

THE INDIAN HEALTH SERVICE

Clinical (EHR) Reminders – More than just a memory jogger



Superior Health Information Management
Now and for the Future

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Session Objectives

At the end of this session, participants should be able to:

- Understand the basic end user functionality of Clinical Reminders

What are Clinical (EHR) Reminders?

“The Clinical Reminders system allows caregivers to track and improve preventive healthcare and disease treatment for patients and to ensure that timely clinical interventions are initiated.” (VA Vista Website)

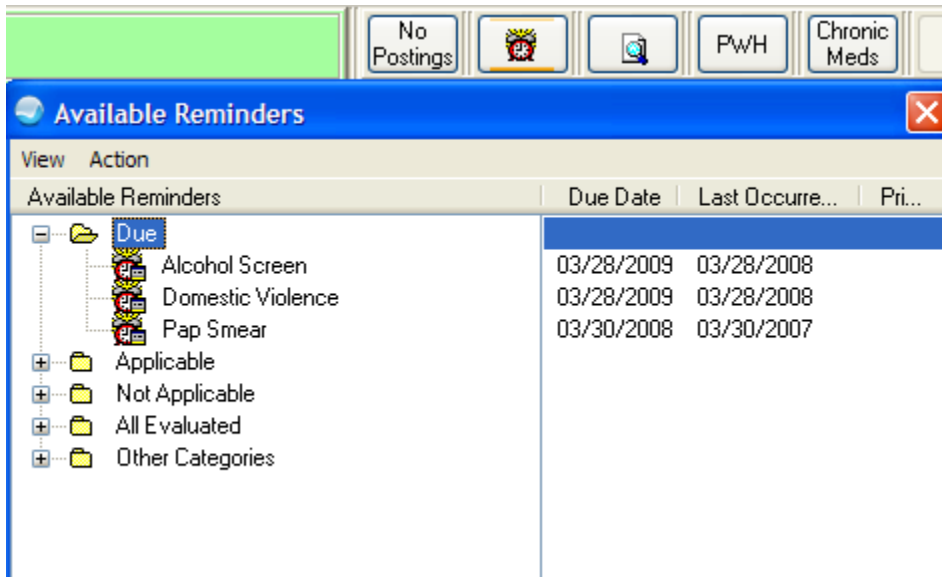
Simple terms:

Clinical Reminders chart reviews for you and tells you what the patient needs

Where are Clinical (EHR) Reminders?

They are visible from 4 places in EHR

“Alarm clock” icon on the toolbar

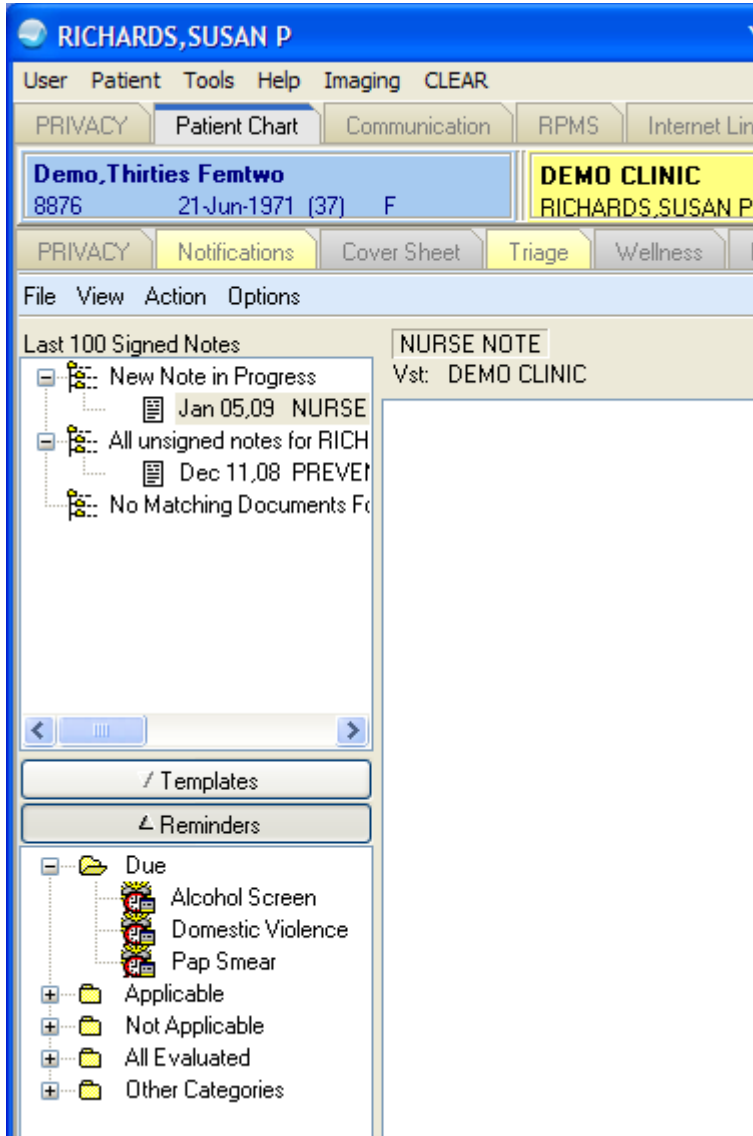


Where are Clinical (EHR) Reminders?

Reminders list on the Cover Sheet display DUE reminders

Reminders	
Reminder ▲	Date
Alcohol Screen	28-Mar-2009 10:08
Domestic Violence	28-Mar-2009 10:08
Pap Smear	30-Mar-2008 11:20

Where are Clinical (EHR) Reminders?



“Reminders drawer”
on the Notes tab

Where are Clinical (EHR) Reminders?

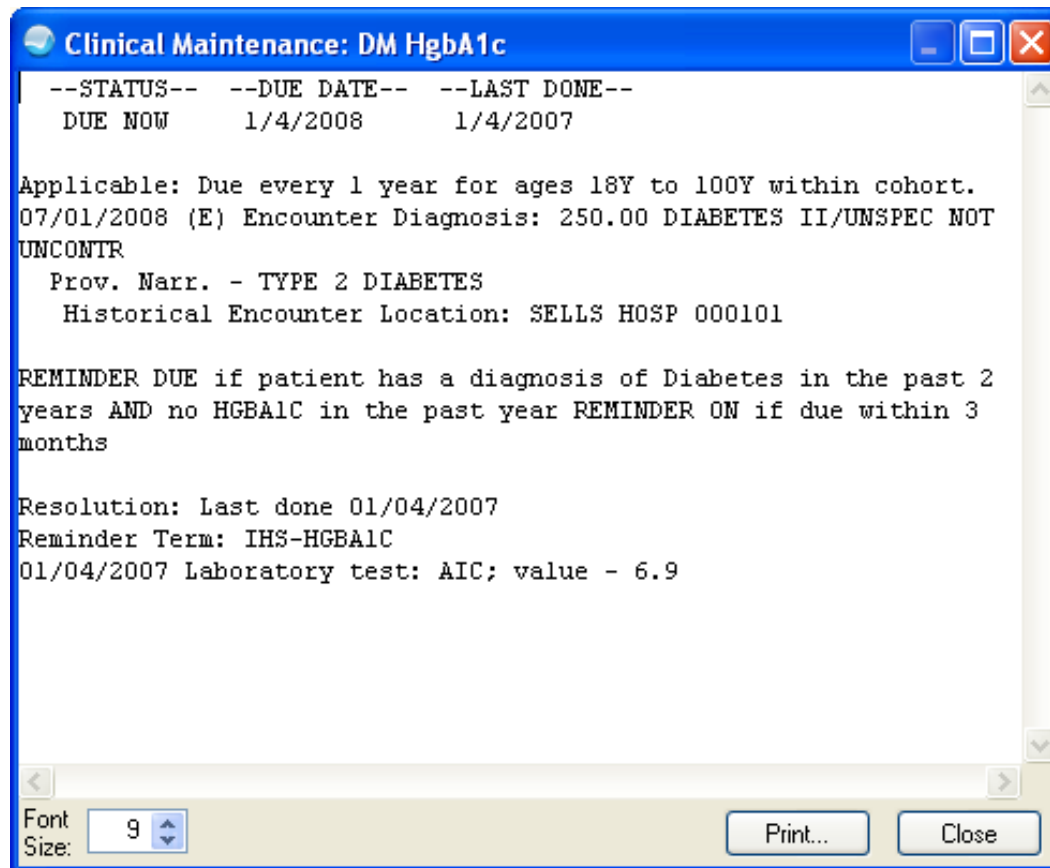
Reports tab (requires configuration):

The screenshot shows an EHR interface for YAKAMA INDIAN HEALTH CLINIC. The patient is identified as Demo, Thirties Femthree (14004), born 02-Mar-1975. The 'Reports Page' is active, displaying a 'Nursing Reminder Summary' for 01/05/2009. The summary includes a table of screening and immunization items with their status, due dates, and last done dates.

	--STATUS--	--DUE DATE--	--LAST DONE--
Alcohol Screen	RESOLVED	05/16/2009	05/16/2008
Domestic Violence	RESOLVED	05/16/2009	05/16/2008
Depression Screen	RESOLVED	05/16/2009	05/16/2008
Tobacco Screen	RESOLVED	05/16/2009	05/16/2008
Flu Shot Immunization	N/A		01/05/2009
Pneumovax Immunization	N/A		01/05/2009

Where are Clinical (EHR) Reminders?

Details are available by right-clicking on a reminder



What are Clinical Reminder Dialogs?

- Clinical Reminder Dialogs facilitate documentation
 - Looks like a Template
 - Resolves the reminder (enters info into EHR/PCC)
 - Creates the note

... all at the same time!!!
- Generates order
 - Meds
 - Labs
 - Consults
- Supports treatment algorithms

Reminder Resolution: Mammogram

MAMMOGRAM ORDERED AT THIS ENCOUNTER

Check to order mammogram from radiology

MAMMOGRAM NOT ORDERED

Mammogram previously ordered. Counseled on importance of follow-through.

HISTORICAL DATA

Historical Bilateral Screening Mammogram reported.

Date: * September 4 2008

Location: * Valley Imaging

Results and source of info: * Per patient-normal

Per report-no detectable malig

Per report-needs addl imaging

Per report-no interval change

Per patient-normal

Per patient-needs addl imaging

Per patient-no interval change

Per patient-results unknown

Historical Diagnostic Bilateral Mammogram reported.

Historical Diagnostic Unilateral Mammogram reported.

* Indicates a Required Field

***** CLINICAL REMINDERS ACTIVITY *****

Mammogram:

Historical Bilateral Screening Mammogram reported.

Date: September 4, 2008

Location: Valley Imaging

Results and source of info: Per patient-normal

Procedures: MAMMOGRAM, SCREENING (Historical)



Clear

Clinical Maint

< Back

Next >

Finish

Cancel

Why do we need reminder systems?

- Improve preventive health care tracking
- Improve disease treatment monitoring
- Assist in clinical guideline implementation
- Improve patient safety
- Improve capture of GPRA and other reporting measure data

Why can't we just use the Health Summary reminder system with EHR?

- The Health Summary reminder system *is not highly visible* in EHR
- The Health Summary reminder system *does not have a documentation tool* for EHR
 - No longer using PCC+

Do we need Clinical (EHR) Reminders?

YES...

- Clinical (EHR) Reminders restores:
 - A visible reminder system
 - A streamlined documentation tool
- Clinical (EHR) Reminders additionally delivers:
 - Locally configurable tools to solve local problems
 - Reports tool to extract real time data on specific reminder

Types of Clinical (EHR) Reminders

- National Reminders
 - Delivered to all sites
 - Based on same logic as Health Maintenance reminders
 - Many have associated 'dialogs' for data entry/note generation
- Local Reminders
 - Written at a local site to solve a particular clinical problem
 - Can be shared between sites
 - Dialogs can also be shared
- Reminder Reports
 - Can quickly extract data by provider
 - Very helpful for local reminders in identifying and tracking site specific issues

A little “Reminders” lingo...

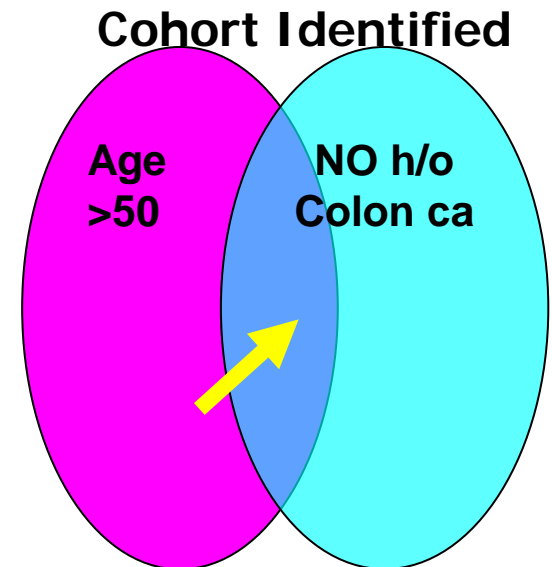
Finding

- A FINDING is a piece of information that the reminder searches for in the computer
- FINDINGS are used to determine:
 - Who needs an intervention (cohort)
 - What resolves the reminder

Findings include individual or groups of Labs, Pt Ed Topics, Taxonomies of codes (ICD9, ICD0, CPT), Exam, Measurements, Health Factors, Medications...

Applicable

- The *Cohort* is the “who needs the intervention”
- A reminder is **APPLICABLE** to a patient if they are in the cohort



Resolution

- What will turn this reminder OFF?
 - DM HgbA1C
 - Lab test
 - DM ACE/ARB
 - Current & filled rx for ACEI or ARB
- A reminder is considered RESOLVED if the intervention (finding) defined by the reminder has been met/found

Clinical Maintenance: DM HgbA1c

--STATUS-- --DUE DATE-- --LAST DONE--
DUE NOW 1/4/2008 1/4/2007

Applicable: Due every 1 year for ages 18Y to 100Y within cohort.
07/01/2008 (E) Encounter Diagnosis: 250.00 DIABETES II/UNSPEC NOT
UNCONTR

Prov. Narr. - TYPE 2 DIABETES

Historical Encounter Location: SELLS HOSP 000101

Cohort - DM dx

REMINDER DUE if patient has a diagnosis of Diabetes in the past 2
years AND no HGBA1C in the past year REMINDER ON if due within 3
months

Resolution: Last done 01/04/2007

Reminder Term: IHS-HGBA1C

01/04/2007 Laboratory test: A1C; value - 6.9

Resolution -
found lab test

Font
Size:

9

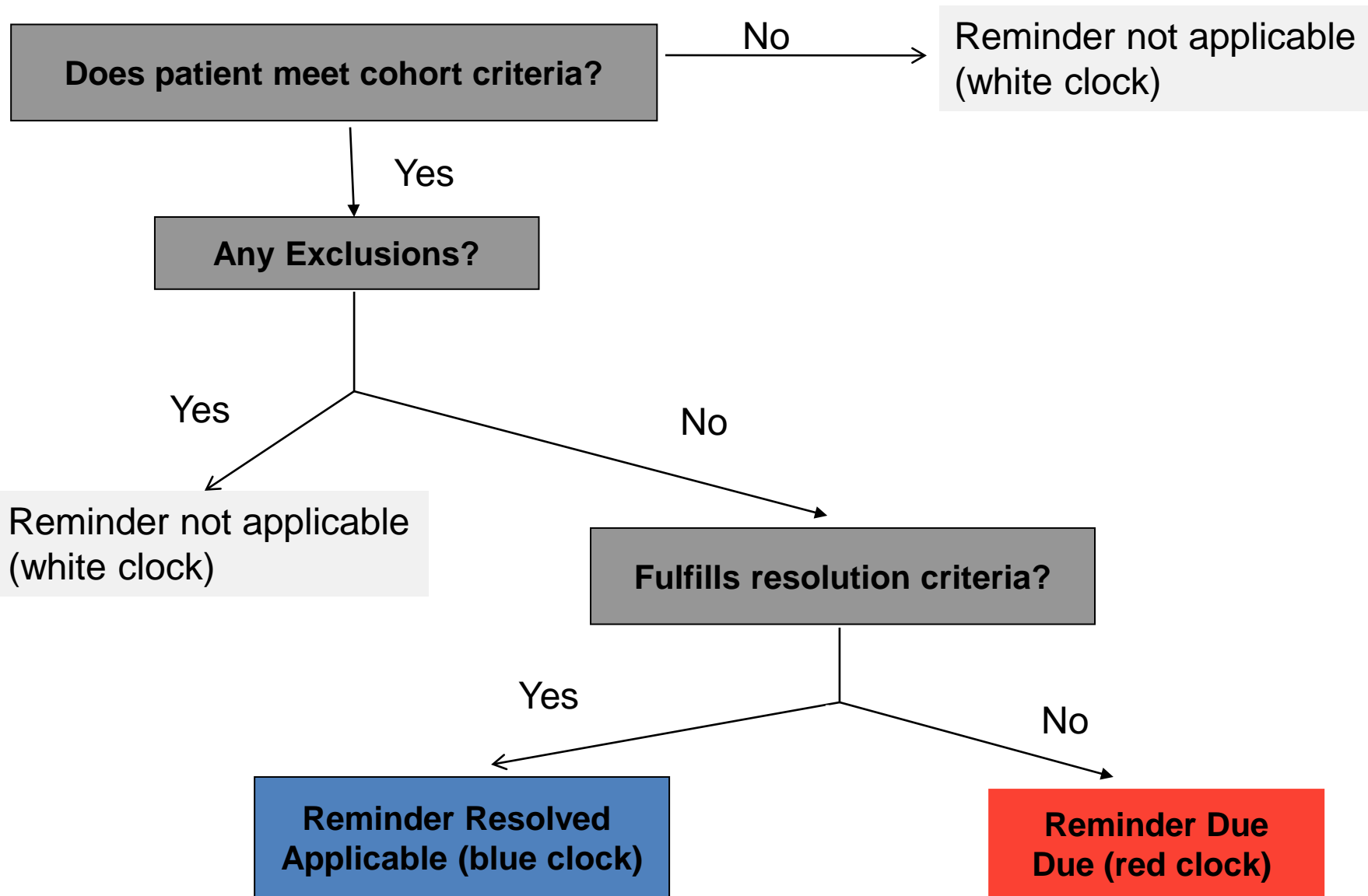
Print...

Close

Due

A reminder is DUE for a patient if they are in the cohort (applicable) and have not yet had the intervention (finding) that the reminder is seeking.

Basic Reminder Logic



National Reminders

- PXRM Patch 1005
 - Delivered basic set of reminders
 - Delivered basic set of dialogs
- PXRM Patch 1006
 - Updated reminders
 - Updated dialogs
- PXRM Patch 1007
 - Updated reminders
 - Updated dialogs
 - New reminder/Dialogs
- PXRM Patch 1008 (in development)
 - Major Update
 - New reminders/dialogs
 - Dialog specific tools

National Reminders

- Logic is based on standards
 - PCC Health Maintenance Reminders
 - PCC Best Practice Prompts
 - National Guidelines and standards of care with IHS Subject Matter Expert review
 - Immunization Guidelines
- GPRA guidelines and other quality indicators should be used to determine which reminders to implement at your site

National Reminders - Immunizations

- Pediatric and adult immunizations
- Associated dialogs to enter EHR/PCC data and write note simultaneously

Immunization dialog

RPMS-EHR

User Patient Tools Help

Patient Chart Communication

Demo, Female A
21334 10-Aug-1976 (31) F

DIABETES
USER, DEMO

Notifications Cover Sheet Triage Wellness Notes Services Prob/POV Orders Medications Labs D/C Summ Reports Consults TEST

Chief Complaint Vitals ADR Personal Health **Problem List** Historical Services Labs

Medications Orders POV Pick List Visit Services Super Bills

File View Action Options

Last 100 Signed Notes

- New Note in Progress
 - Aug 02, 08 PC A
- All unsigned notes for U
 - Jul 14, 08 PC AC
 - Jul 12, 08 PC AC
- All signed notes
 - Jun 30, 08 PC A
 - Jun 30, 08 PC A
 - Jun 30, 08 ADV

Templates

Reminders

- Due
 - HepB Adult Immu**
 - High Risk Pneumov
- Applicable
- Not Applicable
- All Evaluated
- Other Categories

PC ACUTE CARE
Vst: DIABETES

Reminder Resolution: HepB Adult Immunization

Immunization forecaster indicates patient should be considered for a Hep B vaccination.

Check to document immunization information.

Patient received Hepatitis B adult immunization at this visit.

Lot Number: * (None selected)

Imm Site: * (None selected)

Injection Volume: 1.00

Vacc Info Sheet Date: 18-Jul-2007

Comment

Patient indicated Hepatitis B immunization was received at another facility.

Patient refused Hepatitis B immunization at this visit.

Check to document immunization education done at this visit.

* Indicates a Required Field

CLINICAL REMINDER ACTIVITY

HepB Adult Immunization:
Immunization information
Patient received Hepatitis B adult immunization at this visit.
Injection Volume: 1
Vacc Info Sheet Date: July 18, 2007

Clear Clinical Maint < Back Next > Finish Cancel

National Reminders – Diabetes care

Delivered with dialogs:

- HgbA1C
- ACE/ARB
- Aspirin
- Anti-platelet (with known CVD)
- Dental Exam (part of general reminders)
- Eye Exam
- Foot exam
- Nephropathy assessment and monitoring
- Lipid
- Blood Pressure

National Reminders – Measurements

Delivered with dialogs:

- Height
- Senior Height
- Weight
- Blood Pressure
- Vision
- Senior Vision
- Hearing

National Reminders – Screening/Early Detection

Delivered with dialogs ***informational dialogs only

Alcohol Screen

Colorectal Cancer Screen

Chlamydia

Depression Screen

EPSDT***

Fall Risk Screen

HGB/HCT

HIV

IPV Screen

Lipids

Mammogram

Newborn Hearing Screen

Osteoporosis screen

Pap

PPD

Tobacco use/

environmental exposure

National Reminders – Other

- No Allergy Assessment (no dialog)
- Asthma (bundled dialog)
 - Primary provider
 - Plan
 - Control
 - Severity
 - Steroids
 - Risk for exacerbation
- CVD risk (bundled dialog)
- Depo Provera

National Reminder – Dialog tools

- Screening bundle
- Alcohol Screening and Brief Intervention (ASBI)
- Tobacco counseling and intervention

Developmental Reminders/Dialogs

“Developmental” reminders and dialogs are nationally vetted, developed and released but are not yet part of the national set.

- Developed ahead of PCC Health Maintenance Reminders or Best Practice prompts so final version with computed finding could not yet be delivered but field requests a tool
- Discipline specific or long term project requested tools and successful field tested tools that are vetted but prior to including in national set, want field use and feedback (ie. Pharmacy managed clinic, agency wide nursing initiative, successful IPC initiatives)
- Facility configuration specific tools (ie. Small site, inpatient, etc).

Developmental Reminder/Dialogs

- Medication counseling brief (dialog)
- Medication therapy management comprehensive (dialog)
- Asthma intake (dialog)
- Activity level (reminder and dialog)

The future

- Reminders can be locally created and used for both problem identification and interventions
- Dialogs can be used to resolve reminder
- Dialogs can stand along and be used as documentation tools like PCC+
- Reminders and Dialogs can be SHARED between sites

CAC Resources

- FTP folder
 - <ftp://ftp.ihs.gov/pubs/EHR/Training/Guides/EHR%20Reminders/>
- Sharepoint site for those with D1 account:
 - <http://workgroups.ihs.gov/sites/reminders/default.aspx>
- Recorded webex trainings
 - Reminders start to finish (several done by Mary Hager)
 - Getting started series (several done by Susan Richards)
 - Road map to deployment
 - Reminders – copy and customize
 - Dialogs – customize
 - Importing/Exporting reminders

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Questions & Discussion



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