



Presenters



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Overview of the KONZA National Network



Presentation Agenda

Overview of the KONZA National Network and STAR HIE Program

- TRANSLATE and Immunization Registries
- COVID 19 Registry
- HQ Insights Dashboards

Challenges and Lessons Learned

- Effectively Engaging Public Health
- Reducing Public Health Burdens

Advancing and Sustaining Public Health Programs

Q & A

Overview of the KONZA National Network and STAR HIE Program

The Problem

- Providers and public health faced increased demand for reporting COVID-19 data.
- To manage the spread of the virus, public health officials needed access to real-time longitudinal medical information for COVID-19 positive patients.

The KONZA Solutions

- The KONZA team developed TRANSLATE which enhanced the lab data gathered for health information exchange (HIE) to create lab messages compliant with ELR requirements for public health reporting.
- KONZA adapted an alerting platform to provide real-time COVID-19 diagnosis information to the Kansas Department of Health and Environment.
- KONZA created new HQInsight Dashboards to provide clinicians and hospitals new COVID-19 *views* of their patients to better manage their care.
- KONZA worked closely with physicians and hospitals to ensure as much COVID-19 vaccination information was reported to the State Immunization Registries.

KONZA National Network Development of TRANSLATE

TRANSLATE established practice-based COVID-19 test result reporting by mapping EHR HL7 lab feeds to ELR five states:

- Kansas
 - Connecticut
 - Missouri
 - Mississippi
 - Texas
- Simplified LOINC Mapping for practices.
 - Eliminated the manual reporting burden on providers and public health departments.

SAMPLE TRANSLATE MESSAGE

ORIGINAL COVID LAB MESSAGE RECEIVED FROM CLIENT

```
MSH|^~\&|ATHENANET|2012 KS - Test Clinic|KS - Kansas HIN - HIE - CHL7 - Global||202203211153||ORU^R01|14836605M12072|P|2.2|||||
PID||58557|58557||TEST^PATIENT^*||19680216|F||1900^White|481 TEST STREET^NEWTON^KS^67114^UNITED STATES|||573|878-8778^573|878-
8778||124^English|M||350092||143^Not Hispanic or Latino|||||
PD1||^|||||
PV1|O|^Test Clinic Lab|||1099998215^PROVIDER^TEST^*^*|||||^^^STACY^B|||||20220318170235|20220321114318
ORC|RE|3156687H12072|||1099998215^PROVIDER^TEST^*|||||
OBR|1|3156687H12072|437258^RAPID SARS COV 2 AG, QL IA, RESPIRATORY
SPECIMEN^N|2|20220318174528|20220318170500|20220318170500|||||^1099998215^PROVIDER^TEST^*|||||F|||||
OBX|1|ST|COVID-19^COVID-19^ATHENA|1|negative|||||F||20220318180554|IN OFFICE ORDER||
```

NEW ELR TRANSLATED MESSAGE TO THE STATE

```
MSH|^~\&|ATHENANET|Test Clinic Lab, KS00CH|KS|202203211153||ORU^R01^ORU_R01|14836605M152072|P|2.5.1
ST|1|58557|58557||TEST^PATIENT^*||19680216|F||W^White|481 TEST STREET^NEWTON^KS^67114^UNITED STATES|||573|878-8778^573|878-
8778^573^878-8778||124^English|M||350092||N^Not Hispanic or Latino|||||
PV1|O|^Test Clinic Lab|||1099998215^PROVIDER^TEST^*^*|||||^^^STACY^B|||||20220318170235|20220321114318
ORC|RE|3156687H12072|||1099998215^PROVIDER^TEST^*|||||Test Clinic Lab
OBR|1|3156687H12072|435558^RAPID SARS COV 2 AG, QL IA, RESPIRATORY
SPECIMEN^N|2|20220318170500|20220318170500|||||^1099998215^PROVIDER^TEST^*|||||F|||||
OBX|1|ST|435558^COVID-19^N|1|negative|||||F||20220318180554|IN OFFICE ORDER||20220318180554|Test Clinic Lab
RM|1|3156687H12072|437258^RAPID SARS COV 2 AG, QL IA, RESPIRATORY SPECIMEN FROM NASAL MID-TURBIDATE^CT|||||20220318170500
```


KONZA Connecting Members to Immunization Registries

KONZA assists hospitals, practices and other health care providers connect to the KONZA HIE and submit data to the state immunization registry.

Current efforts include Connecticut practices that are now mandated to submit immunization data electronically to the state registry.



KONZA Standard HQInsight Toolkit

KONZA my account admin help log off

Back Home Home

Home Print

- ACO Metrics
- High Risk Patients
- Polychronic Patients
- Behavioral Health
- Controlled Substances
- Disease Registries
- Population Health
- Readmissions
- Utilization
- Quality Metrics
- AcuteAlerts
- MIPS PI/IA Attestation
- Provider Patient Pool Review
- Administrator Patient Pool Review
- Appendix
- User Management
- Local Audit
- Updates
- COVID-19
- COVID-19
- CoP Audit CoP Alerts

KONZA National Network COVID-19 Registry

KONZA contracted with Kansas Department of Health and Environment (KDHE) to create and maintain a data dashboard for obtaining complete and accurate hospitalization information based on ICD 10 diagnosis code for COVID 19.

KDHE COVID Dashboard

My COVID-19 Patients **KDHE COVID-19 Patients**

Sending Facility: All Values (164) Patient Type: All Values (4)

Code: 02: COVID-19, 840539006, 840546002, B34.2

Patient Total: 34,281

Patient Account Number	Message Timestamp	Patient First Name	Patient Last Name	Date of Birth	Gender	Patient Ethnicity	Patient Race	Date of Admit	Date of Discharge	Patient Type	Unit
	2020-08-25 23:12:42				M		W	2020-08-25 21:36:00		Inpatient	W.EDI
	2020-08-25 23:12:42				M		W	2020-08-25 21:36:00		Inpatient	W.EDI
	2020-08-25 23:12:42				F		W	2020-08-25 20:37:00		Inpatient	
	2020-08-25 22:44:02				F	NH	CA	2020-08-25 18:37:00	2020-08-25 19:17:00	Outpatient	016.UR
	2020-08-25 22:44:02				F	NH	CA	2020-08-25 18:32:00	2020-08-25 18:47:00	Outpatient	016.ST
	2020-08-25 22:15:37				F	2186-5	2106-3	2020-08-25 18:24:22	2020-08-25 18:52:49	Outpatient	FHC
	2020-08-25 22:15:37				M	2135-2	2103-6	2020-08-25 18:24:15	2020-08-25 18:52:45	Outpatient	FHC
	2020-08-25 22:39:45				F	NH	American Indian/Alaska Native	2020-08-25 17:35:00	2020-08-25 18:49:00	Outpatient	AMB.RH
	2020-08-25 22:29:25				F	43	900	2020-08-25 17:01:00		Outpatient	
	2020-08-25 22:29:25				F	43	900	2020-08-25 17:01:00		Outpatient	
	2020-08-25 22:29:25				F	43	900	2020-08-25 17:01:00		Outpatient	
	2020-08-25 22:29:25				F	43	900	2020-08-25 17:01:00		Outpatient	
	2020-08-25 22:50:45				F	NON-HISPANIC	1	2020-08-25 16:57:00	2020-08-25 19:32:00	Emergency	EMD
	2020-08-25 22:44:02				M	NH	CA	2020-08-25 16:32:00	2020-08-25 16:53:00	Outpatient	016.ST
	2020-08-25 23:12:42				F	18	900	2020-08-25 16:23:00		Outpatient	
	2020-08-25 22:44:02				F	NOT HISPANIC	Other	2020-08-25 16:05:38	2020-08-25 16:51:10	Outpatient	40UKPE
	2020-08-25 16:15:12				M	NH	WH	2020-08-25 16:03:00		Outpatient	LAB
	2020-08-25 16:59:32				F	43	900	2020-08-25 15:50:00		Outpatient	
	2020-08-25 16:15:12				M	UA	PTDECLINED	2020-08-25 15:47:00		Outpatient	LAB
	2020-08-25 16:59:32				M	NH	Unknown	2020-08-25 15:41:00	2020-08-25 16:34:00	Outpatient	HMG.PL
	2020-08-25 16:15:12				M	NH	WH	2020-08-25 15:32:00		Outpatient	LAB
	2020-08-25 16:45:53				M	NH	WH	2020-08-25 15:21:00	2020-08-25 16:22:00	Outpatient	ATCMA

Excel

KDHE COVID Dashboard

My COVID-19 Patients **KDHE COVID-19 Patients**

Sending Facility: All Values (164) Patient Type: All Values (4)

Code: 02: COVID-19, 840539006, 840546002, B34.2

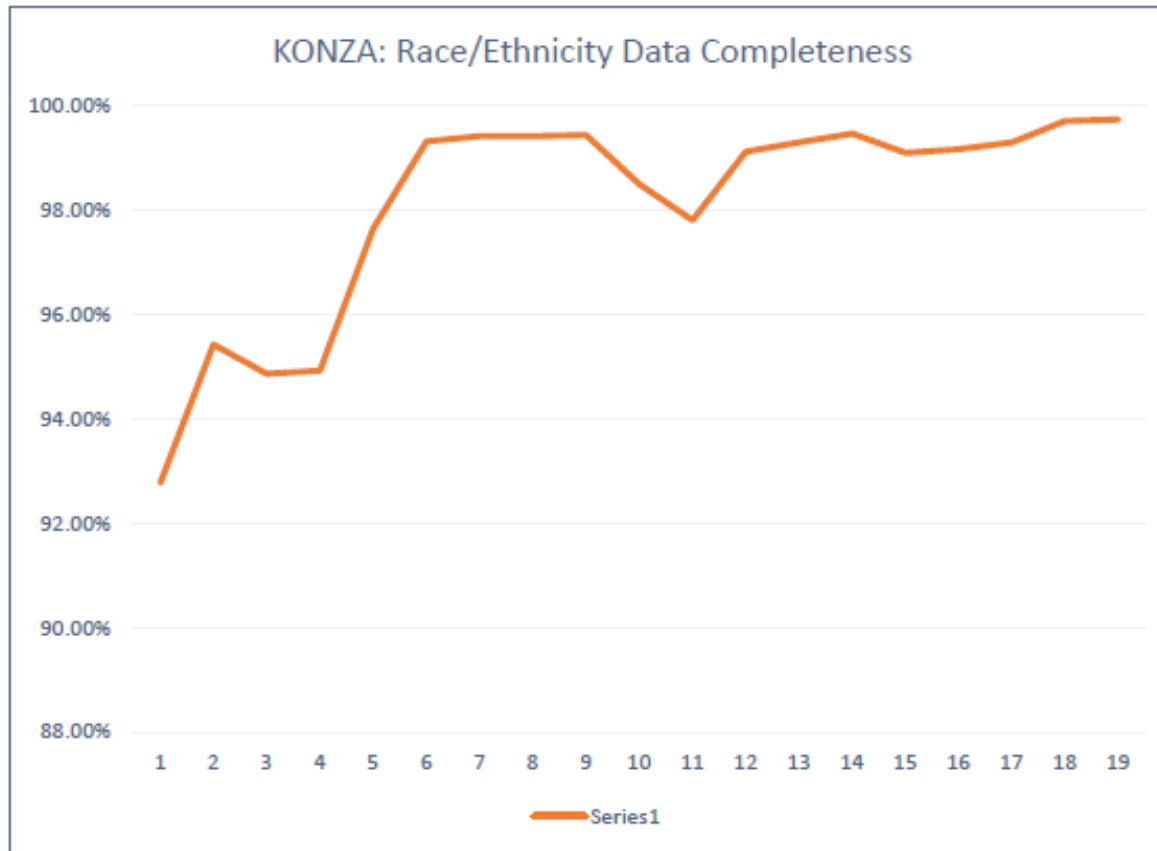
Patient Total: 34,281

Discharge Disposition	Sending Facility	Patient Phone Number	Patient Address	Patient City	Patient Zip	Patient County	Diagnosis Codes	Diagnosis Text
-	-	-	-	W	67212	Sedgwick	Z20.828	CONTACT W AND EXPOSURE TO OTH VIRAL COMM
-	-	-	-	W	67212	Sedgwick	Z20.828	CONTACT W AND EXPOSURE TO OTH VIRAL COMM
-	-	-	-	W	67213	Sedgwick	Z20.828	CONTACT W AND EXPOSURE TO OTH VIRAL COMM
01 - Dc Home/Routine/Law	-	-	-	TOPEKA	66605	Shawnee	Z20.828	Z20.828 - Contact with and (suspected) exposure to other vi
01 - Dc Home/Routine/Law	-	-	-	SALINA	67401	Saline	Z20.828	Z20.828 - Contact with and (suspected) exposure to other vi
-	-	-	-	ULYSSES	67880	Grant	U07.1	
-	-	-	-	ULYSSES	67880	Grant	U07.1	
HOM -	-	-	-	HARTFORD	66854	Lyon	Z20.828	Contact with and (suspected) exposure to other viral commu
-	-	-	-	GREAT BEND	67530	Barton	U07.1	
-	-	-	-	GREAT BEND	67530	Barton	U07.1	
-	-	-	-	GREAT BEND	67530	Barton	U07.1	
-	-	-	-	GREAT BEND	67530	Barton	U07.1	
01 - Other	-	-	-	TOPEKA	66605	Shawnee	Z20.828	Contact with and (suspected) exposure to other viral commu
01 - Dc Home/Routine/Law	-	-	-	NEW CAMBRIA	67470	Saline	Z20.828	Z20.828 - Contact with and (suspected) exposure to other vi
-	-	-	-	NEWTON	67114	Harvey	Z20.828	
-	-	-	-	TOPEKA	66618	Shawnee	Z20.828	Contact with and (suspected) exposure to
-	-	-	-	WEST PLAINS	65775		U07.1	
-	-	-	-	BEL AIRE	67226	Sedgwick	U07.1	
-	-	-	-	HIGGINSVILLE	64037		U07.1	
-	-	-	-	DODGE CITY	67801	Ford	U07.1	U07.1 - COVID-19
-	-	-	-	WESTON	64098		U07.1	
-	-	-	-	WESTON	64098		U07.1	

Excel

Data Completeness

KONZA



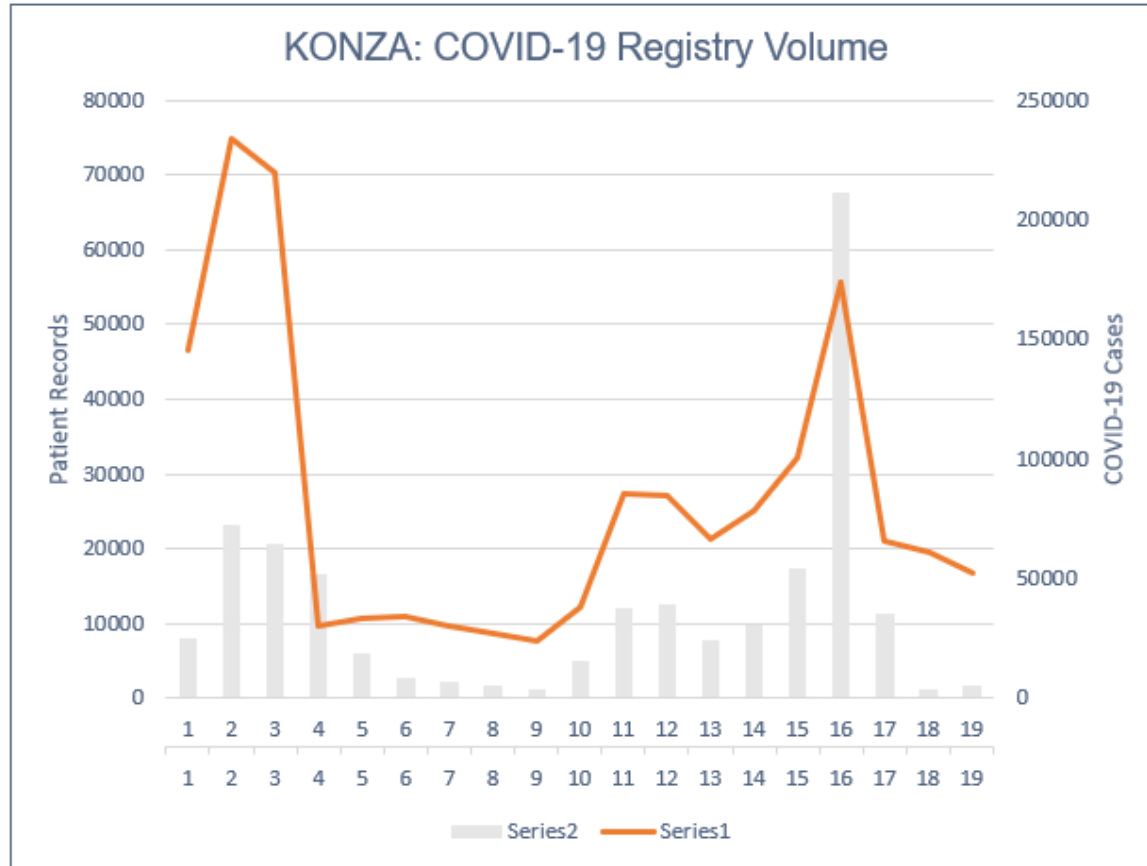
While starting at a high level, KONZA was able to increase race/ethnicity data completeness.

They did so by setting up a COVID-19 registry to bring together data from multiple participants and PHAs.

**Program Evaluation for the Strengthening the Technical Advancement and Readiness of Public Health via Health Information Exchange (STAR HIE), UCSF October 2022*

COVID-19 Registry Volume

KONZA



KONZA submitted patient records to the KDHE COVID-19 Registry for COVID-19 positive cases, totaling 508,669 unique patients over a year and a half.

**Program Evaluation for the Strengthening the Technical Advancement and Readiness of Public Health via Health Information Exchange (STAR HIE), UCSF October 2022*

KONZA HQInsight Dashboards

Updated the KONZA HQInsight dashboards with COVID-19 immunization data and COVID-19 diagnosis data.

This allows physicians and other clinicians to determine if their patients have received a COVID-19 vaccine and if they have been diagnosed with COVID-19.

Provider COVID Alert Screenshots

The screenshot displays the KONZA HQInsight dashboard interface. At the top, there's a 'Back to Patient Alerts' button and a 'Code' dropdown menu. The main table lists patient alerts with columns: Patient Last Name, Patient First Name, Patient Phone Number, Date of Birth, Gender, Admit Date, Patient Type, Discharge Date, Discharge Disposition, Sending Facility, Patient Address, and Admitting Diagnosis Codes. A 'Patient Total' of 30 is shown in the top right. Below the table, there are navigation options: 'Back', 'Home', and 'Quality Metrics'. The 'Overview' tab is selected, showing a 'Metric' dropdown set to 'COVID 19 Immunization' and a 'Performance' dropdown set to 'Met'. The 'Period' is set to 'Current Reporting Period'. Below this, there are two sections: 'Preventive Care Records by Measure - Reporting Period' and 'Top Facilities by PC Records - Reporting Period'. A 'Patient List' window is open, showing a table with columns: Patient Name, DOB, Sex, Ethnicity, Race, Activity Date, Most Recent Facility, Provider, Act Type, Act Desc, and Record #. The list shows various COVID-19 immunization records for different patients.

Challenges and Lessons Learned

Effectively Engaging Public Health Agencies



STAR HIE Program

STAR HIE Program objectives required that KONZA and PHAs combine program efforts in a way that the HIE was additive and enhanced PHAs capabilities.

Collaboration was successful because it did not distract from the COVID response but delivered clear and measurable value to Public Health.

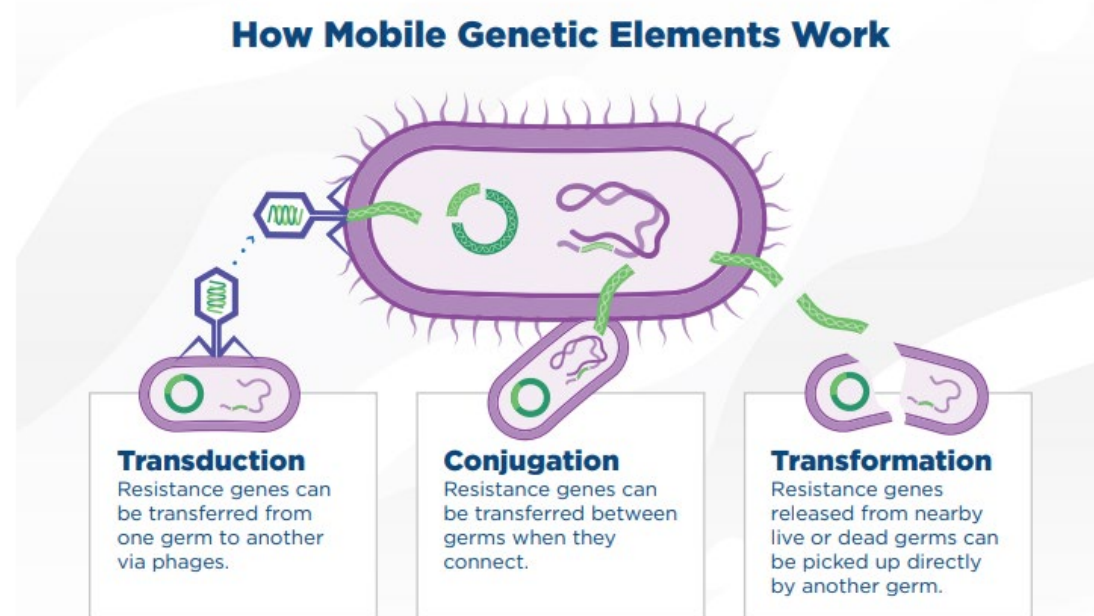
Reducing Public Health Burden through Sound Stewardship

The STAR HIE Program established and strengthened trusting relationships and communication between PHAs and KONZA

- Public Health benefits from increased awareness through Health Information Exchange (HIE).
- Public Health can quickly respond where needed when it has timely data.
- Public Health burden can be reduced where HIEs and Providers align capacity to deliver critical data electronically.

KDHE and KONZA Pilot Program for MDRO Alerting

Sustaining Long-term
Data Sharing
Relationships
Established &
Strengthened by the
STAR HIE Program



Multidrug-Resistant Organisms - Why Alerting is Important to Healthcare and Public Health

**Image from CDC <https://www.cdc.gov/drugresistance/pdf/threats-report/How-AR-Moves-508.pdf>*

KHIN
Advancing and
Sustaining
Public Health
Programs

Building on the STAR HIE Program Foundation for Sustaining Public Health Programs

Public Health Programs Benefits if we continue to

- Include Public Health in Health Information Exchange Strategies
- Identify gaps in data where systems do not talk to each other
- Connect the vast number of facilities with critical data to Public Health
- Surface other opportunities for Public Health to leverage existing or potential data flows from EHRs and HIEs

Public Health and KONZA Working Together

COVID response efforts 2020-2022 strained PHA capabilities nationwide.

Public Health and KONZA Working Together

- Aligning time and resources
- Adopting public health language
- Deliver timely data capture and exchange
- Demonstrated the benefit of KONZA and Public Health Partnering to achieve shared goal of improved health



Questions?

For additional information please contact

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Mel Talley - mtalley@konza.org



The KONZA National Network

KONZA National Network helps our customers connect to the world. As a member of eHealth Exchange KONZA National Network works with health care providers across the nation to design custom solutions to meet their unique needs. KONZA National Network connects health care systems together to share data internally and with external partners such as the Veterans Administration, Military Health Services, CVS, DaVita, Yale New Haven Health, and many others.

KONZA operates exchanges in multiple states, including Kansas, Missouri, Louisiana, Mississippi, Georgia, South Carolina, New Jersey and Connecticut. KONZA is deeply committed to connecting healthcare providers, patients, health plans, and our technology partners together to organize healthcare data into information that will drive healthcare transformation. Patients, health plans, physicians, healthcare facilities, and other healthcare providers from across the country benefit from KONZA's delivery of unequaled actionable intelligence.