## 2022 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 National Coordinator for Health IT (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 SHIEC member efforts. We request a brief amount of 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 Reporting
- (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, the Office of the National Coordinator for Health IT (ONC) that is funding the survey will be given a dataset containing identifiable survey responses in the first five sections only. ONC may choose to share all or part of the dataset with 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, ONC, and any ONC contractors receiving the data will abide by these terms.

If you are involved with multiple efforts, 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 effort. 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 <u>do not</u> 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 Lisa Bari (Ibari@civitasforhealth.org or 415-680-6921)

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Screening Questions
We would first like to ask you about the type of organization for which you are responding:
1. As of March 1, 2022, was your organization: (select one)
<ul> <li>Supporting* "live" electronic health information exchange across your network</li> <li>Building (or planning for) the infrastructure or services to support*, or pilot testing, electronic health information exchange across your network (End of survey)</li> <li>No longer pursuing or supporting* electronic health information exchange (End of survey)</li> <li>Never pursued or supported* electronic health information exchange (End of survey)</li> </ul>
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).

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Or	ganizational Demographics
1.	Which of the following general categories apply to your organization: (Select all that apply)
	<ul><li>☐ Multi-state HIE</li><li>☐ Single, statewide HIE</li><li>☐ Community or local HIE</li></ul>
	<ul> <li>☐ Governmental, state-designated HIE</li> <li>☐ Non-governmental, state-designated HIE</li> <li>☐ Enterprise HIE (i.e. primarily facilitate exchange between strategically aligned organizations)</li> </ul>
	<ul><li>☐ Health Information Service Provider (HISP)</li><li>☐ Other (please list):</li></ul>
2.	What is your legal organizational structure?
	State Government/Agency Private Non-Profit 501c3 Private For-Profit Other (please specify):
3.	Since January 1, 2020, have you merged or are you planning to merge with another HIE?  No, not planning to do so  Currently considering Yes, plan to merge. If public, with whom: Yes, recently merged. If public, with whom:
4.	*Which state(s) do you consider the <u>primary</u> ones in which you currently have, or are recruiting new, participants in your HIE? This should * <b>not</b> * include state(s) that you connect to via regional/national networks, such as Patient Centered Data Home or eHealth Exchange, or state(s) in which you provide technology for other HIEs that are branded under a different name.
	□ Alabama       □ Alaska       □ American Samoa       □ Arizona         □ Arkansas       □ California       □ Colorado       □ Connecticut         □ Delaware       □ Distr. of Columbia       □ Florida       □ Georgia         □ Guam       □ Hawaii       □ Idaho       □ Illinois         □ Indiana       □ Iowa       □ Kansas       □ Kentucky         □ Louisiana       □ Maine       □ Maryland       □ Massachusetts         □ Michigan       □ Minnesota       □ Missouri       □ 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 Islands       □ Vermont       □ Virginia         □ Washington       □ West Virginia       □ Wisconsin       □ Wyoming
5.	5a. *For the state(s) selected in question 4, please select the specific hospital service area(s) † in which you currently have, or are recruiting new, participants in your HIE.  † 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]
Αh	nospital service area look-up by zip code can be found at: www.dartmouthatlas.org/data/search_zip.php
	rou describe your service area differently or have additional comments on geographic area covered, please comment:
**	5b. If you have participants in other states or connections to HIEs in other states, please list those states here: Confidential, Do not Cite or Distribute**

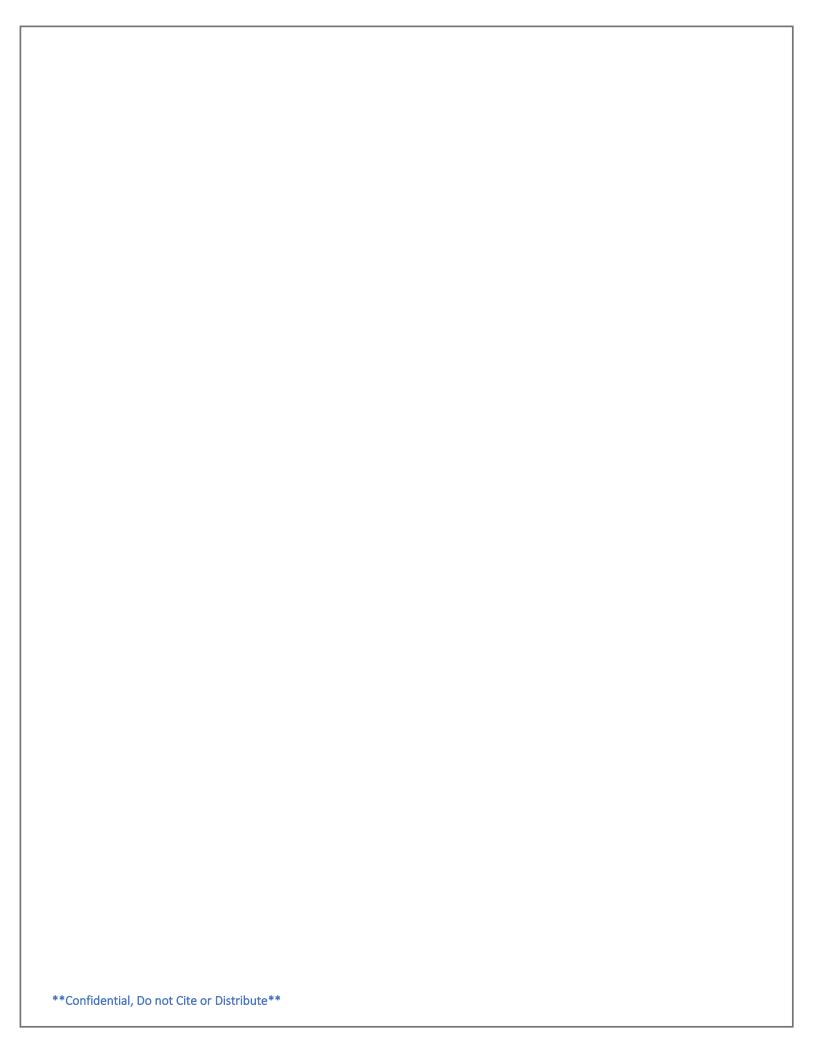
6.	For the state(s) selected in question 4, what is the state's general ap [Populate with states from question 4, limiting to those only reporting		
	☐ Opt-in ☐ Opt-out ☐ Other (please specify):		
7.	Please indicate which of the following options applies to your HIE mo	del:	
3.	Which of the following services do you currently offer that are used by	y participants in your HIE? (Select all th	nat apply)
	GENERAL SERVICES		
	Provider Directory	П	
-	Patient Consent Management		
F	Community Medical Record: Aggregation of information from		
	across the community served by the HIE, only including health		
	information (e.g., diagnoses, procedures, medications)		
	Community Health Record: Aggregation of information from across		
	the community served by the HIE, including health and non-health		
	information (e.g., transportation, education, and/or housing data)		
	Record Locator Service		
	Messaging using the Direct Protocol		
	Transform other document types or repositories into CCDAs (e.g., MDS, OASIS, Community Health Record)		
Ī	Data normalization		
	Alerting/event notification (e.g., Admit-Discharge-Transfer)		
-	Results delivery (i.e., uni-directional push)		
-	Connection to prescription drug monitoring program (PDMP)		
	Prescription fill status and/or medication fill history		
	Provide data to third party disease registries (e.g., Wellcentive, Crimson)		
-	Advanced care planning (i.e., POLST/MOLST)		
	Sell de-identified data to third parties		
	Patient access to immunization history		
-	Integrating claims data		
	Other (please list):		
_			
	Services related to VALUE-BASED PAYMENT MODELS		
	Activities related to quality measurement (e.g., generating, validating, reporting, etc.)		
	Closed-loop referrals tracking		
ſ	Identification of gaps in care		
j	Care coordination platform		
Ĺ	Care coordination platform		

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	Registry services, including operating as a clinical data registry or	П	
	qualified clinical data registry (QCDR) <sup>1</sup>	]	
	Providing data to allow analysis by networks/providers	<u> </u>	
	Analytics (e.g., risk stratification) Other (please list):		
	Other (please list).		
9.	Do <b>entities participating in your HIE cover</b> 100% of your operating	expenses?	
	□Yes □No		
10.	Have you received HITECH 90/10 funds for implementation either directory through another entity?	ectly as state designated entit	y, or indirectly
	☐Yes ☐No ☐Don't know		
11.	Has your state Medicaid organization ever provided funding to support	rt your HIE?	
	<ul> <li>Yes − initial, one-time funding only</li> <li>Yes − ongoing funding only</li> <li>Yes − both initial and ongoing funding</li> <li>In the process of obtaining approval for funding</li> <li>No</li> <li>Other: Please explain:</li> </ul>		
12.	Does your HIE formally partner with your state Medicaid organization	to provide data for quality rep	oorting?
	<ul> <li>Yes, our HIE provides data for state quality reporting only</li> <li>Yes, our HIE provides data for federal quality reporting only</li> <li>Yes, our HIE provides data for state and federal quality reporti</li> <li>We are in the process of working with state Medicaid to provid</li> <li>No</li> <li>Other: Please explain:</li> </ul>		
13.	If you have a <b>Master Patient Index (MPI)</b> , please ESTIMATE:		
	Total number of unique (resolved) individuals in your MPI:	☐ Do not know	
	Total number of unique individuals in your MPI with more than onl	y demographic data:	☐ Do not know
14.	Within the past year, please estimate <b>the number of acute care hos</b> systems and independent, including VA, public, and private) that are quotient your HIE:	• `	
	HOSPITALS		
	Provide data		
	Receive or view data    Do not know		
	_		

<sup>&</sup>lt;sup>1</sup> 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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Public Health							
	ı	HIE Supp	oort for Public F	lealth	n Reporting		
Screening: Is your HIE connecte entity provides data to your HIE   Yes   No (skip to next sect	, receives da						
<ol> <li>Please list up to 5 state or</li> <li>1a. For the entity(ies) listed</li> </ol>					ed to your HIE:		
Answer Options *populate from those list	Answer Options *populate from those listed above*			State Public Health Lo Agency F		Other	
1b. For the entity(ies) listed	please repo	rt whethe	er each public he	alth e	entity: (Select all that	apply)	
Answer Options *populate from those listed above*	provide to your			orts	pays to participate in your HIE	None of these options	

1c. Please report whether **the Centers for Disease Control and Prevention (CDC)**: (Select all that apply)

Provides data to your HIE

Receives reported data from your HIE

■ None of the above

If any option in column 2 of question 1b is selected:

For questions 2-6 please answer for the PRIMARY public health agency (PHA) to which you are currently reporting data or are establishing ability to report data:

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2.	Please indicate which you consider to be the primary public health agency to which you are currently or planning to
	establish reporting:

2a.	Which of the following reporting services to your primary public health agency (PHA) do you offer to y	our/
	participating healthcare providers?	

	In production	In testing	In planning	Available, but PHA not able/willing	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 COVID-19 related reporting (e.g., registry)						
Vital Record System reporting						

3. For each type of reporting to the primary PHA that is in production, are any of the following provider types currently using these services (i.e., at least one organization providing data for reporting)? (Select all that apply)

	Hospitals	Office-based physicians	LTPAC settings	Urgent Care	Other
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					

<sup>3</sup>a. For each type of reporting for 'Other' provider types, please indicate which provider types below.

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	Syndromic surveillance reporting					
	Immunization registry reporting					
	Electronic case reporting					
	Electronic reportable laboratory result re					
	Public health registry reporting					
	3 1 3					
	Clinical data registry reporting and/or sp	pecialized				
	registry reporting	ra miatro ()				
	Other COVID-19 related reporting (e.g.,	registry)				
	Vital Record System reporting					
4.	Do you receive any of the following funding sociapply)  Fees paid by participants Fees paid by State health department State Medicaid funding STAR HIE program CARES Act funding	urce(s) to specifica	ly support public	health reporting	? (Select all	that
	<ul> <li>□ Other Federal funding</li> <li>□ Other State funding, including from State</li> <li>□ Other. Please list:</li> <li>□ Do not receive any funding to specifical</li> </ul>	·				
5.	To what extent have you experienced the follow and receiving from primary PHA.	ving barriers to pul	olic health reporti	ng? This include:	s both repor	_
		To a Great Extent	Somewhat	Very Little	Not at All	N/A
	Patient consent model hinders data exchange with PHA					
	State statutes/regulations limit PHA					
	narticination with HIF			Ш		
	participation with HIE  Need for data use agreements for public					
	Need for data use agreements for public					
	Need for data use agreements for public health data					
	Need for data use agreements for public health data Limited funding from PHA					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants					
	Need for data use agreements for public health data Limited funding from PHA					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing PHA lacks technical capability to receive					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing PHA lacks technical capability to receive messages from your HIE PHA lacks technical capability to process messages from your HIE					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing PHA lacks technical capability to receive messages from your HIE PHA lacks technical capability to process					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing PHA lacks technical capability to receive messages from your HIE PHA lacks technical capability to process messages from your HIE Other technical limitations on part of PHA PHA has other priorities					
	Need for data use agreements for public health data Limited funding from PHA Limited funding from your HIE participants PHA lacks staffing PHA lacks technical capability to receive messages from your HIE PHA lacks technical capability to process messages from your HIE Other technical limitations on part of PHA					
	Need for data use agreements for public health data  Limited funding from PHA  Limited funding from your HIE participants  PHA lacks staffing  PHA lacks technical capability to receive messages from your HIE  PHA lacks technical capability to process messages from your HIE  Other technical limitations on part of PHA  PHA has other priorities  Low return on investment to your HIE  Other (please list):					
6.	Need for data use agreements for public health data  Limited funding from PHA  Limited funding from your HIE participants  PHA lacks staffing  PHA lacks technical capability to receive messages from your HIE  PHA lacks technical capability to process messages from your HIE  Other technical limitations on part of PHA  PHA has other priorities  Low return on investment to your HIE  Other (please list):  Since February 2020, have you expanded the rethrough your HIE?  Yes  No  Don't know  6a. If yes, Which provider types expanded the light of the provider types expanded the provider types expanded the light of the provider types expanded the provider types expanded the light of the provider types expanded the provider types	D D D D D D D D D D D D D D D D D D D	ŭ			, 0
	Need for data use agreements for public health data  Limited funding from PHA  Limited funding from your HIE participants  PHA lacks staffing  PHA lacks technical capability to receive messages from your HIE  PHA lacks technical capability to process messages from your HIE  Other technical limitations on part of PHA  PHA has other priorities  Low return on investment to your HIE  Other (please list):  Since February 2020, have you expanded the rethrough your HIE?  Yes  No  Don't know  6a. If yes, Which provider types expanded the lithing the provider types exp	D D D D D D D D D D D D D D D D D D D	ŭ			, 0

Other Provider Types Reporting through your HIE

Long-term Care Facilities	
Correctional Facilities	
Labs (commercial, public health)	
Behavioral Health Providers	
Other (please list):	

## If any option in column 1 of question 1b is selected:

7a.	Which of the following types of data do you <b>receive</b> from public health entities with which you have established connectivity? (Select all that apply)  Syndromic surveillance Immunization Electronic case reports Electronic reportable laboratory results Data from public health registry (administered by or for public health agencies for public health purposes) Data from clinical data and/or specialized registry (administered by or for non-public health agency entities for clinical care and monitoring health care quality and resource use) Data related to COVID-19 Vital records Other. Please list: Don't know
7b.	What is the purpose of receiving public health data? (Select all that apply)  To identify opportunities to enrich public health data with HIE data  To make public health data available to your participants  Other. Please list:
	HIE Support for Public Health Exchange Related to the Pandemic
8.	What are your current capabilities to electronically receive hospital data on <b>bed capacity and resource utilization</b> ? Electronic receipt includes standards-based approaches (e.g., SANER, HL7 feed) and does <b>not</b> include spreadsheet submission and/or manual data entry.
	<ul> <li>☐ Actively electronically receiving production data</li> <li>☐ In the process of testing and validating electronic receipt of data (Skip to 9)</li> <li>☐ In planning phase to support this reporting (Skip to 9)</li> <li>☐ Not planning to support this reporting (Skip to 9)</li> <li>☐ Don't know (Skip to 9)</li> </ul>
	8a. If actively electronically receiving production data, to what entities are you submitting this data? (Select all that apply)
	<ul> <li>☐ City or local public health department(s)</li> <li>☐ State public health department(s)</li> <li>☐ Federal entities (such as, the CDC or HHS)</li> <li>☐ Other. Please list:</li> <li>☐ Don't know</li> </ul>
	8b. How do hospitals transmit hospital capacity and resource utilization data to your HIE? (Select all that apply)  ADT messages  HL7 v2 messages  SANER FHIR Server <a href="https://build.fhir.org/ig/HL7/fhir-saner/introduction.html">https://build.fhir.org/ig/HL7/fhir-saner/introduction.html</a> Other. Please list: Don't know
**(	8c. What terminology standards are used by hospitals to report hospital capacity and resource utilization data?  (Select all that apply)  NIEM  Confidential, Do not Cite or Distribute**

	☐ Non	NC er. Please list: -standardized codes 't know		
9.	Does your HIE information)?	currently provide data to PHA(s) to fill gaps in their CO	VID-19-related data (e	e.g., missing demographic
	_	could do so could not do so now		
	9a. If yes of apply)	r could do so: Please indicate what types of data are or o	could be provided to fi	ll gaps. (Select all that
		Data Type	Currently provided	Not currently provided but could be
		Race/ethnicity	П	
		Other demographics		
		Up-to-date contact information (for contact tracing)		
		Hospitalization information		
		Health information such as chronic health conditions		
		Immunization data		
		Commercial lab results		
		Hospital lab results		
		Other:		
		How often do PHA(s) electronically receive or query thes  Often Sometimes Rarely Never Don't know  How are PHA(s) accessing these data? (Select all that approximately)		our HIE?
		Single patient lookup through a Portal  Batch query and response  API		
		Aggregate data and/or statistics (e.g., dashboard)   SFTP/Amazon S3 file transfer   Other. Please list:   Not applicable		
10.	What other se	rvices does your HIE provide to PHA(s) to support COVI	D-19 response: (Sele	ct all that apply)
	Dashbo	c and Data Quality Support (beyond those reported above parding and Data Visualization Assistance is Automation tional Data Sharing/Receiving Data from PHAs HIE MPIs to Support Public Health Deduplication or Oth ak Monitoring and Alerting Health Policy Impact Monitoring Please list:		

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11. Do PHA(s) contribute COVID-19 immunization registry data or make COVID-19 immunization registry data available for query through your HIE?					
☐ Yes ☐ No ☐ Don't know					
12. Other than PHAs, who are the users of your HIE's C	OVID-19 data? (Sele	ect all that apply)	)		
<ul> <li>☐ Healthcare Providers: Administrators</li> <li>☐ Healthcare Providers: Frontline Clinicians</li> <li>☐ Payers</li> <li>☐ Medicaid</li> <li>☐ Other. Please list:</li> <li>☐ None</li> </ul>	☐ Emergency Prep☐ School Nurses☐ Contact Tracers☐ CDC	paredness/Respo	onse		
13. If 'Healthcare Providers: Frontline Clinicians' is chec your HIE: (Select all that apply)	ked: What COVID-19	9 data can frontli	ne clinicians acce	ss through	
COVID-19 test results/case status COVID-19 antibodies Other respiratory illness history Vaccination Status Hospital Status/Capacity Information Healthcare utilization (inpatient, outpatient, EHR visits, etc.) Demographics (age, race, ethnicity, etc.) Other. Please list: Don't know					
14. If 'Healthcare Providers: Frontline Clinicians' is chec you HIE: (Select all that apply)	<mark>ked</mark> : How can frontlii	ne clinicians acc	ess COVID-19 da	ta through	
☐ Individual patient look-up via portal or query ☐ De-identified reports ☐ Bulk query for identified data on populations ☐ Dashboards and interactive reporting ☐ Public or private briefings on community/statewide COVID-19 status ☐ Secure email notifications ☐ Other. Please list: ☐ Don't know					
Lab Participation	in COVID-19 Relev	ant HIE			
15. Please report whether <b>each type of stakeholder is</b>	involved in your HII	E in the following	ı ways:		
Answer Options	Provide COVID- 19 Test Results	Provide Data Other Than COVID-19 Test Results	View or Receive Data	Not involved	
Hospital-based labs					
Independent labs (including commercial)					
Physician office-based labs					
Mobile labs (e.g., Point of Care Labs for COVID-19)					
Public health labs					

Other:

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	Real Time; Near Real Time	Within 24 hours	Greater than 24 hours but less than 48 hours	Greater than 48 hours	Don't Know	Not applicable
Hospital-based labs						
Independent labs (including commercial)						
Physician office-based labs						
Mobile labs (e.g., Point of Care Labs for COVID-19)						
Public health labs						
Other:						
Have not made request (set types of laboratories have rmation? (Select all that apply Hospital-based labs Independent labs (includi Physician office-based lated Mobile labs (e.g., Point of Public health labs	sought to limit y)  ng commercia os	ıl)		s, exchange, o	or use of el	ectronic health
ch of the following reasons hermation to your HIE? (Select Role of CLIA or other feet Fees associated with HIE Labs don't derive value at Concerns with HIE's abited Concerns with producing Exchanging data with HIE require patient consent Labs reporting obligation Public health agencies (Labs need consent from forms (e.g., for each part to do)	all that apply) deral regulation E participation as a data contity to do patient duplicate data Es is not constituting eme each individuticipating healt	ns in restrict ributor only nt matching a sidered relate urning resul rgency rules al provider, th care provi	ting them from se ed to treatment, p t to ordering prov s) do not mandate resulting in your l ider)	ending addition payment, or o rider e reporting to HIE having to	nal data perations a HIE execute m	and thus would
☐ Other. Please list: what degree have you been a						

	☐ Fully
21. Do	es 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)
	21a. 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
	21b. 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

lm	plementation and Use of Standards
	To what extent does your HIE electronically <b>receive</b> 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,

		Routinely/ from most participants	Sometimes/ From some participants	Rarely/ From few participants	Never	Don't know
Care summaries in a structu format (e.g., CDA, CCR, C3						
HL7 v2 messages (any type						
ADT messages (for applical participants)	ble					
HL7 Fast Healthcare Interoperability Resources ( messages (DSTU2)	FHIR)					
HL7 FHIR Release 3 (STU) messages						
FHIR v.4.0 messages						
☐ Don't know  To what extent is the inform the United States Core Date and constituent data elements.	a for Int	eroperability (US0	CDI)? USCDI is a	standardized set	of health d	
To what extent is the inform the United States Core Dat and constituent data eleme	ents for Intents for r	eroperability (US0	CDI)? USCDI is a	standardized set	of health d	
<ol> <li>To what extent is the inform the United States Core Dat</li> </ol>	Rogard Ro	eroperability (USC nationwide, interoperation outinely/ om most	CDI)? USCDI is a perable health info  Sometimes/ From some	standardized set ormation exchang Rarely/ From few	of health da e.	ata class  Don't
SCDI v1 tps://www.healthit.gov/isa/unitates-core-data-interoperability scdi SCDI v2 tps://www.healthit.gov/isa/unitates-core-data-interoperability	Reference of the second of the	eroperability (USC nationwide, interoperation outinely/ om most	CDI)? USCDI is a perable health info  Sometimes/ From some	standardized set ormation exchang Rarely/ From few	of health da e.	ata class  Don't
SCDI v1 tps://www.healthit.gov/isa/unitates-core-data-interoperability	Red-	eroperability (USC nationwide, interoperability (USC nationwide, interoperability (USC nationwide, interoperable)  Dutinely/ Dm most naticipants  U  U  tronically send or	CDI)? USCDI is a perable health info	Rarely/ From few participants  data to your participation  Rarely/ To few	of health dee.  Never	Don't know

HL7 v2 messages (any type)

<sup>\*\*</sup>Confidential, Do not Cite or Distribute\*\*

HL7 Fast Healthcare Interoperability Resources (FHIR) messages DSTU2			
HL7 FHIR Release 3 (STU)			
FHIR v.4.0			

4. 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)? (Select all that apply)

	Included in your HIE
Data Provenance	
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	
Clinical Notes	
Imaging/Pathology	
Diagnostic Imaging Order	
Radiology Report (narrative)	
Pathology Report (narrative)	
Laboratory-Related Information	
Laboratory Test(s)	
Laboratory Value(s)/Result(s)	
Laboratory report (narrative)	
Team-Based Care	T
Care Plan Field(s), including Goals and Instructions	
Care Team Member(s)	П
(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	· <del></del>
Home Address	
Race/Ethnicity	
Preferred Language	Ī
Health-related Social Needs (e.g., housing, food insecurity)	i i
Substance Use Disorder (as defined in 42 CFR Part 2)	
Substance Use District (as defined in 42 CFR Fait 2)	

Other Other (please list):		Savual Oria	ntation	_	
Other (please list):		Sexual Orie	manon [		
	-:		! a !		
5. To what extent does your HIE electron					
	Routinely/ To most	Sometimes/ To some	Rarely/ To few	Never	Don't know
	participants	participants	participants		Know
Care summaries in a structured format					
(e.g., CDA, CCR, C32)  Data in a format consistent with		_			
USCDI v1					
Data in a format consistent with					
USCDI v2					
☐ Don't Know					

Network-to-Network Connectivity and	TEFCA			
1. Does your HIE: (Select all that apply)				
Sell/provide your infrast	ructure to other HIEs			
Buy/use infrastructure fi		+		
Connect to other HIEs i				
Connect to other HIEs i	n DIFFERENT state(s)			
None of the above				
2. Is your HIE currently using the following	ng national networks to	exchange data?		
	Live Data			Other (place)
	Exchange (send or receive)	Implementing	Not Using	Other (please specify):
General Purpose Networks:	,			
CommonWell				
DirectTrust				
Strategic Health Information				
Exchange Collaborative				
(Civitas)/Patient Centered Data Home				
e-Health Exchange				
Carequality				
Specific Purpose Networks:				
Surescripts				
Patient Ping				
ŭ				
Audacious Inquiry: Pulse/ENS				
Collective Medical Technologies: EDIE				
Social Service Referral Platform(s)				
(e.g., Aunt Bertha, Unite Us)				
Other (please list):				
2a. If not using any general-purpose general purpose networks: (Selection Do not see the value in what to Perceive them as competitors Participation costs too high Not a priority Other. Please list:	ct all that apply) hey provide (i.e., service			g any of the
<ul> <li>Is your HIE planning to participate in definitions of the roles here: <a href="https://www.agreement-tefca">https://www.agreement-tefca</a></li> <li>Yes, as a QHIN</li> </ul>	_		-	
☐ Yes, as a Participant or as a S☐ No☐ Don't know	Sub-participant			
3a. If no: Why are you not planning o  Don't have enough informa  Don't have time/resources  Concerns about the terms  Concerns over privacy and  Concerns about the burder	ation to prepare of the Common Agreeme or security of the netwo	ent (please briefly desc rk	cribe):	e briefly describe):
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	<ul><li>☐ Do not perceive sufficient value in participating (please briefly describe why):</li><li>☐ Other (please list):</li></ul>						
3b. lt	3b. If don't know: Why are you unsure about participating in TEFCA? (Select all that apply)  Don't have enough information Don't have time/resources to prepare Concerns about the terms of the Common Agreement (please briefly describe): Concerns over privacy and/or security of the network Concerns about the burden associated with participation (e.g., financial, reporting) (please briefly describe						ly describe):
	<ul><li>☐ Do not perceive sufficient val</li><li>☐ Have not yet developed a str</li><li>☐ Other (please list):</li></ul>				ribe why):		
	yes: As exchange based on the T ur HIE planning to change its opera				mon Agreeme	ent becomes o	perational,
			Yes	No	Don't know	Not Applicable	
	Changing Types of services offe	ered					
	Selling/providing your services other HIEs	to					7
	Buying/using services from ano HIE	ther					
	Changing technical infrastructure						
	Changing legal agreements and policies	d/or					
	Changing other infrastructure (e creating new training, supportin making process redesigns (e.g. workflows))	g or					
	Partnering with HIEs in SAME region/state						7
	Partnering with HIEs in DIFFER regions/states	ENT					
	Partnering with an entity that is HIE (e.g., Health IT Developer)	not an					
	Other (please list):						
	which of the following exchange pure REQUEST for information?	poses (\	which are inclu	uded in TEFCA),	are your parti	cipants curren	tly able to
			Yes	No	Don	't Know	
Tre	atment (as defined by HIPAA)						
Pay	ment (as defined by HIPAA)						
	alth Care Operations (as defined HIPAA)						
Indi	vidual Access						
Gov	olic Health vernment Benefits Determination defined by TEFCA)						

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4b. For which of the following exchange purposes (which are included in TEFCA), are your participants currently able to
RESPOND WITH ADEQUATE DATA to a Request for information?

	Yes	No	Don't Know
Treatment (as defined by HIPAA)			
Payment (as defined by HIPAA)			
Health Care Operations (as defined by HIPAA)			
Individual Access Services			
Public Health			
Government Benefits Determination (as defined by TEFCA)			

Into	ormation Biocking				
que	rmation blocking practices have been defined in rules that went into effect stions ask about practices that may constitute information blocking based based on your experience since the rules went into effect (April 5, 2)	d on your			
1.	To what extent are you familiar with the information blocking rules, applic timeline?  Very Familiar  Moderately Familiar  Somewhat Familiar  Not Familiar	cable acto	ors, exceptions	s, and enforc	ement
2.	How often have you encountered <b>each of the following form(s)</b> of infor Developer(s) of Certified Health IT)?	mation bl	ocking by <b>EH</b>	R vendors (a	and other
		Rarely /Never	Sometimes	Often/ Routinely	Don't 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				
	vendors) OTHER (please list):				
3.	What proportion of <b>EHR Vendors</b> have you encountered engaging in inf  All/Most  Some Few None (skip to 6) Don't know or N/A (Don't interact with developers) (skip to 6)	ormation	blocking?		
**	3a. Among EHR Vendors that engage in information blocking, how ofter Routinely Sometimes Rarely Don't know	n do they	do it?		
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4.	When you have experienced practices that you believed constituted year, how often did you report the information blocking to ONC/HHS		ion blocking b	y EHR vend	ors in th	e past
	☐ Always ☐ Most of the time ☐ Sometimes ☐ Rarely ☐ Never					
5.	To what extent does information blocking by <b>EHR vendors</b> make it your participants?  Greatly  Moderately  Minimally/Not at all  Don't know	more diff	icult for you to	provide HIE	services	s to
6. [	In what form(s) have you experienced information blocking by hosp	itals and	health syste	ms? Often/	Don't	1
		/Never		Routinely	Know	
	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					-
	Examples:					
	refusing to exchange information with competing providers, hospitals, or health systems					
	refusing to share data with other stakeholders, 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  OTHER (please list):					_
L	OTHER (please list).					J
7.	What proportion of hospitals and health systems have you encound All/Most Some Few None (skip to 9) Don't know or N/A (Don't interact with developers) (skip to 9)		ngaging in info	rmation bloc	king?	
	7a. Among hospitals and health systems that engage in informat Routinely Sometimes Rarely Don't know	ion blocki	ng, how often	do they do it	?	
8.	To what extent does information blocking by <b>hospitals and health</b> information?  Greatly  Moderately	systems	lead to missir	ng patient he	alth	
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Among other types of stakeholders, to what extent ha	R	arely/ lever	Some		Of	iten/	Don't	
Commonsial Boyers	IN.	ever		7	Rou	tinely	Kno	
Commercial Payers Commercial Laboratories		<u> </u>	<u> </u>	<u>]</u> 1		<u> </u>	누님	
Commercial Pharmacies				<u>]</u> ]			⊢片	
National Networks (e.g. CommonWell, eHealth Ex	vchango)	H	<del>                                     </del>	<u>J</u> 1		=	$\vdash \vdash \vdash$	
State, regional, and/or local health information e	vchange	<u>H</u>	<u> </u>	<u>J</u> 1			$\vdash$	
Other (please list):	Actiange	Ħ		<u></u>			$\vdash \vdash$	
Other (piedde list).				J				
☐ Minimally/Not at all ☐ Don't know or N/A								

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:
**Confidential, Do not Cite or Distribute**