

## **National Survey of Health Information Exchange Organizations**

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## 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 from the perspective of your organization. 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 Lisa Bari (lbari@civitasforhealth.org or 415-680-6921)

## Screening Questions

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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)

- 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 **at least one** entity is independent of the other(s).

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## Organizational Demographics

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1. Which of the following general categories apply to your organization: (Select all that apply)

- Multi-state HIE
- Single, statewide HIE
- Community or local HIE
  
- Governmental, state-designated HIE
- Non-governmental, state-designated HIE
- Enterprise HIE (i.e. primarily facilitate exchange between strategically aligned organizations)
  
- Health Information Service Provider (HISP)
- Other (please list):

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 primary ones in which you currently have, or are recruiting new, participants in your HIE? This should **\*not\*** 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.

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> Alabama        | <input type="checkbox"/> Alaska             | <input type="checkbox"/> American Samoa | <input type="checkbox"/> Arizona        |
| <input type="checkbox"/> Arkansas       | <input type="checkbox"/> California         | <input type="checkbox"/> Colorado       | <input type="checkbox"/> Connecticut    |
| <input type="checkbox"/> Delaware       | <input type="checkbox"/> Distr. of Columbia | <input type="checkbox"/> Florida        | <input type="checkbox"/> Georgia        |
| <input type="checkbox"/> Guam           | <input type="checkbox"/> Hawaii             | <input type="checkbox"/> Idaho          | <input type="checkbox"/> Illinois       |
| <input type="checkbox"/> Indiana        | <input type="checkbox"/> Iowa               | <input type="checkbox"/> Kansas         | <input type="checkbox"/> Kentucky       |
| <input type="checkbox"/> Louisiana      | <input type="checkbox"/> Maine              | <input type="checkbox"/> Maryland       | <input type="checkbox"/> Massachusetts  |
| <input type="checkbox"/> Michigan       | <input type="checkbox"/> Minnesota          | <input type="checkbox"/> Mississippi    | <input type="checkbox"/> Missouri       |
| <input type="checkbox"/> Montana        | <input type="checkbox"/> Nebraska           | <input type="checkbox"/> Nevada         | <input type="checkbox"/> New Hampshire  |
| <input type="checkbox"/> New Jersey     | <input type="checkbox"/> New Mexico         | <input type="checkbox"/> New York       | <input type="checkbox"/> North Carolina |
| <input type="checkbox"/> North Dakota   | <input type="checkbox"/> N. Mariana Islands | <input type="checkbox"/> Ohio           | <input type="checkbox"/> Oklahoma       |
| <input type="checkbox"/> Oregon         | <input type="checkbox"/> Pennsylvania       | <input type="checkbox"/> Puerto Rico    | <input type="checkbox"/> Rhode Island   |
| <input type="checkbox"/> South Carolina | <input type="checkbox"/> South Dakota       | <input type="checkbox"/> Tennessee      | <input type="checkbox"/> Texas          |
| <input type="checkbox"/> Utah           | <input type="checkbox"/> US Virgin Islands  | <input type="checkbox"/> Vermont        | <input type="checkbox"/> Virginia       |
| <input type="checkbox"/> Washington     | <input type="checkbox"/> West Virginia      | <input type="checkbox"/> Wisconsin      | <input type="checkbox"/> Wyoming        |

5. 5a. \*For the state(s) selected in question 4, please select the specific hospital service area(s) <sup>†</sup> in which you currently have, or are recruiting new, participants in your HIE.

<sup>†</sup> Hospital Service Areas are geographic areas defined by the Dartmouth Atlas.

[Populate list of HSAs for each State reported in prior question and have check all option for HSAs in a given state]

A hospital service area look-up by zip code can be found at: [www.dartmouthatlas.org/data/search\\_zip.php](http://www.dartmouthatlas.org/data/search_zip.php)

If you 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:

6. For the state(s) selected in question 4, what is the state's general approach to consent?  
 [Populate with states from question 4, limiting to those only reporting 1-5 states.]

- Opt-in
- Opt-out
- Other (please specify):

7. Please indicate which of the following options applies to your HIE model:

- Federated
- Centralized
- Both (Hybrid)
- Other (please specify)

8. Which of the following services do you currently offer that are used by participants in your HIE? (Select all that apply)

GENERAL SERVICES	
Provider Directory	<input type="checkbox"/>
Patient Consent Management	<input type="checkbox"/>
Community Medical Record: Aggregation of information from across the community served by the HIE, only including health information (e.g., diagnoses, procedures, medications)	<input type="checkbox"/>
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)	<input type="checkbox"/>
Record Locator Service	<input type="checkbox"/>
Messaging using the Direct Protocol	<input type="checkbox"/>
Transform other document types or repositories into CCDAs (e.g., MDS, OASIS, Community Health Record)	<input type="checkbox"/>
Data normalization	<input type="checkbox"/>
Alerting/event notification (e.g., Admit-Discharge-Transfer)	<input type="checkbox"/>
Results delivery (i.e., uni-directional push)	<input type="checkbox"/>
Connection to prescription drug monitoring program (PDMP)	<input type="checkbox"/>
Prescription fill status and/or medication fill history	<input type="checkbox"/>
Provide data to third party disease registries (e.g., Wellcentive, Crimson)	<input type="checkbox"/>
Advanced care planning (i.e., POLST/MOLST)	<input type="checkbox"/>
Sell de-identified data to third parties	<input type="checkbox"/>
Patient access to immunization history	<input type="checkbox"/>
Integrating claims data	<input type="checkbox"/>
Other (please list):	<input type="checkbox"/>

Services related to VALUE-BASED PAYMENT MODELS	
Activities related to quality measurement (e.g., generating,	<input type="checkbox"/>

validating, reporting, etc.)	
Closed-loop referrals tracking	<input type="checkbox"/>
Identification of gaps in care	<input type="checkbox"/>
Care coordination platform	<input type="checkbox"/>
Registry services, including operating as a clinical data registry or qualified clinical data registry (QCDR) <sup>1</sup>	<input type="checkbox"/>
Providing data to allow analysis by networks/providers	<input type="checkbox"/>
Analytics (e.g., risk stratification)	<input type="checkbox"/>
Other (please list):	<input type="checkbox"/>

9. Do **entities participating in your HIE** cover 100% of your operating expenses?

- Yes  
 No

10. Have you received HITECH 90/10 funds for implementation either directly as state designated entity, or indirectly through another entity?

- Yes  
 No  
 Don't know

11. 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  
 Other: Please explain:

12. 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:

13. 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

14. Within the past year, please estimate **the number of acute care hospitals** (individual facilities both within health systems and independent, including VA, public, and private) that are directly connected (not via another network) to your HIE:

- HOSPITALS
- Provide data  Do not know

<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. [\(CMS\)](#)

Receive or view data

Do not know

**Public Health**

***HIE Support for Public Health Reporting***

1. Please list up to 5 state or local public health entities that are connected to your HIE (Connected means that the public health entity provides data to your HIE, receives data from your HIE, and/or pays to participate in your HIE):


- 1a. For the entity(ies) listed, which type is each public health entity?

Answer Options <i>*populate from those listed above*</i>	State Public Health Agency	Local or County Public Health Agency	Other
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

- 1b. For the entity(ies) listed, please report whether each public health entity: (Select all that apply)

Answer Options <i>*populate from those listed above*</i>	... provides data to your HIE	Your HIE reports data to ...	... pays to participate in your HIE	None of these options
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 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:**

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 your **participating healthcare providers**?



	In production	In testing	In planning	Available, but PHA not able/willing	Not available	Don't know
Syndromic surveillance reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunization registry reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic case reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic reportable laboratory result reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public health registry reporting (administered by or for public health agencies for public health purposes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other COVID-19 related reporting (e.g., registry)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vital Record System reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunization registry reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic case reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic reportable laboratory result reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public health registry reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clinical data registry reporting and/or specialized registry reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other COVID-19 related reporting (e.g., registry)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vital Record System reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	Other Provider Types Reporting through your HIE
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	

4. Do you receive any of the following funding source(s) to specifically support public health reporting? (Select all that apply)

- Fees paid by participants
- Fees paid by State health department
- State Medicaid funding
- STAR HIE program
- CARES Act funding
- 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

5. To what extent have you experienced the following barriers to public health reporting? This includes both reporting to and receiving from primary PHA.

	To a Great Extent	Somewhat	Very Little	Not at All	N/A
Patient consent model hinders data exchange with PHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State statutes/regulations limit PHA participation with HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Need for data use agreements for public health data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited funding from PHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limited funding from your HIE participants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PHA lacks staffing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PHA lacks technical capability to receive messages from your HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PHA lacks technical capability to process messages from your HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other technical limitations on part of PHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PHA has other priorities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low return on investment to your HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please list):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Since February 2020, have you expanded the number of provider organizations that engage in public health reporting through your HIE?

- Yes
- No
- Don't know

6a. **If yes**, Which provider types expanded public health reporting through your HIE? (Select all that apply)

Hospitals and Health Systems	<input type="checkbox"/>
Ambulatory Clinics/Physician Practices	<input type="checkbox"/>
Long-term Care Facilities	<input type="checkbox"/>
Correctional Facilities	<input type="checkbox"/>

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 **receive** 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 **bed capacity and resource utilization**? Electronic receipt includes standards-based approaches (e.g., SANER, HL7 feed) and does **not** include spreadsheet submission and/or manual data entry.

- Actively electronically receiving production data
- In the process of testing and validating electronic receipt of data (Skip to 9)
- In planning phase to support this reporting (Skip to 9)
- Not planning to support this reporting (Skip to 9)
- Don't know (Skip to 9)

8a. If actively electronically receiving production data, to what entities are you submitting this data? (Select all that apply)

- City or local public health department(s)
- State public health department(s)
- Federal entities (such as, the CDC or HHS)
- Other. Please list:
- Don't know

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 <https://build.fhir.org/ig/HL7/fhir-saner/introduction.html>
- 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
- LOINC
- Other. Please list:
- Non-standardized codes
- Don't know

9. Does your HIE currently provide data to PHA(s) to fill gaps in their COVID-19-related data (e.g., missing demographic information)?

- Yes
- No but could do so
- No and could not do so
- Don't know

9a. **If yes or could do so:** Please indicate what types of data are or could be provided to fill gaps. (Select all that apply)

Data Type	Currently provided	Not currently provided but could be
Race/ethnicity	<input type="checkbox"/>	<input type="checkbox"/>
Other demographics	<input type="checkbox"/>	<input type="checkbox"/>
Up-to-date contact information (for contact tracing)	<input type="checkbox"/>	<input type="checkbox"/>
Hospitalization information	<input type="checkbox"/>	<input type="checkbox"/>
Health information such as chronic health conditions	<input type="checkbox"/>	<input type="checkbox"/>
Immunization data	<input type="checkbox"/>	<input type="checkbox"/>
Commercial lab results	<input type="checkbox"/>	<input type="checkbox"/>
Hospital lab results	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>

9b. **If yes:** How often do PHA(s) electronically receive or query these types of data from your HIE?

- Often
- Sometimes
- Rarely
- Never
- Don't know

9c. **If yes:** How are PHA(s) accessing these data? (Select all that apply)

- 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 services does your HIE provide to PHA(s) to support COVID-19 response: (Select all that apply)

- 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
- Other. Please list:
- None

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 COVID-19 data? (Select all that apply)

- Healthcare Providers: Administrators
- Healthcare Providers: Frontline Clinicians
- Payers
- Medicaid
- Other. Please list:
- None
- Emergency Preparedness/Response
- School Nurses
- Contact Tracers
- CDC

13. If 'Healthcare Providers: Frontline Clinicians' is checked: What COVID-19 data can frontline clinicians access through your HIE: (Select all that apply)

- 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 checked: How can frontline clinicians access COVID-19 data through you HIE: (Select all that apply)

- 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 Relevant HIE**

15. Please report whether **each type of stakeholder is involved** in your HIE in the following ways:

Answer Options	Provide COVID-19 Test Results	Provide Data Other Than COVID-19 Test Results	View or Receive Data
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Hospital-based labs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Independent labs (including commercial)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physician office-based labs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile labs (e.g., Point of Care Labs for COVID-19)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public health labs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16. If 'Provide COVID-19 Test Results' is checked, for the relevant rows: How timely are COVID-19 test results that you typically receive?

	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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Independent labs (including commercial)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physician office-based labs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile labs (e.g., Point of Care Labs for COVID-19)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public health labs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17. In general, have laboratories sought to limit or refused to provide access, exchange, or use of electronic health information (e.g., laboratory results)?

- Yes
- No (skip to 21)
- Have not made request (skip to 21)

18. What types of laboratories have sought to limit or refused to provide access, exchange, or use of electronic health information? (Select all that apply)

- Hospital-based labs
- Independent labs (including commercial)
- Physician office-based labs
- Mobile labs (e.g., Point of Care Labs for COVID-19)
- Public health labs
- Other. Please list:

19. 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:

20. To what degree 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

21. Does your HIE map from non-standard laboratory test/result codes to LOINC® codes?

- Yes
- No (Skip to next section)
- Don't know (Skip to next section)

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

## Implementation and Use of Standards

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

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

	Routinely/ from most participants	Sometimes/ From some participants	Rarely/ From few participants	Never	Don't know
Care summaries in a structured format (e.g., CDA, CCR, C32)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 v2 messages (any type)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ADT messages (for applicable participants)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 Fast Healthcare Interoperability Resources (FHIR) messages (DSTU2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 FHIR Release 3 (STU) messages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FHIR v.4.0 messages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 1a. If care summaries in a structured format “routinely” or “sometimes” is checked above, then ask: Do you parse C-CDAs (i.e., extract and make available discrete data elements):

- Yes  
 No  
 Don't know

2. To what extent is the information that you **receive from your participants** consistent with different versions of the United States Core Data for Interoperability (USCDI)? *USCDI is a standardized set of health data classes and constituent data elements for nationwide, interoperable health information exchange.*

	Routinely/ from most participants	Sometimes/ From some participants	Rarely/ From few participants	Never	Don't know
USCDI v1 <a href="https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi">https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USCDI v2 <a href="https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi#uscdi-v2">https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi#uscdi-v2</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. To what extent does your HIE electronically **send or make available** data to your participants using the following methods?



	Routinely/ To most participants	Sometimes/ To some participants	Rarely/ To few participants	Never	Don't know
Care summaries in a structured format (e.g., CDA, CCR, C32)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 v2 messages (any type)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 Fast Healthcare Interoperability Resources (FHIR) messages DSTU2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HL7 FHIR Release 3 (STU)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FHIR v.4.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	<input type="checkbox"/>
<b>Clinical Information</b>	
Problems	<input type="checkbox"/>
Prescribed Medications	<input type="checkbox"/>
Filled Medications	<input type="checkbox"/>
Medication Allergies	<input type="checkbox"/>
Non-Medication Allergies & Intolerances	<input type="checkbox"/>
Functional Status	<input type="checkbox"/>
Cognitive Status	<input type="checkbox"/>
Vital Signs	<input type="checkbox"/>
Pregnancy Status	<input type="checkbox"/>
Immunizations	<input type="checkbox"/>
Family Health History	<input type="checkbox"/>
Health Concerns	<input type="checkbox"/>
Clinical Notes	<input type="checkbox"/>
<b>Imaging/Pathology</b>	
Diagnostic Imaging Order	<input type="checkbox"/>
Radiology Report (narrative)	<input type="checkbox"/>
Pathology Report (narrative)	<input type="checkbox"/>
<b>Laboratory-Related Information</b>	
Laboratory Test(s)	<input type="checkbox"/>
Laboratory Value(s)/Result(s)	<input type="checkbox"/>
Laboratory report (narrative)	<input type="checkbox"/>
<b>Team-Based Care</b>	
Care Plan Field(s), including Goals and Instructions	<input type="checkbox"/>
Care Team Member(s) (Provider ID, Provider Name)	<input type="checkbox"/>
Assessment and Plan of Treatment	<input type="checkbox"/>
<b>Encounter-Related Information</b>	
Procedures	<input type="checkbox"/>

Admission and Discharge Dates and Locations	<input type="checkbox"/>
Encounters (Encounter type, diagnosis, time)	<input type="checkbox"/>
Discharge Disposition	<input type="checkbox"/>
Referrals	<input type="checkbox"/>
Discharge Instructions	<input type="checkbox"/>
Reason for Hospitalization	<input type="checkbox"/>
<b>Health Equity</b>	
Home Address	<input type="checkbox"/>
Race/Ethnicity	<input type="checkbox"/>
Preferred Language	<input type="checkbox"/>
Health-related Social Needs (e.g., housing, food insecurity)	<input type="checkbox"/>
Substance Use Disorder (as defined in 42 CFR Part 2)	<input type="checkbox"/>
Gender Identity	<input type="checkbox"/>
Sexual Orientation	<input type="checkbox"/>
<b>Other</b>	
Other (please list):	<input type="checkbox"/>

5. To what extent does your HIE electronically **send or make available to participants**:

	<b>Routinely/ To most participants</b>	<b>Sometimes/ To some participants</b>	<b>Rarely/ To few participants</b>	<b>Never</b>	<b>Don't know</b>
Care summaries in a structured format (e.g., CDA, CCR, C32)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data in a format consistent with USCDI v1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data in a format consistent with USCDI v2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Does your HIE **make data available for participants to query**? Note: query refers to a query-and-response exchange, e.g. a request from one participant through an interface that results in a response delivered into an EHR.

- Yes
- No
- Don't Know

**Network-to-Network Connectivity and TEFCA**

1. Does your HIE: (Select all that apply)

Sell/provide your infrastructure to other HIEs	<input type="checkbox"/>
Buy/use infrastructure from another HIE	<input type="checkbox"/>
Connect to other HIEs in SAME state	<input type="checkbox"/>
Connect to other HIEs in DIFFERENT state(s)	<input type="checkbox"/>
None of the above	<input type="checkbox"/>

2. Is your HIE currently using the following national networks to exchange data?

	Live Data Exchange (send or receive)	Implementing	Not Using	Other (please specify):
<b>General Purpose Networks:</b>				
CommonWell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DirectTrust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Strategic Health Information Exchange Collaborative (CIVITAS)/Patient Centered Data Home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e-Health Exchange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carequality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Specific Purpose Networks:</b>				
Surescripts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Patient Ping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Audacious Inquiry: Pulse/ENS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Collective Medical Technologies: EDIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Social Service Referral Platform(s) (e.g., Aunt Bertha, Unite Us)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (please list):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2a. **If not using any general-purpose networks in prior question:** Please select reason(s) for not using any of the general purpose networks: (Select all that apply)

- Do not see the value in what they provide (i.e., services not useful or data limited)
- Perceive them as competitors
- Participation costs too high
- Not a priority
- Other. Please list:

3. Is your HIE planning to participate in the Trusted Exchange Framework and Common Agreement? Please find definitions of the roles here: <https://www.healthit.gov/topic/interoperability/trusted-exchange-framework-and-common-agreement-tefca>

- Yes, as a QHIN
- Yes, as a Participant or as a Sub-participant
- No
- Don't know

3a. **If no:** Why are you not planning on 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):
- Do not perceive sufficient value in participating (please briefly describe why):
- Other (please list):

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):
- Do not perceive sufficient value in participating (please briefly describe why):
- Have not yet developed a strategic plan to participate
- Other (please list):

3c. **If yes:** As exchange based on the Trusted Exchange Framework and Common Agreement becomes operational, is your HIE planning to change its operations in any of the following ways:

	Yes	No	Don't know	Not Applicable
Changing Types of services offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selling/providing your services to other HIEs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buying/using services from another HIE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing technical infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing legal agreements and/or policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing other infrastructure (e.g., creating new training, supporting or making process redesigns (e.g., new workflows))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partnering with HIEs in SAME region/state	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partnering with HIEs in DIFFERENT regions/states	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partnering with an entity that is not an HIE (e.g., Health IT Developer)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please list):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4a. For which of the following exchange purposes (which are included in TEFCA), are your participants currently able to make a REQUEST for information?

	Yes	No	Don't Know
Treatment (as defined by HIPAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment (as defined by HIPAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Health Care Operations (as defined by HIPAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Individual Access Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Government Benefits Determination (as defined by TEFCA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment (as defined by HIPAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Health Care Operations (as defined by HIPAA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Individual Access Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Government Benefits Determination (as defined by TEFCA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Information Blocking

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

1. To what extent are you familiar with the information blocking rules, applicable actors, exceptions, and enforcement timeline?

- Very Familiar  
 Moderately Familiar  
 Somewhat Familiar  
 Not Familiar

2. How often have you encountered **each of the following form(s)** of information blocking by **EHR vendors** (and other Developer(s) of Certified Health IT)?

	Rarely /Never	Sometimes	Often/ Routinely	Don't Know
<p align="center"><b>PRICE</b></p> <p align="center">Examples:</p> <p>using high fees to avoid granting third-parties access to data stored in the developer's EHR system</p> <p>charging unreasonable fees to export data at a provider's request (such as when switching developers)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p align="center"><b>CONTRACT LANGUAGE</b></p> <p align="center">Examples:</p> <p>using contract terms, warranty terms, or intellectual property rights to discourage exchange or connectivity with third-party</p> <p>changing material contract terms related to health information exchange after customer has licensed and installed the vendor's technology</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p align="center"><b>ARTIFICIAL TECHNICAL, PROCESS, OR RESOURCE BARRIERS</b></p> <p align="center">Examples:</p> <p>using artificial technical barriers to avoid granting third-parties access to data stored in the vendor's EHR system</p> <p>using artificial reasons to limit the types of information that can be sent/shared or received</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p align="center"><b>REFUSAL</b></p> <p align="center">Examples:</p> <p>refusing to exchange information or establish connectivity with certain vendors or HIOs</p> <p>refusing to export data at a provider's request (such as when switching vendors)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p align="center"><b>OTHER</b> (please list):</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. What proportion of **EHR Vendors** have you encountered engaging in information blocking?

- All/Most  
 Some  
 Few  
 None (skip to 6)  
 Don't know or N/A (Don't interact with developers) (skip to 6)

- 3a. Among **EHR Vendors** that engage in information blocking, how often do they do it?

- Routinely
- Sometimes
- Rarely
- Don't know

4. When you have experienced practices that you believed constituted information blocking by **EHR vendors** in the past year, how often did you report the information blocking to **ONC/HHS**?

- Always
- Most of the time
- Sometimes
- Rarely
- Never

5. To what extent does information blocking by **EHR vendors** make it more difficult for you to provide HIE services to your participants?

- Greatly
- Moderately
- Minimally/Not at all
- Don't know

6. In what form(s) have you experienced information blocking by **hospitals and health systems**?

	Rarely /Never	Sometimes	Often/ Routinely	Don't Know
<p><b>ARTIFICIAL TECHNICAL, PROCESS, OR RESOURCE BARRIERS</b></p> <p>Examples:</p> <p>requiring a written authorization when neither state nor federal law requires it</p> <p>requiring a patient to repeatedly opt in to exchange for TPO</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>REFUSAL</b></p> <p>Examples:</p> <p>refusing to exchange information with competing providers, hospitals, or health systems</p> <p>refusing to share data with other stakeholders, such as payers or independent labs</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>CLOSED NETWORK EXCHANGE</b></p> <p>Examples:</p> <p>promoting alternative, proprietary approaches to HIE</p> <p>exchanging only within referral network or with preferred referral partners</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>OTHER</b> (please list):</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. What proportion of **hospitals and health systems** have you encountered engaging in information blocking?

- All/Most
- Some
- Few
- None (skip to 9)
- Don't know or N/A (Don't interact with developers) (skip to 9)

7a. Among **hospitals and health systems** that engage in information blocking, how often do they do it?

- Routinely
- Sometimes
- Rarely
- Don't know

8. To what extent does information blocking by **hospitals and health systems** lead to missing patient health information?
- Greatly
  - Moderately
  - Minimally/Not at all
  - Don't know

9. Among other types of stakeholders, to what extent have you observed information blocking behaviors?

	Rarely/ Never	Sometimes	Often/ Routinely	Don't Know
<b>Commercial Payers</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Commercial Laboratories</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Commercial Pharmacies</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>National Networks (e.g. CommonWell, eHealth Exchange)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>State, regional, and/or local health information exchange</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Other</b> (please list):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Across all types of stakeholders, to what extent has information blocking decreased since the final regulations went into effect in April 2021?
- Greatly
  - Moderately
  - 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: