

Mental Health: Post-traumatic Stress Disorder (PTSD) Screening and Assessment Documentation Template

Documentation Template: Conceptual Structure

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

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Mental Health: Post-traumatic Stress Disorder (PTSD) Screening and Assessment 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 29, 2018	Published
June 18, 2018	Published
June 6, 2018	Published
June 5, 2018	Reviewed
March 10, 2018	Created
March 10, 2018	Pre-published

Table 2. Clinical White Paper Contributors

Name	Role	Affiliation
Rani Hoff, PhD MPH	Reviewer	Director, Northeast Program Evaluation Center Office of Mental Health and Suicide Prevention (10NC5) VA Central Office; Professor of Psychiatry, Yale University School of Medicine

Table 3. Artifact Identifier

Domain	Artifact ID	Name
urn:va.gov:kbs:knart:artifact:r1	62bfd568-9741-5d6d-b944-f66d28abc59a	O37

Artifact Applicability

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code System	Code	Value Set	Value Set Version
TargetUser	Mental Health Providers	SNOMED CT	310190000 Mental health counselor (occupation)	N/A	N/A
TargetUser	Primary Care Providers (PCPs)	SNOMED CT	453231000124104 Primary care provider (occupation)	N/A	N/A
PatientAgeGroup	All patients			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. FemaleGender

Expression: type=elm:SingletonFrom Annotation: Codes: elm:element[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[248152002 Female (finding)]]
--

Triggers

No trigger definitions are present.

Chapter 2. Expression Definitions

Table 2.1. isFemale

Expression: type=elm:Equal
Annotation:
Codes: elm:operand[elm:Code]: [[a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[248152002 Female (finding)]]

Chapter 3. Initial Screening

Primary Care Posttraumatic Stress Disorder Screen for DSM-5 (PC-PTSD-5).

The PC-PTSD-5 score is calculated by totaling the numbers following each response option below. A score of ≥ 3 on any of the five questions about how the traumatic event(s) have affected him or her over the past month is a positive result.

prompt: Ask the patient the following questions: Sometimes things happen to people that are unusually or especially frightening, horrible, or traumatic. For example: a serious accident or fire; a physical or sexual assault or abuse; an earthquake or flood; a war; seeing someone be killed or seriously injured; having a loved one die through homicide or suicide. Have you ever experienced this kind of event?

response: Boolean (Single)

responseBinding: Property ("PTSDRisk")

Condition:elm:Property

♦ prompt: In the past month, have you had nightmares about the event(s) or thought about the event(s) when you did not want to?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Yes (score = 1)

item: No (score = 0)

responseBinding: Property ("PCPTSD1")

♦ prompt: Tried hard not to think about the event(s) or went out of your way to avoid situations that reminded you of the event(s)?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Yes (score = 1)

item: No (score = 0)

responseBinding: Property ("PCPTSD2")

♦ prompt: Been constantly on guard, watchful, or easily startled?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Yes (score = 1)

item: No (score = 0)

responseBinding: Property ("PCPTSD3")

♦ prompt: Felt numb or detached from people, activities, or your surroundings?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Yes (score = 1)

item: No (score = 0)

responseBinding: Property ("PCPTSD4")

	<p># ♦ prompt: Felt guilty or unable to stop blaming yourself or others for the event(s) or any problems the event(s) may have caused?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Yes (score = 1)</p> <p>item: No (score = 0)</p> <p>responseBinding: Property ("PCPTSD5")</p> <p># prompt: PC-PTSD-5 screening score</p> <p>Total score (0-5) is number of affirmative responses. A total ≥ 3 is considered positive.</p> <p>itemCode: [a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)]- ->(363702006 Has focus (attribute))->[365856005 Screening finding (finding)]- ->(363714003 Interprets (attribute))->[42679737-748d-4564-9ffd-6801afeeef4 Primary Care Posttraumatic Stress Disorder Screen for Diagnostic and Statistical Manual of Mental Disorders score (observable entity)];</p> <p>response: Integer (Single)</p> <p>responseBinding: Property ("PCPTSDScore")</p> <p>initialValue: elm:SumTotal score (0-5) is number of affirmative responses.</p> <p># prompt: PC-PTSD-5 result</p> <p>A total ≥ 3 is considered positive.</p> <p>response: Integer (Single)</p> <p>initialValue: elm:GreaterOrEqualA total ≥ 3 is considered positive. elm:Property("PCPTSDScore") elm:Literal()</p>		
Patient Health Questionnaire-Plus (PHQ-plus)			
	<p># Patient Health Questionnaire-plus (PHQ-plus)</p> <p>Calculated by totaling the form label values (indicated by a number following each response option) for the form labels selected by the user. Note that the following form components are adapted from Kroenke 2001.</p> <table border="1"> <tr> <td>#</td><td> <p>Over the past two weeks, how often have you been bothered by any of the following problems:</p> <p># ♦ prompt: Little interest or pleasure in doing things?</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>responseBinding: Property ("PHQPlus1")</p> <p># ♦ prompt: Feeling down, depressed, or hopeless?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p> </td></tr> </table>	#	<p>Over the past two weeks, how often have you been bothered by any of the following problems:</p> <p># ♦ prompt: Little interest or pleasure in doing things?</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>responseBinding: Property ("PHQPlus1")</p> <p># ♦ prompt: Feeling down, depressed, or hopeless?</p> <p>response: Integer (Single)</p> <p>response range: EnumerationConstraint (List)</p>
#	<p>Over the past two weeks, how often have you been bothered by any of the following problems:</p> <p># ♦ prompt: Little interest or pleasure in doing things?</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>responseBinding: Property ("PHQPlus1")</p> <p># ♦ prompt: Feeling down, depressed, or hopeless?</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>responseBinding: Property ("PHQPlus2")</p> <p># ♦ prompt: Thoughts that you would be better off dead or of hurting yourself in some way?</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>responseBinding: Property ("PHQPlus3")</p> <p># ♦ prompt: PHQ-plus total score</p> <p>A score weighting > 0 constitutes a positive result on the PHQ-plus screen.</p> <p>itemCode: TSR-NoCode</p> <p>response: Integer (Single)</p> <p>responseBinding: Property ("PHQPlusScore")</p> <p>initialValue: elm:Sum</p> <p># ♦ 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>responseBinding: Property ("PHQPlusPositive")</p> <p>initialValue: elm:IsTrue elm:Or(elm:GreaterOrEqual(elm:Property("PHQPlusScore") elm:Literal()) elm:Greater(elm:Property("PHQPlus3") elm:Literal()))</p> <p>Condition:elm:And (elm:Property("PHQPlusPositive") elm:AnyTrue())</p> <p># prompt: For positive responses to depressive symptom questions consider the following:</p> <p>response: URL (Single)</p> <p>response range: EnumerationConstraint (List)</p> <p>item: Order Set: Mental Health Consult for Depression KNART</p> <p>item: Documentation Template Consult Request: Mental Health Consult for Depression KNART</p> <p>Condition:elm:And (elm:Property("PHQPlusPositive") elm:Greater(elm:Property("PHQPlus3") elm:Literal()))</p> <p># prompt: For positive responses to suicidal ideation questions consider the following:</p> <p>response: URL (Single)</p>
--	--	--

<p>response range: EnumerationConstraint (List)</p> <p>item: Documentation Template: Mental Health Suicide Risk Assessment KNART</p> <p>item: Order Set: Mental Health Positive Suicide Risk Screening KNART</p> <p>GAD-2 (Optional Screening Tool for Generalized Anxiety Disorder)</p> <p>2 item (GAD-2) screen score is calculated by totaling the numbers following each response option below; a positive screen is 3 or more.</p>
<p># prompt: Feeling nervous anxiety or on edge?</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>responseBinding: Property ("GAD1")</p> <p># prompt: Not being able to stop or control worrying?</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>responseBinding: Property ("GAD2")</p> <p># prompt: GAD-2 score</p> <p>itemCode: [a997cc03-3e99-40eb-833a-6374c7750a3a Observation procedure (procedure)]- ->[363702006 Has focus (attribute)]->[365856005 Screening finding (finding)]- ->[363714003 Interprets (attribute)]->[2a591b1f-5344-4567-a315-3bc0c3a9419b Generalized anxiety disorder 2 item scale score (observable entity)];</p> <p>response: Integer (Single)</p> <p>responseBinding: Property ("GAD2Score")</p> <p>initialValue: elm:SumGAD-2 score is sum of scores associated with each response.</p> <p># prompt: GAD-2 score result (positive or negative)</p> <p>response: Boolean (Single)</p> <p>initialValue: elm:GreaterOrEqualA GAD-2 score of 3 or greater is considered positive. elm:Property("GAD2Score") elm:Literal()</p> <p>(Optional Screening Tool) Alcohol Use Disorders Identification Test—Consumption (AUDIT-C)</p> <p>AUDIT-C score calculated based on weighting for responses below. Males with a score of 4 or more are at increased risk of harm from drinking, Females with a score of 3 or more are at increased risk of harm from drinking. Scores are calculated by totaling the numbers following each response</p>
<p># prompt: How often did you have a drink containing alcohol in the past year? Consider a drink to be a can or bottle of beer, a glass of wine, a wine cooler, or one cocktail or a shot of hard liquor (like scotch, gin, or vodka)?</p>

response: Integer (Single)

response range: EnumerationConstraint (List)

- item: Never (score = 0)
- item: Monthly or less (score = 1)
- item: 2 to 4 times a month (score = 2)
- item: 2 to 3 times a week (score = 3)
- item: 4 or more times a week (score = 4)

responseBinding: Property ("AUDITC1")

prompt: How many drinks did you have on a typical day when you were drinking in the past year?

response: Integer (Single)

response range: EnumerationConstraint (List)

- item: 0 drinks (score = 0)
- item: 1 to 2 drinks (score = 0)
- item: 3 to 4 drinks (score = 1)
- item: 5 to 6 drinks (score = 2)
- item: 7 to 9 drinks (score = 3)
- item: 10 or more drinks (score = 4)

responseBinding: Property ("AUDITC2")

prompt: How often did you have 6 or more drinks on one occasion in the past year?

response: Integer (Single)

response range: EnumerationConstraint (List)

- item: Never (score = 0)
- item: Less than monthly (score = 1)
- item: Monthly (score = 2)
- item: Weekly (score = 3)
- item: Daily or almost daily (score = 4)

responseBinding: Property ("AUDITC3")

prompt: AUDIT-C score

itemCode: [a997cc03-3e99-40eb-833a-6374c7750a3a |Observation procedure (procedure)]->(363702006 |Has focus (attribute))->[365856005 |Screening finding (finding)]->(363714003 |Interprets (attribute))->[5ff6281a-52c9-4004-9c28-dc806cc7fbf1 |Alcohol Use Disorders Identification Test C score (observable entity)];

response: Integer (Single)

responseBinding: Property ("AUDITCScore")

initialValue: elm:SumAUDIT-C score is the sum of the scores associated with each response.

prompt: AUDIT-C result

Males with a score of 4 or more are at increased risk of harm from drinking. Females with a score of 3 or more are at increased risk of harm from drinking.

response: Integer (Single)

initialValue: elm:OrMales with a score of 4 or more are at increased risk of harm from drinking. Females with a score of 3 or more are at increased risk of harm from drinking. elm:GreaterOrE-

```
qual( elm:Property("AUDITCScore") elm:Literal()) elm:And( isFemale elm:GreaterOrE-  
qual( elm:Property("AUDITCScore") elm:Literal()))
```

Chapter 4. Evaluation

PCL-5 with Criterion A

The PCL-5 may be used either for monitoring the severity of symptoms of PTSD or as a screening tool. The recommended screening threshold (for diagnosis of PTSD) is 33 points. The instructions and questions on the PCL-5 with Criterion A may be read to the patient and answers recorded by the tool administrator or may be printed, read, and completed by the patient

♦ prompt: The following written or verbal instructions should be provided to the patient with administration of the Criterion A questions: “This questionnaire asks about problems you may have had after a very stressful experience involving actual or threatened death, serious injury, or sexual violence. It could be something that happened to you directly, something you witnessed, or something you learned happened to a close family member or close friend. Some examples are a serious accident; fire; disaster such as a hurricane, tornado, or earthquake; physical or sexual attack or abuse; war; homicide; or suicide. First, please answer a few questions about your worst event, which for this questionnaire means the event that currently bothers you the most. This could be one of the examples above or some other very stressful experience. Also, it could be a single event (for example, a car crash) or multiple similar events (for example, multiple stressful events in a war-zone or repeated sexual abuse.

response: Boolean (Single)

prompt: Briefly identify the worst event (if you feel comfortable doing so).

response: String (Single)

prompt: How long ago did it happen? (please estimate if you are not sure).

response: String (Single)

prompt: Did it involve actual or threatened death, serious injury, or sexual violence?

response: Boolean (Single)

prompt: How did you experience it?

response: String (Single)

response range: EnumerationConstraint (List)

item: It happened to me directly

item: I witnessed it

item: I learned about it happening to a close family member or close friend

item: I was repeatedly exposed to details about it as part of my job (for example, paramedic, police, military, or other first responder)

☞ item: Other

prompt: If the event involved the death of a close family member or close friend, was it due to some kind of accident or violence, or was it due to natural causes?]

response: String (Single)

response range: EnumerationConstraint (List)

item: Accident or violence

item: Natural causes

item: Not applicable (the event did not involve the death of a close family member or close friend)

PTSD Checklist for DSM-5 (PCL-5)

The following written or verbal instructions should be provided to the patient with administration of the PCL-5 questions: PCL-5 score is calculated by adding the numbers following each response option below.

prompt: The following written or verbal instructions should be provided to the patient: below is a list of problems that people sometimes have in response to a very stressful experience. Keeping your worst event in mind, please read each problem carefully and then select one of the answers to indicate how much you have been bothered by that problem in the past month.

response: Boolean (Single)

prompt: In the past month, how much were you bothered by: Repeated, disturbing, and unwanted memories of the stressful experience?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: A little bit (score = 1)

item: Moderately (score = 2)

item: Quite a bit (score = 3)

item: Extremely (score = 4)

responseBinding: Property ("PTSDCL1")

prompt: Repeated, disturbing dreams of the stressful experience?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)

item: A little bit (score = 1)

item: Moderately (score = 2)

item: Quite a bit (score = 3)

item: Extremely (score = 4)

responseBinding: Property ("PTSDCL2")

prompt: Suddenly feeling or acting as if the stressful experience were actually happening again (as if you were actually back there reliving it)?

response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL3")
prompt: Feeling very upset when something reminded you of the stressful experience?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL4")
prompt: Having strong physical reactions when something reminded you of the stressful experience (for example, heart pounding, trouble breathing, sweating)?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL5")
prompt: Avoiding memories, thoughts, or feelings related to the stressful experience?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL6")
prompt: Avoiding external reminders of the stressful experience (for example, people, places, conversations, activities, objects, or situations)?

response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL7")
prompt: Trouble remembering important parts of the stressful experience?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL8")
prompt: Having strong negative beliefs about yourself, other people, or the world (for example, having thoughts such as: I am bad, there is something seriously wrong with me, no one can be trusted, the world is completely dangerous)?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL9")
prompt: Blaming yourself or someone else for the stressful experience or what happened after it?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL10")
prompt: Having strong negative feelings such as fear, horror, anger, guilt, or shame?

response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL11")
prompt: Loss of interest in activities that you used to enjoy?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL12")
prompt: Feeling distant or cut off from other people?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL13")
prompt: Trouble experiencing positive feelings (for example, being unable to feel happiness or have loving feelings for people close to you)?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)
responseBinding: Property ("PTSDCL14")
prompt: Irritable behavior, angry outbursts, or acting aggressively?
response: Integer (Single)
response range: EnumerationConstraint (List)
item: Not at all (score = 0)

item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)

responseBinding: Property ("PTSDCL15")

prompt: Taking too many risks or doing things that could cause you harm?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)

responseBinding: Property ("PTSDCL16")

prompt: Being “super alert” or watchful or on guard?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)

responseBinding: Property ("PTSDCL17")

prompt: Feeling jumpy or easily startled?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)
item: Extremely (score = 4)

responseBinding: Property ("PTSDCL18")

prompt: Having difficulty concentrating?

response: Integer (Single)

response range: EnumerationConstraint (List)

item: Not at all (score = 0)
item: A little bit (score = 1)
item: Moderately (score = 2)
item: Quite a bit (score = 3)

```

        item: Extremely (score = 4)
responseBinding: Property ("PTSDCL19")
        # prompt: Trouble falling or staying asleep?
        response: Integer (Single)
        response range: EnumerationConstraint (List)
        item: Not at all (score = 0)
        item: A little bit (score = 1)
        item: Moderately (score = 2)
        item: Quite a bit (score = 3)
        item: Extremely (score = 4)
responseBinding: Property ("PTSDCL20")
        # prompt: PCL-5 score
        itemCode: [a997cc03-3e99-40eb-833a-6374c7750a3a |Observation
        procedure (procedure)]- -(363702006 |Has focus (at-
        tribute))->[365856005 |Screening finding (finding)]- -
        >(363714003 |Interprets (attribute))->[3145d9ad-ef9c-4d74-
        b7a0-86fb93a4b438 |Posttraumatic Stress Disorder Checklist
        Version 5 for Diagnostic and Statistical Manual of Mental Dis-
        orders Version 5 score (observable entity)];
        response: Integer (Single)
responseBinding: Property ("PTSDCLScore")
initialValue: elm:SumThe PCL-5 score is the sum of scores associated with each response.
        # prompt: PCL-5 PTSD screening results (positive or negative)
        The recommended screening threshold (for diagnosis of PTSD)
        is 33 points.
        response: Boolean (Single)
initialValue: elm:GreaterOrEqualThe recommended screening threshold (for diagnosis of
        PTSD) is 33 points. elm:Property("PTSDCLScore") elm:Literal()

```

Chapter 5. Assessment

prompt: Assessment
response: String (Single)
response EnumerationConstraint (List)
range:
 item: Provisional diagnosis of PTSD
 item: Established diagnosis of PTSD
 ☞ item: Other
prompt: History
response: String (Single)
prompt: Symptom concerns
response: String (Single)
prompt: Comorbidities
response: String (Single)
prompt: Additional information
response: String (Single)

Chapter 6. Plan

Plan
prompt:
re- String (Single)
sponse:
re- EnumerationConstraint (List)
sponse
range:
item: Risks and benefits of recommended treatment(s) discussed with patient
item: Patient expresses understanding and agrees with plan
item: Patient education
responseBinding: Property ("PlanResponse")
Condition:elm:Contains (elm:Property("PlanResponse") elm:Literal())

Patient Education Details
prompt:
re- String (Single)
sponse:

Specific therapeutic modalities

prompt: Individual trauma-focused psychotherapy
itemCode: 406185000 |Trauma therapy (regime/therapy)|
response: Boolean (Single)
prompt: Individual non-trauma-focused psychotherapy
itemCode: 75516001 |Psychotherapy (regime/therapy)|
response: Boolean (Single)
prompt: Pharmacotherapy
response: Tuple (Multiple)
response range: EnumerationConstraint (List)
item: Selective serotonin reuptake inhibitors([416118004 |Administration (procedure)] ->(260686004 |Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 |Direct substance (attribute))->[349854005 |Selective serotonin re-uptake inhibitor (product)])
item: Serotonin and norepinephrine reuptake inhibitors (e.g., sertraline, paroxetine, fluoxetine, or venlafaxine)([416118004 |Administration (procedure)] ->(260686004 |Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 |Direct substance (attribute))->[61ef43af-65b8-4ba4-9002-2059fe82747f |Serotonin and norepinephrine reuptake inhibitor (product)])
☞ item: Other Pharmacotherapy
prompt: Other Specific therapeutic modalities
response: String (Single)

Principal Treatment Setting

prompt: Mental health clinic


```

        response: String (Single)
    response range: EnumerationConstraint (List)
        item: General mental health(702882007 |Mental health clinic (environment)|)
        item: PTSD clinic(44e06a3e-798d-4a16-8af0-392f4e5b05d3 |Posttraumatic
            stress disorder clinic (environment)|)
    # prompt: Primary care clinic
    itemCode: 5351000124100 |Primary care clinic (environment)|
    response: String (Single)
    response range: EnumerationConstraint (List)
        item: Mental health provider embedded in primary care practice set-
            ting(310190000 |Mental health counselor (occupation)|)
        item: Primary care provider(453231000124104 |Primary care provider (occu-
            pation)|)
        ➡ item: Other
    # Arrangements and timing for follow-up
prompt:
    re- String (Single)
sponse:
    # Consult mental health for PTSD
prompt:
    re- String (Single)
sponse:
    # Consult mental health for substance use disorder
prompt:
    re- String (Single)
sponse:
    # Other
prompt:
    re- String (Single)
sponse:

```

Chapter 7. Tabular List

Terminology Service Request (TSR) Mappings

Table 7.1. Terminology Versions

Name	Identifier	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301

Table 7.2. Terminology References

System	Code	Display Text ^a	References ^b
SNOMED CT	310190000 Mental health counselor (occupation)	Mental health provider embedded in primary care practice setting	2
SNOMED CT	33022008 Hospital-based outpatient department (environment)	Outpatient	1
SNOMED CT	406185000 Trauma therapy (regime/therapy)	Precoordinated Expression	1
SNOMED CT	44e06a3e-798d-4a16-8af0-39213e5b06d3 Posttraumatic stress disorder clinic (environment)	PTSD Clinic	1
SNOMED CT	453231000124104 Primary care provider (occupation)	Primary care provider	2
SNOMED CT	5351000124100 Primary care clinic (environment)	Postcoordinated Expression	1
SNOMED CT	702882007 Mental health clinic (environment)	General mental health	1
SNOMED CT	75516001 Psychotherapy (regime/therapy)	Precoordinated Expression	1
SNOMED CT	TSR-NoCode ^c	Precoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] ->(260686004 Method (attribute))>[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))>[349854005 Selective serotonin reuptake inhibitor (product)]	Selective serotonin reuptake inhibitors	1
SNOMED CT	[416118004 Administration (procedure)] ->(260686004 Method (attribute))>[129445006 Administration - ac-	Serotonin and norepinephrine reuptake inhibitors (e.g., sertraline, paroxetine, fluoxetine, or venlafaxine)	1

System	Code	Display Text ^a	References ^b
	tion (qualifier value)] ->(363701004 Direct substance (attribute))->[61ef43af-65b8-4ba4-9002-2059fe82747f Serotonin and norepinephrine reuptake inhibitor (product)]		
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)] ->(363702006 Has focus (attribute))->[248152002 Female (finding)]	Postcoordinated Expression	2
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)]- ->(363702006 Has focus (attribute))->[365856005 Screening finding (finding)]- ->(363714003 Interprets (attribute))->[2a591b1f-5344-4567-a315-3bc0c3a9419b Generalized anxiety disorder 2 item scale score (observable entity)];	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)]- ->(363702006 Has focus (attribute))->[365856005 Screening finding (finding)]- ->(363714003 Interprets (attribute))->[3145d9ad-ef9c-4d74-b7a0-86f-b93a4b438 Posttraumatic Stress Disorder Checklist Version 5 for Diagnostic and Statistical Manual of Mental Disorders Version 5 score (observable entity)];	Postcoordinated Expression	1
SNOMED CT	[a997cc03-3e99-40e-b-833a-6374c7750a3a Observation procedure (procedure)]- ->(363702006 Has focus	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	(attribute))->[365856005 Screening finding (find- ing)]- ->(363714003 Interprets (at- tribute))->[42679737-748d-4564-9ffd-6801afeeeef4 Primary Care Posttraumat- ic Stress Disorder Screen for Diagnostic and Statisti- cal Manual of Mental Dis- orders score (observable entity)];		
SNOMED CT	[a997cc03-3e99-40e- b-833a-6374c7750a3a Observation proce- dure (procedure)]- - >(363702006 Has focus (attribute))->[365856005 Screening finding (find- ing)]- ->(363714003 Interprets (at- tribute))->[5ff6281a-52c9-4004-9c28- dc806cc7fbf1 Alcohol Use Disorders Identification Test C score (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.

^cTSR-NoCode is a placeholder indicating a code was requested, but was not provided.

Chapter 8. Behavior Symbols

Table 8.1. 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 8.2. 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 8.3. 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 8.4. 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 8.5. 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 8.6. 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 8.7. 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: Posttraumatic Stress Disorder (PTSD) Screening and Assessment Clinical Content White Paper*

[CSD] *Mental Health: Post-traumatic Stress Disorder (PTSD) Screening and Assessment Documentation Template Conceptual Structure Document*

[KVRpt] *Mental Health: Post-traumatic Stress Disorder (PTSD) Screening and Assessment Documentation Template KNART Validation Report*

Supporting Evidence

[Bush 1998] Bush K, Kivlahan DR, McDonell 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>])

[IOM 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>])

[Kroenke 2010] Kroenke K, Spitzer RL, Williams JB, Löwe B. The Patient Health Questionnaire Somatic, Anxiety, and Depressive Symptom Scales: a systematic review. Gen Hosp Psychiatry. 2010;32(4):345-359 (link [<https://doi.org/10.1016/j.genhosppsy.2010.03.006>])

[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://doi.org/10.1046/j.1525-1497.2001.016009606.x>])

[Prins 2016] Prins A, Bovin MJ, Smolenski DJ, et al. The primary care PTSD screen for DSM-5 (PC-PTSD-5): development and evaluation within a Veteran primary care sample. J Gen Intern Med. 2016;31(10):1206-1211 (link [<https://doi.org/10.1007/s11606-016-3703-5>])

[DOD Forms Website] Tri-Service Workflow (TSWF). TSWF-CORE AIM Form Version Jan-Apr 2018. TSWF CORE Paper Backup Jan Apr 2018.pdf (link [<http://www.tswf-mhs.com/core-forms/core>])

[DOD Forms] U.S. Department of Defense. Department of Defense Instruction Number 6490.15: Integration of Behavioral Health Personnel (BHP) Services into Patient-Centered Medical Home (PCMH) Primary Care and Other Primary Care Service Settings. Executive Services Directorate website. Effective November 2014 (link [<http://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodi/649015p.pdf>])

[VA/DoD 2017] U.S. Department of Veterans Affairs; U.S. Department of Defense. VA/DOD Clinical Practice Guideline for the Management of Posttraumatic Stress Disorder and Acute Stress Disorder. Version 3.0 –

2017. *VA/DoD Clinical Practice Guidelines website. Published June 2017* (link [<https://www.healthquality.va.gov/guidelines/MH/ptsd/VADoDPTSDCPGFinal082917.pdf>])
- [VHA 2013] *Weathers FW, Litz BT, Keane TM, Palmieri PA, Marx BP, and Schnurr PP. The PTSD Checklist for DSM-5 with Criterion A [Measurement instrument]. U.S. Department of Veterans Affairs National Center for PTSD website. Updated August 2013* (link [https://www.ptsd.va.gov/professional/assessment/documents/PCL-5_criterionA.pdf])
- [VHA 2017] *U.S. Department of Veterans Affairs National Center for PTSD. Using the PTSD Checklist for DSM-5 (PCL-5). U.S. Department of Veterans Affairs National Center for PTSD website. Accessed October 19, 2017* (link [<https://www.ptsd.va.gov/professional/assessment/documents/using-PCL5.pdf>])
- [VHA 2018a] *U.S. Department of Veterans Affairs National Center for PTSD. DSM-5 Criteria for PTSD. U.S. Department of Veterans Affairs National Center for PTSD website. Accessed February 8, 2018* (link [https://www.ptsd.va.gov/professional/PTSD-overview/dsm5_criteria_ptsd.asp])
- [VHA 2018b] *U.S. Department of Veterans Affairs National Center for PTSD. Primary Care PTSD Screen for DSM-5 (PC-PTSD-5). U.S. Department of Veterans Affairs National Center for PTSD website. Accessed March 15, 2018* (link [<https://www.ptsd.va.gov/professional/assessment/screens/pc-ptsd.asp>])