2024 Health Information Organization (HIO) Survey and Civitas Member Survey

The nationwide survey of HIOs is being led by Civitas in collaboration with Dr. Julia Adler-Milstein at the University of California, San Francisco and is sponsored by the Office of the Assistant Secretary for Technology Policy and Office of the National Coordinator for Health Information Technology (ASTP/ONC). As you know, the field continues to change rapidly, and this survey will enable us to focus on new achievements and identify challenges to create a current and accurate picture of Civitas' HIO member efforts. We request your time to complete our survey. Participation is completely voluntary and will contribute to a research study. Thank you in advance for your time.

The survey includes questions in five broad areas:

- (1) Organizational Demographics
- (2) Public Health
- (3) Implementation/Use of Standards
- (4) Network-to-Network Connectivity and TEFCA
- (5) Information Blocking

There is a sixth section of questions, only asked of Civitas members, that cover a range of supplemental topics.

We will not make ANY responses to questions publicly available or attribute responses to any specific organization. These data will only be presented in aggregate and will be published in a peer-reviewed journal (which we will be happy to send to you) and other publicly available publications and presentations. Please see below for more details on data access and data reporting.

Data Access: Who Will Have Access to Individual, Identified Survey Responses

The Civitas leadership team and the UCSF research team that are collecting the data will have access to fully identified survey responses. In addition, Office of the Assistant Secretary for Technology Policy and Office of the National Coordinator for Health Information Technology (ASTP/ONC) that is funding the survey will be given a dataset containing identifiable survey responses in the first five sections only. ASTP/ONC may choose to share all or part of the dataset with ASTP/ONC contractors only for the purpose of conducting contracted work and abiding by the same reporting/disclosure terms as described below. The sixth section will only be made available to Civitas and the UCSF research team.

Data Reporting: What Data & Derivative Results Will be Reported in Journals, Data Briefs, or Public Documents

No individual respondents or responses will ever be identified or reported. All data will be reported at an aggregate level
(e.g., across all survey responses). For example, we may report that 10% of HIOs in the US have payers as participants.

A subset of data may be reported at the regional level (i.e., aggregated by state or healthcare market/HRR). Civitas,
UCSF, ASTP/ONC, and any ASTP/ONC contractors receiving the data will abide by these terms.

If you serve as overarching infrastructure for sub-exchanges or otherwise manage multiple distinct health information exchanges, please let us know so that we can send you another link to the survey. This will ensure that you fill out only one response per exchange. We also ask that you respond to survey questions only <u>from the perspective of your organization</u>. Please do not attempt to summarize multiple efforts that may be affiliated with your organization (For example, if you are a state-level HIO, please do not respond on behalf of local HIOs with whom you work.)

To thank you for your time, upon completion of the survey you will be offered a \$50 amazon.com gift certificate. If you are not eligible for our survey, you will be offered a \$10 amazon.com gift certificate.

If you have any questions, please contact the project investigator, Dr. Julia Adler-Milstein (Julia.Adler-Milstein@ucsf.edu or 415-476-9562). Questions for Civitas may be directed to Jolie Ritzo (jritzo@civitasforhealth.org or 207-272-4725).

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0990-0379. The time required to complete this information collection is estimated to average 10 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, to review and complete the information collection. If you have comments concerning the accuracy of the time estimate(s) or suggestions for improving this form, please write to: U.S. Department of Health & Human Services, OS/OCIO/PRA, 200 Independence Ave., S.W., Suite 336-E, Washington D.C. 20201, Attention: PRA Reports Clearance Officer

Screening Questions

We would first like to ask you about the type of organization for which you are responding:
1. As of today is your organization: (select one)
Supporting* "live" electronic health information exchange across your network Building (or planning for) the infrastructure or services to support*, or pilot testing, electronic health information exchange across your network (End of survey) No longer pursuing or supporting* electronic health information exchange (End of survey) Never pursued or supported* electronic health information exchange (End of survey)
2. Does electronic health information exchange take place between independent entities**? Yes No (End of survey)
* Supporting is defined as offering a technical infrastructure that enables electronic health information exchange to take place.
**Independent entities are defined as institutions with different tax identification numbers; HIE between independent entities requires that <i>at least one</i> entity is independent of the other(s).

Organizational Demographics

1.		do so	olanning to merge with a	nother HIE?
2.	Which of the following gen Multi-state HIE Single, statewide H Community or loca Governmental, state	IIE I HIE	our organization: (Selec	t all that apply)
	Non-governmental Enterprise HIE (i.e	, state-designated HIE . primarily facilitate excha Service Provider (HISP)	nge between strategica	lly aligned organizations)
	Other (please list):			
3.	What is your legal organiza	ational structure?		
	State Governme Private Non-Prof Private For-Profi Other (please sp	it 501c3 t		
4.	participants in your HIE? T	his should * not* include s ne or eHealth Exchange,	state(s) that you connec	ou currently have, or are recruiting new, t to via regional/national networks, such as provide technology for other HIEs that are
	Alabama	Alaska	American Samoa	Arizona
	Arkansas	California	Colorado	Connecticut
	Delaware	Distr. of Columbia	Florida	Georgia
	Guam	Hawaii	Idaho	Illinois
	Indiana	lowa	Kansas	Kentucky
	Louisiana	Maine	Maryland	Massachusetts
	Michigan	Minnesota	Mississippi	Missouri
	Montana	Nebraska	Nevada	New Hampshire
	New Jersey	New Mexico	New York	North Carolina
	North Dakota	N. Mariana Islands	Ohio	Oklahoma
	Oregon	Pennsylvania	Puerto Rico	Rhode Island
	South Carolina	South Dakota	Tennessee	Texas
	Utah	US Virgin Is	lands Vermont	Virginia
	Washington	West Virginia	Wisconsin	Wyoming
5.	*For the state(s) selected i	n question 4, please selec	ct the specific hospital s	ervice area(s) † in which you currently

have, or are recruiting new, participants in your HIE.

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[†] Hospital Service Areas are geographic areas defined by the Dartmouth Atlas. [Populate list of HSAs for each State reported in prior question and have check all option for HSAs in a given state]

A hospital service area look-up by zip code can be found at: www.dartmouthatlas.org/data/search_zip.php

If you describe your service area differently or have additional comments on geographic area covered, please comment:

5a. If you have participants in other states or connections to HIEs in other states, please list those states here:

Please indicate which of the following options applies to your HIE data architecture model:

Federated Centralized

SENERAL SERVICES	
rovider Directory	
Patient Consent Management	
community Medical/Health Record: Aggregation of information om across the community served by the HIE	
Patient Electronic Access to their Health Information (e.g., mmunization history, lab results)	
Record Locator Service	
Query-based Exchange	
lesults delivery (i.e., uni-directional push)	
lerting/event notification (e.g., Admit-Discharge-Transfer)	
Messaging using the Direct Protocol	
ransform other document types or repositories into CCDAs (e.g., MDS, OASIS, Community Health Record)	
Data normalization	
ntake, assessment, and screening tools	
Exchange of data on individual patients' health related social needs often referred to as social determinants of health) such as ransportation, housing, food insecurity or other	
Connection to prescription drug monitoring program (PDMP) (send or receive)	
Connection to Immunization Information System(s) (IIS) (send or eceive)	
rescription fill status and/or medication fill history	
Provide data to third party disease registries (e.g., Wellcentive, Crimson, ACOs)	
Advanced care planning e.g., POLST/MOLST, power of attorney, patient personal advance care plan)	

Sell de-identified data to third parties

Integrating claims data
Other (please list):

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	Services related to VALUE-BASED PAYMENT MODELS			
	Activities related to quality measurement (e.g., generating, validating, reporting, etc.)]
	Closed-loop referrals tracking			
	Connection to social service referral platform(s) (e.g., Findl Unite Us, homegrown)	Help		
	Identification of gaps in care			
	Care coordination platform			
	Registry services, including operating as a clinical data reg qualified clinical data registry (QCDR) ¹	stry or]
	Providing data to allow analysis by networks/providers			
	Analytics (e.g., risk stratification, patient to provider attribut	on)		
	Other (please list):			
8. D	oes your HIE use patient data in any of the following ways rel Provide data to third parties (e.g., companies, researchers) Develop your own AI models to commercialize Develop your own AI models and deploy for participants (in Deploy AI models developed by third parties on behalf of participants.	to be used dividually o	for developing AI n	nodels
9. If	yes to options 2, 3, or 4 in question 8: What types of models	nave you d	eveloped and/or de	ployed:
		Yes	No	Don't know
	 Non-Machine Learning Predictive Models (e.g., LACE+ Readmission model based on logistic regression) 			
	Machine Learning Models (e.g. Readmission model leveraging random forest or neural network)			
	poveraging random forest or medial methods			
	3. Generative AI Models/Large Language Models (e.g., to create text summaries)			

¹ A Qualified Clinical Data Registry (QCDR) is a Centers for Medicare & Medicaid Services (CMS) approved vendor that is in the business of improving health care quality. These organizations may include specialty societies, regional health collaboratives, large health systems or software vendors working in collaboration with one of these medical entities. (CMS)

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		tp. Date XX/XX/20XX
	Other clinical use cases. Please specify:	
	None of the above	
	Don't know	
	9b. If yes to any of the above in 9: Were any state policies (e.g., legislation, regulations) or organization	onal policies
	(e.g., participant agreements) created and/or adjusted to allow development or use of artificial intelligence	ence models?
	9c. If yes to any of the above in 9: What was the motivation for building capabilities related to artificial	intelligence
	models?	
		l'avanta la la 0
	9d. If yes to any of the above in 9: What types of participants are asking for/interested in artificial intel	ligence models?
	(e.g., health systems; independent practices)	
	9e. If yes to any of the above in 9: What is your approach to governance of artificial intelligence mode	de accoccina
	models for bias, assessing model drift over time, etc?	is – assessing
	models for bias, assessing model unit over time, etc:	
10	D. Do entities participating in your HIE <u>cover</u> 100% of your operating expenses?	
10.	5. Do chanes participating in your file cover 100% of your operating expenses:	
	Yes	
	No	
11.	1. Are you confident that your HIE will be financially viable over the next 3 years ?	
	Very confident	
	Somewhat confident	
	Neither confident nor unconfident	
	Somewhat unconfident	
	Very unconfident	
	Don't know	
12.	2. Please estimate to the best of your knowledge what percent of your revenue comes from each of the	following
	sources:	
	Ctata granta (including Madiacid):	
	State grants (including Medicaid):	
	Federal grants:	
	Other grants:	
	Revenue from participants: Other. Please specify:	
	Other. Please specify.	
12	3. Has your state Medicaid organization ever provided funding to support your HIE?	
10.	5. Thas your state interioridate organization ever provided funding to support your file:	
	Yes – initial, one-time funding only	
	Yes – ongoing funding only	
	Yes – both initial and ongoing funding	
	In the process of obtaining approval for funding	
	<u></u> No	
	Other: Please explain:	
14.	4. Does your HIE formally partner with your state Medicaid organization to provide data for quality report	ing?
	Yes, our HIE provides data for state quality reporting only	
	Yes, our HIE provides data for federal quality reporting only	
	Yes, our HIE provides data for state and federal quality reporting	
	We are in the process of working with state Medicaid to provide data for quality reporting	
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	No Other: Please expla	ain:						E	Exp. Date XX/XX/20XX
15.	5. If you have a Master Patient Index (MPI) , please ESTIMATE:								
To	tal number of unique (res	solved) individu	als ir	n your MPI:			Do not k	know	
To	tal number of unique ind	ividuals in your	MPI	with more than	only d	emo	graphic d	lata: 🔲 Do	not know
16.	L6. Within the past year, please estimate the number of acute care hospitals (individual facilities both within health systems and independent, including VA, public, and private) that are directly connected (not via another network) to your HIE: HOSPITALS Provide data Do not know								
	Receive or view data		Do	not know					
17.	Please report whether	each type of en	tity is	s involved in you	r HIE in	the f	ollowing v	vays:	
	Answer Options	Provide Data to your HIE		eceive/Query or Data from your HIE	Vie Onl Acce to Da froi your l via po logi	ly ess ata m HIE, ortal	En	itity Not Involved i	n your HIE
	Behavioral Health providers								
	Long-term, post- acute care facilities								
	Home health agencies								
	Social service agencies								
	Community Based Organizations (CBOs)]			
	Pharmacies								
A	nswer Options	Provide Te Results to yo HIE		Receive/Qu Data from you		Acc Dat	w Only cess to a from ur HIE	Entity Not Involved in your HIE	
	Hospital-based labs								
	Physician office-based labs								
	Commercial Labs								
	Other Independent labs (NOT including commercial)								

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Mobile labs (e.g., Point of Care Labs for COVID-19)		
Public health labs		
Other:		

			HIE S	Support for I	Public Health				
means the from you	nat the public her HIE.) Select a Yes, state Yes, local Yes, tribal Yes, territory None of the a	y above (skip to Section of Current Connecti	to your E) vity to P	HIE, receives	/queries for da	ta, and/o			
1. Plea	ase report how	many PHAs engage w	ith your	HIE in the fol	lowing manner	:			
		Total number of unique PHAs connected with your HIE in any way	that se	er of PHAs end data to our HIE	Number of F that <u>received</u> query for control from your	e or lata	with	ber of PHAs n view only access	
St	tate-level	,							
Lo	ocal-level								
Tr	ibal-level								
Terr	itorial-level								
Plea	ase do not inclu	ow many registries en	gage wi	th your HIE in	the following r	manner:			s survey.
		Total number conn with your HIE in a way		that <u>send</u> o	Number of registries that <u>send data</u> to your HIE		Number of registries that receive or query for data from your HIE		
	Types of egistries								
1	ries Affiliated th a PHA								
	tribal PHAs: Ple Iap which can b	ease break down the noe found <u>here</u>):	umber o	Total Num	ctions by region ber of Unique nected with ye	Tribal		by the Tribal Ep	idemiology
		Northwest							
		California							

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	Rocky	Mountain			'
	Inter-Tribal Cou	ncil of Arizona, Inc.			
	Na	avajo			
	Albuquerque	Area Southwest			
	Grea	t Plains			
	Oklaho	oma Area			
	Great Lakes				
		nd Eastern Tribes			
		aska			
	Ai	asna			
2b. <mark>If any</mark> that apply		: What states/territories	are the PHA entities con	nected to your H	IO located in? Select all
=	Alabama Arkansas Delaware Guam Indiana Louisiana Michigan Montana	Alaska California Distr. of Columbia Hawaii Iowa Maine Minnesota Nebraska	Idaho Kansas Maryland Mississippi Nevada	Arizona Connecticu Georgia Illinois Kentucky Massachus Missouri New Hamp	setts shire
	New Jersey North Dakota	New Mexico N. Mariana Islands Pennsylvania	☐ New York S ☐ Ohio ☐ Puerto Rico	☐ North Caro☐ Oklahoma☐ Rhode Isla	
	Oregon South Carolina	South Dakota	Tennessee	Rilode Islai	ilu
	Utah	US Virgin	Islands Vermont Wisconsin		ginia
If they se state/terr _		☐ West Virginia∴ Please breakdown the	e number of state, local, a	Wyoming und/or territorial P	HA connections by
	Please fill in with sta	ates selected above	Total Number of Unique connected with your Head		
-					

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3. What is the purpose of PHA co	onnectivity? (Se	lect all that appl	v)		
To identify opportunities					
To make public health da	•				
Other (Please list):	ita avanabie to j	our participants	,		
Other (Flease list).					
SECTION B: Reporting Service	es Provided to I	PHAs			
40 Miss of the following re	norting conting	da vau affar ta	norticino	tina boolthoo	ura pravidara ar DU
4a. Which of the following re Select all that apply with					ire providers of Ph
Ocioot air triat appry with		mage at willon'y			
	In production	In testing	In planning	Not available	Don't know
Syndromic surveillance					
reporting					
Immunization registry					
reporting Electronic case reporting					
Electronic reportable					
laboratory result reporting					
Public health registry					
reporting (administered by or					
for public health agencies for					
public health purposes)					
Clinical data and/or					
specialized registry reporting (administered by or for non-					
public health agency entities					
for clinical care and					
monitoring health care quality					
and resource use)					
Other reporting (e.g., COVID					
specific, other registry)					
Vital Record System reporting					
4b. If in production for pu	iblic bealth regis	stry reporting: W	/hat tyne(s) of n	ublic health re	nistry renorting are i
production?	ibile ricaliir regie	ony reporting. V	rnat type(3) or pr	abile freath re	giony reporting are i
·					
4c. Have you encountered					
	Yes, Many	Yes, So	ome Fev	v/None	Don't know
Syndromic surveillance					
reporting Immunization registry					
reporting					
Electronic case reporting					
Electronic reportable					
laboratory result reporting					
Public health registry					
reporting (administered by or					
for public health agencies for					

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public health purposes)					
Clinical data and/or					
specialized registry reporting	a				
(administered by or for non-					
public health agency entities					7
for clinical care and	P				
monitoring health care quali	ty				
and resource use)					
Other reporting (e.g., COVII					7
specific, other registry)					_
Vital Record System reporti	na				
	9				
For each type of reporting					ing these services
(i.e., at least one organiz	ation providing dat	a for reporting)? (S	Select all that apply	/)	
		, , ,		,	
	Hospitals	Office-based	LTPAC	Urgent Care	Other
		physicians	settings		
Syndromic					
surveillance reporting					
Immunization registry					
reporting					
Electronic case					
reporting					
Electronic reportable					
laboratory result					
reporting					
Public health registry					
reporting					
Clinical data registry					
reporting and/or					
specialized registry					
reporting					
Other COVID-19					
related reporting (e.g.,					
registry)					
Vital Record System					
reporting					
·					
SECTION C: Receiving Dat	a from PHAs				
Note: Please respond to the I		ne for all DUAe no	t only the primary		
vote. Please respond to the i	emaining question	15 IUI ali PHAS, IIU	torny trie primary		
6. Which of the following type	es of data do you r	eceive from Phas	with which you na	ive established col	nectivity? (Select
<u>all</u> that apply)					
Immunization					
Reportability Respon	cac (i.a. whathar	e condition is reno	tahla in a juriedicti	on)	
	,	•	table ili a julisulcii	on)	
Laboratory orders an	d/or results from p	ublic health lab			
Data from public heal	th registry (admini	stered by or for pu	blic health agencie	es for public health	purposes)
Data from clinical dat		-	-	•	
	•	• • • • • • • • • • • • • • • • • • • •	•	ii-public fiealtif age	ency endices for
clinical care and monitori	•	and resource t	ise)		
Data related to COVI	D-19				
Vital records					
Other. Please list:					
Don't know					
None—do not receive	e data from public	health entities			
do not receive	Jaka Holli public				

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SECTION D: Other Services, Barriers and Support for Public Health Exchange

7.	What other services does your HIE provide to	PHA(s)?: (Sele	ect all that app	ly)				
	Analytic and Data Quality Support (beyond those reported above) Dashboarding and Data Visualization Assistance Process Automation Bidirectional Data Sharing/Receiving Data from PHAs Use of HIE MPIs to Support Public Health Deduplication or Other Services Outbreak Monitoring and Alerting Public Health Policy Impact Monitoring Situational Awareness Other. Please list: None							
8.	Do you receive any of the following funding so	ource(s) to supp	oort PHA conn	ectivity? (Seled	ct all that apply	·)		
	Do you receive any of the following funding source(s) to support PHA connectivity? (Select all that apply) Fees paid by participants Fees paid by State or local health department(s) State Medicaid funding CDC funding (including through State or local health departments) Other Federal funding Other State funding, including from State health department Other. Please list: Do not receive any funding to specifically support public health reporting 8a. For respondents who indicate any responses other than "Do not receive any funding to specifically support public health reporting": Based upon your best estimate, to what extent do you think these sources of funding will be available to support PHA connectivity over the next 3 years? To a great extent Some extent Very little Not at all Don't know							
9.	To what extent have you experienced the follo	wing barriers <u>v</u>	within the last Somewhat	t year to PHA o	Not at All	N/A		
	Deticate agreement and delivery	Extent	Joinewhat	very Little	NOT AL AII			
	Patient consent model hinders data exchange with PHAs							
	State statutes/regulations limit PHAs participation with HIE							
	Need for data use agreements for public health data							
	Limited funding from PHAs							
	Limited funding from your HIE participants							
	PHAs lacks staffing							
	PHAs lacks technical capability to receive							
	messages from your HIE							
	PHAs lacks technical capability to process messages from your HIE							
	Other technical limitations on part of PHAs							

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PHAs have other priorities												
Low return on investment to your HIE												
Cost to maintain infrastructure that is only						1						
used in specific circumstances (e.g.,												
natural disaster, public health emergency)			7			1	ı					 _
Other (please list):												
10. To what extent do you feel prepared to support PHA data needs for a future pandemic? To a great extent Somewhat Very little Not at all Don't Know SECTION E: Other Public Health Exchange Capabilities												
Does or could your HIE currently provide data nformation)?	to Pl	HA(s) to f	ill data	a-re	elated	gaps ((e.g., mi	ssing (demog	raphio	
Yes												
No but could do so												
No and could not do so												
Don't know												

11a. If Yes or No but could do so: Please indicate what types of data are or could be provided to PHAs fill data-related gaps in information. (Select all that apply)

	Currently provided	Not currently provided but could be
Clinical Information		
Problems		
Prescribed Medications		
Immunizations		
Laboratory-Related Information		
Laboratory Value(s)/Result(s)		
Encounter-Related Information		
Procedures		
Admission and Discharge Dates and Locations		
Encounters (Encounter type, diagnosis, time)		
Reason for Hospitalization		
Newborn Screenings		
Health Equity		
Home Address or other up-to-date contact		
information for contact tracing		
Race/Ethnicity		
Preferred Language		
Health-related Social Needs (e.g., housing, food		
insecurity)		
Substance Use Disorder Diagnosis (as defined in 42		
CFR Part 2)		
Gender Identity		
Sexual Orientation		
Other		

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Form Approved OMB No. 0990-Exp. Date XX/XX/20XX Other (please list): 11b. If yes: How often do PHA(s) electronically receive or query these types of data from your HIE? Often Sometimes Rarely Never Don't know 11c. If yes: How are PHA(s) accessing these types of data? (Select all that apply) Single patient lookup through a Portal Batch query and response FHIR API query and response Aggregate data and/or statistics (e.g., dashboard) SFTP/Amazon S3 file transfer Other. Please list: Not applicable 11d. If yes: To what extent is access to these types of data in real-time? Majority in real-time Mix of real-time and lagged Majority lagged

12.	What are your current capabilities to electronically receive hospital data on bed capacity and resource utilization ?
	Electronic receipt includes standards-based approaches (e.g., SANER, HL7 feed) and does not include spreadsheet
	submission and/or manual data entry.
	Activaly algoritanically receiving production data

Actively electronically receiving production data
In the process of testing and validating electronic receipt of data
In planning phase to support this reporting
Not planning to support this reporting
Don't know

Implementation and Use of Standards

1. To what extent does your HIE electronically **receive** data from your participants using the following methods listed below? (Select one option across a row)

Please consider the methods used by participant to provide the data to your HIE. Do not include conversions you may do after receipt. With regards to conformance to standards, if the receipt of the data is in partial conformance, please consider that as conformant.

	Routinely/ from most participants	Sometimes/ From some participants	Rarely/ From few participants	Never	Don't know			
HL7 v2 messages for event notification (ADT messages)								
HL7 v2 messages (e.g., Scheduling, Orders, Labs)								
FHIR (any version)								
2. To what extent does your HIE electronically send or make available for query data to your participants using the following methods?								

Routinely/
To most participants

Sometimes/
To some participants

Care summaries in a structured format (e.g., CDA)

HL7 v2 messages (any type)

FHIR (any version)

Sometimes/
To some participants

Parely/
To few participants

Never Don't know participants

FNO SOMETIMES/
TO SOME participants

Never Don't know participants

FNO SOMETIMES/
TO SOME participants

Never Don't know participants

3. Which types of **clinical and other health-related information** are made available by your HIE (as part of a clinical document or as a structured data element)? See <u>U.S. Core Data for Interoperability</u> (USCDI) for further information. (Select all that apply)

	Included in your HIE
Data Provenance	
Health Insurance Information (e.g., coverage status, coverage type, member/subscriber/group/payer identifiers)	
Clinical Information	
Problems	
Prescribed Medications	
Filled Medications	
Medication Allergies	
Non-Medication Allergies & Intolerances	
Functional Status	
Cognitive Status	
Vital Signs	
Pregnancy Status	
Immunizations	
Family Health History	
Health Concerns	

Diagnostic Imaging Order Radiology Report (narrative) Pathology Report (narrative) Laboratory-Related Information Laboratory Value(s)/Result(s) Laboratory Value(s)/Result(s) Laboratory Reports (narrative) Team-Based Care Care Plan Field(s), including Goals and Preferences Care Team Member(s) (Provider ID, Provider Name) Assessment and Plan of Treatment Encounter-Related Information Procedures Admission and Discharge Dates and Locations Encounters (Encounter type, diagnosis, time) Discharge Disposition Referrals Discharge Instructions Reason for Hospitalization Health Equity Home Address Race/Ethnicity Preferred Language Health-related Social Needs (e.g., housing, food insecurity) Substance Use Disorder (as defined in 42 CFR Part 2) Gender Identity Sexual Orientation Other Other (please list): Ited "Health-related Social Needs" in question 3: Which of the following he ins does your organization make available to participants? (Select all that Housing / Homelessness Food Security Transportation Financial Utility Assistance Interpersonal Violence Employment	
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Transportation Financial Utility Assistance Interpersonal Violence	
Financial Utility Assistance Interpersonal Violence	
Utility Assistance Interpersonal Violence	
Interpersonal Violence	
Interpersonal Violence	
Long Term Services and Supports	
Health Education	
Other. Please specify:	
ted "Health related Social Needs" in question 3: How are <u>health-related sect</u> all that apply) ICD-10 Z codes LOINC	ncial need

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SNOMED Health-related social Encoded using other.		encoded		·				
4. Do you receive care summary do Yes No Don't know	Yes No							
4a. If Yes: To what extent does y	our HIE electronicall	y <u>receive</u> care su	mmaries in struc	ctured versu	s			
unstructured format from your	Routinely/ most	Sometimes/	Rarely/ few	Never	Don't know			
Care summaries in a structured	participants	participants	participants					
format (e.g., CDA) Care summaries in an unstructured format (e.g., PDF)								
(i.e., extract and make available discrete data elements): Yes No Don't know 5. Does your HIE map from non-standard laboratory test/result codes to LOINC® codes? Yes No (Skip to next section) Don't know (Skip to next section)								
 5a. Within the past year, based upon the volume of test results received (qualitative and quantitative), to what extent did your HIE have to map those results from non-standard codes to LOINC codes? All or most Some Few None Don't know 								
5b. Have you experienced any of the following issues related to mapping to LOINC? (Select all that apply) We do not have sufficient expertise to map to LOINC within our organization We find LOINC and LOINC tools too difficult to use We do not have the resources (personnel/time) to map to and/or maintain mappings to LOINC Other issue. Please specify: No, we have not experienced any issues mapping to LOINC Don't know								

Network-to-Network Connectivity and TEFCA

IVC	ework-to-inetwork connectivity and i				
1.	Does your HIE: (Select all that apply)				
	Sell/provide your infrastr	ucture to other HIEs			
	Buy/use infrastructure fro	m another HIE			
	Connect to other HIEs in	the SAME state			
	Connect to other HIEs in				
	None of the above	a Dil 1 ENEIVI State(5)	/		
	None of the above				
2.	Is your HIE currently using the following come next.	g national networks / fr	ameworks to exchange	data? Note: TE	FCA questions
		Live Data			
		Exchange (send or receive)	Implementing	Not Using	Other (please specify):
	General Purpose Networks:	_			
	CommonWell				
	DirectTrust				
	Patient Centered Data Home (Governance Council supported by Civitas)				
	e-Health Exchange				
-	Carequality				
-	Specific Purpose Networks:				
-	Surescripts				
-	Patient Ping				
-	Audacious Inquiry: Pulse/ENS				
-	Point Click Care: EDie				
F	National Public Health Networks:				
-	Association of Public Health				
	Laboratories Informatics Messaging Services (APHL AIMS)				
	IZ Gateway				
Ī	Other (please list):				
L	2a. If not using any general-purpose n general purpose networks: (Select Do not see the value in what the Perceive them as competitors Participation costs too high Not a priority Other. Please list:	all that apply)			any of the
3.	Is your HIE participating in the Trusted Yes No, but we plan to participate a	-	and Common Agreeme	ent (TEFCA)?	
		-	aartioinant		
	No, but we plan to participate a		participant		
	No. and we do not plan to part	icipate			

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No and we don't know if w	o will portioine	ato.				Exp. Date	XX/XX/20XX		
No, and we don't know if w	e wiii participa	ate							
3a. If any no: Why are you not curr Didn't/Don't have enoug	h information		anning to pa	articipate, ir	TEFCA	v? (Select all th	at apply)		
Didn't/Don't have time/r		•	_						
Had/Have concerns about Had/Have concerns ove	r privacy and/	or security of t			riefly de	scribe):			
Concerns about the bur	Risk of inappropriate use of the data Concerns about the burden associated with participation (e.g., financial, reporting, technical/infrastructure)								
(please briefly describe): Did/Do not perceive suf		narticinating	(nlease hrie	efly describe	- whv).				
Lessens competitiv	e advantage			•	- 7	•			
Did/Do not support the twithin a QHIN.	echnical requi	irements, inclu	ıding stand	ards, requir	ed to pa	rticipate in TEI	-CA or		
Were/Are waiting to see						nange (e.g.,			
requirements related to I		,				\			
Had/Have concerns about Had/have not yet development		•		eive trirougi	TIEFC	٦.			
Other (please list):	.,								
3b. If Yes or No, but we plan to par					TEFCA	QHIN(s) or Ca	ndidate		
QHIN(s) are you participating or pl	anning to parti	icipate in? Cn	еск ан тпат	арріу. 	1				
Epic	Nexus								
еНе	alth Exchange	9							
Hea	lth Gorilla								
KON	IZA								
Med	Allies								
Con	nmonWell Hea	alth Alliance							
Kno	2								
Othe	er (please list)	:							
Don't Know									
			,		1				
3c. If Yes or No, but we plan to par						anges has you	HIE		
made, or is your HIE planning to m	ake, to its ope	erations in ord	er to partici	pate in TEF	CA:				
		Yes	No	Don't	t know	Not			
				50		Applicable			
Changing types of services									
Selling/providing your serv other HIEs	ices to								
Buying/using services from	another								

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	Changing technical infrastructure							
	Changing legal agreements and/or policies							
	Changing other infrastructure (e.g., creating new training, supporting or making process redesigns (e.g., new workflows))							
	New Partnerships with other HIEs							
	New Partnerships with an entity that is not an HIE (e.g., health IT developer)							
	Other (please list):							
3e. If \	3d. If Yes, how would you rate the benefit of participating in TEFCA to your HIE and members: Substantial Moderate Minimal/Not at all (please explain): Don't know 3e. If Yes or No, but we plan to participate as a participant or sub-participant, how satisfied are you with your HIE's QHIN?							
2f If a	Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied (please explain): Very dissatisfied (please explain): N/A (e.g., we are the QHIN)	with the TEEC	A Pacagnizad (Coordinating En	utitu's rasnansa	to issues		
	ny response to Q3, how satisfied are you ed by your HIE or your HIE's QHIN?	with the TEFC	A Recognized (Joordinating En	itity's response	to issues		
	 Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied (please explain): Very dissatisfied (please explain): My HIE or my HIE's QHIN has not, to my knowledge, reported issues to the RCE. 							
3g. If \	es, what proportion of your members par All/Most Some Few (Please explain): None (please explain): Don't know	rticipate in TEF	CA through you	ır HIE?				

Information	Blocking

Information blocking practices have been defined in rules that went into effect on April 5, 2021. The following set of questions ask about practices that may constitute information blocking based on your understanding of the rules. Please respond based on your experience since the rules went into effect (April 5, 2021).

1.	To what extent are you familiar with the information blocking rules, application timeline?	cable acto	ors, exceptions	s, and enforc	ement
	Very Familiar				
	Moderately Familiar				
	Somewhat Familiar				
	Not Familiar				
rule	1a. To what extent are you familiar with ASTP/ONC's process for reporting?	ng violatio	ons of the info	mation block	king
	Very Familiar				
	Moderately Familiar				
	Somewhat Familiar				
	Not Familiar				
	How often have you encountered each of the following form(s) of infor Developer(s) of Certified Health IT)?	mation bl	ocking by EHF	R vendors (a	and other
	Developer(a) of certained floatarrity.	Rarely	Sometimes	Often/	Don't
		/Never		Routinely	Know
	PRICE				
	Examples:				
	using high fees to avoid granting third-parties access to data stored in the developer's EHR system				
	charging unreasonable fees to export data at a provider's request (such as when switching developers)				
	CONTRACT LANGUAGE				
	Examples:				
	using contract terms, warranty terms, or intellectual property rights to discourage exchange or connectivity with third-party				
	changing material contract terms related to health information exchange after customer has licensed and installed the vendor's technology				
	ARTIFICIAL TECHNICAL, PROCESS, OR RESOURCE BARRIERS				
	Examples:				
	using artificial technical barriers to avoid granting third-parties access to data stored in the vendor's EHR system				
	using artificial reasons to limit the types of information that can be sent/shared or received				

REFUSAL

Examples:

refusing to exchange information or establish connectivity with certain vendors or HIOs

refusing to export data at a provider's request (such as when switching

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	vendors)								
	OTHER (please list):								
3.	What proportion of EHR vendors have you encountered engaging i All/Most Some Few None (skip to 6) Don't know or N/A (Don't interact with developers) (skip to 6)		matio	n blocking'	?				
	3a. Among EHR Vendors that engage in information blocking, how Routinely Sometimes Rarely Don't know	often (do the	ey do it?					
4.	When you have experienced practices that you believed constituted year, how often did you report the information blocking to ASTP/ON			blocking b	y EHI	R ven	dors in	the	pas
	Always Most of the time Sometimes Rarely Never								
	4a. If Rarely or Never: Why have you not reported information block it?	ing by	EHR	vendors v	vhen y	ou ha	ve expe	erier	ıce
5.	To what extent does information blocking by EHR vendors make it your participants? Greatly Moderately Minimally/Not at all Don't know	more (difficu	lt for you to	provi	de HII	E servic	es t	0
6.	In what form(s) have you experienced information blocking by hosp	itals a	nd h	ealth syste	ems?				
		Rarel /Neve	_	ometimes		ten/ tinely	Don'		
Ī	ARTIFICIAL TECHNICAL, PROCESS, OR RESOURCE BARRIERS								
	Examples: requiring a written authorization when neither state nor federal law requires it								
_	requiring a patient to repeatedly opt in to exchange for TPO REFUSAL							4	
	Examples: refusing to exchange information with competing providers, hospitals, or health systems								
	refusing to share data with other entities, such as payers or independent labs								

	CLOSED NETWORK EXCHANGE				
	Examples:				
	promoting alternative, proprietary approaches to HIE				
	exchanging only within referral network or with preferred referral partners				
Ī	OTHER (please list):				
7.	What proportion of hospitals and health systems have you encount and All/Most Some Few None (skip to 10) Don't know or N/A (skip to 10)	ountered e	engaging in info	ormation bloc	king?
	7a. Among hospitals and health systems that engage in information in the systems are specified by the systems and health systems that engage in information in the systems are specified by the systems and health systems that engage in information are specified by the systems ar	ation block	king, how often	do they do it	?
8.	When you have experienced practices that you believed constitute systems in the past year, how often did you report the information				and health
	Always Most of the time Sometimes Rarely Never				
	8a. If Rarely or Never: Why have you not reported information you have experienced it?	blocking	by hospitals a	and health s	ystems whe
9.	To what extent does information blocking by hospitals and health information? Greatly Moderately Minimally/Not at all Don't know	ı system	s lead to missi	ng patient he	alth
10	. Among other types of entities, to what extent have you observed in	Rarely/	n blocking beha Sometimes	Often/	Don't
	Commercial Payers	Never		Routinely	Know
	Commercial Payers Laboratories				
	Commercial Pharmacies				
	Public Health Agencies				
	Healthcare Providers other than Hospitals and Health Systems (e.g., independent practices)				
	National Networks (e.g. CommonWell, eHealth Exchange)				
	State, Regional, and/or Local Health Information Exchanges				
	Other (please list):				

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12. If Laboratories selected in Q10 above: What types of laboratories have sought to limit or refused to provide access, exchange, or use of electronic health information? (Select all that apply)
Hospital-based labs
Commercial labs
Independent labs (not including commercial)
Physician office-based labs
Mobile labs (e.g., Point of Care Labs for COVID-19)
Public health labs
Other. Please list:
13. Which of the following reasons have laboratories used as the basis for limiting or refusing to provide electronic health information to your HIE? (Select all that apply)
Role of CLIA or other federal regulations in restricting them from sending additional data
Fees associated with HIE participation
Labs don't derive value as a data contributor only
Concerns with HIE's ability to do patient matching
Concerns with producing duplicate data Exchanging data with HIEs is not considered related to treatment, payment, or operations and thus would
require patient consent
Labs reporting obligation ends with returning result to ordering provider
Public health agencies (including emergency rules) do not mandate reporting to HIE
Labs need consent from each individual provider, resulting in your HIE having to execute multiple disclosure forms (e.g., for each participating health care provider)
Technological reasons/use of specific standards (convenient reason or wide spectrum of what labs are able to
do)
Other. Please list:
14. To what extent have you been able to overcome these difficulties to access data from laboratories?
Not at all
To a small extent
Somewhat
To a great extent
Fully

Additional Information

1. Initiative or Organization Name:
2. We appreciate your participation. Would you like to receive a copy of our results that will enable you to compare your effort to others in the nation?
Yes No
3. If you would like to receive a \$50 amazon.com gift certificate, please complete the following fields:
Name:
Email: