response: Integer (Single)         </div> <div>           response range: EnumerationConstraint (List)         </div> <div>           item: Not at all (score = 0)         </div> <div>           item: Several days (score = 1)         </div> <div>           item: More than half the days (score = 2)         </div> <div>           item: Nearly every day (score = 3)         </div> <div> <b>responseBinding:</b> Property ("PHQPlus3")         </div> <div> <input type="checkbox"/> ♦ prompt: Feeling tired or having little energy?         </div> <div>           response: Integer (Single)         </div> <div>           response range: EnumerationConstraint (List)         </div> <div>           item: Not at all (score = 0)         </div> <div>           item: Several days (score = 1)         </div> <div>           item: More than half the days (score = 2)         </div>
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		<p>item: Nearly every day (score = 3)</p> <p><b>responseBinding:</b> Property ("PHQPlus4")</p> <p><input type="checkbox"/> ♦ prompt: Poor appetite or overeating?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Not at all (score = 0)</p> <p>item: Several days (score = 1)</p> <p>item: More than half the days (score = 2)</p> <p>item: Nearly every day (score = 3)</p> <p><b>responseBinding:</b> Property ("PHQPlus5")</p> <p><input type="checkbox"/> ♦ prompt: Feeling bad about yourself - or that you are a failure or have let yourself or your family down?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Not at all (score = 0)</p> <p>item: Several days (score = 1)</p> <p>item: More than half the days (score = 2)</p> <p>item: Nearly every day (score = 3)</p> <p><b>responseBinding:</b> Property ("PHQPlus6")</p> <p><input type="checkbox"/> ♦ prompt: Trouble concentrating on things, such as reading the newspaper or watching television?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Not at all (score = 0)</p> <p>item: Several days (score = 1)</p> <p>item: More than half the days (score = 2)</p> <p>item: Nearly every day (score = 3)</p> <p><b>responseBinding:</b> Property ("PHQPlus7")</p> <p><input type="checkbox"/> ♦ 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?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Not at all (score = 0)</p> <p>item: Several days (score = 1)</p> <p>item: More than half the days (score = 2)</p> <p>item: Nearly every day (score = 3)</p> <p><b>responseBinding:</b> Property ("PHQPlus8")</p> <p><input type="checkbox"/> ♦ prompt: Thoughts that you would be better off dead or of hurting yourself?</p> <p>response: Integer (Single)</p>
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		<p>response range: EnumerationConstraint (List)</p> <p>item: Not at all (score = 0)</p> <p>item: Several days (score = 1)</p> <p>item: More than half the days (score = 2)</p> <p>item: Nearly every day (score = 3)</p> <p><input type="checkbox"/> ♦ prompt: PHQ-plus total score</p> <p>A score weighting &gt; 0 constitutes a positive result on the PHQ-plus screen.</p> <p>response: Integer (Single)</p> <p><b>responseBinding:</b> Property ("PHQPlusScore")</p> <p><b>initialValue:</b> elm:Sum</p> <p><input type="checkbox"/> ♦ prompt: PHQ-plus results (positive or negative)</p> <p>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).</p> <p>response: Boolean (Single)</p> <p><b>responseBinding:</b> Property ("PHQPlusPositive")</p> <p><b>initialValue:</b> elm:IsTrue elm:Or( elm:GreaterOrEqual( elm:Property("PHQPlusScore") elm:Literal()) elm:Greater( elm:Property("PHQPlus3") elm:Literal()))</p> <p><b>Condition:</b>elm:Property</p> <p><input type="checkbox"/> ♦ 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?</p> <p>response: URL (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Not difficult at all</p> <p>item: Somewhat difficult</p> <p>item: Very difficult</p> <p>item: Extremely difficult</p>
<input type="checkbox"/>	Suicide Risk	<p>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 (<a href="https://www.veteranscrisisline.net/">https://www.veteranscrisisline.net/</a>)</p> <hr/> <p><input type="checkbox"/> prompt: The patient has a current, active suicidal ideation plan in place.</p> <p>response: Boolean (Single)</p> <p><b>responseBinding:</b> Property ("SuicidalIdeationPlan")</p> <p><b>Condition:</b>elm:Property</p> <p><input type="checkbox"/> Link to suicide screen</p> <p>prompt: Link to suicide screen</p> <p>response: URL (Single)</p>

	<input type="checkbox"/> prompt: Additional Information response: String (Single)
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# 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)

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# 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)

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# Chapter 6. Tabular List

## *Terminology Service Request (TSR) Mappings*

**Table 6.1. Terminology Versions**

Name	Identifier	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

**Table 6.2. Terminology References**

System	Code	Display Text <sup>a</sup>	References <sup>b</sup>
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	[a997cc03-3e99-40e-b-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

<sup>a</sup>If a code is used multiple times in the KNART, only the display text of the first instance is shown.

<sup>b</sup>Count of the number of times the given code system and code pair is used in the KNART.



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# Chapter 7. Behavior Symbols

**Table 7.1. 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 7.2. 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 7.3. 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 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.

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# 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](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](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] *Thibault 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>])