## 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, the 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.

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

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).

Sergening Questions
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).

Org	ganizational Demographic	s		
1.	= '	do so	planning to merge with a	nother HIE?
2.	Which of the following gen-	eral categories apply to v	our organization: (Select	t all that apply)
	Multi-state HIE Single, statewide H Community or loca	HE.		
	Enterprise HIE (i.e.	, state-designated HIE . primarily facilitate excha Service Provider (HISP)	nge between strategical	ly aligned organizations)
3.	What is your legal organiza	ational structure?		
4.	participants in your HIE? T	fit 501c3 t pecify): e(s) do you consider the p This should * <b>not*</b> include s me or eHealth Exchange,	state(s) that you connect	ou currently have, or are recruiting new, t to via regional/national networks, such as provide technology for other HIEs that are
	Alahama	Alaska	American Samos	Arizono
	Alabama Arkansas	Alaska California	American Samoa	Arizona Connecticut
	Delaware	Distr. of Columbia	Colorado Florida	Georgia
			Idaho	
	Guam	Hawaii		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		Virginia
	Washington	West Virginia	Wisconsin	Wyoming
5.	*For the state(s) selected in have, or are recruiting new			ervice area(s) <sup>†</sup> in which you currently
	† Hospital Service Areas at [Populate list of HSAs for e			as. eck 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 Both (Hybrid) Other (please specify) 7. Which of the following do you currently have as core infrastructure or offer as services to your participants (either directly or via a third party)? (Select all that apply) **GENERAL SERVICES Provider Directory** Patient Consent Management Community Medical/Health Record: Aggregation of information from across the community served by the HIE Patient Electronic Access to their Health Information (e.g., immunization history, lab results) Record Locator Service Query-based Exchange Results delivery (i.e., uni-directional push) Alerting/event notification (e.g., Admit-Discharge-Transfer) Messaging using the Direct Protocol Transform other document types or repositories into CCDAs (e.g., MDS, OASIS, Community Health Record) Data normalization Intake, assessment, and screening tools Exchange of data on individual patients' health related social needs (often referred to as social determinants of health) such as transportation, housing, food insecurity or other Connection to prescription drug monitoring program (PDMP) (send or receive) Connection to Immunization Information System(s) (IIS) (send or receive) Prescription 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): Services related to VALUE-BASED PAYMENT MODELS Activities related to quality measurement (e.g., generating,

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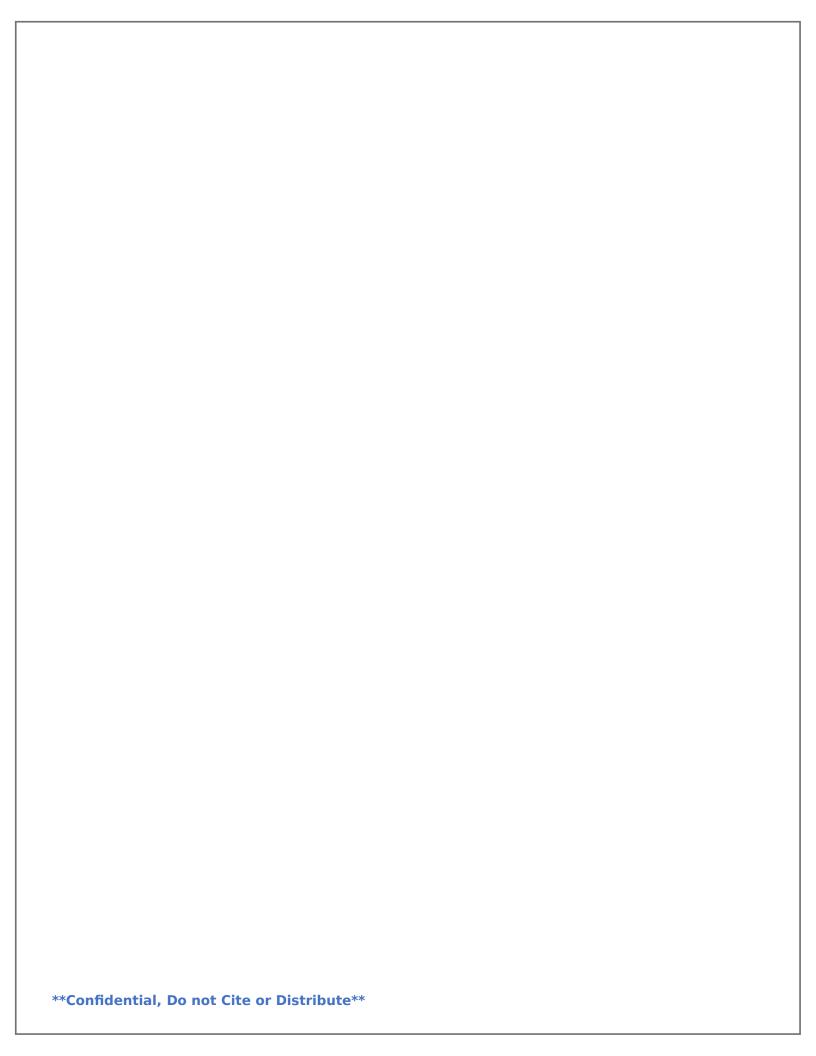
validating, reporting, etc.)			
Closed-loop referrals tracking			
Connection to social service referral platform(s) (e.g., Find Unite Us, homegrown)	Help		
Identification of gaps in care			
Care coordination platform			
Registry services, including operating as a clinical data requalified clinical data registry (QCDR) <sup>1</sup>	gistry or		
Providing data to allow analysis by networks/providers			
Analytics (e.g., risk stratification, patient to provider attribu	tion)		
Other (please list):			
Does your HIE use patient data in any of the following ways re Provide data to third parties (e.g., companies, researchers Develop your own AI models to commercialize	) to be used f	or developing Al	, ,
Develop your own AI models and deploy for participants (in Deploy AI models developed by third parties on behalf of potential Developed By third parties on behalf of potential Developed By third parties on behalf of potential Developed By What types of models	articipants (ir	ndividually or coll	
Deploy Al models developed by third parties on behalf of p	articipants (ir	ndividually or coll	leployed:
Deploy AI models developed by third parties on behalf of potential Other. Please specify:  If yes to options 2, 3, or 4 in question 8: What types of models	articipants (ir	ndividually or coll	
Deploy AI models developed by third parties on behalf of potential Other. Please specify:  If yes to options 2, 3, or 4 in question 8: What types of models  1. Non-Machine Learning Predictive Models (e.g., LACE+Readmission model based on logistic regression)	articipants (ir	ndividually or coll	leployed:
Deploy AI models developed by third parties on behalf of potential Deploy AI models developed by third parties on behalf of potential Deploy AI models specify:  If yes to options 2, 3, or 4 in question 8: What types of models  1. Non-Machine Learning Predictive Models (e.g., LACE+Readmission model based on logistic regression)  2. Machine Learning Models (e.g. Readmission model	articipants (ir	ndividually or coll	leployed:
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Deploy Al models developed by third parties on behalf of potential Other. Please specify:  If yes to options 2, 3, or 4 in question 8: What types of models  1. Non-Machine Learning Predictive Models (e.g., LACE+Readmission model based on logistic regression)  2. Machine Learning Models (e.g. Readmission model leveraging random forest or neural network)  3. Generative Al Models/Large Language Models (e.g., to create text summaries)	articipants (in have you de	veloped and/or d	Don't know
Deploy AI models developed by third parties on behalf of potential Deploy AI models developed by third parties on behalf of potential Deploy AI models specify:  If yes to options 2, 3, or 4 in question 8: What types of models  1. Non-Machine Learning Predictive Models (e.g., LACE+Readmission model based on logistic regression)  2. Machine Learning Models (e.g. Readmission model leveraging random forest or neural network)  3. Generative AI Models/Large Language Models (e.g., to	articipants (in have you de Yes	No  No  nce models? Ple	Don't know
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Deploy Al models developed by third parties on behalf of potential Deploy Al models developed by third parties on behalf of potential Deploy Al models developed by third parties on behalf of potential Deploy Al models specification and the predictive Models (e.g., LACE+Readmission model based on logistic regression)  2. Machine Learning Models (e.g., Readmission model leveraging random forest or neural network)  3. Generative Al Models/Large Language Models (e.g., to create text summaries)  9a. If yes to any of the above in 9: How has your HIE used article Predict health trajectories or risks for inpatients (such as expressive); predicting in-hospital fall risk)  Identify high risk outpatients to inform follow-up care (e.g., Monitor health (e.g., through integration with wearables)	readmission	No  No  nce models? Ple of onset of a district.	Don't know  Don't know  asse check all the sease or condition
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Deploy AI models developed by third parties on behalf of potential Collection of the Collection of the Collection of the Collection of the Collection of quality gaps  Other. Please specify:  If yes to options 2, 3, or 4 in question 8: What types of models are considered as the Collection of quality gaps  Other operational models developed by third parties on behalf of parties on behalf of parties of models.  In Non-Machine Learning Predictive Models (e.g., LACE+Readmission models)  In Non-Machine Learning Predictive Models (e.g., LACE+Readmission models)  In Non-Machine Learning Predictive Models (e.g., LACE+Readmission models)  In Non-Machine Learning Predictive Models (e.g., tace+Readmission models)  In Non-Machine Learning Predictive Models (e.g., LACE+Readmission models)  In Non-Machine Learning Predictive Models (e.g., LACE+Readmission)  In Non-Machine Learning Models (e.g., Readmission models)  In Non-	readmission milar patients	No  No  nce models? Ple of onset of a district.	Don't know  Don't know  asse check all the sease or condition
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<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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	9b. If yes to any of the above in 9: Were any state policies (e.g., legislation, regulations) or organizational policies (e.g., participant agreements) created and/or adjusted to allow development or use of artificial intelligence models?
	9c. If yes to any of the above in 9: What was the motivation for building capabilities related to artificial intelligence models?
	9d. If yes to any of the above in 9: What types of participants are asking for/interested in artificial intelligence 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 models – assessing models for bias, assessing model drift over time, etc?
10.	Do entities participating in your HIE <u>cover</u> 100% of your operating expenses?
	Yes
	No
11.	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.	Please estimate to the best of your knowledge what percent of your revenue comes from each of the following sources:
	State grants (including Medicaid): Federal grants:
	Other grants: Revenue from participants:
	Other. Please specify:
13.	Has your state Medicaid organization ever provided funding to support your HIE?
	Yes – initial, one-time funding only
	Yes – ongoing funding only  Yes – both initial and ongoing funding
	In the process of obtaining approval for funding
	No No
	Other: Please explain:
14.	Does your HIE formally partner with your state Medicaid organization to provide data for quality reporting?
	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
	No
	Other: Please explain:
15.	If you have a Master Patient Index (MPI), 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 only demographic data:  Do not know								
16	16. Within the past year, please estimate <b>the number of acute care hospitals</b> (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 er	ntity is	involved in you	r HIE in	the follo	wing v	vays:	
	Answer Options	Provide Data to your HIE	foi	ceive/Query r Data from your HIE	Vie Onl Acce to Da froi your I via po logi	y ess ata n HIE, ortal	En	tity 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					]			
						View C	Only		
A	nswer Options	Provide Te Results to y HIE		Receive/Qu Data from you		Access Data fr your F	rom	Entity Not Involved in your HIE	
	Hospital-based labs								
	Physician office-based labs								
	Commercial Labs								
	Other Independent labs (NOT including commercial)								
0	Mobile labs (e.g., Point f Care Labs for COVID- 19)								
	Public health labs								
	Other:								
**	Confidential, Do no	t Cite or Di	strib	ute**					



## **HIE Support for Public Health**

means th	nat the public her HIE.) Select a Yes, state Yes, local Yes, tribal Yes, territory None of the a	/ above (skip to Section	to your F	HIE, receives					
	_	of Current Connecti many PHAs engage w	-		lowing manne	er:			
		Total number of unique PHAs connected with your HIE in any way	that <u>se</u>	er of PHAs end data to ur HIE	Number of that <u>recei</u> <u>query for</u> <u>from you</u>	ve or data	with	ber of PHAs n view only access	
St	ate-level								
Lo	ocal-level								
Tri	ibal-level								
Terr	itorial-level								
Plea	ase do not inclu	ons to registries or fed de them here. ow many registries en		·				ssed later in th	is survey.
		Total number connected with yo HIE in any way		Number of that <u>send da</u> HI	ata to your	that <u>re</u>	ceive c	registries or query for your HIE	
	Types of egistries								
_	ries Affiliated th a PHA								
	tribal PHAs: Ple Iap which can b	ease break down the n be found <u>here</u> ):	umber of	Total Num	ctions by regional ber of Uniques ted with y	e Tribal		y the Tribal Ep	idemiology
		Northwest							
		California							
		Rocky Mountain							

	Inter-Tribal Cour	ncil of Arizona, Inc.			
	Na	avajo			
	Albuquerque .	Area Southwest			
	Grea	t Plains			
	Oklaho	oma Area			
	Grea	t Lakes			
	United South a	nd Eastern Tribes			
	Ala	aska			
		: What states/territories	are the PHA entities conn	nected to your H	IO located in? Select all
that appl	y. Alabama	Alaska	American Samoa	Arizona	
	Arkansas	California	Colorado	Connecticu	ıt
	Delaware	Distr. of Columbia	<del>_</del>	Georgia	•
L		=			
Ĺ	Guam	Hawaii	Idaho	Illinois	
	Indiana	lowa	Kansas	Kentucky	
	Louisiana	Maine	Maryland	Massachus	setts
	Michigan	Minnesota	Mississippi	Missouri	
L					
	Montana	Nebraska	Nevada	New Hamp	
	New Jersey	New Mexico	New York	North Caro	lina
	North Dakota	N. Mariana Islands	S Ohio	Oklahoma	
	Oregon	Pennsylvania	Puerto Rico	Rhode Isla	nd
					iiu
L	South Carolina	South Dakota	Tennessee	Texas	
	Utah	US Virgin	Islands Vermont		ginia
<u></u>	Washington	West Virginia	Wisconsin	Wyoming	
If they se state/terr		: Please breakdown the	e number of state, local, ar	nd/or territorial P	PHA connections by
_					
	Please fill in with sta	ates selected above	Total Number of Unique connected with your Hill way		

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3. What is the purpose of PHA control To identify opportunities  To make public health date of the Other (Please list):	to enrich public	health data with	HIE data		
SECTION B: Reporting Service	es Provided to I	PHΔs			
22 113 14 Bi Reporting Service		11113			
4a. Which of the following re Select all that apply with					are providers or PH
				01110001	
	In production	In testing	In planning	Not available	Don't know
Syndromic surveillance					
reporting					
Immunization registry					
reporting					
Electronic case reporting					
Electronic reportable					
aboratory result reporting  Public health registry					
reporting (administered by or					
or public health agencies for					
public health purposes)					
Clinical data and/or					
specialized registry reporting					
administered by or for non-					
oublic health agency entities					
or clinical care and monitoring health care quality					
and resource use)					
Other reporting (e.g., COVID					
specific, other registry)					
/ital Record System reporting					
4b. If in production for puproduction?  4c. Have you encountered	ed PHAs that are	e NOT willing or	able to receive	the following	g types of reporting?
Supplies as a supplied to a second	Yes, Many	Yes, So	ome Fe	w/None	Don't know
Syndromic surveillance reporting					
mmunization registry					
eporting					
Electronic case reporting					
Electronic reportable					
aboratory result reporting					
Public health registry					
eporting (administered by or					
or public health agencies for					
oublic health purposes) Clinical data and/or					
specialized registry reporting					
administered by or for non-					
oublic health agency entities					

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d resource use) her reporting (e.g., COVID ecific, other registry)	or clinical care and					
her reporting (e.g., COVID ecific, other registry)  all Record System reporting  For each type of reporting that is in production, are any of the following provider types currently using these service (i.e., at least one organization providing data for reporting)? (Select all that apply)  For each type of reporting that is in production, are any of the following provider types currently using these service (i.e., at least one organization providing data for reporting)? (Select all that apply)  For each type of reporting the service (i.e., at least one organization providing data for reporting physicians  Syndromic surveillance reporting physicians  Syndromic surveillance reporting limmunization registry reporting electronic case proporting electronic reportable laboratory result reporting electronic registry reporting and/or specialized registry reporting electronic registry electronic r	nonitoring health care quality					
For each type of reporting that is in production, are any of the following provider types currently using these service (i.e., at least one organization providing data for reporting)? (Select all that apply)						
For each type of reporting that is in production, are any of the following provider types currently using these service (i.e., at least one organization providing data for reporting)? (Select all that apply)    Syndromic						
(i.e., at least one organization providing data for reporting)? (Select all that apply)	ital Record System reporting					
Syndromic surveillance reporting Immunization registry reporting Electronic case reporting Electronic reportable laboratory result reporting Public health registry reporting Clinical data registry reporting Reportability Responses (i.e., whether a condition is reportable in a jurisdiction) Laboratory orders and/or results from public health lab Data from public health registry (administered by or for public health purposes) Data from clinical data and/or specialized registry (administered by or for non-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 None—do not receive data from public health entities CTION D: Other Services, Barriers and Support for Public Health Exchange What other services does your HIE provide to PHA(s)?: (Select all that apply)						ng these services
Syndromic surveillance reporting		Hospitals			Urgent Care	Other
surveillance reporting	Syndromic		pilysicialis	Settings		
Immunization registry reporting Electronic case reporting Electronic case						
Electronic case						
Teporting						
Electronic reportable laboratory result reporting Public health registry reporting Clinical data registry reporting and/or specialized registry reporting (e.g., registry)  CTION C: Receiving Data from PHAs  e: Please respond to the remaining questions for all PHAs, not only the primary  hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization Reportability Responses (i.e., whether a condition is reportable in a jurisdiction) Laboratory orders and/or results from public health lab 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 None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	Electronic case					
laboratory result reporting Public health registry 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 PHAs e: Please respond to the remaining questions for all PHAs, not only the primary hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply) Immunization Reportability Responses (i.e., whether a condition is reportable in a jurisdiction) Laboratory orders and/or results from public health lab 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 None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)						
Public health registry reporting Clinical data registry reporting and/or specialized registry reporting and/or specialized registry reporting (e.g., registry)  Other COVID-19 related reporting (e.g., registry)  Vital Record System ceporting (e.g., registry)  Vital Record System ceporting (e.g., registry)  Inich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization Reportability Responses (i.e., whether a condition is reportable in a jurisdiction)  Laboratory orders and/or results from public health lab  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  None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	laboratory result					
Clinical data registry reporting and/or specialized registry reporting and/or specialized registry reporting Other COVID-19 related reporting (e.g., registry) Vital Record System						
reporting and/or specialized registry reporting  Other COVID-19 related reporting (e.g., registry)  Vital Record System						
Other COVID-19 related reporting (e.g., registry)  Vital Record System reporting  CTION C: Receiving Data from PHAs  e: Please respond to the remaining questions for all PHAs, not only the primary  hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization  Reportability Responses (i.e., whether a condition is reportable in a jurisdiction)  Laboratory orders and/or results from public health lab  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  None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	reporting and/or specialized registry					
Vital Record System reporting  CTION C: Receiving Data from PHAs e: Please respond to the remaining questions for all PHAs, not only the primary hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization  Reportability Responses (i.e., whether a condition is reportable in a jurisdiction)  Laboratory orders and/or results from public health lab  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  None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	Other COVID-19 related reporting (e.g.,					
CTION C: Receiving Data from PHAs e: Please respond to the remaining questions for all PHAs, not only the primary hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization Reportability Responses (i.e., whether a condition is reportable in a jurisdiction) Laboratory orders and/or results from public health lab 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 None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)						
e: Please respond to the remaining questions for all PHAs, not only the primary  hich of the following types of data do you receive from PHAs with which you have established connectivity? (Select that apply)  Immunization  Reportability Responses (i.e., whether a condition is reportable in a jurisdiction)  Laboratory orders and/or results from public health lab  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  None—do not receive data from public health entities  CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	reporting					
CTION D: Other Services, Barriers and Support for Public Health Exchange  What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)	e: Please respond to the rer  hich of the following types of that apply)  Immunization  Reportability Response  Laboratory orders and/off  Data from public health  Data from clinical data a clinical care and monitoring  Data related to COVID-  Vital records  Other. Please list:	maining question  f data do you rec  s (i.e., whether a  or results from puregistry (administrated)  and/or specialize  health care qua	ceive from PHAs we condition is report ublic health lab stered by or for public registry (adminis	ith which you have able in a jurisdict olic health agencing tered by or for no	ion) es for public health	purposes)
What other services does your HIE provide to PHA(s)?: (Select all that apply)  Analytic and Data Quality Support (beyond those reported above)		·		lealth Exchange	<b>:</b>	
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 source(s) to support PHA connectivity? (Select al	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 public health reporting": Based upon your best estimate, to what extent do you think these 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 following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the last year to PHA configuration of the following barriers within the l	nectivity?  ot at All  N/A
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	
PHAs have other priorities	
Low return on investment to your HIE  Cost to maintain infrastructure that is only	

Does or could information)?  Yes  No but  Don't k  11a. If Yes	or No but could do so: Please indicate what types of data		issing demographic
information)?  Yes  No but  Don't k  11a. If Yes	could do so could not do so now or No but could do so: Please indicate what types of data		issing demographic
No but No and Don't k	could not do so now or No but could do so: Please indicate what types of data		
No and Don't k	could not do so now or No but could do so: Please indicate what types of data	ono on sected b	
Don't k	now  or No but could do so: Please indicate what types of data	000 00 00 11 1	
11a. If Yes	or No but could do so: Please indicate what types of data	الديدة مو مع	
11a. If Yes	or No but could do so: Please indicate what types of data		
	gaps in information. (Select all that apply)	a are or could be	provided to PHAs fill data-
		Currently	Not currently
-	Clinical Information	provided	provided but could b
-	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		
<u> </u>			
	Race/Ethnicity		
	Preferred Language		
	Preferred Language Health-related Social Needs (e.g., housing, food		
	Preferred Language		
	Preferred Language Health-related Social Needs (e.g., housing, food insecurity) Substance Use Disorder Diagnosis (as defined in 42		
	Preferred Language  Health-related Social Needs (e.g., housing, food insecurity)  Substance Use Disorder Diagnosis (as defined in 42 CFR Part 2)		
<u> </u>	Preferred Language  Health-related Social Needs (e.g., housing, food insecurity)  Substance Use Disorder Diagnosis (as defined in 42 CFR Part 2)  Gender Identity		

☐ 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 <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.
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

<ol> <li>To what extent does your F below? (Select one option a Please consider the methods umay do after receipt. With regal please consider that as conform</li> </ol>	across a sed by pa rds to coa	row) articipant to provi	ide the data to your	HIE. Do not inclu	ude convers	sions you
		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., Scheo Orders, Labs)	duling,					
FHIR (any version)						
Care summaries in a structured format (e.g., CDA)			participants	participants		
HL7 v2 messages (any type)						
FUID (						
FHIR (any version)						
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured	ealth-related int data element)? S	formation are made See <u>U.S. Core Data</u>	for Interoperabili	ur HIE (as p ty (USCDI) d in your	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply)	data element)? \$	See <u>U.S. Core Data</u> Data Prove	Include nance	ty (USCDI)	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply) e Informa	data element)? \$ tion (e.g., covera	See <u>U.S. Core Data</u>	Included Hanance Extype,	ty (USCDI)	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply) e Informa	data element)? \$ tion (e.g., covera	Data Prove age status, coverage er/group/payer iden	Include H nance type, tifiers)	ty (USCDI)	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply) e Informa	data element)? \$ tion (e.g., covera	Data Prove age status, coverage er/group/payer iden	Include nance e type, tifiers) blems	ty (USCDI)	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply) e Informa	data element)? \$ tion (e.g., covera	Data Prove age status, coverage er/group/payer iden  Pro Prescribed Medic	Include  nance e type, tifiers)  blems ations ations	ty (USCDI)	part of a for furthe
3. Which types of <b>clinical and</b> clinical document or as a st information. (Select all that	tructured t apply) e Informa	tion (e.g., covera	Data Prove age status, coverage er/group/payer iden  Pro Prescribed Medic	Included He hance type, tifiers)  blems ations ations ergies	ty (USCDI)	part of a for furthe

Cognitive Status
Vital Signs

Pregnancy Status
Immunizations

Family Health History
Health Concerns

			$\overline{}$	
	Clinical Notes			
<u> In</u>	naging/Pathology	1	$\Box$	
	Diagnostic Imaging Order  Radiology Report (narrative)		$\vdash$	
			$\vdash$	
<u> </u>	Pathology Report (narrative) aboratory-Related Information			
<u> </u>	Laboratory Test(s) Ordered			
	Laboratory Value(s)/Result(s)		$\vdash$	
	Laboratory Reports (narrative)		$\vdash$	
	eam-Based Care			
1				
	Care Plan Field(s), including Goals and Preferences			
	Care Team Member(s) (Provider ID, Provider Name)			
	Assessment and Plan of Treatment		$\overline{\Box}$	
F	ncounter-Related Information			
_	Procedures			
	Admission and Discharge Dates and Locations			
	Encounters (Encounter type, diagnosis, time)			
	Discharge Disposition		$\vdash$	
	Referrals			
	Discharge Instructions			
	Reason for Hospitalization			
Н	ealth Equity			
	Home Address			
	Race/Ethnicity		$\Box$	
	Preferred Language		$\blacksquare$	
	Health-related Social Needs (e.g., housing, food insecurity)			
	Substance Use Disorder (as defined in 42 CFR Part 2)			
	Gender Identity			
	Sexual Orientation			
0	ther			
	ther (please list):			
domair	ed "Health-related Social Needs" in question 3: Which of the following does your organization make available to participants? (Select all Housing / Homelessness Food Security			ated soci
	Transportation			
_	Financial			
	Utility Assistance			
=	Interpersonal Violence			
	Employment			
	Long Term Services and Supports			
=	Health Education			
	Other. Please specify:			
(Select	ed "Health related Social Needs" in question 3: How are <u>health-relat</u> ; all that apply) ICD-10 Z codes LOINC	ted socia	<u>al ne</u>	<u>eds</u> data
	SNOMED			
idential	Do not Cite or Distribute**			
/				

Health-related social Encoded using other.	Please specify:				
4. Do you receive care summary do Yes No Don't know	cuments from your p	articipants?			
4a. If Yes: To what extent does yo unstructured format from your		y <u>receive</u> care su	mmaries in struc	ctured versu	s
	Routinely/ most participants	Sometimes/ some participants	Rarely/ few participants	Never	Don't know
Care summaries in a structured format (e.g., CDA)					
Care summaries in an unstructured format (e.g., PDF)					
(i.e., extract and make availal  Yes  No  Don't know  5. Does your HIE map from non-star  Yes  No (Skip to next section)  Don't know (Skip to next section)  5a. Within the past year, based usextent did your HIE have to a	ndard laboratory test on) ipon the volume of te	t/result codes to Lo	d (qualitative and		, to what
Some Few None Don't know					
5b. Have you experienced any of  We do not have sufficie  We find LOINC and LOI  We do not have the res  Other issue. Please spe  No, we have not experie  Don't know	nt expertise to map to the state of the stat	to LOINC within ou t to use me) to map to and	ur organization	·	

Network-to-	Network Connectivity and T	EFCA			
1. Does yo	ur HIE: (Select all that apply)				
	Sell/provide your infrastr	ucture to other HIEs			
	Buy/use infrastructure from				
	Connect to other HIEs in				
	Connect to other HIEs in		1		
	None of the above	a Dil i Elleri State(5)	, <u> </u>		
	None of the above				
2. Is your F	HIE currently using the following the follow	ig national networks / fr	ameworks to exchange	e data? Note: TE	FCA questions
		Live Data Exchange (send or receive)	Implementing	Not Using	Other (please specify):
General	Purpose Networks:	,			
Common	Well				
DirectTru	st				
	Centered Data Home ance Council supported by				
e-Health	Exchange				
Carequal	ity				
	Purpose Networks:				
Surescrip					
Patient P	ing				
Audaciou	ıs Inquiry: Pulse/ENS				
	ck Care: EDie				
National	Public Health Networks:				
Laborator	on of Public Health ries Informatics Messaging (APHL AIMS)				
IZ Gatew					
	ease list):				
Other (pic	oudo noty.				
	t using any general-purpose n eral purpose networks: (Selec		on: Please select reaso	n(s) for not using	any of the
F F	Do not see the value in what the Perceive them as competitors Participation costs too high	ney provide (i.e., servic	es not useful or data lir	nited)	
	Not a priority				
	Other. Please list:				
3. Is your F	HIE participating in the Trusted	l Exchange Framework	and Common Agreem	nent (TEFCA)?	
	Yes				
	No, but we plan to participate	as a QHIN			
	No, but we plan to participate	<del>-</del>	narticinant		
	No, and we do not plan to part		ραιτισιρατιτ		
=	·	·			
	No, and we don't know if we w	•			
TTConπαe	ential, Do not Cite or Dis	tribute			

3a. If a	Didn't/Don't have	enough informatior time/resources to p	n prepare	-			•	nat apply)
	Had/Have concerr Risk of inapp Concerns about th (please briefly des Did/Do not percei Lessens com Did/Do not suppo within a QHIN. Were/Are waiting requirements relat Had/Have concer	ve sufficient value in petitive advantage of the technical requito see if and how reced to FHIR based to about the volumed developed a strategory.	for security of todata ed with participating uirements, inclused in participating equirements for tansactions) (pee of queries were todated.)	the netwation (e. (please uding state rexchare lease breewould)	ork g., finar briefly c undards nge and iefly de	ncial, reporting, lescribe why): , required to pa participation c scribe):	technical/infra articipate in TEI hange (e.g.,	·
	Other (please list)  Yes or No, but we plan (s) are you participating	to participate as a					QHIN(s) or Ca	ndidate
		Epic Nexus						
		eHealth Exchang	e					
		Health Gorilla						
		KONZA						
		MedAllies						
		CommonWell He	alth Alliance					
		Kno2						
		Other (please list)	):					
		Don't Know						
	Yes or No, but we plan or is your HIE plannin						anges has youi	HIE
			Yes	N	0	Don't know	Not Applicable	
	Changing types of se	ervices offered						
	Selling/providing you other HIEs	r services to						
	Buying/using service HIE	s from another						
	Changing technical in	ofrastructure						

	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):					
3d. lf '	Yes, how would you rate the benefit of par Substantial Moderate Minimal/Not at all (please explain): Don't know	ticipating in TE	EFCA to your HI	E and members	S:	
3e. If ' QHIN'	Yes or No, but we plan to participate as a ?	participant or s	sub-participant,	how satisfied ar	re you with you	r HIE's
	Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied (please explain): Very dissatisfied (please explain): N/A (e.g., we are the QHIN)					
	ny response to Q3, how satisfied are you ied by your HIE or your HIE's QHIN?	with the TEFC	A Recognized (	Coordinating 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, re	eported issues t	o the RCE.		
3g. <mark>lf</mark>	Yes, what proportion of your members par All/Most Some Few (Please explain): None (please explain): Don't know	ticipate in TEF	CA through you	ır HIE?		

Info	ormation Blocking				
que resp 1.	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). To what extent are you familiar with the information blocking rules, application timeline?  Very Familiar  Moderately Familiar  Somewhat Familiar  Not Familiar  Very Familiar  Moderately Familiar  Somewhat Familiar  Moderately Familiar  Somewhat Familiar  Not Familiar  Not Familiar  Not Familiar  Not Familiar	d on your 021). cable acto	understanding ors, exceptions	of the rules	. Please ement
2.	How often have you encountered <b>each of the following form(s)</b> of infor	mation bl	ocking by <b>EHF</b>	R vendors (a	and othe
	Developer(s) of Certified Health IT)?	Rarely	Sometimes	Often/	Don't
	PRICE	/Never		Routinely	Know
	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)				

				1	
	OTHER (please list):				
•	What proportion of <b>EHR vendors</b> have you encountered engaging  All/Most  Some Few  None (skip to 6) Don't know or N/A (Don't interact with developers) (skip to 6)		ation blocking	?	
	3a. Among <b>EHR Vendors</b> that engage in information blocking, how Routinely Sometimes Rarely Don't know	often do	they do it?		
	When you have experienced practices that you believed constituted year, how often did you report the information blocking to ASTP/ON		tion blocking t	y EHR vend	ors in the
	Always  Most of the time Sometimes Rarely Never				
	4a. If Rarely or Never: Why have you not reported information block it?	king by <b>E</b>	HR vendors	when you hav	e experie
	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	ficult for you to	provide HIE	services
	In what form(s) have you experienced information blocking by hosp	nitals and			
		pitais air	d health syste	ems?	
		Rarely	d health systems Sometimes	Often/	Don't
	ARTIFICIAL TECHNICAL, PROCESS, OR RESOURCE BARRIERS				Don't Know
	BARRIERS  Examples: requiring a written authorization when neither state nor federal law requires it	Rarely		Often/	
	BARRIERS  Examples: requiring a written authorization when neither state nor federal law	Rarely		Often/	
	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	Rarely		Often/	
	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	Rarely		Often/	
	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 entities, such as payers or independent	Rarely		Often/	
	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	Rarely		Often/	
	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 entities, such as payers or independent labs  CLOSED NETWORK EXCHANGE	Rarely		Often/	
	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 entities, such as payers or independent labs  CLOSED NETWORK EXCHANGE  Examples:	Rarely		Often/	
	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 entities, such as payers or independent labs  CLOSED NETWORK EXCHANGE	Rarely		Often/	

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	What proportion of hospitals and health systems have you en All/Most Some Few None (skip to 10) Don't know or N/A (skip to 10)	coun	terec	enga	ging in	nform	ation	bloc	king	?
	7a. Among hospitals and health systems that engage in inform Routinely Sometimes Rarely Don't know	matic	n blo	cking,	how of	en do	they	do it	?	
8.	When you have experienced practices that you believed constitue systems in the past year, how often did you report the information							itals	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?	on bl	ockin	g by <b>h</b>	ospital	s and	heal	lth sy	/ste	<b>ms</b> when
9.	To what extent does information blocking by <b>hospitals and hea</b> information?  Greatly	lth s	yste	<b>ns</b> lea	ıd to mi	ssing	oatie	nt he	alth	
10	Moderately Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed	1 info	rmati	on blo	ckina h	ehavid	nrs2			
10.	Minimally/Not at all	Ra	rmati rely/ ever		cking b netime	8	Ofte			on't
10.	Minimally/Not at all Don't know	Ra	rely/			8				on't now
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed	Ra	rely/			8	Ofte			
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed  Commercial Payers	Ra	rely/			8	Ofte			
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed  Commercial Payers  Laboratories  Commercial Pharmacies  Public Health Agencies Healthcare Providers other than Hospitals and Health Systems (e.g., independent practices)	Ra	rely/			8	Ofte			
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed  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)	Ra	rely/			8	Ofte			
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed  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	Ra	rely/			8	Ofte			
10.	Minimally/Not at all Don't know  Among other types of entities, to what extent have you observed  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	Ra	rely/			8	Ofte			

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