

Improving Immunization Rates in Your Clinical Practice Using the Kentucky Immunization Registry (KYIR)

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Objectives

- Review the use of KYIR to run reminder recall campaigns for upcoming or past due immunizations
- Review how to run coverage statistics for clinic population and access comparison data to Healthy People 2020 benchmarks



What is KYIR?

- Statewide Immunization Registry
 - Covers both the public and private sectors
 - Web-based
 - Birth to 100+ years
 - Includes standard tools
 - Receives and processes electronic immunization information in real time Via the Kentucky Health Information Exchange (KHIE)
- Allows providers access to retrieve immunization records prior to or at the time of a scheduled appointment



What Historical Data are Contained in KYIR?

- Vital Records Demographic Data
 - January 1, 2007 to present (updated daily)
- Local Health Department Billing Data
 - from January 1, 1996 to present
 - All LHD's enter doses administered into KYIR directly
- EMR data submitted electronically to the old registry through KHIE
 - Dependent upon individual go-live dates but covers time frame from January 1, 2013 to present



What Data are Live in KYIR?

- Through the Kentucky Health Information Exchange (KHIE) -> Kentucky's Gateway to HL7 / Electronic Data Submission and Meaningful Use
- Already Live
 - 1435 Individual Points of Care
 - Includes:
 - Wal-Mart / SAMS Club Pharmacies
 - Rite-Aid Pharmacies
 - CVS Pharmacies
 - Currently Testing with 380 Points of Care
 - Manual Data Entry from VFC Providers without an EMR or EMR not on KHIE



For the Purposes of Today's Presentation:



- CDC's term for Immunization Registries= IIS
- We all come from different situations concerning data in KYIR. Let's assume we have our clinical setting well represented in KYIR for today's discussion
- Visit the KYIR table for quick guides of the tools we are reviewing today

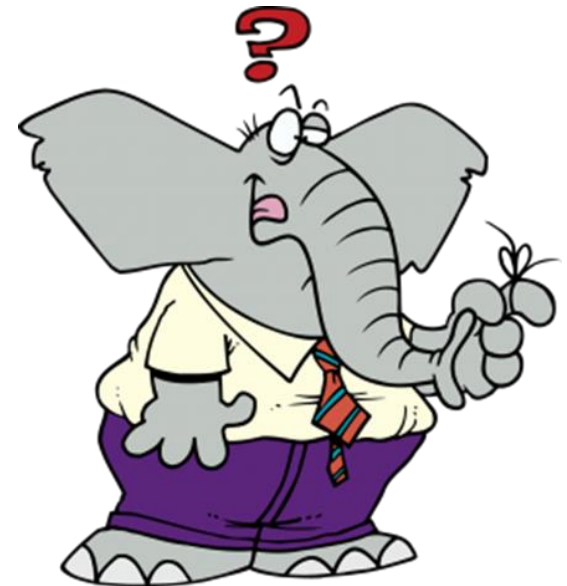


How can KYIR Help Increase Vaccination Rates?

- Support effective interventions such as:
 - Reminder/recall systems
 - Provider assessment and feedback, and provider reminders
 - Aid in public health responses to outbreaks of vaccine-preventable disease
 - Facilitate vaccine management and accountability
 - Determine vaccination status for decisions made by clinicians, health departments, pharmacies, and schools
 - Aid surveillance on vaccination rates, missed vaccination opportunities, invalid dose administration, and disparities in vaccination coverage

Reminder Recall

- Immunizations play a key role in preventing the spread of disease
- Increasing immunization rates through patient reminder recall systems is a simple way to improve preventive care
- Can help meet
Patient Centered
Medical Home Recognition



Reminder Recall Continued

- The Reminder Recall Report in KYIR generates a list of patients' whose routine immunizations are due soon (reminder) or due now (recall)
- KYIR enables reminder recall notifications by postcard, Avery label, DYMO label, auto-dialer email and phone. It also gives the output in Excel.
- Examples of reminder/recall messages are:
 - Post card mailed to patient / parent
 - Phone call to patient / parent
 - Use KYIR to assess vaccination status at check in and indicate patient is due for an immunization at today's visit:
 - A stamp with a message such as "No Pneumococcal Vaccine on Record," that can put on the chart of a person age 65 years or older
 - An "Immunization Due" clip that attaches to the chart of a child who has not had Hepatitis A vaccine or the second dose of meningococcal vaccine

Reminder Recall Campaign in KYIR

Reminder/Recall Date Range *

From: Through:

Age Range *

From: Through: UOM: ▼

Options To Target Patients Included For Reminder/Recall

Gender

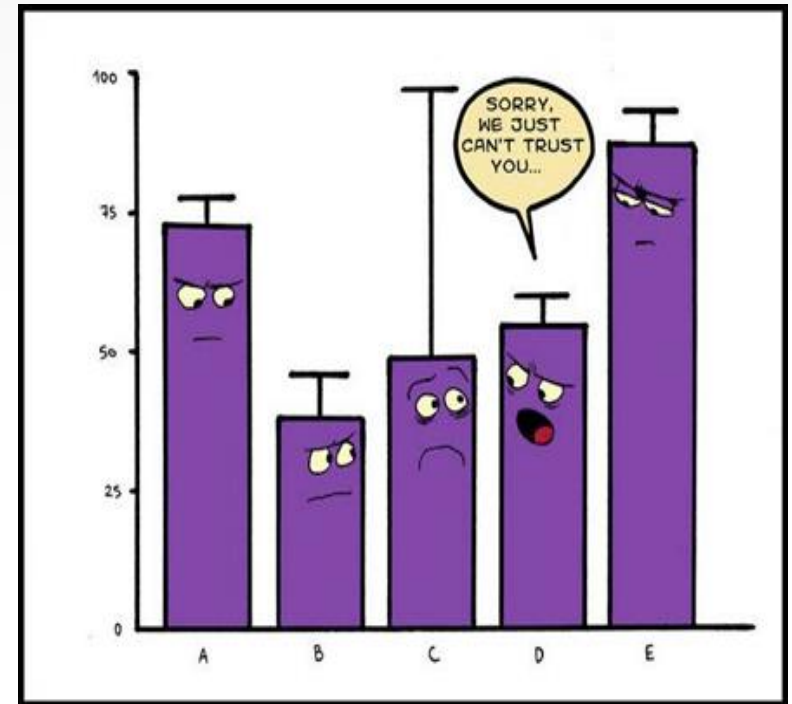
- Ignore Setting For "Do Not Include Patient in Reminder/Recall"?
- Only Include Patients With Address (i.e., Street Address, City, State, Zip)?
- Increment Patient Reminders/Recall Count?
 Exclude Patients After Number of Reminders/Recalls Without Subsequent Vaccination
- Generate Reminder/Recall Event?
- Include Patients Due For Vaccinations (Reminders)?
- Include Patients Overdue For Vaccinations (Recalls)?
 Minimum Number Of Days Past Due To Include Maximum Number Of Days Past Due To Include
- Exclude Patients with Less than 2 non- Influenza/H1N1-09 Vaccinations?
- Exclude patients with one or more vaccine refusals?

Vaccine Series and Optional Dose (Note: Leave Dose blank to include all doses in series)

<input type="checkbox"/>	Vaccine Series	Dose Number
<input checked="" type="checkbox"/>	DTaP / TD / Tdap	<input type="text"/>
<input checked="" type="checkbox"/>	Hep A	<input type="text"/>
<input checked="" type="checkbox"/>	Hep B	<input type="text"/>
<input checked="" type="checkbox"/>	Hib	<input type="text"/>
<input checked="" type="checkbox"/>	HPV	<input type="text"/>
<input checked="" type="checkbox"/>	Influenza	<input type="text"/>
<input checked="" type="checkbox"/>	Meningococcal	<input type="text"/>
<input checked="" type="checkbox"/>	MMR	<input type="text"/>
<input checked="" type="checkbox"/>	Pneumococcal	<input type="text"/>
<input checked="" type="checkbox"/>	Polio	<input type="text"/>
<input checked="" type="checkbox"/>	Rotavirus	<input type="text"/>
<input checked="" type="checkbox"/>	Varicella (CPOX)	<input type="text"/>
<input checked="" type="checkbox"/>	Zoster	<input type="text"/>

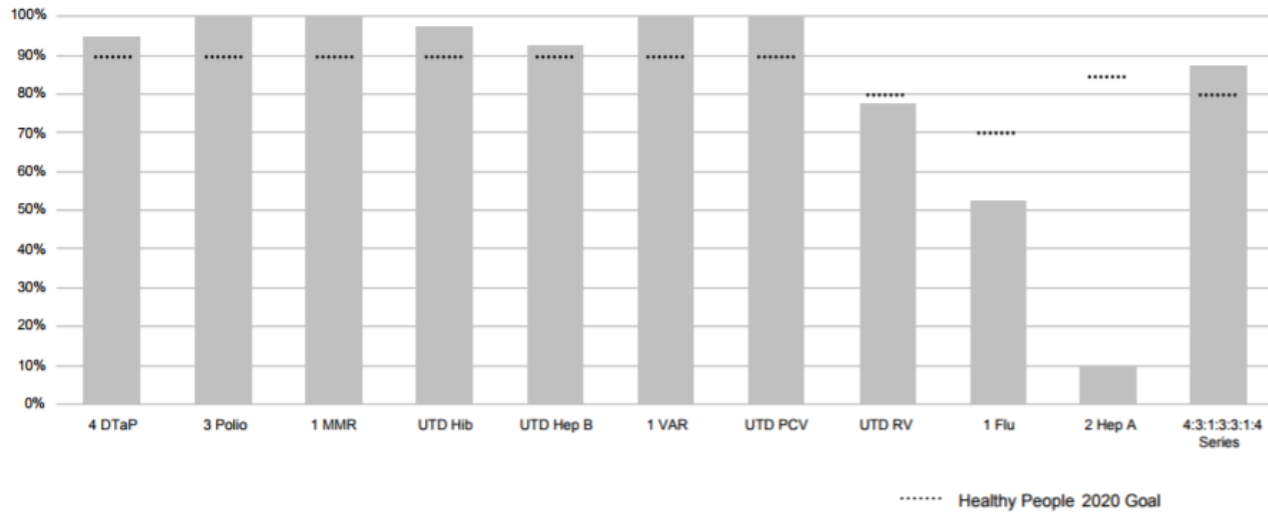
Coverage Assessment

- Assessments:
 - provide targeted diagnosis for improvement
 - increase awareness of a provider's actual situation
 - provides a basis for subsequent actions by provider staff
- The Coverage Rate Report is a Provider Self- Assessment called the AFIX Data Snapshot Report



Sample Data Snapshot Report

Assessment of Immunization Rates | 40 Patient Records Assessed



The following vaccines and doses are recommended for this patient population.

	Doses Up To Date		Healthy People	
	#	%		
4 DTaP	38	95%	90%	4 valid doses of DTaP
3 Polio	40	100%	90%	3 valid doses of Polio
1 MMR	40	100%	90%	1 valid dose of MMR
UTD Hib	39	98%	90%	Patient Series Status Complete for Hib
UTD Hep B	37	93%	90%	Patient Series Status Complete for Hep B
1 VAR	40	100%	90%	1 valid dose of Varicella
UTD PCV	40	100%	90%	Patient Series Status Complete for PCV

How These Tools Can Be Used

- Hepatitis A and 2nd dose of meningococcal vaccine campaigns due to the new legislated school requirement
- Pneumococcal and zoster vaccine campaigns with adults
- Compare babies under 2 years coverage rates to healthy people 2020 goals
- HPV vaccine campaign with adolescents
- Tdap campaign for children aged 13 years and older.
- Influenza vaccination reminders for children and adults



Training Materials & Helpdesk

- We have a plethora of training materials found under the Reports/Training Module in KYIR
- Kentucky Immunization Registry Helpdesk
 - 502-564-0038
 - KYIRHelpdesk@ky.gov

Kentucky Forms and Resources

Add New Report

Body Site Key	Edit
Borrowing Report	Edit
Declination on Religious Grounds to Required Immunizations	Edit
GUIDE: A Guide Reviewing the Various Reports	Edit
GUIDE: Adding New Patients	Edit
GUIDE: School Enrollment Module	Edit
GUIDE: Adding Historical Records in KYIR	Edit
GUIDE: Determining KCHIP Patients from Medicaid Patients	Edit
GUIDE: Directions for Unintentional Borrowing	Edit
GUIDE: How to Place an Order in KYIR- VFC ONLY	Edit
GUIDE: How to Run a Patient Reminder Recall	Edit
GUIDE: Patient Roster Report Quick Guide	Edit
GUIDE: Receiving Electronic Shipments in KYIR- VFC ONLY	Edit
GUIDE: Reconciliation for EMR on KHIE / Aggregate	Edit
GUIDE: Reconciliation for No EMR / EMR not on KHIE	Edit
GUIDE: Updating Patient Active Inactive Status	Edit
SAMPLE FORM- School FERPA Consent for IZ Sharing with KYIR	Edit
VIDEO: How to Add New Patients	Edit
VIDEO: How to Add Patient Precautions and Contraindications	Edit
VIDEO: KYIR TIPS AND TRICKS	Edit
VIDEO: How to Add Historical Records	Edit
VIDEO: How to Add Patients to the School Module	Edit
VIDEO: How to Log Into KYIR	Edit
VIDEO: How to Print a Certificate from KYIR	Edit
VIDEO: How to Recommend Immunizations for Today's Patient Visit	Edit
VIDEO: How to Record the Administration of a Vaccine in KYIR	Edit
VIDEO: How to Run a Patient Reminder-Recall	Edit
VIDEO: Reconciliation EMR on KHIE	Edit
VIDEO: Reconciliation No EMR and EMR without KHIE	Edit
VIDEO: Updating Patient Active Inactive Status	Edit

How Can My Clinic Participate in KYIR?

- Access to the web-based application to research patient records, use the recommender and other tools:
 - Apply with us by completing the enrollment forms found on our webpage:
 - <http://www.chfs.ky.gov/dph/epi/kir.htm>
- No EMR Required
 - You can enter patient history and current doses manually with this access

Conclusion

- Long-Term Prospects of KYIR
 - To house immunization histories' for *all* Kentuckians - young and old
 - Measuring our immunization rates and improving them to meet Healthy People 2020 Goals
 - Targeting pockets of low-coverage rates to improve the health of our state

Thank you!

- Questions

