CLINICAL REMINDERS OVERVIEW

PRESENTERS

- Patrick Redington – Primary developer for Clinical Reminders in VA

- Alan Montgomery – Primary support for Clinical Reminders in VA

CLINICAL REMINDER PACKAGE USES

- Point of care decision support
  - Clinical reminders and dialogs
  - Order checks
- Patient surveillance
  - ADE, suicide, infection control
  - Patient contact and follow-up
- Performance measures
  - Compliance and tracking
  - Provider and facility report cards
- Reporting
  - Gatifloxacin, county health reports
- Patient reminders (MyHealtheVET)
- Research

CLINCIAL REMINDER PACKAGE FUNCTIONALITY

- Reminder evaluation
  - Based on reminder index
  - Has plug-in capability
- Dialogs
- Reports
- Patient lists
- Extracts
- Reminder exchange
- All content is data
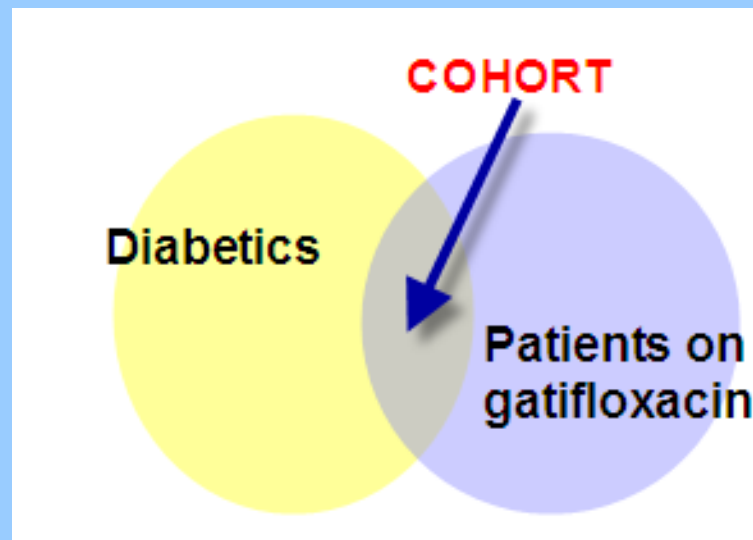
WHAT ARE CLINICAL REMINDERS

- Electronic reminders based on diagnoses or other **V***IST***A** patient data

- Set to return at a given frequency

- Based on Boolean logic

- Can be made to apply or be satisfied by patient data recorded as a data element

WHAT DO CLINICAL REMINDERS DO FOR THE CLINICIAN

- Inform clinicians when a patient is due to receive clinical activity

- Target the location/provider that best manages the resolution clinical activity

- Identify patients a reminder "applies" to, based on **V**IST**A** patient data – COHORT

- Identify what clinical activities "resolve or satisfy" the reminder – RESOLUTION

- Summarize pertinent patient information to aid the clinician in deciding follow-up

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COHORT

- A group of people to be evaluated
  - All diabetic patients
  - Diabetic patients on the drug gatifloxacin
    - See Diagram

RESOLUTION

- A reminder is considered RESOLVED (or SATISFIED) if the conditions defined by the reminder have been met.

WHAT MAKES ALL THIS WORK

- Findings
  - Taxonomy   Lab Test
  - Radiology procedure   Health Factor
  - Education Topic   Computed Finding
  - Drug   Drug Class
  - Drug Generics   Reminder Term
  - Orderable Item   Mental Health Test
  - Immunization   Exam
  - Skin Test   Vitals measurement
  - Location list
  - —

BOOLEAN OPERATORS

Boolean Operator	Symbol
AND	&
OR	!
NOT	'
AND NOT	&'
OR NOT	!'

FUNCTION FINDINGS

- Perform a computation on the result of regular findings (Count, MRD, Max or Min Date, Duration, String of findings, Date Difference, Value)

- Are named with a number: 1, 2, etc.

- Can be used in cohort logic, resolution logic or as informational findings

- Allow shorter custom logic statements
  - Custom logic statements easier to write and read

- Use ONE of the following operators:
  - ·   &   !   '   >   <   =

FUNCTION FINDINGS

- Types of Function Findings
  - FI - makes for shorter evaluation logic
  - MRD – useful in comparing dates of findings
  - COUNT – useful in counting the instances of findings
  - DIFF_DATE – useful in calculating days between findings
  - DURATION – useful in calculating how "old" a finding is
  - VALUE – useful in comparing values of different or same finding. Mostly used in LAB and VITALS
  - NUMERIC – useful in changing values in comments to computable data
  - MIN_DATE – useful in comparing the oldest date of

DIALOGS

- Enable providers to interact with reminders via a GUI environment

- Allow information to be given to providers about specifics for a given patient

- Branching Logic allows dialogs to make decisions on what to show providers based on results of other findings

- Allow clinical reminders to be resolved by providers by inserting information into PCE

- Provide proper progress note documentation

DATA EXTRACTION

- Reminder Reports

    - Very useful at sites for site data reporting

- Extracts

    - Useful in automating data extraction

    - Allows for better control of dates of findings

QUESTIONS

WHAT IS COMING

- Polytrauma Marker (PXRM*2*17 released June 1, 2010)
  - 12 Reminder Exchange entries
  - New computed findings:
    - VA-ASU USER CLASS
    - VA-WAS INPATIENT
    - VA-ACTIVE PATIENT RECORD FLAGS
  - Bug fixes

FUTURE WORK

- Reminder Order Checks

- Mental Health High Risk for Suicide
  - Generate alerts

- ICD-10 Conversion
  - ICD-10 Codes in taxonomies
  - Possible use of SNOMED CT codes

FUTURE WORK ??

- Reminder Extracts and Patient Lists
  - Templates for demographic report
  - Make setting up automated extract runs easier to do

- Reminder Definitions
  - New functions for function findings