



K H E

KENTUCKY

HEALTH INFORMATION EXCHANGE

Connecting Kentucky. Improving Healthcare.

Agenda

What to Expect

1 | KHIE Overview

2 | ePartnerViewer

3 | Immunization Stats

4 | Available Resources

Raise Your Hand

Polling the Room



Have heard of the Kentucky Health Information Exchange before?

Have accessed the ePartnerViewer?



KHIE Overview



Kentucky Health Information Exchange

Connecting Kentucky's Healthcare Systems

What is an HIE?

- Health Information Exchanges (HIEs) are a tool that can be utilized by health care facilities to **close care gaps** and **aid in care coordination**.
- HIEs may be either public or private and at a state or regional level.

How do you interact with an HIE?

There are 2 ways to interact with an HIE:

- **Push data** (e.g., public health reporting for regulation/Meaningful Use, formerly Meaningful Use, compliance)
- **Pull data** (e.g., obtain primary care visit summary; recent hospital encounter)
- Some Participants push and pull data, some only push data, and some only pull data.



Kentucky Health Information Exchange

Pioneering the HIE Marketplace

KEY HIGHLIGHTS



NETWORK

Since being founded in 2010, KHIE has connected with **100% of Kentucky hospitals**, becoming one of the largest state-wide HIEs in the nation. Its unique position in the state government allows for **one-of-a-kind collaboration across other state agencies**.



IMPACT

KHIE continues to be a critical tool for the Commonwealth:

- **6K** registered ePartnerViewer users
- **15K** data feeds sending and/or querying patient health data
- **1M** immunization records sent to KY Department for Health
- **36.5M** messages processed per month



LEAD

KHIE is a national HIE leader, ranking among statewide HIEs:

- **1st** in number of overall connections (e.g., labs, hospitals, etc.)
- **1st** in unique patients searchable in the MPI
- **1st** HIE to receive CMS outcomes-based certification
- **2nd** in number of participating organizations connected to KHIE

Repository for Patient Health Information

More than Just Medicaid Claims

Sources of Data

- Hospitals / Healthcare Clinics
 - Acute Care Hospitals
 - Large Hospital Systems
 - Small Rural Hospitals
- Ambulatory Facilities/Clinics
- Medicaid
- KASPER
- Labs
- Behavioral Health Centers
- Federally Qualified Centers
- Pharmacies
- kynect resources
- KYIR and Other Registries
- Ambulance Run Sheets

Type of Data KHIE Receives

- Admits, Discharge, Transfers
- Summary CCDS
- Medicaid CCDS / Paid Claims
- Radiology Reports and Images
- SDoH (LOINC and ICD-10z Codes)
- Pathology Results
- Immunization Data
- Lab Results
- Patient Alerts
- Medication and Allergies

Leveraging Capabilities



KHIE Services

Providing Access to Critical Health Data

ePartnerViewer

Access real-time historical and clinical data through a customizable health portal

Image Exchange

Providers may view, share, and export clinical images to local Picture Archiving and Communication Systems (PACS)

Direct Secure Messaging

Securely enables patient health information directly to another known and trusted recipient

Electronic Case Reporting

Report infectious diseases to the Department for Public Health through the connection with the Association of Public Health Laboratories (APHL) Informatics Messaging Service (AIMS)

Summary Continuity of Care

Electronically generate patient-specific clinical summary documents to enhance communications during transitions of care.

Direct Data Entry

Manually enter data, which is instantly stored in the HIE.

Event Notifications

Inform healthcare providers when a patient is admitted to, transferred, or discharged from various settings.

Public Health Registries and Reporting

Electronically submit data and reports as KHIE is connected to the Kentucky Immunization Registry, Kentucky Cancer Registry, Reportable Labs (ELR), and NEDSS

Platinum Connection

Support Cross-Enterprise Document Sharing (XDS.b) and Cross-Community Access (XCA) IHE framework standards to push/pull data between KHIE and the Participant's EMR/EHR.

Medicaid Continuity of Care

Electronically generate patient-specific clinical summary documents that include appropriate Medicaid IDs with Medicaid Claims Data

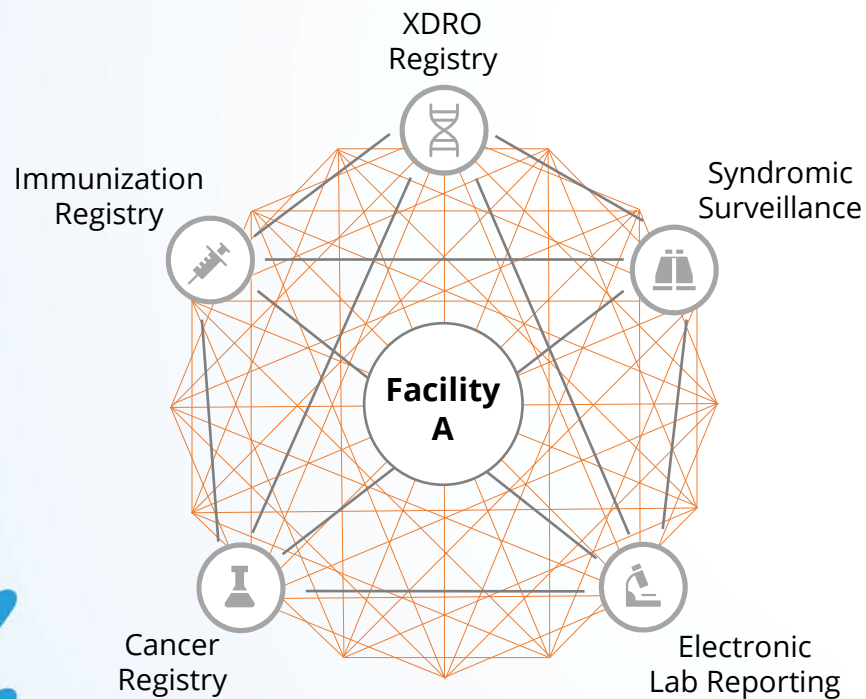


Public Health Registries and Reporting

KHIE Streamlines Critical Public Health Reporting

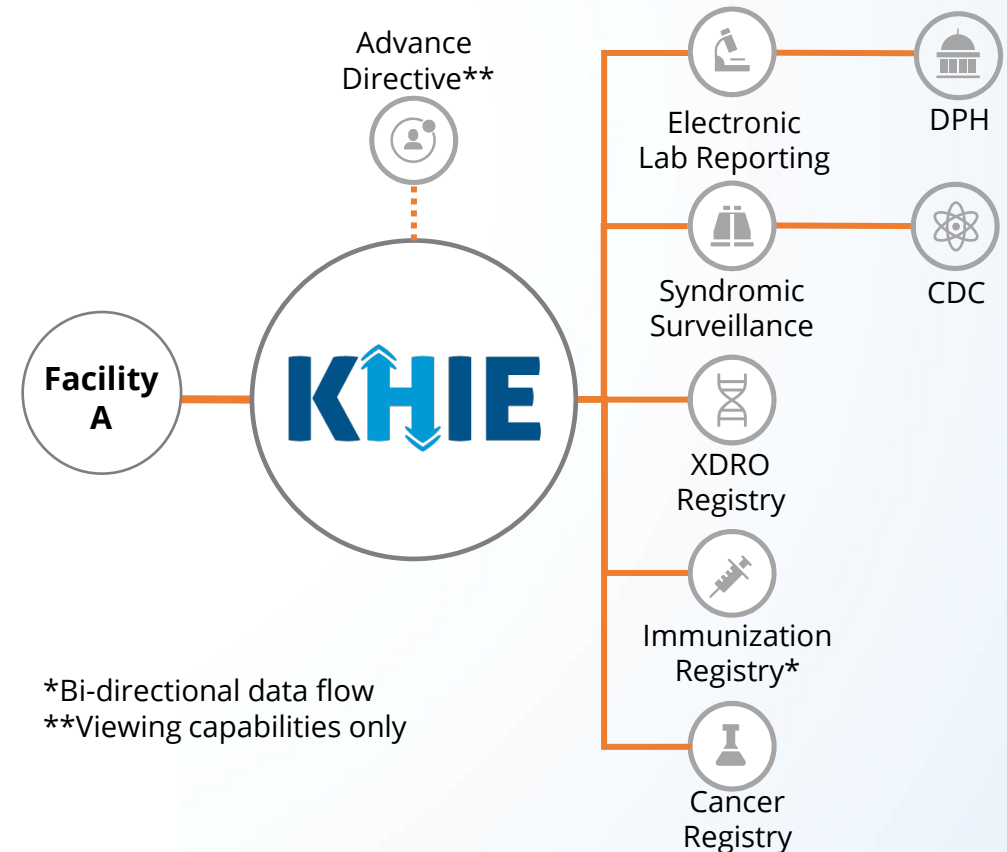
TRADITIONAL CONNECTIONS

Historically, facilities would have to build connection points to individual registries.



KHIE CONNECTION

Now, KHIE automatically directs the facility's data to the appropriate location with one single connection.



*Bi-directional data flow
**Viewing capabilities only

Aggregating Immunization Data

Bi-Directional Flow of Immunization Data



How the Data Flows

VXU
(Immunization Submission)

Query by Parameter
(Historical Immunization Query)

Manual Entry*

Flat File
Transfer*

**Done directly with Immunization Registry.*

ePartnerViewer

Customizable, Web-Based Portal

The ePartnerViewer offers users a view of real-time and historical health data, combining disparate patient health data from providers into tabs/portlets which can be easily accessed and viewed.

-  Clinical Documents
-  Patient Alerts
-  Labs and Reports
-  Social Determinants of Health
-  Electronic Case Reports
-  Encounters
-  Radiology
-  Pathology
-  Transcribed Reports
-  Uncategorized
-  Immunizations
-  Problems
-  Procedures
-  Medications and Allergies
-  Advance Directive
-  Sensitive Data

ePartnerViewer – Immunization Portlet

Immunization Data at a Glance

The screenshot displays the ePartnerViewer interface for patient HERMAN WEST. The top navigation bar includes the KHIE logo, the application name 'ePartnerViewer', and utility links for Support, Announcements (7), Advisories (3), and SIT Test_1. Below the navigation bar, the patient's profile is shown with a 'Patient Search' tab selected. The patient's details include age (56 years old), name (WEST, HERMAN), sex (F), and address (12TH ST NEW TOWN SENECA KY 24333). A 'DATE SELECTION' section allows filtering by time intervals (3, 6, 9, 12 months, Custom), with '12 months' selected and a 'Retrieve' button. The main content area features a horizontal menu with tabs for Patient Summary, Medications & Allergies, Clinical Documents, Patient Alerts, Laboratory & Pathology, Reports, Encounters, Immunizations, Uncategorized, Patient Demographics, SDoH, and Notes. Four portlets are visible: 'CLINICAL DOCUMENTS' with a table of documents, 'PATIENT ALERTS' with a 'no data' message, 'LABORATORY' with a table of test results, and 'IMMUNIZATIONS' with a table of vaccine records. Each portlet has a 'VIEW ALL' button at the bottom.

KHIE | ePartnerViewer

Support | Announcements 7 | Advisories 3 | SIT Test_1

Patient Search | Bookmarked Patients | Event Notifications | Lab Data Entry | Case Report Entry

Home > Patient search > HERMAN WEST

56 years old | WEST, HERMAN | Sex F | Address 12TH ST NEW TOWN SENECA KY 24333 | DOB 05/17/1967 | Bookmark | View More

DATE SELECTION | 3 months | 6 months | 9 months | 12 months | Custom | Retrieve

Showing Data for 06/14/2022 to 06/13/2023

Patient Summary | Medications & Allergies | Clinical Documents | Patient Alerts | Laboratory & Pathology | Reports | Encounters | Immunizations | Uncategorized | Patient Demographics | SDoH | Notes

CLINICAL DOCUMENTS

DATE	NAME
06/13/2023	KHIE Summary CCD
05/05/2023	Electronic Case Report -202305050115082...
05/05/2023	Reportability Response -202305050115082...

> VIEW ALL CLINICAL DOCUMENTS

PATIENT ALERTS

There is no data to be displayed

LABORATORY

COMPLETED DATE	NAME
04/12/2023	Bilirubin
04/11/2023	Bilirubin
04/10/2023	Bilirubin
04/09/2023	AST
04/08/2023	AST

> VIEW ALL LABORATORY

IMMUNIZATIONS

DATE	NAME
05/04/2023	Other Vaccine - New Vaccine added for Tes...
05/03/2023	Other Vaccine - New Vaccine added for Tes...
05/02/2023	Other Vaccine - New Vaccine added for Tes...
05/01/2023	hepatitis A and hepatitis B vaccine
05/01/2023	Hepatitis A vaccine, pediatric/adolescent d...

> VIEW ALL IMMUNIZATIONS

ePartnerViewer – Immunization Portlet

Immunization Data at a Glance



IMMUNIZATION HISTORY

APPLY FILTER

SHOWING
7 ITEMS

DATE ▾	NAME	PROVIDER	DETAILS	+ EXPAND ALL
05/04/2023	Other Vaccine - New Vaccine added for Testing			
05/03/2023	Other Vaccine - New Vaccine added for Testing			
05/02/2023	Other Vaccine - New Vaccine added for Testing			
05/01/2023	hepatitis A and hepatitis B vaccine			
05/01/2023	Hepatitis A vaccine, pediatric/adolescent dosage, 2 dose schedule			

In an upcoming enhancement, immunization records in the ePartnerViewer are going to show the **provider facility who administered the vaccine** and addition details regarding the vaccine. In addition, there will be a new **“Source” column to show where KHIE pulled that data from.**



CASE STUDY: FAMILY MEDICINE PRIMARY CARE

Front Desk: New Patient Intake

Streamlining Initial Information Gathering for New Patients

SITUATION

Hospitals often encounter significant challenges and bottlenecks when it comes to the intake process for new patients. These barrier can impede the efficient delivery of care, delay vital treatments, and contribute to administrative burdens. Hospitals typically rely on a multitude of manual processes, outdated systems, and fragmented information sources, leading to inefficiencies and potential error in patient intake. One such bottleneck is needing to wait on health records being faxed from other healthcare providers when requesting critical patient information. **Another includes not having the complete health data of recent procedures and immunizations.**

KHIE SOLUTION

KHIE aggregates and summarizes patient health information in one centralized location, the KHIE Summary Continuity of Care Document including patient demographic, immunizations, procedures, and more

Unlike standard Electronic Health Records (EHR), KHIE has the latest paid Medicaid Claims information which is often used by healthcare professionals to fill in health and demographic information gaps

Regardless of the EHR used at a connected organization, KHIE collects real time patient health information from a multitude of healthcare facilities and displays it in an easy-to-navigate system

OUTCOMES

The ePartnerViewer offers a comprehensive set of features designed to specifically address barriers and bottlenecks around information gathering. To overcome these challenges, the KHIE aggregates patient information in an easy-to-navigate and user-friendly platform, the ePartnerViewer. Healthcare staff can quickly access patient health information at the point of care, decreasing the time spent on searching for data and duplicative procedures and increasing the time spent providing care to the patient.

KHIE Soundbite

“ I was able to get my front desk staff setup on the ePartnerViewer. The ePartnerViewer has streamlined our process for gathering information on our patients before they are seen. It is faster to get information from the ePartnerViewer than calling other healthcare facilities and waiting for faxes to come through. ”

- Pediatric Office Manager

Immunization Stats



Providing the Latest Immunizations

Sharing Data From Multitude of Sources

Participants Live with VXU Feeds

160+

Hospitals and
Hospital Departments

700+

Pharmacies

2250+

Providers and Clinics

Number of VXU Transactions

1.6M+

Total Immunizations
Sent to KYIR in the last six months.

138K+

Total Monthly Transactions

67K+

Monthly Pediatric Transactions

Pediatrics VXU Transactions

90K+

Hep A and B Vaccines

61K+

Pneumococcal Vaccines

34k+

Rotavirus Vaccines

KHIE Onboarding

A Three-Phased Approach

KHIE Intake

- Discovery Call
- Intake Call
- Participation Agreement

Onboarding

- a) Connectivity and Testing
- b) Message Validation

Go Live

- Move to Production
- Monitor Incoming Feed

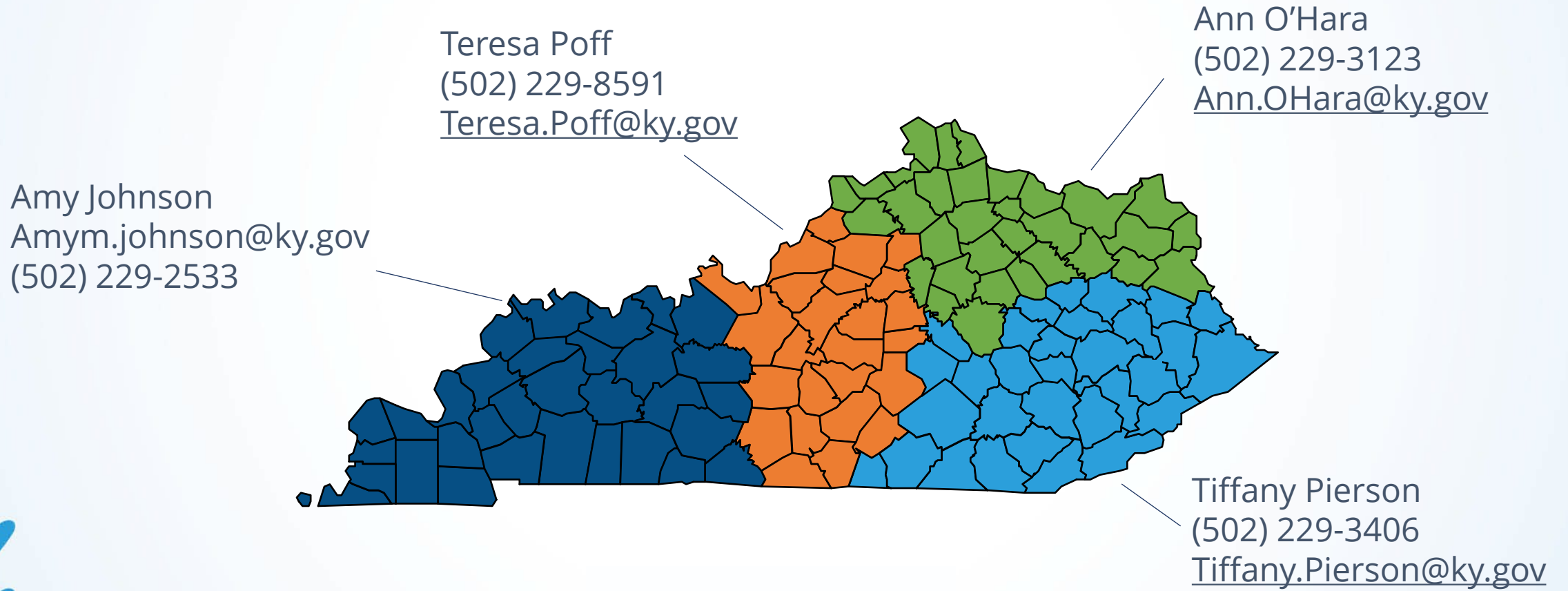


Available Resources



KHIE Outreach Coordinators

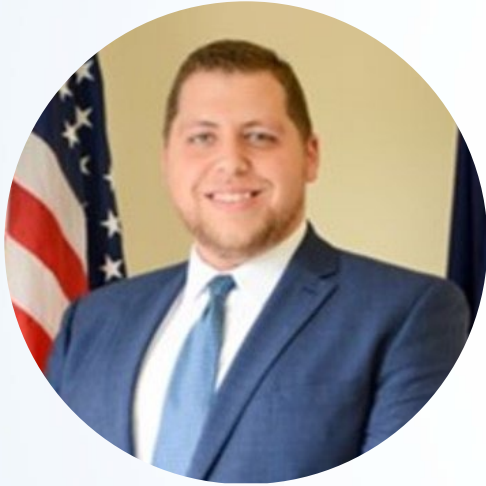
Regional Points of Contact



For more information about KHIE, visit KHIE.ky.gov

Questions?

Thank You!



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