

# **Mental Health: Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set Rule**

## **Rule: Conceptual Structure**

**Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007, CLIN0007AA**

**Department of Veterans Affairs (VA)**



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

**Publication date 06/06/2018**

**Version: 1.0**

---

# Mental Health: Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set Rule: Rule: Conceptual Structure

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

Publication date 06/06/2018

Copyright © 2018 B3 Group, Inc.

Copyright © 2018 Cognitive Medical Systems, Inc.

## B3 Group, Inc.

### NOTICE OF GOVERNMENT COPYRIGHT LICENSE AND UNLIMITED RIGHTS LICENSE

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Portions of this content are derivative works from content produced by Cognitive Medical Systems, Inc. licensed under the Apache License, Version 2.0.

Additional portions of this content are derivative works from content contributed by Motive Medical Intelligence Inc., under Creative Commons Attribution-ShareAlike 4.0.

Contributions from 2013-2018 were performed either by US Government employees, or under US Veterans Health Administration contracts.

US Veterans Health Administration contributions by government employees are work of the U.S. Government and are not subject to copyright protection in the United States. Portions contributed by government employees are USGovWork (17USC §105). Not subject to copyright.

See: <https://www.usa.gov/government-works>

Contribution by contractors to the US Veterans Health Administration during this period are contractually contributed under the Apache License, Version 2.0 and US Government sponsorship is acknowledged under Contract VA118-16-D-1008, Task Order VA11817F10080007.

## Cognitive Medical Systems, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This and related content produced by Cognitive Medical Systems, Inc. licensed under the Apache License, Version 2.0 is available at: <https://bitbucket.org/cogmedsys/hl7-kas-examples>

Additional portions of this content are derivative works from content contributed by Motive Medical Intelligence Inc., under Creative Commons Attribution-ShareAlike 4.0. <https://bitbucket.org/cogmedsys/kas-source-material>

Contributions from 2013-2018 were performed either by US Government employees, or under US Veterans Health Administration contracts.

US Veterans Health Administration contributions by government employees are work of the U.S. Government and are not subject to copyright protection in the United States. Portions contributed by government employees are USGovWork (17USC §105). Not subject to copyright. See: <https://www.usa.gov/government-works>

Contribution by contractors to the US Veterans Health Administration during this period are contractually contributed under the Apache License, Version 2.0 and US Government sponsorship is acknowledged under Contract VA118-16-D-1008-0007.

---

---

# Table of Contents

Preface .....	v
Artifact Applicability .....	vi
Models .....	vii
1. External Data Definitions .....	1
Definitions .....	1
Triggers .....	2
2. Expression Definitions .....	3
3. Actions .....	4
4. Tabular List .....	7
5. Behavior Symbols .....	11
A. References .....	13

---

## List of Tables

1. Revision History .....	v
2. Clinical White Paper Contributors .....	v
3. Artifact Identifier .....	v
4. Applicability Foci, Description and Codes .....	vi
5. Model References .....	vii
1.1. UnexplainedFever .....	1
1.2. GIComplaints .....	1
1.3. PersistentRash .....	1
1.4. EmbeddedFragments .....	1
1.5. TBI .....	1
1.6. newPDSDocTemplate .....	2
4.1. Terminology Versions .....	7
4.2. Terminology References .....	7
5.1. Group Organizational Behavior .....	11
5.2. Group Selection Behavior .....	11
5.3. Required Behavior .....	11
5.4. Precheck Behavior .....	12
5.5. Cardinality Behavior .....	12
5.6. Item Flags .....	12
5.7. Read Only Behavior .....	12

---

# Preface

**Table 1. Revision History**

Date	Life Cycle Event
June 6, 2018	Published
June 6, 2018	Reviewed
April 27, 2018	Pre-published
April 9, 2018	Created

**Table 2. Clinical White Paper Contributors**

Name	Role	Affiliation
Rani Hoff, PhD MPH	Author	Director, Northeast Program Evaluation Center Office of Mental Health and Suicide Prevention (10NC5) VA Central Office (VACO) Professor of Psychiatry, Yale University School of Medicine
Katy Lysell, MD	Author	National Mental Health Director for Informatics Honolulu, HI 96819
Andrew Pomerantz	Author	National Mental Health Director, Integrated Care
John McCarthy	Author	Director, Serious Mental Illness Treatment Resource and Evaluation Center (SMITREC) & National PC-MHI Evaluation

**Table 3. Artifact Identifier**

Domain	Artifact ID	Name
urn:va.gov:kbs:knart:artifact:r1	8bea8573-d9ed-510e-81a2-571c850cc022	O3

---

# Artifact Applicability

**Table 4. Applicability Foci, Description and Codes**

Focus	Description	Code System	Code	Value Set	Value Set Version
TargetUser	Primary Care Provider	SNOMED CT	453231000124104  Primary care provider (occupation)	N/A	N/A
TargetUser	Mental Health Provider	SNOMED CT	310190000  Mental health counselor (occupation)	N/A	N/A
PatientAgeGroup	Adult	SNOMED CT	133936004  Adult (person)	N/A	N/A
WorkflowSetting	Outpatient			N/A	N/A
WorkflowTask	Post-deployment screening	SNOMED CT	10918624-0ba1-4f32-be0e-bf7fd0d0c-ca3  Defense force post-deployment health screening (procedure)	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. UnexplainedFever**

Expression: type=elm:Query Annotation: Affirmative response to: Unexplained fevers since serving in the area of conflict? 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))>[7520000  Pyrexia of unknown origin (finding)]]
--

**Table 1.2. GIComplaints**

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic Annotation: Affirmative response to: Chronic diarrhea or other gastrointestinal complaints since serv- ing in the area of conflict? Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observation proce- dure (procedure)] ->(363702006  Has focus (attribute))>[7520000  Pyrexia of unknown origin (find- ing)]]elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observation procedure (procedure)] ->(363702006  Has focus (attribute))>[236071009  Chronic diarrhea (disorder)]]
--

**Table 1.3. PersistentRash**

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic Annotation: Affirmative response to: Persistent papular or nodular rash since serving in the area of con- flict? Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observation proce- dure (procedure)] ->(363702006  Has focus (attribute))>[271757001  Papular eruption (disorder)]- ->(263502005  Clinical course (attribute))>[90734009  Chronic (qualifier value)];elm:elemen- t[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observation procedure (procedure)]- - >(363702006  Has focus (attribute))>[95319004  Skin nodule (finding)] ->(263502005  Clinical course (attribute))>[90734009  Chronic (qualifier value)];]
--

**Table 1.4. EmbeddedFragments**

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic Annotation: Affirmative response to: Suspected or known embedded fragments or shrapnel as a result of serving in the area of conflict? Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observation procedure (procedure)] ->(363702006  Has focus (attribute))>[219391000  War injury due to fragments from shrapnel (disorder)]]elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a  Observa- tion procedure (procedure)] ->(363702006  Has focus (attribute))>[219391000  War injury due to frag- ments from shrapnel (disorder)]]
--

**Table 1.5. TBI**

Expression: type=elm:Retrieve , dataType=anf:ClinicalStatement, codeProperty=topic Annotation: Affirmative response to: Suspected or known head injury resulting in alteration or loss of consciousness during deployment?
--



Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)]- ->(363702006 |Has focus (attribute))->[3006004 |Disturbance of consciousness (finding)]- ->(42752001 |Due to (attribute))->[82271004 |Injury of head (disorder)];elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)]- ->(363702006 |Has focus (attribute))->[419045004 |Loss of consciousness (finding)]- ->(42752001 |Due to (attribute))->[82271004 |Injury of head (disorder)];]

## Triggers

**Table 1.6. newPDSDocTemplate**

Trigger: type=DataEventTrigger, DataElementAdded  
 Expression: type=elm:Retrieve , dataType=ClinicalStatement, codeProperty=topic  
 Annotation: Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template.  
 Codes: elm:element[elm:Code]: [TSR-NoCode]

---

# Chapter 2. Expression Definitions

No expression definitions are present.

---

## Chapter 3. Actions

---

### Condition:elm:Exists (UnexplainedFever)

☆ Provide link to " General Clinical Note " documentation template KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Provide link to " Generic E-Consult " documentation template-consult request KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Display order for infectious diseases consult for unexplained fevers in the "Consults and Referrals" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Postcoordinated Expression [ef732ceb-c7fa-4c91-91d5-bbca6184db62 |Infectious disease consultation and report (procedure)] ->(363702006 |Has focus (attribute))>[7520000 |Pyrexia of unknown origin (finding)]

☆ Display order for patient education for unexplained fevers in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Postcoordinated Expression [311401005 |Patient education (procedure)] ->(363702006 |Has focus (attribute))>[7520000 |Pyrexia of unknown origin (finding)]

---

### Condition:elm:Exists (GIComplaints)

☆ Provide link to " General Clinical Note " documentation template KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Provide link to " Generic E-Consult " documentation template-consult request KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Display order for gastroenterology consult in the "Consults and Referrals" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression 50687007 |Digestive tract consultation and report (procedure)|

☆ Display order for patient education for chronic diarrhea and other gastrointestinal complaints in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Postcoordinated Expression [311401005 |Patient education (procedure)] ->(363702006 |Has focus (attribute))>[236071009 |Chronic diarrhea (disorder)]

**Condition:**elm:Exists (PersistentRash)

☆ Provide link to "General Clinical Note" documentation template KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Provide link to "Generic E-Consult" documentation template-consult request KNART.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Precoordinated Expression TSR-NoCode

☆ Display order for infectious diseases consult for persistent rash in the "Consults and Referrals" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

topic: Postcoordinated Expression [ef732ceb-c7fa-4c91-91d5-bbca6184db62 |Infectious disease consultation and report (procedure)]- ->(363702006 |Has focus (attribute))>[271807003 |Eruption of skin (disorder)]- ->(263502005 |Clinical course (attribute))>[90734009 |Chronic (qualifier value)];

☆ Display order for patient education for persistent rash in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" order set.

actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|

<p>topic: Postcoordinated Expression [311401005  Patient education (procedure)]- -(363702006  Has focus (attribute)))-&gt;[271807003  Eruption of skin (disorder)]- -(263502005  Clinical course (attribute))-&gt;[90734009  Chronic (qualifier value)];</p> <p><b>Condition:</b>elm:Exists (EmbeddedFragments)</p>	
<p>☆ Provide link to "General Clinical Note" documentation template KNART.</p> <p>actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]</p> <p>statementType: Precoordinated Expression 385644000  Requested (qualifier value) </p> <p>topic: Precoordinated Expression TSR-NoCode</p> <p>☆ Provide link to "Generic E-Consult" documentation template-consult request KNART.</p> <p>actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]</p> <p>statementType: Precoordinated Expression 385644000  Requested (qualifier value) </p> <p>topic: Precoordinated Expression TSR-NoCode</p> <p>☆ Display order for patient education for embedded fragments or shrapnel in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health – Iraq &amp; Afghanistan Post-Deployment Screen " order set.</p> <p>actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]</p> <p>statementType: Precoordinated Expression 385644000  Requested (qualifier value) </p> <p>topic: Postcoordinated Expression [311401005  Patient education (procedure)] -(363702006  Has focus (attribute)))-&gt;[219391000  War injury due to fragments from shrapnel (disorder)]</p> <p><b>Condition:</b>elm:Exists (TBI)</p>	
<p>☆ Provide link to "Neurology – TBI Screening" ECA Rule.</p> <p>actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]</p> <p>statementType: Precoordinated Expression 385644000  Requested (qualifier value) </p> <p>topic: Precoordinated Expression TSR-NoCode</p>	

---

# Chapter 4. Tabular List

## *Terminology Service Request (TSR) Mappings*

**Table 4.1. Terminology Versions**

Name	Identifier	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

**Table 4.2. Terminology References**

System	Code	Display Text <sup>a</sup>	References <sup>b</sup>
SNOMED CT	10918624-0ba1-4f32-be0e-bf7fd0d0cca3 Defense force post-deployment health screening (procedure)	Post-deployment screening	1
SNOMED CT	133936004  Adult (person)	Adult	1
SNOMED CT	310190000  Mental health counselor (occupation)	Mental Health Provider	1
SNOMED CT	385644000  Requested (qualifier value)	Precoordinated Expression	16
SNOMED CT	398166005  Performed (qualifier value)	Precoordinated Expression	1
SNOMED CT	453231000124104  Primary care provider (occupation)	Primary Care Provider	1
SNOMED CT	50687007  Digestive tract consultation and report (procedure)	Precoordinated Expression	1
SNOMED CT	TSR-NoCode <sup>c</sup>	Precoordinated Expression	10
SNOMED CT	[311401005  Patient education (procedure)] ->(363702006  Has focus (attribute)))->[219391000  War injury due to fragments from shrapnel (disorder)]	Postcoordinated Expression	1
SNOMED CT	[311401005  Patient education (procedure)] ->(363702006  Has focus (attribute)))->[236071009  Chronic diarrhea (disorder)]	Postcoordinated Expression	1
SNOMED CT	[311401005  Patient education (procedure)] ->(363702006  Has focus	Postcoordinated Expression	1

System	Code	Display Text <sup>a</sup>	References <sup>b</sup>
	(attribute)))->[7520000   Pyrexia of unknown origin (finding)]		
SNOMED CT	[311401005  Patient education (procedure)]- ->(363702006  Has focus (attribute)))->[271807003  Eruption of skin (disorder)]- -(263502005  Clinical course (attribute)))->[90734009  Chronic (qualifier value)];	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)] - ->(363702006  Has focus (attribute)))->[219391000  War injury due to fragments from shrapnel (disorder)]	Postcoordinated Expression	2
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)] - ->(363702006  Has focus (attribute)))->[236071009  Chronic diarrhea (disorder)]	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)] - ->(363702006  Has focus (attribute)))->[7520000  Pyrexia of unknown origin (finding)]	Postcoordinated Expression	2
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)]- ->(363702006  Has focus (attribute)))->[271757001  Papular eruption (disorder)]- -(263502005  Clinical course (attribute)))->[90734009  Chronic (qualifier value)];	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a	Postcoordinated Expression	1

System	Code	Display Text <sup>a</sup>	References <sup>b</sup>
	[Observation procedure (procedure)]- ->(363702006  Has focus (attribute))->[3006004  Disturbance of consciousness (finding)]- ->(42752001  Due to (attribute))->[82271004  Injury of head (disorder)];		
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)]- ->(363702006  Has focus (attribute))->[419045004  Loss of consciousness (finding)]- ->(42752001  Due to (attribute))->[82271004  Injury of head (disorder)];	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a  Observation procedure (procedure)]- ->(363702006  Has focus (attribute))->[95319004  Skin nodule (finding)]- ->(263502005  Clinical course (attribute))->[90734009  Chronic (qualifier value)];	Postcoordinated Expression	1
SNOMED CT	[ef732ceb-c7fa-4c91-91d5-bbca6184db62  Infectious disease consultation and report (procedure)] ->(363702006  Has focus (attribute))->[7520000  Pyrexia of unknown origin (finding)]	Postcoordinated Expression	1
SNOMED CT	[ef732ceb-c7fa-4c91-91d5-bbca6184db62  Infectious disease consultation and report (procedure)]- ->(363702006  Has focus (attribute))->[271807003  Eruption of skin (disorder)]- ->(263502005  Clinical course (at-	Postcoordinated Expression	1



## Tabular List

---

System	Code	Display Text <sup>a</sup>	References <sup>b</sup>
	tribute))->[90734009   Chronic (qualifier value)];		

<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.

<sup>c</sup>TSR-NoCode is a placeholder indicating a code was requested, but was not provided.

---

# Chapter 5. Behavior Symbols

**Table 5.1. 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 5.2. 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 5.3. 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 5.4. 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 5.5. 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 5.6. 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 5.7. 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: Iraq & Afghanistan Post-Deployment Screen Clinical Content White Paper*

[CSD] *Mental Health: Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set Rule Conceptual Structure Document*

[KVRpt] *Mental Health: Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set Rule KNART Validation Report*

## Supporting Evidence

[Bush 1998] Bush K, Kivlahan DR, McDonnell MB, Fihn SD, Bradley KA, et al. The AUDIT alcohol consumption questions (AUDIT-C): an effective brief screening test for problem drinking. Ambulatory Care Quality Improvement Project (ACQUIP). Alcohol Use Disorders Identification Test. Arch Intern Med. 1998 Sep 14;158(16):1789-95 (link [<https://www.ncbi.nlm.nih.gov/pubmed/9738608>])

[Committee, 2013] Committee on the Assessment of the Readjustment Needs of Military Personnel, Veterans, and Their Families; Board on the Health of Select Populations; Institute of Medicine. Returning Home from Iraq and Afghanistan: Assessment of Readjustment Needs of Veterans, Service Members, and Their Families. Washington (DC): National Academies Press (US); Mar 2013 (link [<https://www.ncbi.nlm.nih.gov/books/NBK206857>])

[DOD 2012] Department of Defense (DoD) Deployment Health Clinical Center. DoD/VA Post-Deployment Health Clinical Practice Guideline (PDH-CPG) Fact Sheet. Website. Published November 2012 (link [[https://www.qmo.amedd.army.mil/redep/PDH-CPG\\_fact\\_sheet\\_15NOV12.pdf](https://www.qmo.amedd.army.mil/redep/PDH-CPG_fact_sheet_15NOV12.pdf)])

[VHA/DOD 2012] Department of Veterans Affairs. Screening and Evaluation Protocol for Veterans with Embedded Fragments Who Served in Iraq and/or Afghanistan Post-September 11, 2001. Veterans Health Administration. Washington DC 20420. VHA Directive 1303.01. Transmittal Sheet. Published April 2017 (link [[https://www.va.gov/vhapublications/ViewPublication.asp?pub\\_ID=5372](https://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=5372)])

[VHA/DOD 2016] Department of Veterans Affairs/Department of Defense. VA/DoD Clinical Practice Guideline for the Management of Concussion-Mild Traumatic Brain Injury. Version 2.0 – 2016. VA/DoD Clinical Practice Guidelines Website. Published February 2016. (link [<https://www.healthquality.va.gov/guidelines/Rehab/mtbi/mtBICPGFullCPG50821816.pdf>])

[VHA/DOD 2015] Department of Veterans Affairs. VA/DoD Clinical Practice Guideline for the Management of Substance Use Disorders. Version 3.0 – 2015. VA/DoD Clinical Practice Guidelines Website. Published December 2015 (link [<https://www.healthquality.va.gov/guidelines/MH/sud/VADoDSUDCPGRevised22216.pdf>])