# **Primary Care: Failed Visits Rule**

**Rule: Conceptual Structure** 

Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007, CLIN0007BA

#### **Department of Veterans Affairs (VA)**



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

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# Primary Care: Failed Visits Rule: Rule: Conceptual Structure by Knowledge Based Systems (KBS), Office of Informatics and Information Governance (OIIG), and Clinical Decision Support (CDS) Publication date 04/24/2018

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# **Preface**

#### **Table 1. Revision History**

Date	Life Cycle Event	
April 24, 2018	Published	
April 16, 2018	Reviewed	
January 5, 2018	Pre-published	
September 18, 2017	Created	

## **Table 2. Clinical White Paper Contributors**

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#### **Table 3. Artifact Identifier**

Domain	Artifact ID	Name
urn:va.gov:kbs:knart:artifact:r1	29b2e627-cf23-5347- b90d-8c5d28a4cf49	O6

# **Artifact Applicability**

Table 4. Applicability Foci, Description and Codes

Focus	Description	Code Sys- tem	Code	Value Set	Value Set Version
PatientAgeGroup	All patients			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**

No external data expression definitions are present.

#### **Triggers**

#### Table 1.1. appointmentCalendarAccessEvent

Trigger: type=DataEventTrigger, DataElementAccessed

Expression: type=elm:Instance

Annotation: Any access of the patient appointment calendar for clinical or health related services

Codes: elm:value[elm:Code]: [385644000 | Requested (qualifier value)|]elm:value[elm:Code]: [TSR-

NoCode]

## **Chapter 2. Expression Definitions**

#### Table 2.1. appointmentScheduled

Expression: type=elm:Query

Annotation: An appointment has been scheduled

Codes: elm:value[elm:Code]: [398166005 | Performed (qualifier value)|]elm:value[elm:Code]: [TSR-

NoCode]elm:value[elm:Code]: [416151008 | Scheduled - procedure status (qualifier value)|]

#### Table 2.2. appointmentDatePassed

Expression: type=elm:Query

Annotation: The date and time of the scheduled appointment occurred in the past

Codes:

#### Table 2.3. appointmentMissed

Expression: type=elm:Query

Annotation: The patient did not attend the scheduled appointment

Codes: elm:operand[elm:Code]: [410543007 | Did not attend (qualifier value)]

#### Table 2.4. missedAppointmentNotRescheduled

Expression: type=elm:Query

Annotation: The missed appointment has not been rescheduled for a future date and time

Codes:

# **Chapter 3. Actions**

◆ Notify the scheduler that the patient should be contacted and the appointment should be rescheduled.

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

"statementType:Precoordinated Expression topic:Precoordinated Expression"

(Codes: TSR-NoCode TSR-NoCode)

# **Chapter 4. Tabular List**

## Terminology Service Request (TSR) Mappings

**Table 4.1. Terminology Versions** 

Name	Identifer	Version
SNOMED CT	2.16.840.1.113883.6.96	United States Edition 20180301
RXNorm	2.16.840.1.113883.6.1	5-Mar-18

#### **Table 4.2. Terminology References**

System	Code	Display Text	References
SNOMED CT	385644000  Requested (qualifier value)	Precoordinated Expression	1
SNOMED CT	398166005  Performed (qualifier value)	Precoordinated Expression	1
SNOMED CT	410543007  Did not attend (qualifier value)	Precoordinated Expression	1
SNOMED CT 416151008  Scheduled - procedure status (qualifier value)		Postcoordinated Expression	1
SNOMED CT	TSR-NoCode	Precoordinated Expression	4

# **Chapter 5. Behavior Symbols**

Table 5.1. Group Organizational Behavior

Sym- bol	Name	Definition
•	Sentence Group	A group of related alternative actions is a sentence group if the item referenced by the action is the same in all the actions, and each action simply constitutes a different variation on how to specify the details for that item. For example, two actions that could be in a SentenceGroup are "aspirin, 500 mg, 2 times per day" and "aspirin, 300 mg, 3 times per day". In both cases, aspirin is the item referenced by the action, and the two actions represent two different options for how aspirin might be ordered for the patient. Note that a SentenceGroup would almost always have an associated selection behavior of "AtMostOne", unless it's a required action, in which case, it would be "ExactlyOne".
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 5.2. Group Selection Behavior**

Sym- bol	Name	Definition
	Any	Any number of the items in the group may be chosen, from zero to all.
•	All	All the items in the group must be selected as a single unit.
<b>©</b>	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 5.3. Required Behavior**

Sym- bol	Name	Definition
+	Must	An action with this behavior must be included in the actions processed by the end user; the end user may not choose not to include this action.

Sym- bol	Name	Definition
<b>\langle</b>	Could	An action with this behavior may be included in the set of actions processed by the end user.
>	MustUnlessDocumented	An action with this behavior must be included in the set of actions processed by the end user, unless the end user provides documentation as to why the action was not included.

#### **Table 5.4. Precheck Behavior**

Sym- bol	Name	Definition
•	Yes	An action with this behavior is one of the most frequent actions that is, or should be, included by an end user, for the particular context in which the action occurs. The system displaying the action to the end user should consider "pre-checking" such an action as a convenience for the user.
∇	No	An action with this behavior is one of the less frequent actions included by the end user, for the particular context in which the action occurs. The system displaying the actions to the end user would typically not "pre-check" such an action.

#### **Table 5.5. Cardinality Behavior**

Sym- bol	Name	Definition
•	Single	An action with this behavior may only be completed once.
*	Multiple	An action with this behavior may be repeated multiple times.

## Table 5.6. Item Flags

	ym- ool	Name	Definition
Œ	<b>€</b>		This item, in a list entry, allows the user to enter a fill in value that is not present in the set of presented choices.

## **Table 5.7. Read Only Behavior**

Sym- bol	Name	Definition
*	true	For a particular action or action group, specifies whether the elements are read only.

## Appendix A. References

This appendix contains the list of related resources and supporting documents used in creating this KNART.

## **List of References**

#### **Related Resources**

[CCWP] Failed Visits and Failed or Delayed Consults Clinical Content White Paper

[CSD] Primary Care: Failed Visits Rule Conceptual Structure Document

[KVRpt] Primary Care: Failed Visits Rule KNART Validation Report

## **Supporting Evidence**

[Kaplan-Lewis 2013] Kaplan-Lewis E, Percac-Lima S. No-show to primary care appointments: why patients do not come. J Prim Care Community Health. 2013;4:251-255

[Rose 2011] Rose KD, Ross JS, Horowitz LI. Advanced access scheduling outcomes: a systematic review. Arch Intern Med. 2011;171(13):1150-1159

[VHA 1232(1)] U.S. Department of Veterans Affairs, Veterans Health Administration (VHA). Consult Processes and Procedures, VHA Directive 1232(1). VHA Publications website. Published August 24, 2016 Accessed from: https://www.va.gov/vhapublications/ViewPublication.asp?pub\_ID=3230, October 12, 2017 (link [https://www.va.gov/vhapublications/ViewPublication.asp?pub\_ID=3230])

[VHA 1230] U.S. Department of Veterans Affairs, Veterans Health Administration (VHA). Outpatient Scheduling Processes and Procedures, VHA Directive 1230. Published July 15, 2016 Accessed from: https://www.va.gov/vhapublications/ViewPublication.asp?pub\_ID=3218 October 12, 2017 (link [https://www.va.gov/vhapublications/ViewPublication.asp?pub\_ID=3218])

[VAIQ 7798804] U.S. Department of Veterans Affairs. Memorandum: Scheduling and consult policy updates (VAIQ# 7798804), June 5, 2017 (link [https://www.va.gov/VHApublications/ViewPublication.asp?pub\_ID=5922])