

# **Gastroenterology: Colorectal Cancer Risk Rule KNART Validation Report**

## **Rule: Validation Report**

**Contract: VA118-16-D-1008, Task Order  
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**Department of Veterans Affairs**



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

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# Gastroenterology: Colorectal Cancer Risk Rule KNART Validation Report: Rule: Validation Report

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

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# Chapter 1. Basic File and Well-formedness Tests

**Table 1.1. Summary**

Information	Value
File name	CDSK_KRprt_ECA_B1ColoCanScr.xml
File size	152.0 KB
Type	Rule
Publication Date	06/18/2018
File Modification Date	06/18/2018 14:51:55
Well-formed XML	YES
MD5	56d5098f7406e693906deab70d583fc9

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# Chapter 2. XSD Schema Checks

**Table 2.1. KAS Schema Validation Summary**

Information	Value
KAS Schema Version	urn:hl7-org:knowledgeartifact:r1
Schema File	knowledgedocument.xsd
Validation Errors	0

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# Chapter 3. Schematron Checks

**Table 3.1. Editorial Convention Check**

Information	Value
Editorial Schematron Version	ISO Schematron 2016
Schema File	knart-L3-validation.sch, L3Validation.sch, KnartStyle.sch
Validation Errors	0
Validation Warnings	0

# Chapter 4. Terminology Checks via Ontoserver

**Table 4.1. Ontoserver Information**

Information		Value
Ontoserver URL		<a href="https://ontoserver.hspconsortium.org/fhir">https://ontoserver.hspconsortium.org/fhir</a>
Ontoserver Version		5.0
Date of Code Checks		06/18/2018 14:52:24
SNOMED	Version	<a href="http://snomed.info/sct/731000124108/version/20170901">http://snomed.info/sct/731000124108/version/20170901</a> , <a href="http://snomed.info/sct/900000000000207008/version/20170731">http://snomed.info/sct/900000000000207008/version/20170731</a>
	Codes	443237
LOINC	Version	2.61,2.63
	Codes	126207
RXNorm	Version	Does not exist
	Codes	0
v3 Code System EducationLevel	Version	2016-03-23
	Codes	9

**Table 4.2. Terminology and ANF Usage**

Terminology References			
Total Codes Used <sup>a</sup>		32	
Resolved <sup>b</sup>		25	
Unresolved <sup>c</sup>	7	TSR Requested Codes <sup>d</sup>	1
		SOLOR Placeholder Codes <sup>e</sup>	4
		Other Unresolved <sup>f</sup>	2
ANF Model Reference Information			
anf:ClinicalStatement		58	
anf:TSR-NoModel <sup>g</sup>		0	

<sup>a</sup>Total number of unique codes referenced in the KNART XML.

<sup>b</sup>Number of unique codes used in the KNART XML and present in ontoserver.

<sup>c</sup>Number of unique codes used in the KNART XML and not found in ontoserver.

<sup>d</sup>Number of unique code system and code pairs referenced in the KNART XML with a placeholder ('TSR-NoCode').

<sup>e</sup>Number of unique codes in uuid form referenced in the KNART XML.

<sup>f</sup>Number of other unique codes not found in ontoserver, e.g. RXNorm codes.

<sup>g</sup>KAS elements modeled as 'anf:TSR-NoModel' indicates they cannot be modeled in the current version of ANF.



**Table 4.3. TSR Requested Codes**

	Information	Value
1	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	384
	Column	114
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=384column=114]
2	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	408
	Column	114
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=408column=114]
3	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	771
	Column	114
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=771column=114]
4	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1804
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1804column=118]
5	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1822
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1822column=118]
6	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1843
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode

	Information	Value
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1843column=118]
7	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2143
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2143column=118]
8	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2161
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2161column=118]
9	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2182
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2182column=118]
10	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2203
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2203column=118]
11	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2272
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2272column=118]
12	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2290
	Column	118

	Information	Value
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2290column=118]
13	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2311
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2311column=118]
14	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2332
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2332column=118]
15	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2389
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2389column=118]
16	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2407
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2407column=118]
17	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2425
	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2425column=118]
18	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2446

	Information	Value
19	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2446column=118]
	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2467
19	Column	118
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=2467column=118]
	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	2467

**Table 4.4. SOLOR Placeholders**

	Information	Value
1	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	429
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=429column=70]
2	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	468
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=468column=70]
3	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	468
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: c27d79c3-544d-418d-92f3-0fe6e1a7f2f5
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=468column=70]
4	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	506
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a

	Information	Value
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=506column=70]
5	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	541
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=541column=70]
6	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	577
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=577column=70]
7	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	577
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: b1ad8fa9-668d-4191-930f-eebfdf13a914
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=577column=70]
8	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	613
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=613column=70]
9	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	613
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: b1ad8fa9-668d-4191-930f-eebfdf13a914
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=613column=70]
10	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	648
	Column	70

	Information	Value
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=648column=70]
11	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	684
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=684column=70]
12	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	684
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: c27d79c3-544d-418d-92f3-0fe6e1a7f2f5
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=684column=70]
13	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	886
	Column	184
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 163925a8-8c77-4832-8d57-00be4f5764d5
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=886column=184]
14	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	911
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=911column=70]
15	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	946
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=946column=70]
16	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	982

	Information	Value
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=982column=70]
17	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	982
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: b1ad8fa9-668d-4191-930f-eebfdf13a914
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=982column=70]
18	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1017
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1017column=70]
19	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1200
	Column	190
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 163925a8-8c77-4832-8d57-00be4f5764d5
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1200column=190]
20	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1265
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1265column=70]
21	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1288
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1288column=70]
22	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml

	Information	Value
	Line	1331
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1331column=70]
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1331column=70]
23	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1331
	Column	70
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: c27d79c3-544d-418d-92f3-0fe6e1a7f2f5
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1331column=70]
24	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	1399
	Column	74
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a997cc03-3e99-40eb-833a-6374c7750a3a
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=1399column=74]

**Table 4.5. Other Unresolved**

	Information	Value
1	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	206
	Column	108
	Message	Code 453231000124104, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=206column=108]
2	FileName	CDSK_KRprt_ECA_B1ColoCanScr.xml
	Line	220
	Column	105
	Message	Code 5351000124100, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_ECA_B1ColoCanScr.xml#line=220column=105]