Mental Health: Chronic Noncancer Pain Order Set

Order Set: Conceptual Structure

Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007, CLIN0008BA

Department of Veterans Affairs (VA)



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

Publication date 05/29/2018

Version: 1.0

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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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Table of Contents

Preface	v
Artifact Applicability	
Models	viii
1. External Data Definitions	
2. Expression Definitions	2
3. Medications	
4. Laboratory Tests	
5. Consults and Referrals	
6. Patient and Caregiver Education	19
7. Tabular List	
8. Behavior Symbols	
A. References	30

List of Tables

1. Revision History	v
2. Clinical White Paper Contributors	V
3. Artifact Identifier	vi
4. Applicability Foci, Description and Codes	vii
5. Model References	viii
7.1. Terminology Versions	20
7.2. Terminology References	20
8.1. Group Organizational Behavior	28
8.2. Group Selection Behavior	28
8.3. Required Behavior	28
8.4. Precheck Behavior	29
8.5. Cardinality Behavior	29
8.6. Item Flags	29
8.7. Read Only Behavior	29

Preface

Table 1. Revision History

Date	Life Cycle Event	
May 29, 2018	Published	
May 29, 2018	Reviewed	
March 1, 2018	Pre-published	
August 10, 2017	Created	

Table 2. Clinical White Paper Contributors

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Preface

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Table 3. Artifact Identifier

Don	nain	Artifact ID	Name
urn:	va.gov:kbs:knart:artifact:r1	495c933d-52a6-5e02-98fd-9813222014cf	O21

Artifact Applicability

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code Sys- tem	Code	Value Set	Value Set Version
TargetUser	Primary Care Provider (PCP)	SNOMED CT	453231000124104 Primary care provider (occupa- tion)	N/A	N/A
PatientAgeGroup	Adult	SNOMED CT	133936004 Adult (person)	N/A	N/A
WorkflowSetting	Primary Care			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
u	rn: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. Medications

Oral Medications

☐ Ibuprofen 200 mg tablet oral every 4 to 6 hours as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;310965 Ibuprofen 200 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 |Oral route (qualifier value)] unstructured[0]: 100 tablets 2 refills unstructured[1]: as needed purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 |Pain (finding)] requestedResult.lowerBound: 1 requestedResult.upperBound: 1 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)| repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 75 repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 4 repetition[0].eventFrequency.upperBound: 6 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258702006 | hour (qualifier value) ☐ Naproxen 250 mg tablet oral 2 times daily as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006

|Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;198013 Naproxen 250 MG Oral Tablet] ->(410675002 |Route of administration (attribute))->[26643006 |Oral route (qualifier value)]

unstructured[0]: 100 tablets 2 refills

unstructured[1]: as needed

purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 | Pain (finding)]

requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)|

repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 150

repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE

repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)|

repetition[0].eventFrequency.lowerBound: 2 repetition[0].eventFrequency.upperBound: 2

repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinat-

ed Expression 258703001 |day (qualifier value)|

☐ Acetaminophen 325 mg tablet oral 2 tablets every 6 hours as needed for pain; may increase dose frequency to 2 tablets every 4 hours; do not take more than 10 tablets per day 100 tablets 2 refills

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

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

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;313782 Acetaminophen 325 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 | Oral route (qualifier value)]

unstructured[0]: 100 tablets 2 refills

unstructured[1]: as needed; may increase dose frequency to 2 tablets every 4 hours; do not take more than 10 tablets per day

purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 | Pain (finding)]

requestedResult.lowerBound: 2 requestedResult.upperBound: 2 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)| repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 37.5 repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 4 repetition[0].eventFrequency.upperBound: 4 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| ☐ Celecoxib 100 mg capsule oral 2 times a day 60 capsules 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 |Direct substance (attribute))->[Rx;205322 celecoxib 100 MG Oral Capsule] ->(410675002 | Route of administration (attribute))->[26643006 |Oral route (qualifier value)] unstructured[0]: 60 capsules 2 refills requestedResult.lowerBound: 1 requestedResult.upperBound: 1 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 420692007 |Conventional release oral capsule (dose form)| repetition[0].periodDuration.lowerBound: 90 repetition[0].periodDuration.upperBound: 90 repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 2 repetition[0].eventFrequency.upperBound: 2

repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| The following orders may be considered for patients who tolerate lower doses but whose pain control remains inadequate on lower doses \Box Ibuprofen 400 mg tablet oral every 4 to 6 hours as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;197805 Ibuprofen 400 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 |Oral route (qualifier value)] unstructured[0]: 100 tablets 2 refills unstructured[1]: as needed purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 |Pain (finding)] requestedResult.lowerBound: 1 requestedResult.upperBound: 1 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)| repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 75 repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 4 repetition[0].eventFrequency.upperBound: 6 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258702006 | hour (qualifier value) ☐ Naproxen 375 mg tablet oral 2 times daily as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value)

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;198012 Naproxen 375 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 | Oral route (qualifier value)]

unstructured[0]: 100 tablets 2 refills

unstructured[1]: as needed

purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 | Pain (finding)]

requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)|

repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 150

repetition[0].periodDuration.includeLowerBound: TRUE

repetition[0].periodDuration.includeUpperBound: TRUE

 $repetition [0]. period Duration. measure Semantic:\ Precoordinated$

Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 2 repetition[0].eventFrequency.upperBound: 2

repetition[0].eventFrequency.includeLowerBound: TRUE

repetition[0].eventFrequency.includeUpperBound: TRUE

repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)|

☐ Celecoxib 200 mg capsule oral 2 times a day 60 capsules 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

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

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;205323 celecoxib 200 MG Oral Capsule] ->(410675002 | Route of administration (attribute))->[26643006 | Oral route (qualifier value)]

unstructured[0]: 100 tablets 2 refills requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 420692007 |Conventional release oral capsule (dose form)|

repetition[0].periodDuration.lowerBound: 90 repetition[0].periodDuration.upperBound: 90

repetition[0].periodDuration.includeLowerBound: TRUE

repetition[0].periodDuration.includeUpperBound: TRUE

repetition [0]. period Duration. measure Semantic: Precoordinated

Expression 258703001 |day (qualifier value)|

repetition[0].eventFrequency.lowerBound: 2

repetition [0]. event Frequency. upper Bound: 2

repetition[0].eventFrequency.includeLowerBound: TRUE

repetition[0].eventFrequency.includeUpperBound: TRUE

 $repetition [0]. event Frequency. measure Semantic: \ Precoordinate and \ Precoordina$

ed Expression 258703001 |day (qualifier value)|

The following orders may be considered for patients who tolerate lower doses but whose pain control remains inadequate on lower doses

☐ Ibuprofen 600 mg tablet oral every 6 hours as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

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

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;197806 | Ibuprofen 600 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 | Oral route (qualifier value)]

unstructured[0]: 100 tablets 2 refills

unstructured[1]: as needed

purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 | Pain (finding)]

requestedResult.lowerBound: 1

requestedResult.upperBound: 1

 $requested Result. include Lower Bound: \ TRUE$

requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression

421026006 |Oral tablet (qualifier value)|

repetition[0].periodDuration.lowerBound: 1

repetition[0].periodDuration.upperBound: 75

repetition[0].periodDuration.includeLowerBound: TRUE

repetition[0].periodDuration.includeUpperBound: TRUE

repetition[0].periodDuration.measureSemantic: Precoordinated

Expression 258703001 |day (qualifier value)|

repetition[0].eventFrequency.lowerBound: 6 repetition[0].eventFrequency.upperBound: 6 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258702006 |hour (qualifier value)| □ Naproxen 500 mg tablet oral 2 times daily as needed for pain 100 tablets 2 refills actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 |Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx:198014 Naproxen 500 MG Oral Tablet] ->(410675002 | Route of administration (attribute))->[26643006 |Oral route (qualifier value)] unstructured[0]: 100 tablets 2 refills unstructured[1]: as needed purpose[0]: Postcoordinated Expression [277132007 | Therapeutic procedure (procedure)] ->(363702006 | Has focus (attribute))->[22253000 |Pain (finding)] requestedResult.lowerBound: 1 requestedResult.upperBound: 1 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 421026006 |Oral tablet (qualifier value)| repetition[0].periodDuration.lowerBound: 1 repetition[0].periodDuration.upperBound: 150 repetition[0].periodDuration.includeLowerBound: TRUE repetition[0].periodDuration.includeUpperBound: TRUE repetition[0].periodDuration.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| repetition[0].eventFrequency.lowerBound: 2 repetition[0].eventFrequency.upperBound: 2 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| **Topical Medications**

□ Capsaicin 0.1% cream topical 3 times a day apply to affected area 1 tube 0 refills routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

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

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;646333 Capsaicin 1 MG/ML Topical Cream] ->(410675002 | Route of administration (attribute))->[6064005 | Topical route (qualifier value)]

unstructured[0]: 1 tube, 0 refills

unstructured[1]: apply to affected area

requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 425753008 |Conventional release cutaneous ointment (dose form)|

priority: Precoordinated Expression 50811001 |Routine (qualifier value)|

repetition[0].eventFrequency.lowerBound: 3 repetition[0].eventFrequency.upperBound: 3

repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE

repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)|

□ Diclofenac sodium 1% 2 g gel topical 4 times a day apply to affected area 1 tube 0 refills routine

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

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

topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 | Direct substance (attribute))->[Rx;1043479 Diclofenac Sodium 10 MG/ML Topical Cream] ->(410675002 | Route of administration (attribute))->[6064005 | Topical route (qualifier value)]

unstructured[0]: 1 tube, 0 refills

unstructured[1]: apply to affected area

requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 425753008 |Conventional release cutaneous ointment (dose form)|

priority: Precoordinated Expression 50811001 | Routine (qualifier value) repetition[0].eventFrequency.lowerBound: 4 repetition[0].eventFrequency.upperBound: 4 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)| ☐ Lidocaine 5% patch topical apply to intact skin to cover most painful area; apply prescribed number of patches (maximum of 3); apply only 1 time for a maximum of 12 hours within a 24hour period 30 patches 0 refills routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006 | Administration - action (qualifier value)] ->(363701004 |Direct substance (attribute))->[Rx;1745091 Lidocaine 0.05 MG/MG Medicated Patch] ->(410675002 | Route of administration (attribute))->[6064005 |Topical route (qualifier value)] unstructured[0]: 30 patches, 0 refills unstructured[1]: apply to intact skin to cover most painful area; apply prescribed number of patches (maximum of 3); apply only 1 time for a maximum of 12 hours within a 24-hour period requestedResult.lowerBound: 1 requestedResult.upperBound: 3 requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE requestedResult.measureSemantic: Precoordinated Expression 739003001 | Patch (basic dose form)| priority: Precoordinated Expression 50811001 | Routine (qualifier value) repetition[0].eventFrequency.lowerBound: 24 repetition[0].eventFrequency.upperBound: 24 repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258702006 |hour (qualifier value)| ☐ Menthol 10%/methyl salicylate 15% cream topical 3 times a day apply to affected area 1 tube 0 refills routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [416118004 | Administration (procedure)] ->(260686004 | Method (attribute))->[129445006

|Administration - action (qualifier value)] ->(363701004 |Direct substance (attribute))->[Rx;311498 Menthol 100 MG/ML / methyl salicylate 150 MG/ML Topical Cream] ->(410675002 |Route of administration (attribute))->[6064005 |Topical route (qualifier value)]

unstructured[0]: 1 tube, 0 refills

unstructured[1]: apply to affected area

requestedResult.lowerBound: 1 requestedResult.upperBound: 1

requestedResult.includeLowerBound: TRUE requestedResult.includeUpperBound: TRUE

requestedResult.measureSemantic: Precoordinated Expression 425753008 |Conventional release cutaneous ointment (dose form)|

priority: Precoordinated Expression 50811001 |Routine (qualifier value)|

repetition[0].eventFrequency.lowerBound: 3 repetition[0].eventFrequency.upperBound: 3

repetition[0].eventFrequency.includeLowerBound: TRUE repetition[0].eventFrequency.includeUpperBound: TRUE repetition[0].eventFrequency.measureSemantic: Precoordinated Expression 258703001 |day (qualifier value)|

Chapter 4. Laboratory Tests

```
☐ Complete blood count 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Precoordinated Expression 26604007 | Complete blood count (procedure)
☐ Comprehensive metabolic panel 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Precoordinated Expression 85acf077-d744-48bc-b57a-fa3b5ce12d97 |Comprehensive
           metabolic panel (procedure)
☐ Hemoglobin A1c 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Precoordinated Expression 43396009 [Hemoglobin A1c measurement (procedure)]
☐ Toxicology screen 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Precoordinated Expression 314076009 |Toxicology screening test (procedure)|
□ 25-hydroxyvitamin D 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 [Requested (qualifier value)]
           topic: Precoordinated Expression 12199005 | Vitamin D, 25-hydroxy measurement (proce-
           dure)
☐ Erythrocyte sedimentation rate 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Precoordinated Expression 416838001 | Erythrocyte sedimentation rate measurement
           (procedure)
☐ C-reactive protein 1 time routine
actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]
           statementType: Precoordinated Expression 385644000 |Requested (qualifier value)|
           topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 |
           Has focus (attribute))->[392134007 | Care regimes management (procedure)]
```

Chapter 5. Consults and Referrals

Specify consults required for the	nis patient
☐ Referral care management se	ervices evaluate needs related to chronic pain routine
actionSentence[type=elm:Insta	nce, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 306238000 Referral to Social Services (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral social services evalu	nate for needs related to chronic pain routine
actionSentence[type=elm:Insta	nce, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 306238000 Referral to Social Services (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral clinical nurse specia	alist evaluate for chronic pain routine
actionSentence[type=elm:Insta	nce, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 306320001 Referral to clinical nurse specialist (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral mental health evaluation	ate for mental health interventions related to chronic pain routine
actionSentence[type=elm:Insta	nce, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 390866009 Referral to mental health team (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral mental health evaluation	ate for psychotherapy related to chronic pain routine
actionSentence[type=elm:Insta	nce, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)

topic: Postcoordinated Expression [390866009 | Referral to mental health team (procedure)] ->(363702006 | Has focus (attribute))->[45392008 |Psychologic evaluation or test procedure (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral mental health evaluate for cognitive behavioral therapy related to chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [390866009 | Referral to mental health team (procedure)] ->(363702006 | Has focus (attribute))->[704072009 | Cognitive behavior therapy care management (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral mental health evaluate for acceptance and commitment therapy related to chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [390866009 | Referral to mental health team (procedure)] ->(363702006 | Has focus (attribute))->[710137005 | Promotion of acceptance of health status (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 | Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral addiction evaluate for substance use disorder with chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 |Has focus (attribute))->[266707007 | Drug addiction therapy (regime/therapy)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 | Has focus (attribute))->[408954001 | Chronic pain control (procedure)] □ Referral addiction evaluate for tobacco cessation with chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value)

	topic: Precoordinated Expression 449861000124107 Referral to tobacco use cessation counseling program (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral pain manageme	nt evaluate for chronic pain routine
actionSentence[type=elm:I	nstance, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 306109009 Referral to pain management service (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral pain manageme	nt evaluate for opioid management with chronic pain routine
actionSentence[type=elm:I	nstance, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Postcoordinated Expression [306109009 Referral to pain management service (procedure)] ->(363702006 Has focus (attribute))->[b6216dfc-5b5f-4823-9bc8-ce9c79d67709 Management of opioid therapy (procedure)]
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
□ Referral pharmacy evalu	ate for needs related to chronic pain routine
actionSentence[type=elm:In	nstance, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 306179008 Referral to pharmacy service (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]
☐ Referral physical therapy	v evaluate for chronic pain routine
actionSentence[type=elm:I	nstance, classType=anf:ClinicalStatement]
	statementType: Precoordinated Expression 385644000 Requested (qualifier value)
	topic: Precoordinated Expression 444831000124102 Referral for physical therapy (procedure)
	purpose[0]: Postcoordinated Expression [386053000 Evaluation procedure (procedure)] ->(363702006 Has focus (at-
	tribute))->[408954001 Chronic pain control (procedure)]
□ Referral acupuncture eva	

statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[44868003 |Acupuncture (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] □ Referral tai chi evaluate for chronic pain routine ☐ Referral yoga evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[229223006 | Participation in Tai Chi (regime/therapy)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 | Has focus (attribute))->[408954001 | Chronic pain control (procedure)] □ Referral mindfulness evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[05257e84-e247-4f2e-bb83-dccd395d56a8 |Mindfulness therapy (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral meditation evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 |Has focus (attribute))->[386365008 | Meditation facilitation (procedure)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 | Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral guided imagery evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value)

topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[228565006 | Imagery technique (regime/therapy)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral hypnotherapy evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[19997007 |Hypnotherapy (regime/therapy)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 | Has focus (attribute))->[408954001 | Chronic pain control (procedure)] ☐ Referral biofeedback evaluate for chronic pain routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement] statementType: Precoordinated Expression 385644000 |Requested (qualifier value) topic: Postcoordinated Expression [3457005 | Patient referral (procedure)] ->(363702006 | Has focus (attribute))->[28150003 |Biofeedback procedure (regime/therapy)] purpose[0]: Postcoordinated Expression [386053000 | Evaluation procedure (procedure)] ->(363702006 |Has focus (attribute))->[408954001 | Chronic pain control (procedure)] Only applicable if referring to an outside facility. To inform appropriate opioid and chronic non-cancer pain treatment for this patient, please provide the following information □ prompt: Goal of Consult response: String (Single) □ prompt: Clinical FIndings response: String (Single) □ prompt: Priority (specify Routine or otherwise response: String (Single) □ prompt: Referring Physician Name response: String (Single) ☐ prompt: Referring Physician Contact Details response: String (Single)

Chapter 6. Patient and Caregiver Education

☐ Chronic pain management education routine actionSentence[type=elm:Instance, classType=anf:ClinicalStatement]

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

topic: Precoordinated Expression 408956004 |Chronic pain control education (procedure)|

Chapter 7. Tabular List

Terminology Service Request (TSR) Mappings

Table 7.1. Terminology Versions

Name	Identifer	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	12199005 Vitamin D, 25-hydroxy measurement (procedure)	Precoordinated Expression	1
SNOMED CT	133936004 Adult (person)	Adult	1
SNOMED CT	258702006 hour (qualifier value)	Precoordinated Expression	4
SNOMED CT	258703001 day (qualifier value)	Precoordinated Expression	18
SNOMED CT	26604007 Complete blood count (procedure)	Precoordinated Expression	1
SNOMED CT	306109009 Referral to pain management service (procedure)	Precoordinated Expression	1
SNOMED CT	306179008 Referral to pharmacy service (proce- dure)	Precoordinated Expression	1
SNOMED CT	306238000 Referral to Social Services (procedure)	Precoordinated Expression	2
SNOMED CT	306320001 Referral to clinical nurse specialist (procedure)	Precoordinated Expression	1
SNOMED CT	314076009 Toxicology screening test (procedure)	Precoordinated Expression	1
SNOMED CT	33022008 Hospital-based outpatient department (environment)	Outpatient	1
SNOMED CT	385644000 Requested (qualifier value)	Precoordinated Expression	41
SNOMED CT	390866009 Referral to mental health team (proce- dure)	Precoordinated Expression	1
SNOMED CT	408956004 Chronic pain control education (procedure)	Precoordinated Expression	1

System	Code	Display Text ^a	References ^b
SNOMED CT	416838001 Erythrocyte sedimentation rate mea- surement (procedure)	Precoordinated Expression	1
SNOMED CT	420692007 Conventional release oral capsule (dose form)	Precoordinated Expression	2
SNOMED CT	421026006 Oral tablet (qualifier value)	Precoordinated Expression	7
SNOMED CT	425753008 Conventional release cutaneous ointment (dose form)	Precoordinated Expression	3
SNOMED CT	43396009 Hemoglobin A1c measurement (procedure)	Precoordinated Expression	1
SNOMED CT	444831000124102 Referral for physical therapy (procedure)	Precoordinated Expression	1
SNOMED CT	449861000124107 Referral to tobacco use cessation counseling program (procedure)	Precoordinated Expression	1
SNOMED CT	453231000124104 Primary care provider (occupation)	Primary Care Provider (PCP)	1
SNOMED CT	50811001 Routine (qualifier value)	Precoordinated Expression	4
SNOMED CT	739003001 Patch (basic dose form) Precoordinated Expression 1		1
SNOMED CT	85acf077-d744-48bc-b57a-fa3b5ce12d97 Comprehensive metabolic panel (procedure)	Precoordinated Expression	1
SNOMED CT	[277132007 Therapeutic procedure (procedure)] - >(363702006 Has focus (attribute))->[22253000 Pain (finding)]	Postcoordinated Expression	7
SNOMED CT	[306109009 Referral to pain management service (procedure)] - >(363702006 Has focus (attribute))->[b6216d-fc-5b5f-4823-9bc8-ce9c79d Management of opioid therapy (procedure)]	Postcoordinated Expression 67709	1
SNOMED CT	[3457005 Patient referral (procedure)] -	Postcoordinated Expression	1

System	Code	Display Text ^a	Referencesb
	>(363702006 Has focus (attribute))->[05257e84- e247-4f2e-bb83-dc- cd395d56a8 Mindfulness therapy (procedure)]		
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute))->[19997007 Hypnotherapy (regime/ therapy)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute)) -> [228565006 Imagery technique (regime/therapy)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute)) -> [229223006 Participation in Tai Chi (regime/therapy)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute))->[266707007 Drug addiction therapy (regime/therapy)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute)) -> [28150003 Biofeedback procedure (regime/therapy)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute)) -> [386365008 Meditation facilitation (procedure)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] - >(363702006 Has focus (attribute)) -> [392134007 Care regimes management (procedure)]	Postcoordinated Expression	1
SNOMED CT	[3457005 Patient referral (procedure)] -	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	>(363702006 Has focus (attribute))->[44868003 Acupuncture (procedure)]		
SNOMED CT	[386053000 Evaluation procedure (procedure)] - >(363702006 Has focus (attribute))->[408954001 Chronic pain control (procedure)]	Postcoordinated Expression	20
SNOMED CT	[390866009 Referral to mental health team (procedure)] - >(363702006 Has focus (attribute))->[45392008 Psychologic evaluation or test procedure (procedure)]	Postcoordinated Expression	1
SNOMED CT	[390866009 Referral to mental health team (procedure)] - >(363702006 Has focus (attribute))->[704072009 Cognitive behavior therapy care management (procedure)]	Postcoordinated Expression	1
SNOMED CT	[390866009 Referral to mental health team (procedure)] - >(363702006 Has focus (attribute))->[710137005 Promotion of acceptance of health status (procedure)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;1043479 Diclofenac Sodium 10 MG/ML Topical Cream] ->(410675002 Route of administration (attribute))->[6064005 Topical route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (at-	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	tribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;1745091 Lidocaine 0.05 MG/MG Medicated Patch] ->(410675002 Route of administration (attribute))->[6064005 Topical route (qualifier value)]		
SNOMED CT	[416118004 Administration (procedure)] - > (260686004 Method (attribute)) -> [129445006 Administration - action (qualifier value)] -> (363701004 Direct substance (attribute)) -> [Rx;197805 Ibuprofen 400 MG Oral Tablet] -> (410675002 Route of administration (attribute)) -> [26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;197806 Ibuprofen 600 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;198012	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	Naproxen 375 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier val- ue)]		
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;198013 Naproxen 250 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;198014 Naproxen 500 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - > (260686004 Method (attribute))-> [129445006 Administration - action (qualifier value)] -> (363701004 Direct substance (attribute))-> [Rx;205322 celecoxib 100 MG Oral Capsule] -> (410675002 Route of administration (attribute))-> [26643006 Oral route (qualifier value)]	Postcoordinated Expression	1

System	Code	Display Text ^a	Referencesb
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;205323 celecoxib 200 MG Oral Capsule] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - action (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;310965 Ibuprofen 200 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - > (260686004 Method (attribute)) -> [129445006 Administration - action (qualifier value)] -> (363701004 Direct substance (attribute)) -> [Rx;311498 Menthol 100 MG/ML / methyl salicylate 150 MG/ML Topical Cream] -> (410675002 Route of administration (attribute)) -> [6064005 Topical route (qualifier value)]	Postcoordinated Expression	1
SNOMED CT	[416118004 Administration (procedure)] - >(260686004 Method (attribute))->[129445006 Administration - ac-	Postcoordinated Expression	1

System	Code	Display Text ^a	References ^b
	tion (qualifier value)] ->(363701004 Direct substance (attribute))->[Rx;313782 Acetaminophen 325 MG Oral Tablet] ->(410675002 Route of administration (attribute))->[26643006 Oral route (qualifier value)]		
SNOMED CT	[416118004 Administration (procedure)] - > (260686004 Method (attribute)) -> [129445006 Administration - action (qualifier value)] -> (363701004 Direct substance (attribute)) -> [Rx;646333 Capsaicin 1 MG/ML Topical Cream] -> (410675002 Route of administration (attribute)) -> [6064005 Topical route (qualifier value)]	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.

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".
D	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.
0	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
\langle	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

	ym- ool	Name	Definition
Œ	€		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: Opioids and Chronic Noncancer Pain Clinical Content White Paper

[CSD] Mental Health: Chronic Noncancer Pain Order Set Conceptual Structure Document

[KVRpt] Mental Health: Chronic Noncancer Pain Order Set KNART Validation Report

Supporting Evidence

- [Oliva 2017] Oliva EM, Bowe T, Tavakoli S, et al. Development and applications of the Veterans Health Administration's Stratification Tool for Opioid Risk Mitigation (STORM) to improve opioid safety and prevent overdose and suicide. Psychol Serv. 2017;14(1):34-49. (link [https://doi.org/10.1037/ser0000099])
- [Trafton 2017a] J. Trafton. Opioid risk stratification and mitigation tool: supporting targeted efforts to encourage and track use of recommended strategies for prevention of adverse events in patients with opioid prescriptions or opioid use disorders (AAPM December 2015 panel presentation for clearance2
- [Sanders 2017] Opioid Therapy Risk Report patient details (Office of Health Informatics Opioid KNARTs Harmonization Project OTRR Screenshots 20171222.docx; email communication and materials provided by William J. Sanders, December 22, 2017).
- [Robeck 2017a] PBM CPPO pain PhARMD template: frequently asked questions (PBM PAIN PhARMD TEMPLATE FAQ DOCUMENT2.pptx; materials provided by Ilene R. Robeck, November 27, 2017
- [Robeck 2017b] PBM PhARMD pain documentation template version 1: installation instructions, 28AUG2017 (PhARMD Pain Mgmt Note Template_Install Screenshots_28AUG2017.pptx; materials provided by Ilene R. Robeck, November 27, 2017).
- [Trafton 2017b] STORM: Patient Detail Dashboard: Stratification Tool for Opioid Risk Mitigation (STORMde-ided-screenshot.png; materials provided by Jodie Trafton, December 12, 2017).
- [Rosenberg 2017] Rosenberg JM, Bilka BM, Wilson SM, Spevak C. Opioid Therapy for Chronic Pain: Overview of the 2017 US Department of Veterans Affairs and US Department of Defense Clinical Practice Guideline. Pain Med. 2017 Sep 1 (link [https://www.ncbi.nlm.nih.gov/pubmed/29025128])
- [VA 2016] U.S. Department of Veterans Affairs; Veterans Health Administration. Querying State Prescription Drug Monitoring Programs (PDMP). VHA Directive 1306. VHA Publications website. https://www.va.gov/vha-publications/ViewPublication.asp?pub_ID=3283. Published October 19, 2016. Accessed February 8, 2018 (link [https://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=3283])
- [VA 2014] U.S. Department of Veterans Affairs; Veterans Health Administration. Informed Consent for Long-Term Opioid Therapy for Pain. VHA Directive 1005. VHA Publications website. https://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=3005. Published May 6, 2014. Accessed February 8, 2018. (link [https://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=3005])

- [NLM 2016a] U.S. National Library of Medicine. BENGAY GREASELESS PAIN RELIEVING- menthol, unspecified form and methyl salicylate cream [Johnson and Johnson Consumer Inc.]. DailyMed website. https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=0d75b27f-496e-495d-b788-0dd3c0f5a32f. Revised April 2016 (link [https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=0d75b27f-496e-495d-b788-0dd3c0f5a32f])
- [NLM 2015a] U.S. National Library of Medicine. CAPSAICIN ARTHRITIS PAIN RELIEF CREAM-capsaicin cream [McCure Health Solutions Inc.]. DailyMed website. https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=7c31736c-edaa-4390-a2fb-eab2fd495f7d. Revised April 2015. (link [https://dailymed.nlm.ni-h.gov/dailymed/drugInfo.cfm?setid=7c31736c-edaa-4390-a2fb-eab2fd495f7d])
- [NLM 2017a] U.S. National Library of Medicine. CELECOXIB celecoxib capsule [Jubilant Cadista Pharmaceuticals Inc.]. DailyMed website. https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=27d813ea-7798-09cb-734b-b970d7248f1f. Revised April 2017. (link [https://dailymed.nlm.ni-h.gov/dailymed/drugInfo.cfm?setid=27d813ea-7798-09cb-734b-b970d7248f1f])
- [NLM 2017b] U.S. National Library of Medicine. DICLOFENAC SODIUM-diclofenac gel [Amneal Pharmaceuticals LLC]. DailyMed website. https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=f64b68a5-d6d2-4e92-87e7-90af04c1f9db. Revised January 2017 (link [https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=f64b68a5-d6d2-4e92-87e7-90af04c1f9db])
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