Mental Health: Homelessness Documentation Template

Documentation Template: Conceptual Structure

Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007, CLIN0005AE

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
April 24, 2018	Published
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Table 2. Clinical White Paper Contributors

Name	Role	Affiliation
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Table 3. Artifact Identifier

Domain	Artifact ID	Name
urn:va.gov:kbs:knart:artifact:r1	e9531500-5e74-5d9a-9360-c417a36a5197	B48

Artifact Applicability

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code System	Code	Value Set	Value Set Version
TargetUser	Mental Health Providers; Primary Care Providers (PCPs)			N/A	N/A
PatientAgeGroup	All patients			N/A	N/A
ClinicalFocus	Routine			N/A	N/A
WorkflowSetting	Mental Health; Primary Care			N/A	N/A
ClinicalVenue	All locations			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

No external data expression definitions and no trigger definitions are present.

Chapter 2. Expression Definitions

No expression definitions are present.

Chapter 3. Screening

All Veterans should be screened for homelessness (and near-future risk) annually, unless the Veteran is a long-term resident of a nursing home/long-term care facility

Homelessness Screening:

✦ prompt:	Homeless screening performed?
response:	String (Single)
response range:	EnumerationConstraint (List)
item:	Homeless screen performed
item:	Homeless screen not performed

responseBinding: Property ("Homeless screen performed")

Condition:elm:Contains (elm:Property("Homeless screen performed" from: elm:ParameterRef (Responses)) elm:Literal())

Ask Patient: In the past 2 months, have you been living in stable housing? By that, we mean housing that is affordable, permanent, safe, decent, and livable.

☐ prompt:	Current housing stability
itemCode:	[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |Has focus (attribute))->[161036002 | Housing adequate (finding)]
response:	String (Single)
response range:	EnumerationConstraint (List)
item:	Yes, living in stable housing
item:	No, not living in stable housing

responseBinding: Property ("stableHousing")

☐ prompt:	Other Details
response:	String (Single)

Condition:elm:Contains (elm:Property("stableHousing" from: elm:ParameterRef (Responses)) elm:Literal())

☐ prompt:	Housing confidence
response:	String (Single)
response range:	EnumerationConstraint (List)
item:	Yes, confident in continuing to live in stable housing
item:	No, not confident in continuing to live in stable housing

responseBinding: Property ("confidentLivingInStableHousing")

☐ Where have you lived for MOST of the past 2 months?

Condition:elm:Contains (elm:Property("confidentLivingInStable-Housing" from: elm:ParameterRef (Responses)) elm:Literal())

☐ prompt:	Housing situation
response:	Code (Single)

response EnumerationConstraint (List)
   range:
   item: Apartment/house/room, no government subsidy
   item: Apartment/house/room, with government subsidy
   item: With friend/family
   item: Motel/hotel
   item: Short-term institution, such as hospital, rehab center, drug treatment center
   item: Homeless shelter
   item: Anywhere outside, such as street, vehicle, abandoned building
   item: Other
   □ prompt: Detail
   response: String (Single)

□ Ask Patient: Would you like to be referred to talk more about your housing situation?

Condition:elm:Or (elm:Contains(elm:Property("stableHousing" from: elm:ParameterRef (Responses)) elm:Literal())elm:Contains(elm:Property("confidentLivingInStableHousing" from: elm:ParameterRef (Responses)) elm:Literal()))

   □ prompt: Homelessness services referral preference
   response: String (Single)
   response EnumerationConstraint (List)
      range:
      item: Patient agrees to referral for homelessness services or assistance
      item: Patient declines referral at this time; given information for future reference

Ask Patient: What is the best way to reach you?

prompt: Contact information from patient
response: String (Single)

Homeless screen not peformed

prompt: Reason homeless screen not performed
response: String (Multiple)
response EnumerationConstraint (List)
   range:
   item: Already receiving homelessness services or assistance
   item: Long-term resident of nursing home/long-term care facility
   item: Declines screening at this time
   item: Veteran/caregiver unable to answer
   item: Other
prompt: Detail
response: String (Single)

All Veterans should be screened for food insecurity unless the Veteran is a resident of a nursing home/long-term care facility

✦ prompt:	Food insecurity screen performed?
response:	String (Single)
response range:	EnumerationConstraint (List)
item:	Food insecurity screen performed
item:	Food insecurity screen not performed

Food insecurity screen

Ask Patient "In the past 3 months, did you ever run out of food and you were not able to access more food or have the money to buy more food?

prompt:	Food availability
response:	String (Single)
response range:	EnumerationConstraint (List)
item:	Yes, food shortage and no money to buy food or access to food
item:	No food shortage

responseBinding: Property ("foodShortage")

Ask patient "Are you confident that you will continue to have enough food or money to buy food for at least the next 3 months?

Condition: elm:Contains (elm:Property("foodShortage" from: elm:ParameterRef (Responses)) elm:Literal())

prompt:	Food access confidence?
response:	Boolean (Single)
response range:	EnumerationConstraint (List)
item:	Yes, confident in continued access to food
item:	No, not confident in continued access to food

Ask Patient: Would you like to be referred to talk more about your food shortage situation?

Condition: elm:Contains (elm:Property("foodShortage" from: elm:ParameterRef (Responses)) elm:Literal())

prompt:	Food shortage referral preference
response:	String (Multiple)
response range:	EnumerationConstraint (List)
item:	Patient agrees to referral to social services
item:	Patient agrees to referral to nutrition and food services
item:	Patient declines referral at this time; given information for future reference
prompt:	Food Insecurity Screen not performed
response:	Boolean (Single)

Food insecurity screen not performed

prompt: Reasons for not performing Food Insecurity Screen

response: String (Multiple)

response range: EnumerationConstraint (List)

    item: Already receiving services or assistance to address known food insecurity issue

    item: Resident of nursing home/long-term care facility

    item: Declines screening at this time

    item: Veteran/caregiver unable to answer

    item: Other

prompt: Detail

response: String (Single)

Chapter 4. Plan

Provide homelessness educational materials	
☐ Provide link	
([VHA Homeless Website])	Homeless Veterans Website link [https://www.va.gov/homeless/index.asp]

Order consult for homeless program	
☐ prompt:	Reason for request
itemCode:	22c9bf08-1d5c-4da9-a0af-0ae4940d240f |Veterans Affairs Homeless Veterans Assistance Center consultation and report (procedure)
response:	Code (Single)
response range:	EnumerationConstraint (List)
item:	Veteran has been identified as being currently homeless or homeless within the past 2 months
item:	Veteran has been identified as being at risk of homelessness within the next 60 days
☐ prompt:	Describe in detail the Veteran's current living situation
response:	String (Single)

Order consult for social work or for nutrition and food services	
☐ prompt:	Reason for request
itemCode:	1061000205108 |Social services consultation and report (procedure)
itemCode:	c86bf351-ec7e-4310-ae35-5cfc41d3f9fe |Nutrition and food services consultation and report (procedure)
response:	Code (Single)
response range:	EnumerationConstraint (List)
item:	Veteran has been identified as having a current food shortage or a food shortage within the past 3 months
item:	Veteran has been identified as being at risk of a food shortage within the next 90 days
☐ prompt:	Describe in detail the Veteran's current food situation
response:	String (Single)
☐ prompt:	Other details
response:	String (Single)

Chapter 5. Tabular List

Terminology Service Request (TSR) Mappings

Table 5.1. Terminology Versions

Name	Identifer	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

Table 5.2. Terminology References

System	Code	Display Text	References
SNOMED CT	1061000205108 |Social services consultation and report (procedure)	Precoordinated Expression	1
SNOMED CT	22c9bf08-1d5c-4da9-a0af-0ae4940d240f |Veterans Affairs Homeless Veterans Assistance Center consultation and report (procedure)	Precoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)] ->(363702006 |Has focus (attribute))->[161036002 |Housing adequate (finding)]	Postcoordinated Expression	1
SNOMED CT	c86bf351-ec7e-4310-ae35-5cfc41d3f9fe |Nutrition and food services consultation and report (procedure)	Precoordinated Expression	1

Chapter 6. Behavior Symbols

Table 6.1. 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 6.2. 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 6.3. 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.

Symbol	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 6.4. Precheck Behavior

Symbol	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 6.5. Cardinality Behavior

Symbol	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 6.6. Item Flags

Symbol	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 6.7. Read Only Behavior

Symbol	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: Homelessness Clinical Content White Paper*

[CSD] *Mental Health: Homelessness Documentation Template Conceptual Structure Document*

[KVRpt] *Mental Health: Homelessness Documentation Template KNART Validation Report*

Supporting Evidence

[Byrne 2015] *Byrne T, Fargo JD, Montgomery AE, Roberts CB, Culhane DP, Kane V. Screening for homelessness in the Veterans Health Administration (VHA): monitoring housing stability through repeat screening. Public Health Rep. 2015;130(6):684-692* (link [https://doi.org/10.1177/003335491513000618])

[Chhabra 2018] *Chhabra M, Cusack C, Dichter M, Montgomery AE, True G. Screening for homelessness: VA provider reflections on addressing a social determinant of health. Poster presented at: Academy Health Annual Research Meeting 2017 June 25-27, 2017 Accessed January 30, 2018* (link [https://academyhealth.confex.com/academyhealth/2017arm/meetingapp.cgi/Paper/18938])

[Fargo 2017] *Fargo JD, Montgomery AE, Byrne T, Brignone E, Cusack M, Gundlapalli AV. Needles in a haystack: screening and healthcare system evidence for homelessness. Stud Health Technol Inform. 2017;235:574-578* (link [https://doi.org/10.3233/978-1-61499-753-5-574])

[Montgomery 2014] *Montgomery AE, Fargo JD, Kane V, Culhane DP. Development and validation of an instrument to assess imminent risk of homelessness among veterans. Public Health Rep. 2014;129(5):428-436* (link [https://doi.org/10.1177/003335491412900506])

[OToole 2017] *O'Toole TP, Roberts CB, Johnson EE. Screening for Food Insecurity in Six Veterans Administration Clinics for the Homeless, June-December 2015. Prev Chronic Dis. 2017;14:E04* (link [https://doi.org/10.5888/pcd14.160375])

[VA Portland] *Homeless Screening Clinical Reminder. August 31, 2017, Microsoft Word document (David Douglas, MD, provided documentation from Portland VA)* (link [https://www.va.gov/homeless/nchav/research/assessment-tools/hscr.asp])

[VHA Homeless Website] *U.S. Department of Veterans Affairs. Homeless Veterans Website. Accessed October 12, 2017* (link [https://www.va.gov/homeless/index.asp])