Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs)

Mental Health: Consult for Depression Clinical Content White Paper

Department of Veterans Affairs (VA)

Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)
Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs): Mental Health: Consult for Depression Clinical Content White Paper
by Department of Veterans Affairs (VA), , , and

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Table 1. Relevant KNART Information: Mental Health: Consult for Depression

<table>
<thead>
<tr>
<th>Mental Health</th>
<th>Associated CLIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consult for Depression - Order Set</td>
<td>CLIN0004AB</td>
</tr>
<tr>
<td>Consult for Depression - Documentation Template/Consult Request</td>
<td>CLIN0005AB</td>
</tr>
<tr>
<td>Consult for Depression - Composite/Consult Request</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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<tr>
<th>Name</th>
<th>Title</th>
<th>Project Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Becker, MD</td>
<td>Internist West Haven, CT</td>
<td>SME, Primary</td>
</tr>
<tr>
<td>Katy Lysell, MD</td>
<td>National Mental Health Director for Informatics Honolulu, HI 96819</td>
<td>SME, Secondary</td>
</tr>
<tr>
<td>Elizabeth Oliva</td>
<td>VA National OEND Coordinator VA Palo Alto Health Care System Menlo Park, VA 04025</td>
<td>SME</td>
</tr>
<tr>
<td>Kendall Browne, MD</td>
<td>Post Doctoral Fellow VAPSHCS – SEATTLE Seattle, WA 98108</td>
<td>SME</td>
</tr>
<tr>
<td>Rani Hoff, PhD, MPH</td>
<td>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</td>
<td>SME</td>
</tr>
<tr>
<td>Edward P Post, PhD</td>
<td></td>
<td>SME</td>
</tr>
<tr>
<td>Bridget Matarazzo</td>
<td></td>
<td>SME</td>
</tr>
</tbody>
</table>
Introduction

The VA is committed to improving the ability of clinicians to provide care for patients while increasing quality, safety, and efficiency. Recognizing the importance of standardizing clinical knowledge in support of this goal, VA is implementing the Health Level 7 (HL7) Knowledge Artifact Specification for a wide range of VA clinical use cases. Knowledge Artifacts, referred to as (KNARTs), enable the structuring and encoding of clinical knowledge so the knowledge can be integrated with electronic health records to enable clinical decision support.

The purpose of this Clinical Content White Paper (CCWP) is to capture the clinical context and intent of KNART use cases in sufficient detail to provide the KNART authoring team with the clinical source material to construct the corresponding knowledge artifacts using the HL7 Knowledge Artifact Specification. This paper has been developed using material from a variety of sources: VA artifacts, clinical practice guidelines, evidence in the body of medical literature, and clinical expertise. After reviewing these sources, the material has been synthesized and harmonized under the guidance of VA subject matter experts to reflect clinical intent for this use case.

Unless otherwise noted, items within this white paper (e.g., documentation template fields, orderable items, etc.) are chosen to reflect the clinical intent at the time of creation. To provide an exhaustive list of all possible items and their variations is beyond the scope of this work.
Conventions Used

Conventions used within the knowledge artifact descriptions include:

<obtain>: Indicates a prompt to obtain the information listed
  • If possible, the requested information should be obtained from the underlying system(s). Otherwise, prompting the user for information may be required
  • Default Values: Unless otherwise noted, <obtain> indicates to obtain the most recent observation. It is recognized that this default time-frame value may be altered by future implementations

[...]: Square brackets enclose explanatory text that indicates some action on the part of the clinical user, or general guidance to the clinical or technical teams. Examples include, but are not limited to:

[Begin ...], [End ...]: Indicates the start and end of specific areas to clearly delineate them for technical purposes.

[Activate ...]: Initiates another knowledge artifact or knowledge artifact section.

[Section Prompt: ...]: If this section is applicable, then the following prompt should be displayed to the user.

[Section Selection Behavior: ...]: Indicates technical constraints or considerations for the selection of items outlined in the section prompt.

[Attach: ...]: Indicates that the specified item (e.g. procedure or result interpretation) should be attached to the documentation template if available.

[Link: ...]: Indicates that rather than attaching an item (e.g. image), a link should be included in the documentation template.

[Clinical Comment: ...]: Indicates technical considerations or notes to be utilized for KNART authoring and at time of implementation planning.

[Technical Note: ...]: Indicates technical considerations or notes to be utilized for KNART authoring and at time of implementation planning.

[If ...]: Indicates the beginning of a conditional section.

[Else, ...]: Indicates the beginning of the alternative branch of a conditional section.

[End if ...]: Indicates the end of a conditional section.

☐ [Check box]: Indicates items that should be selected based upon the section selection behavior.
Chapter 1. Mental Health: Consult for Depression

Clinical Context

[Begin Clinical Context.]

This set of KNARTs is intended to support initiation of appropriate clinical orders and provision of required documentation to place a consult request.

Depression is a highly prevalent condition that is among the most common causes of morbidity, mortality (i.e., suicide, homicide), and disability. In view of this, the VA has established structured protocols for collaborative care management that are generally implemented by behavioral health nurses or clinical social workers, with provision for referral to specialty mental health care programs when needed.

Table 1.1. Clinical Context Domains

<table>
<thead>
<tr>
<th>Target User</th>
<th>Primary Care Providers (PCPs) and Mental Health Providers embedded in primary care practice settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Adults Outpatients identified as requiring evaluation or treatment for depression</td>
</tr>
<tr>
<td>Priority</td>
<td>Routine</td>
</tr>
<tr>
<td>Specialty</td>
<td>Primary Care</td>
</tr>
<tr>
<td>Location</td>
<td>Outpatient</td>
</tr>
</tbody>
</table>

[End Clinical Context.]

Knowledge Artifacts

[Begin Knowledge Artifacts.]

This section describes the CDS knowledge artifacts that are part of the Mental Health group, and include:

- A Composite/Consult Request: Mental Health: Consult for Depression KNART
  - High-level, encompassing artifact
  - Relies upon the documentation template and order set artifacts
- A Documentation Template: Mental Health: Consult for Depression KNART
  - Documents the information provided by the referring provider
  - Includes logic for appropriate display of documentation sections
- An Order Set: Mental Health: Consult for Depression KNART
  - Orderable items associated with the consult request
  - Includes logic for appropriate display of the order set

[End Knowledge Artifacts.]
Chapter 2. Composite/Consult Request: Consult for Depression

[Begin Composite/Consult Request: Consult for Depression.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Consult and Referral Request

[Begin Consult and Referral Request.]

[Technical Note: The following list provides the basic components of the consult request. This is the high-level, encompassing artifact, and must be combined with the documentation template and order set to form a fully functional knowledge artifact.]

[Technical Note: Consult specialty of mental health should be selected automatically]

[Section Prompt: Consult Specialty: Mental Health]

<obtain> Reason for consult

[Section Prompt: Goal of Consult.]

[Section Selection Behavior: Required. Select One.]

☐ Provide consultation to PCP

☐ Start treatment and return to PCP for follow up and maintenance

☐ Start treatment, monitor for effect and when on stable therapy return to PCP

☐ Treat as long as necessary (or indefinitely)

[Section Prompt: Priority.]

☐ Routine (within 30 days)

☐ Routine with Scheduling Instructions

[Technical Note: Obtain from Documentation Template.]

• <obtain> Current psychiatric medications

[Section Prompt: Patient Treatment Preference.]

[Section Selection Behavior: Select one or more. Required.]

☐ Psychotherapy

☐ Medication

☐ Medication and psychotherapy
☐ No preference

<obtain> Additional information

[Technical Note: Obtain from Documentation Template or input by ordering provider.]

<obtain> Referring Physician

<obtain> Referring Physician Contact Information

[Technical Note: Referring Physician and Referring Physician Contact Information to be filled in automatically.]

[End Consult and Referral Request.]

[End Composite/Consult Request: Consult for Depression.]
Chapter 3. Documentation Template: Consult for Depression

[Begin Documentation Template: Consult for Depression.]

[Technical Note: This documentation template—consult request should be available to PCPs and mental health providers embedded in primary care practice settings caring for outpatients identified as requiring evaluation or treatment for depression.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Screening Mental Health Evaluation

[Begin Screening Mental Health Evaluation.]

[Section Prompt: Patient Health Questionnaire-9 (PHQ-9). (A score of 10 is considered the threshold for mild symptoms of depression.)]

[Technical Note: Both the most recent PHQ-9 score from any timeframe and all PHQ-9 scores from the past 1 year should be presented to the user, with the dates of those scores, from available data.]

[Technical Note: PHQ-9 must be calculated by totaling the form label values (displayed below following each user selection option) for the form labels selected by the user. Note that the following form components are adapted from Kroenke 2001. A score of 10 is considered the threshold for mild symptoms of depression.]

[Section Selection Behavior: Select one for each question asked. Optional.]

[Technical Note: PHQ-9 score calculated using numbers following the response options below. Use the following reference link for scoring: https://www.integration.samhsa.gov/images/res/PHQ%20-%20Questions.pdf.]

[Section Prompt: Patient response to "over the past two weeks, how often have you been bothered by any of the following problems?"]

[Section Prompt: "Little interest or pleasure in doing things."]

☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: “Feeling down, depressed, or hopeless.”]

☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: "Trouble falling or staying asleep, or sleeping too much."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: "Feeling tired or having little energy."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: "Poor appetite or overeating."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: "Feeling bad about yourself—or that you are a failure or have let yourself or your family down."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section Prompt: "Trouble concentrating on things, such as reading the newspaper or watching television."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Section 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."]
☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3
[Section Prompt: "Thoughts that you would be better off dead or of hurting yourself."]

☐ Not at all 0
☐ Several days 1
☐ More than half the days 2
☐ Nearly every day 3

[Technical Note: The following question should be presented if PHQ-9 score >= 1. Note that this is an unscored question in the PHQ-9 and has no form label value.]

Patient response to “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?”

☐ Not difficult at all
☐ Somewhat difficult
☐ Very difficult
☐ Extremely difficult

[Section Prompt: For positive responses to the suicidal ideation question consider the following.]

[Technical Note: Upon completion of the PHQ-9, if there was any positive response to the question about suicidal ideation, the user should be presented with links to the following:]

   Documentation Template: Mental Health Suicide Risk Assessment KNART
   Order Set: Mental Health Positive Suicide Risk Screening KNART.

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

   <obtain> Additional information

[End Screening Mental Health Evaluation.]

Medical History

[Begin Medical History.]

[Technical Note: Thyroid study results from the past 1 year should be autopopulated, with the dates of those results.]

<obtain> Thyroid-stimulating hormone (TSH), free T4 results and dates
<obtain> Additional Information

[End Medical History.]

Treatment History

[Begin Treatment History.]

<obtain> Interventions tried prior to consult request (timeframes, intensities, and providers for psychotherapy and any other interventions)

[End Treatment History.]
[End Documentation Template: Consult for Depression.]
Chapter 4. Order Set: Consult for Depression

[Begin Order Set: Consult for Depression.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Consults and Referrals

[Begin Consults and Referrals.]

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

[Technical Note: This section should be provided to PCPs and mental health providers embedded in primary care practice settings who are caring for outpatients identified as requiring evaluation or treatment for depression.]

[Section Prompt: Inform patient that referral order was placed, including location of consult and emergency contact details for informed consent and contingency planning.]

☐ Referral to mental health to evaluate and treat for depression (routine-within 30 days)

[End Consults and Referrals.]

Patient and Caregiver Education

[Begin Patient and Caregiver Education.]

[Technical Note: This section should be provided to primary care providers and mental health providers embedded in primary care practice settings who are caring for outpatients identified as requiring evaluation or treatment for depression.]

☐ Depression education now

[End Patient and Caregiver Education.]

[End Order Set: Consult for Depression.]
**Bibliography/Evidence**


Appendix A. Existing Sample VA Artifacts

Figures A.1-A.7: Portland Oregon VA Medical Center (VAMC) Screenshots: Mental Health Consult for Depression - Order Set

Figure A.1. Mental Health Depression (MHD) Consult (image 1 of 3)
Figure A.2. Mental Health Depression (MHD) Consult (image 2 of 3)
Figure A.3. Mental Health Depression (MHD) Consult (image 3 of 3)

[Image of a virtual application window showing fields for entering information about a mental health consultation.]
Figure A.4. Order a Mental Health Depression (MHD) Outpatient Consult
Figure A.5. Template Mental Health Depression (MHD) Consult – E-Consult (image 1 of 2)
Figure A.6. Template Mental Health Depression (MHD) Consult – E-Consult (image 2 of 2)
Figure A.7. Order a Mental Health Depression (MHD) Outpatient E-Consult

![Order a Consult window](image)

1. Presenting problem, reason for MR referral: Text
2. Is the veteran pregnant, post partum, or planning conception? No
3. Goal of treatment: Text
4. Brief MR history
   a. Has the patient been treated for mental health in the past?

Figure A.8. I am NOT a Mental Health Provider

![I am NOT a Mental Health provider window](image)

Figures A.8-A.21: Greater Los Angeles, CA VAMC Screenshots Mental Health Depression - Order Set
Figure A.9. Emergency to be Seen by Emergency Department Psychiatrist

Emergency to be seen by ED psychiatrist

Routine case to be seen by appointment in Internal Health

...
Figure A.10. Reason for Request - Mental Health Psychiatry Emergency Outpatient
Figure A.11. Reason for Request - Mental Health Clinic Outpatient (image 1 of 4)
Figure A.12. Reason for Request - Mental Health Clinic Outpatient (image 2 of 4)
Figure A.13. Reason for Request - Mental Health Clinic Outpatient (image 3 of 4)
Figure A.14. Reason for Request - Mental Health Clinic Outpatient (image 4 of 4)
Figure A.15. Mental Health Consult from Specialty Clinics, for Patients Older Than 65 with Multiple Medical Problems (image 1 of 2)

Figure A.16. Mental Health Consult from Specialty Clinics, for Patients Older Than 65 with Multiple Medical Problems (image 2 of 2)
Figure A.17. Reason for Request - Geropsychiatry Clinic Outpatient (image 1 of 3)
Figure A.18. Reason for Request - Geropsychiatry Clinic Outpatient (image 2 of 3)
Figure A.19. Reason for Request - Geropsychiatry Clinic Outpatient (image 3 of 3)
Figure A.20. Mental Health Consult from Specialty Clinics
**Figure A.21. Mental Health Consult for Medical or Surgical Inpatient**

![Image of mental health consult form]

For urgent request, please page the service: [Pager info link]
ALL INFORMATION MUST BE FILLED OUT

Patient has been told about consult request and agrees to be seen by consultant

- [ ] No
- [X] Yes

Referring provider: Linda Wedemeyer, MD
Pager/phone:
Team/Team:

What symptom(s) or problem(s) do you want the consultant to evaluate?
(Please describe)

Patients medical problems/relevant history:

Please indicate that it is safe for the patient to wait for an evaluation by confirming all of the following are false.

- [ ] TRUE
- [ ] FALSE
The patient is...

* Indicates a Required Field

---

Figures A.22-A.32: Greater Los Angeles, CA VAMC Mental Health Consult for Depression - Documentation Template
Figure A.22. Template: Depression Assessment Consult Note (image 1 of 5)
Figure A.23. Template: Depression Assessment Consult Note (image 2 of 5)
Figure A.24. Template: Depression Assessment Consult Note (image 3 of 5)
Figure A.25. Template: Depression Assessment Consult Note (image 4 of 5)
Figure A.26. Template: Depression Assessment Consult Note (image 5 of 5)
Figure A.27. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools (image 1 of 2)
Figure A.28. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools (image 2 of 2)
Figure A.29. Geriatric Depression Scale (GDS) Test (image 1 of 2)

Choose the best answer for how you have felt over the past week:

1. Are you basically satisfied with your life?
   - 0. No
   - 1. Yes

2. Have you dropped many of your activities and interests?
   - 0. No
   - 1. Yes

3. Do you feel that your life is empty?
   - 0. No
   - 1. Yes

4. Do you often get bored?
   - 0. No
   - 1. Yes

5. Are you in good spirits most of the time?
   - 0. No
   - 1. Yes

6. Are you afraid that something bad is going to happen to you?
   - 0. No
   - 1. Yes

7. Do you feel happy most of the time?
   - 0. No
   - 1. Yes

8. Do you often feel helpless?
   - 0. No
   - 1. Yes

9. Do you prefer to stay at home, rather than going out and doing new things?
   - 0. No
   - 1. Yes

Hint: Use the number key of the item to speed data entry.
Figure A.30. Geriatric Depression Scale (GDS) Test (image 2 of 2)

8. Do you often feel helpless?
   - 0. No
   - 1. Yes

9. Do you prefer to stay at home, rather than going out and doing new things?
   - 0. No
   - 1. Yes

10. Do you feel you have more problems with memory than most?
    - 0. No
    - 1. Yes

11. Do you think it is wonderful to be alive now?
    - 0. No
    - 1. Yes

12. Do you feel pretty worthless the way you are now?
    - 0. No
    - 1. Yes

13. Do you feel full of energy?
    - 0. No
    - 1. Yes

14. Do you feel that your situation is hopeless?
    - 0. No
    - 1. Yes

15. Do you think that most people are better off than you are?
    - 0. No
    - 1. Yes
Figure A.31. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools – post Geriatric Depression Scale (GDS) Test Completion
Figure A.32. Patient Health Questionnaire-2 (PHQ-2)

Over the past two weeks, how often have you been bothered by the following problems?

1. Little interest or pleasure in doing things
   - 1. Not at all
   - 2. Several days
   - 3. More than half the days
   - 4. Nearly every day

2. Feeling down, depressed, or hopeless
   - 1. Not at all
   - 2. Several days
   - 3. More than half the days
   - 4. Nearly every day

PowerPoint Slides: Veterans Integrated Service Network (VISN) 1 - Depression Evaluation and Follow-up
Figure A.33. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 1 of 7)

Figure A.34. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 2 of 7)
Figure A.35. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 3 of 7)

The 2nd Option – actually performing the Depression Screen: Requires 2 clicks – Record, then Perform (either PHQ-2 or PHQ-9 is selectable).

Figure A.36. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 4 of 7)

The actual PHQ-2 Instrument. 2 Questions need to be answered. Then the user needs to click on “Done”. This was a NEGATIVE SCREEN - Suicide Risk and F/U Eval are not required!
Figure A.37. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 5 of 7)

Provider sees PN Text indicating it is NEGATIVE, and should click on Negative Result.

Figure A.38. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 6 of 7)

Once provider clicks on Negative Screen, he/she may then click on Finish – the reminder is completed and resolved.
Figure A.39. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 7 of 7)

If the Depression Screen is Positive, when the provider clicks on “Done”, a warning comes up (see next screen!):