CDSC Knowledge Management Portal

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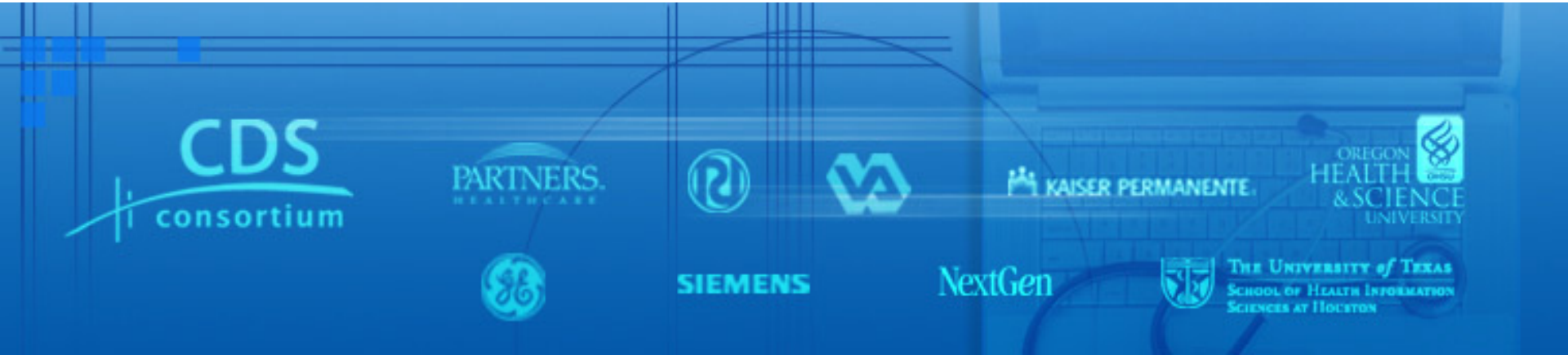


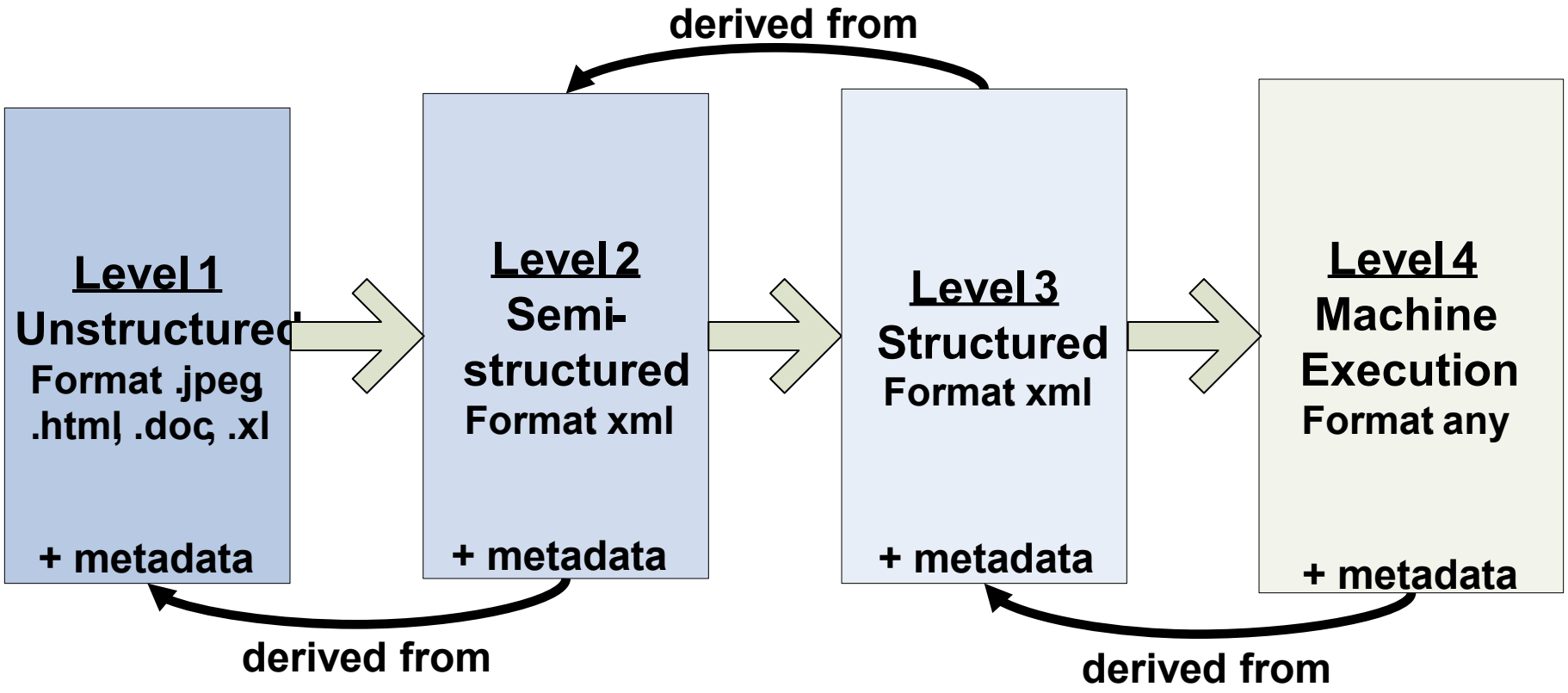
Overview

- KM Portal Components
- KTS Knowledge Model
- Critical KM Portal Requirements
- Search & Retrieve Functionalities
- Metadata
- Loadable Documents
- Examples of Documents
- KM Portal Live Demonstration

CDSC KM Portal Components

- The CDSC KM Portal is a combination of 3 components:
  - Virtual collaboration space (EMC-Documentum eRoom),
  - Content Management and Publishing Services (EMC-Documentum CMS and Web Publisher)
  - Clinical Decision Support Library - a document repository for sharing Clinical Decision Support content

Knowledge translation & specification levels



Critical KM Portal Requirements

- Versions –display all valid versions of any given spec level
- Levels –display all valid and available levels of content
- Relatedness –display “derived” from relationships among different levels of a knowledge specification
- Metadata – enables search by keyword and by filters that are applied in the publishing process

Search & Retrieve Functionality

- Search
  - Filter based search (Metadata search)
  - Key word search (free-text search)
  - Combination of Keyword and Filter Search
  - Search within the search results
- View
  - View document using native editors
  - View previous version(s) of document
  - View the metadata of each document
  - View the “derived from” document
  - View “children of” documents (future)

Metadata

- Content Type (ex. Alert)
- Clinical Domain (ex. Dermatology)
- Specification Level (ex. Semistructured)
- Clinical Information System (ex. Meditech) [Level 4 only]
- Contributing Entity (ex. Regenstrief)
- Patient Population (ex. Pediatric)
- Intended Recipient Role (ex. Pharmacist)

Types of Loadable Documents

- Level 1
  - Unstructured (human readable guideline)
- Level 2
  - Semi-structured (XML)
- Level 3
  - Structured (XML)
- Level 4
  - Executable: content executed by or imported into a system
  - Exportable: content exported from a system
  - Description: content describes an implementation
  - Illustration: content illustrates an implementation

PHS-PCHI Diabetes Guidelines - Feb 2007.doc - Microsoft Word

Major Goal in the Treatment of Diabetes in the Non-Pregnant Adult: Control the ABCs (A1c, Blood Pressure, Cholesterol)

A. A1c: Patients and providers should seek to achieve an A1c goal as close to the normal range (<6.1%) as possible, recognizing the important and increasing risks related to hypoglycemia as mean plasma glucose declines. Treatment change should be strongly considered when A1c ≥7%.

- Diabetic patients should have their HgbA1c measured biannually, more frequently if their diabetes is not well-controlled or if there has been a recent change in treatment

B. Blood pressure ≤130/80 mmHg

C. Cholesterol (Lipids)

- LDL <100 mg/dl in patients >40 years or in adults 30-40 years with additional risk factors for vascular disease
- LDL <70 mg/dl in patients with co-existing, or extensive risk factors for, vascular disease (when reaching that goal is practical)
- HDL >40 mg/dl
- Triglycerides <150 mg/dl (consider therapy when >200 mg/dl)

LEVEL 1

Page 2 Sec 1 2/2 At 5.9" Ln 26 Col 1 REC TRK EXT OVR English (U.S

Altova Authentic - [DM_level2.xml]

File Edit Project XML XSL/XQuery Authentic View Browser Tools Window Help

Module 1: ASSESS

Description: Rules for monitoring HgbA1c

Recommendation 1.1: OverdueA1c

Description: HgbA1c should be monitored biannually

Scenario: OverdueA1c

Most recent HgbA1c NOT < 6 months old

Recommended Action(s):

Order HgbA1c now

Recommendation 1.2: HighA1cMonitoring

Description: For poorly controlled diabetic patients, HgbA1c should be monitored more frequently than biannually

Scenario: High A1c between 3 and 5 months old

Most recent HgbA1c between 3 and 5 months old which is > 7%

Recommended Action(s):

Order HgbA1c now

LEVEL 2

Authentic Browser

DiabetesL3.xml DM_level2.xml

No content selected

CAP NUM SCR

Altova Authentic - [DM_level3.xml]

File Edit Project XML XSL/XQuery Authentic View Browser XBRL Tools Window Help

Recommendation *1.1*: *OverdueA1c*

Description: HgbA1c should be monitored biannually

Recommendation Scenario: **OverdueA1c**
Description: No HgbA1c result within last 6 months
Expression: HgbA1cResults6months->isEmpty()

Data mapping: HgbA1c results in last 6 months - The set of all HgbA1c results within the last 6 months

Lab Type: HgbA1c **Code:** x111 **Code System:** 2.16.840.1.113883.6.1
Status: completed **Code:** completed **Code System:** 2.16.840.1.113883.5.14

Expression: Let month : CodedValue = Factory.CodedValue("SNOMED-CT", "258706009") in patient.laboratoryResult->select(resultType.codeSystem = "LOINC" and resultType.code= "x111" and resultStatus.codeSystem = "Local" and resultStatus.code = "Completed" and resultDateTime.month.occurredWithin(6, month))
Set(LaboratoryResult) HgbA1cResults6m

Recommendation Action(s): **Order HgbA1c now**

	Message Request	**Target:** Physician Patient is overdue for HgbA1c (recent 6 months)
AND	**Procedure Request**	**Category:** Laboratory test (x346 - 2.16.840.1.113883.6.96) **Type:** HgbA1c (x2344 - 2.16.840.1.113883.6.1) **Implementation time:** 7 days
	Message Request	**Target:** Patient Hemoglobin A1c (Hbg A1c) is a blood test that measures your average blood sugar levels over the previous three months. Most people with diabetes have an Hgb A1c test every 6 months. If it's been more than 6 months since your last test, you may want to discuss Hbg A1c testing with your doctor.

LEVEL 3

Authentic Browser

DM_level3.xml

No content selected

CAP NUM SCR

```
<?xml version="1.0" encoding="UTF-8"?>
<_extension_:ExtendedActionRule xmi:version="2.0" xmlns:xmi="http://www.omg.org/XMI"
      xmlns:_extension_="http://ilog.rules.brms.extension/default">
  <eAnnotations source="ilog.rules.base_type">
    <details key="baseType" value="model.brl.ActionRule"/>
  </eAnnotations>
  <name>OP0000009_Consider Anti-platelet therapy (Not on antiplatelet_Contraindications present)</name>
  <uuid>_qJy1sIznEd6ZxdsFwkG2cQ</uuid>
  <locale>en_US</locale>
  <definition><![CDATA[if    it is not true that the Patient has Active Clinical State with code "108972005 " , code
      system is SNOMED , qualifier name "57[illegible]16009" , qualifier name code system is SNOMED , qualifier value
      "18629005" and qualifier value code system is SNOMED          and the Patient has Active Clinical State
      with code "108972005 " , code system is SNOMED , qualifier name "105[illegible]001" , qualifier name code
      system is SNOMED , qualifier value "[illegible]5177001" and qualifier value code system is SNOMEDthen
                declare 'theaction' as an action ;              set theaction to a new empty Action of
      theRecommendation with rulename "OP0000009" , rule package "Anti-platelet Therapy Rules" , version
      "1" , guideline "Anti-platelet" , operator "and" ;      add Message Request with the Message "Patient has
      CAD or equivalent, consider starting anti-platelet therapy, but potential contraindications exist." and Target
      Code "309343006" to the Request List of theaction ;              add Message Request with the Message
      "Because you have diabetes or heart disease, you might benefit from aspirin or other similar medications
      to prevent heart attacks and strokes, but there may be a good reason why your doctor has not prescribed
      it.  If you are not taking aspirin regularly, you may want to discuss whether or not you should take aspirin
      with your doctor." and Target Code "116154003" to the Request List of theaction ;              declare 'the
      RequestList' as a request list ;          set 'the RequestList' to add new RequestList ;              set the
      operation of 'the RequestList' to "or" ;                add Substance Administration Request with product
      code "C0004057" , route "C38288" , alternative text "Start aspirin" to 'the RequestList' ;      add Substance
      Administration Request with product code "C0070166" , route "C38288" , alternative text "Start
      clopidogrel" to 'the RequestList' ;      add 'the RequestList' to request lists of theaction ;       add Knowledge
      Asset Request with title "Help me choose: Anti-platelet" , identifier "http://Help me choose: Anti-platelet" ,
      identifier type "URL" , knowledge resource type "308910008" , alternative text "" to theaction
      ;]]></definition>
  <status>deployable</status>
</_extension_:ExtendedActionRule>
```


LEVEL 4 (Executable)

mhtml:file://C:\Documents and Settings\CH863\My Documents_Projects\CDS Consortium\Portal\sampl - Windows Internet Explorer

C:\Documents and Settings\CH863\My Documents_Projects\CDS Consortium\Portal\sample iLog exports\iLOG_RTS_report_j

RedirectToFullView | User Documentation | Documents and discussions r... | mhtml:file://C:\Document...

Project: ECRSRules

Package: /Anti-platelet Therapy Rules

Name: OP0000009_Consider Anti-platelet therapy (Not on antiplatelet_Contraindications present)

Documentation:

This rule fires if the patient is not currently on anti-platelet therapy and contraindications (allergies and problems)are present. Rules will fire if pt on warfarin and platelet

Definition:

```
if
  it is not true that thePatient has Active Clinical State with code "1[illegible]972[illegible]" , code system is SNOMED , qualifier name "[illegible]09" , qualifier name code system
  and thePatient has Active Clinical State with code "10897200[illegible]" , code system is SNOMED , qualifier name "4105[illegible]01" , qualifier name code system is SNOMED
then
  declare 'theaction' as an action ;
  set theaction to a new empty Action of theRecommendation with rulename "OP0000009" , rule package "Anti-platelet Therapy Rules" , version "1" , guideline "
  add Message Request with the Message "Patient has CAD or [illegible]ent, consider starting anti-platelet therapy. No potential contraindications exist." and Targ
  add Message Request with the Message "Because you have heart disease, you might benefit from aspirin or other similar medications to prevent heart attacks
it. If you are not taking aspirin regularly, you may want to discuss whether or not you should take aspirin with your doctor." and Target Code "116154003" to the
  declare 'the RequestList' as a request list ;
  set 'the RequestList' to add new RequestList ;
  set the operation of 'the RequestList' to "[illegible]" ;
  add Substance Administration Request with product code "C0004057" , route "C38288" , alternative text "Start aspirin" to 'the RequestList' ;
  add Substance Administration Request with product code "C0070166" , route "C38[illegible]" , alternative text "Start clopidogrel" to 'the RequestList' ;
  add 'the RequestList' to request lists of theaction ;
  add Knowledge Asset Request with title "Help me choose: Anti-platelet" , identifier "http://[illegible]lp me choose: Anti-platelet" , identifier type "URL" , knowledge resou
```

Properties:

status	deployable
priority	
Last Changed By	amanda
Last Changed On	Oct 30, 2009 12:34:24 PM
Locale	English (United States)
expirationDate	
effectiveDate	
Active	True
Group	
Created By	eugene

LEVEL 4 (Exportable)

http://kmportal.partners.org/content/NepGerDosingKB.xls - Windows Internet Explorer

http://kmportal.partners.org/content/NepGerDosingKB.xls

RedirectToFullView | User Documentation | Documents and discussi... | mhtml:file://C:\Docume... | http://kmportal.part...

A1 Nephros and Gerios Dosing Information: Enterprise Medication Content

Nephros and Gerios Dosing Information: Enterprise Medication Content

October 2009

Synopsis: This document contains drugs which trigger a message which suggests appropriate drug substitutions, adjusted doses and/or adjusted frequencies, based upon CrCl (Nephros) and/or age (Gerios).

Roll Up #	Drug (Rollup) Name	Route	Type	Pflag	CrCl Trigger (cc/min)	Dose List	Frequency	Max.Dose	Min.Dose	Prf.Dose	Substitute Meds	Preferred	Message
4	ACETAMINOPHEN	PO	Nephros	Nephros	15	325 MG, 325-650 MG, 650 MG, 650-1000 MG, 650-1300 MG, 1000 MG,	Q8H	1000 MG	325 MG	325 MG			
4	ACETAMINOPHEN	PO	Nephros	Nephros	50	650 MG,	Q6H	650 MG	650 MG	650 MG			
6	ACETAMINOPHEN ORAL LIQUID	PO	Nephros	Nephros	15	325 MG, 650 MG, 650-1300 MG,	Q8H	650-1300 MG	325 MG	325 MG			
6	ACETAMINOPHEN ORAL LIQUID	PO	Nephros	Nephros	50	650 MG,	Q6H	650 MG	650 MG	650 MG			
5	ACETAMINOPHEN SUPP	PR	Nephros	Nephros	15	650 MG,	Q8H	650 MG	650 MG	650 MG			
5	ACETAMINOPHEN SUPP	PR	Nephros	Nephros	50	650 MG,	Q6H	650 MG	650 MG	650 MG			
2070	ACETAMINOPHEN W/CODEINE 15MG	PO	Nephros	Nephros	15		Q8H						

Sheet1

Microsoft Excel - CAD (antiplatelet SF spec)~1.xls

File Edit View Insert Format Tools Data Window Help

Anti-platelet rules

					On	Off 1	Off 2	Off 3
			ANTI-PLATELET					
	Conditions		On Antiplatelet? (#)		Y	N	N	N
			Contra-indication to antiplatelet? (!)				Y	N
	ProvIPt Messages	Antiplatelet Therapy H, O	Patient is not on anti-platelet therapy	Because you have diabetes or heart desease, you might benefit from aspirin or other similar medications to prevent heart attacks and strokes. If you are not taking aspirin regularly, you may want to discuss whether you should take aspirin with your doctor.				Y
		Antiplatelet Therapy O	Patient is not on anti-platelet therapy, potential contraindications are	Because you have diabetes or heart desease, you might benefit from aspirin or other similar medications to prevent heart attacks and strokes. But there may be a good reason why your doctor has not prescribed it. If you are not taking aspirin regularly, you may want to discuss whether or not you should take aspirin with your doctor.			Y	
		Antiplatelet Therapy O	Patient is on anti-platelet	You are currently taking aspirin or a similar medication to prevent future heart attacks or strokes. Be sure to talk with your doctor if you are having trouble taking this medicine as prescribed or if you think you are having side effects from it.	Y			
	RX	Antiplatelet Therapy	Start Aspirin (Help Me Choose: Antiplatelet)			Y	Y	Y
		Antiplatelet Therapy	Start Plavix (Help Me Choose: Antiplatelet)			Y	Y	Y

See logic for Follow-up

Display "Print CareNotes for all newly started or adjusted medications"

Anti-platelet / Disease States / Calculations / Drug Lists / Indications / Contra-indication

Ready

LEVEL 4 (Description)

xmportal.partners.org/content/cardiacSurgeryAdmitandPreOpBWH.doc

Search · Sidewiki · Bookmarks · Check · Translate

Cardiac Surgery Admission and Pre-Op- B H

BICS Terminal Emulator - omabics4.partners.org

Print Help Defining an Order Set

```
                    Cardiac Surgery Admit and Pre-Op   Page 1
A      Admit to: 17a; Condition: Stable; Diagnosis: test
B      Allergies: Erythromycin (Dystonia, Itching, Rash) NSAIDs (GI Intolera
C  [ ] VS q8h
D  [ ] Activity: Ad lib tolerated
E  [ ] DIET: Hou
F  [ ] IV:

G  [ ] Call HO for T > 101 ,SBP > 160 ,SBP < 90 ,HR > 100 ,HR < 60 ,
         chest pain/SOB
H  [ ] Pre-Op Meds:
I  [ ] MAALOX-TABLETS QUICK DISSOLVE/CHEWABLE 1-2 TAB PO Q6H
         PRN Upset Stomach
J  [ ] COLACE (DOCUSATE SODIUM) 100 MG PO BID
K  [ ] MILK OF MAGNESIA (MAGNESIUM HYDROXIDE) 30 MILLILITERS PO QD
         PRN Constipation
L  [ ] Order EKG:

                                                Next        Cancel
```

BICS Terminal Emulator - omabics4.partners.org

Print Help Defining an Order Set

LEVEL 4 (Illustration)

CDSC KM Portal
Live Demonstration

A document is imported into Web Publisher and Metadata is tagged here:

Web Publisher

Search ▶ Preferences Logout Help

FILE EDIT VIEW TOOLS

PHSKMCDSC1Repository : Bogaty, Dan
- Inbox
- Saved Searches
- Subscriptions
- My Files
- Categories
- In-Context Editing
- Sites (Web Cabinets)
  - CDSCPortal
    - Content
- Cabinets
- Site Manager
- Administration
- Add Repository

Import: Object Definition : Content

H:\KM-AHRQ-CDSC\Testing\Sample Content\AHRQ hbprs.pdf

Apply :

Object Type & Lifecycle :

Object Type : CDSC Document (cdsc_document)

Lifecycle : cdsc_document_lc

Title:

Specification Level: *

Clinical Domain: Edit *

Patient Population: Edit *

Contributing Entity: Edit *

Clinical Information System: N/A *

Content Type: Edit

Derived From:

Intended Recipient Edit

? Finish Cancel

Here we assign level, and derived from link –
It's a free text field, must cut/past unique object name, would have preferred a more automated approach, but this would have doubled the budget

Search ▶ Preferences Logout Help

FILE EDIT VIEW TOOLS

PHSKMCDSC1Repository : Bogaty, Dan
- Inbox
- Saved Searches
- Subscriptions
- My Files
- Categories
- In-Context Editing
- Sites (Web Cabinets)
  - CDSCPortal
    - Content
- Cabinets
- Site Manager
- Administration
- Add Repository

Import: Object Definition : Content

H:\KM-AHRQ-CDSC\Testing\Sample Content\AHRQ hbprs.pdf

Apply :

Object Type & Lifecycle :

Object Type : CDSC Document (cdsc_document)

Lifecycle : cdsc_document_lc

Title: HTN

Specification Level: Level 2 - Semi-Structured *
- Level 1 - Unstructured
- Level 2 - Semi-Structured
- Level 3 - Structured
- Level 4 - Description
- Level 4 - Executable
- Level 4 - Export
- Level 4 - Illustration

Clinical Domain: ovascular Disease *

Patient Population:

Contributing Entity:

Clinical Information System: N/A *

Content Type: Edit

Derived From: anti-&-platelet-SIEMENS-2009-L3-1.0-090221fe80(

Intended Recipient Edit

? Finish Cancel

CDSC Knowledge Management Portal - Microsoft Internet Explorer provided by Partners HealthCare System

Below is a click-through legal agreement covering IP and Indemnification

Address http://stage-cdsportal

CDS consortium **Knowledge Management Portal** AHRQ

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THE BRIGHAM AND WOMEN'S HOSPITAL
CLINICAL DECISION SUPPORT ("CDS") PORTAL

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This website (the "Portal") provides access to clinical decision support processes and procedures ("CDS Content") created by healthcare providers, hospitals and medical centers (each a "Contributor") who have submitted such content to be shared with the medical community for the improvement of patient care. The Portal is offered as a result of a grant from the Agency for Healthcare Research and Quality ("AHRQ") to develop, implement and evaluate projects that advance understanding of how best to incorporate clinical decision support into the delivery of healthcare.

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File Edit View Favorites

Back

Address http://stage-cdsportal

Google

Tonya....

In addition to key word search, one can enter multiple of the following filters – or – after keyword search, filter the search return based on the metadata categories below

CDS consortium

Knowledge Management Portal

AHRQ

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Search Term :

Search | Clear Selection

Hide Advanced Search

Specification Level:

- All Levels
- Level 1 - Unstructured
- Level 2 - Semi-Structured

Intended Recipient Role:

- All Roles
- Nurse
- Patient

Contributing Entity:

- All Contributing Entities
- GE Healthcare
- Kaiser Permanente Northwest

Clinical Information System:

- All Clinical Info Systems
- GE
- Meditech

Content Type:

- Alert
- All Content Types
- Definition/Dictionaries

Patient Population:

- Adolescent
- Adult
- All Patient Population

Clinical Domain:

- Aerospace Medicine
- All Clinical Domain
- Allergy and Immunology
- Anesthesiology
- Audiology
- Chiropractic Medicine

Date From: **Date To:**

Done

Local intranet

start | 2 Internet Ex... | 5 Microsoft Of... | CDSC kmportal ... | CDSC kmportal ... | Address | 2:00 PM

CDSC Knowledge Management Portal - Microsoft Internet Explorer provided by Partners HealthCare System

File Edit View Favorites Tools Help

Address http://stage-cdsportal.partners.org/CDSCSearch.aspx

CDS consortium **Knowledge Management Portal** AHRQ

Home | About the Portal | About the Consortium | FAQ | Glossary | Terms of Use | Contact Us

Search Term :

diabetes [Search]

Here we can see that diabetes returns multiple documents

[Show Advanced Search]

[Collapse Results]

Title: **CDSCDiabetesL3**
(FileName: http://cdsportal.partners.org/transformXML.aspx?xmlFileName=CDSCDiabetesL3-PHS-2010-L3-1.0-090221fe80012048.xml)
Open or Save as XML

Specification Level	Contributing Entity	Content Type
Level 3 - Structured	Partners Healthcare Systems	Reminder

Description: Content contains 11 discrete reminders for screening, surveillance, and prevention of diabetic complications.

Show Details..

Title: **CDSCDiabetesL2**
(FileName: http://cdsportal.partners.org/transformXML.aspx?xmlFileName=CDSCDiabetesL2-PHS-2010-L2-1.0-090221fe80012049.xml)
Open or Save as XML

Done Local intranet

start 2 Internet Explorer 5 Microsoft Office O... CDSC kmportal TEP d... 2:02 PM

CDSC Knowledge Management Portal - Microsoft Internet Explorer provided by Partners HealthCare System

File Edit View Favorites

Back

Scrolling down, multiple levels and types are retrieved

Address http://stage-cdsportal.partners.org/CDSCSearch.aspx

Google Search Sidewiki Bookmarks Check Translate Tonya....

Title: **Diabetic Complication Snomed Classification Subset L4**
(FileName: http://cdsportal.partners.org/content/Diabetic-Complication-Snomed-Classification-Subset-L4-PHS-2010-L4EXP-1.0-090221fe8001457c.xls)

Specification Level	Contributing Entity	Content Type
Level 4 - Export	Partners Healthcare Systems	Definition/Dictionaries

Description: Clinical State Subset of SNOMED terms for Complication of Diabetes

Show Details..

Title: **Diabetes Mellitus Snomed Classification Subset L4**
(FileName: http://cdsportal.partners.org/content/Diabetes-Mellitus-Snomed-Classification-Subset-L4-PHS-2010-L4EXP-1.0-090221fe8001457d.xls)

Specification Level	Contributing Entity	Content Type
Level 4 - Export	Partners Healthcare Systems	Definition/Dictionaries

Description: Clinical State Subset of SNOMED terms for Diabetes Mellitus

Show Details..

Title: **PHS Diabetes Guidelines 2009 L1**
(FileName: http://cdsportal.partners.org/content/PHS-Diabetes-Guidelines-2009-L1-L1-1.0-090221fe80014579.pdf)

Specification Level	Contributing Entity	Content Type
Level 1 - Unstructured	Partners Healthcare Systems	Not Available

Local intranet

start 2 Internet Explorer 5 Microsoft Office O... CDSC kmportal TEP d... Address 2:03 PM

CDSC Knowledge Management Portal - Microsoft Internet Explorer provided by Partners HealthCare System

File Edit View Favorites Tools Help

Back Search Favorites

Address http://stage-cdsportal.partners.org/CDSCSearch.aspx

Google Search Sidewiki Bookmarks Check Translate Tonya....

Title: CDSCDiabetesL3
(FileName: http://cdsportal.partners.org/transformXML.aspx?xmlFileName=CDSCDiabetesL3-PHS-2010-L3-1.0-090221fe80012048.xml)
Open or Save as XML

Specification Level	Contributing Entity	Content Type
Level 3 - Structured	Partners Healthcare Systems	Reminder

Description: Content contains 11 discrete reminders for screening, surveillance, and prevention of diabetic complications.

Hide Details..

Opening details link exposes more information and any derived-from relationships, here a Level 3 is derived from a Level 2

Metadata

Version Number:	
Specification Level:	
Clinical Domain:	Internal Medicine Internal Medicine:Endocrinology Preventive Medicine Primary Care
Content Type:	Reminder
Contributing Entity:	Partners Healthcare Systems
Clinical Information System:	Not Available
Intended Recipient Role:	Patient Physician
Patient Population:	Adult

Derived From :
Title : CDSCDiabetesL2
(Version: 1)(FileName: http://cdsportal.partners.org/transformXML.aspx?

Local intranet

start 2 Internet Explorer 5 Microsoft Office O... CDSC kmportal TEP d... Address 2:04 PM

CDSC Knowledge Management Portal - Windows Internet Explorer

http://cdsportal.partners.org/transformXML.aspx?xmlFileName=CDSCDiabetesL3-PHS-2010-L3-1.0-090221fe8001

File Edit View Favorites Tools Help SnagIt

CDSC Knowledge Management Portal

Page Tools

DM guideline for AHRQ CDSC pilot (Level 3)

Rules for managing outpatient adult patients with non-gestational diabetes mellitus

expand/collapse | codes | classification table

Navigation

- Structured Guideline
  - Metadata
  - Scenario: Adult with non-gestational DM clinical state
  - Module ASSESS
    - Rec 1: Order HgbA1c Now (Overdue Hgb...
    - Rec 2: Order HgbA1c (Almost overdue ...
    - Rec 3: Order HgbA1c now (Recent poor...
  - Module SCREEN
    - Rec 1: Actions to consider for DM pa...
    - Rec 2: Actions to consider for DM pa...
    - Rec 3: Proteinuria screening (No est...
  - Module MANAGE
    - Rec 1: Start ACEI (DM patient with n...

- **Recommendation 1: Order HgbA1c Now (Overdue HgbA1c)**

  description: Glycosylated hemoglobin A1c should be monitored biannually

  + *Metadata*

  - If: OverdueHgbA1c

    description: No glycosylated hemoglobin A1c result within last 6 months

    - Data mapping: HgbA1c results in last 6 months

      description: The set of all glycosylated hemoglobin A1c results within the last 6 months

      Data info: HgbA1cResults6m (type: Set(LaboratoryResult))

      + Patient data (3)

      expression:
```
Let month : CodedValue = Factory.CodedValue
("2.16.840.1.113883.6.8", "mo") in patient.laboratoryResult->select
(resultType.codeSystem = "2.16.840.1.113883.6.1" and
(resultType.code= "17856-6" or resultType.code="4548-4" or
resultType.code="4549-2") and resultStatus.codeSystem =
"2.16.840.1.113883.5.14" and resultStatus.code = "completed" and
resultDateTime.high.occurredWithin(6, month))
```

More Information

Above is a Level 3, displayed with a style sheet

PARTNERS HEALTHCARE KAISER PERMANENTE SIEMENS NextGen OREGON HEALTH & SCIENCE UNIVERSITY THE UNIVERSITY of TEXAS SCHOOL OF HEALTH INFORMATION SCIENCES AT HOUSTON

CDSC Knowledge Management Portal - Windows Internet Explorer

http://cdsportal.partners.org/transformXML.aspx?xmlFileName=CDSCDiabetesL2-PHS-2010-L2-1.0-090221fe8001

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CDSC Knowledge Management Portal

Page Tools

Diabetes guideline for AHRQ CDSC pilot (Level 2)

Rules for managing outpatient adult diabetic patients

expand/collapse | codes | classification table

Navigation

- Structured Guideline
  - Metadata
  - Scenario: EVOKES
  - Module
    - Rec 1: OverdueA1c
    - Rec 2: HighA1cMonitoring
  - Module
    - Rec 1: Overdue Eye Exam
    - Rec 2: Overdue Foot Exam
    - Rec 3: Overdue microalbuminuria
  - Module
    - Rec 1: HighA1c.StartOralAgentOrInsulin
    - Rec 2: HighA1c.StartMetformin
    - Rec 3: OralAgent

+ **Metadata**
+ Applies to: EVOKES
- **Module: ASSESS**
  - *description: Rules for monitoring HgbA1c*
  - **Recommendation 1: OverdueA1c**
    - HgbA1c should be monitored biannually
    - + Applies to: OverdueA1c
    - *description: Order HgbA1c now*
  - + **Recommendation 2: HighA1cMonitoring**
+ **Module: SCREEN**
+ **Module: MANAGE**

More Information

That level 3 was derived from this level 2

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Back Search Favorites

Address http://stage-cdsportal.partners.org/CDSCSearch.aspx?pageId=1

Google Search Sidewiki Bookmarks Check Translate Tonya....

All Content Types
Definition/Dictionaries

Adult
All Patient Population

Clinical Domain:

Nutrition Dietetics
Obstetrics and Gynecology
Occupational Therapy
Opthalmology
Optometry
Oral Surgery
Orthopedic Surgery
Orthotics Prosthetics
Otolaryngology
Palliative Care
Pathology
Pharmacy
Physical Medicine and Rehabilitation

Date From: **Date To:**

Above one can set date parameters
Below is a search return for Pharmacy CDS,

Collapse Results

Title: **Geriatric Expert Medication Dosing Decision Table L4**
(FileName: http://cdsportal.partners.org/content/Geriatric-Expert-Medication-Dosing-Decision-Table-L4-PHS-2010-L4EXP-1.0-090221fe8001457e.xls)

Specification Level	Contributing Entity	Content Type
Level 4 - Export	Partners Healthcare Systems	Order Refinement

Description: Decision table containing dosing defaults and parameters for expert dosing of medications in geriatric population.

Show Details..

Done Local intranet

start 2 Internet Explorer 5 Microsoft Office O... CDSC kmportal TEP d... Address 2:06 PM

http://cdsportal.partners.org/content/Geriatric-Expert-Medication-Dosing-Decision-Table-L4-PHS- - Microsoft Internet Explorer p

File Edit View Insert Format Tools Data Go To Favorites Help

Address http://cdsportal.partners.org/content/Ger

A2 'January 2010

Below is the level 4, an export, of PHS geriatric dosing decision tables. We share this within Partners Healthcare so that our Meditech/Siemens sites, that cannot consume our service, can leverage the information and build it into their respective environments

Gerios Dosing Information: Ente

January 2010

Synopsis: This document contains a subse a Gerios message is age wide knowledge base and is available to applications as a common service. Recommendations are constructed based upon knowledge experts' suggestions. This documen date indicated. Updates to this Drug Drug Interaction Summary are posted each quarter.

Roll Up #	Drug (Rollup) Name	Route	Type	Pflag	Trigger (age)	Dose List	Frequency	Max.Dose	Min.Dose	Prf.Dose	Subst Meds
2070	ACETAMINOPHEN W/CODEINE 15MG	PO	Gerios	Nephros	65	1 TAB, 2 TAB,	Q6H	2 TAB	1 TAB	1 TAB	
8	ACETAMINOPHEN W/CODEINE 30MG	PO	Gerios	Nephros	65	1 TAB, 1-2 TAB, 1/2 TAB, 1/2-1 TAB, 2 TAB,	x1	2 TAB	1 TAB	1/2 TAB	
2071	ACETAMINOPHEN	PO	Gerios	Nephros	65	1 TAB, 1/2 TAB, 1/4 TAB,	x1	1/4 TAB	1 TAB	1/4 TAB	ACET

Sheet1

Unknown Zone

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Level 3 - Structured
Level 4 - Description

Nurse
Patient

Contributing Entity:

All Contributing Entities
GE Healthcare
Kaiser Permanente Northwest

Clinical Information System:

All Clinical Info Systems
GE
Meditech

Content Type:

Alert
All Content Types
Definition/Dictionaries

Patient Population:

Adolescent
Adult
All Patient Population

Clinical Domain:

Aerospace Medicine
All Clinical Domain
Allergy and Immunology
Anesthesiology
Audiology
Chiropractic Medicine
Critical Care Medicine
Dentistry
Dermatology
Emergency Medicine
Family Medicine
General Medicine
Internal Medicine

Date From: **Date To:**

We can search by "document level" to see, for example, only Level 4 documents

Collapse Results

Title: **Colorectal Cancer Screening Reminder High Risk L4**
(FileName: http://cdsportal.partners.org/content/Colorectal-Cancer-Screening-Reminder-High-Risk-L4-PHS-2010-L4DES-1.0-090221fe8001457b.doc)

Local intranet

start Christine says..... CDSC Knowledg... 5 Microsoft Of... CDSC kmportal ... Address 2:16 PM