



2025 AHA Annual Survey Information Technology Supplement

Please return to:
AHA Annual Survey
Information Technology Supplement
155 N. Wacker Drive
Suite 400
Chicago, IL 60606

HOSPITAL NAME: _____

CITY & STATE: _____

Please Note: This year we continue to include questions designed to capture progress and persistent challenges to interoperability and exchange. This information will provide important data on the state of health IT and interoperability in hospitals nationwide.

GENERAL INSTRUCTIONS: Please respond to each of the following questions as of the day the survey is completed.

EHR System and IT Vendors

1. Which vendor below provides your primary inpatient electronic health record (EHR) or electronic medical record (EMR) system? (Please check only one). *“Primary” is defined as the system that is used for the largest number of patients or the system in which you have made the single largest investment. Please answer based on vendor name rather than product.*

- a. ☐ Allscripts
- b. ☐ Altera Digital Health
- c. ☐ Athenahealth
- d. ☐ Cerner
- e. ☐ CPSI/Evident
- f. ☐ Epic
- g. ☐ MEDHOST
- h. ☐ Meditech
- i. ☐ Would prefer not to disclose EHR vendor
- j. ☐ We do not use an EMR/EHR system (go to 1a)
- k. ☐ Other (please specify):

1a. If you indicated you do NOT use an EMR/EHR system, what are the primary challenge(s) that have prevented your hospital from implementing and using an EMR/EHR system? (Please check all that apply).

- a. ☐ Upfront capital costs/lack of access to capital to install systems
- b. ☐ Ongoing cost of maintaining and upgrading systems
- c. ☐ Obtaining physician cooperation
- d. ☐ Obtaining other staff cooperation
- e. ☐ Concerns about security or liability for privacy breaches
- f. ☐ Uncertainty about certification requirements
- g. ☐ Limited vendor capacity
- h. ☐ Lack of adequate IT personnel in hospital to support implementation/maintenance
- i. ☐ Challenge/complexity of meeting Promoting Interoperability program criteria within implementation timeframe
- j. ☐ Pace and extent of other regulatory requirement changes
- k. ☐ Other (please specify):

END OF SURVEY FOR RESPONDENTS WHO DO NOT USE AN EMR/EHR

2. Does your hospital provide outpatient care to patients?

Note: Outpatient care refers to both hospital-based and satellite outpatient departments/sites.

- a. ☐ Yes (go to 3)
- b. ☐ No (go to 4)

3. Do you use the same primary inpatient EMR/EHR system vendor (noted above) for your primary outpatient EMR/EHR system? “Primary” is defined as the system that is used for the largest number of patients or the system in which you have made the single largest investment. Please answer based on vendor name rather than product.

- a. ☐ Yes, share single instance

- b. ☐ Yes, but do not share the single instance/version
- c. ☐ No
- d. ☐ Do not know
- e. ☐ NA

4. Have you used the capability to export multiple records from your primary inpatient EHR system to support any of the following uses? (Please check all that apply).

Sometimes referred to as “bulk” export, this functionality enables analytics and reporting, population management, or switching EHR systems.

- a. ☐ Analytics and reporting
- b. ☐ Population health management
- c. ☐ Research purposes
- d. ☐ Switching EHR systems
- e. ☐ Have not used the capability yet
- f. ☐ Do not have this capability

Participation in health information exchange networks

5a. Please indicate your level of participation in a state, regional, and/or local health information exchange (HIE) or health information organization (HIO).

- 1. ☐ HIE/HIO is operational in my area and we are participating and actively exchanging data in at least one HIE/HIO (go to 5b)
- 2. ☐ HIE/HIO is operational in my area, but we are not participating (go to 5b)
- 3. ☐ HIE/HIO is not operational in my area (go to 6)
- 4. ☐ Do not know (go to 6)

5b. Please indicate which state, regional and/or local HIE/HIO(s) with which your hospital participates and actively exchanges data as well as the first year your hospital actively participated in this HIE/HIO. *Note: A list of known active HIEs is included in an attachment and numbered. Please either write the HIE name or its number on that list below. If the HIE is not listed, please be sure to mark it as “Other” and write the complete HIE name.*

5b1a. Name/reference number: _____

5b1b. First Year Your Hospital Participated: _____

5b2a. Name/reference number: _____

5b2b. First Year Your Hospital Participated: _____

5b3a. Name/reference number: _____

5b3b. First Year Your Hospital Participated: _____

6. Which of the following national health information exchange networks and/or frameworks does your hospital currently actively participate in (i.e., operational exchange)? (Please check all that apply). *Note: We ask about participation in the Trusted Exchange Framework and Common Agreement (TEFCA) in a separate section.*

- a. ☐ CommonWell Health Alliance
- b. ☐ e-Health Exchange
- c. ☐ Civitas (formerly SHIEC)/Patient Centered Data Home (PCDH)
- d. ☐ Carequality (network-to-network trust/governance framework)
- e. ☐ EHR vendor-based network that enables record location and exchange within the EHR vendor’s network of users (e.g., Epic’s Care Everywhere)
- f. ☐ Other national health information exchange network

- g. ☐ Do not participate in any national health information exchange networks (either via vendor or directly)
- h. ☐ Do not know

Trusted Exchange Framework and Common Agreement

7. Are you aware of the Trusted Exchange Framework and Common Agreement™ (TEFCA™)?

<https://www.healthit.gov/topic/interoperability/trusted-exchange-framework-and-common-agreement-tefca>

- a. ☐ Yes b. ☐ No (go to 9)

8. If yes, are you currently participating or do you plan to participate in TEFCA exchange (such as through your HIE or other national network)?

- a. ☐ Yes, currently participating and have partner/contract in place
b. ☐ Yes, plan to participate and have partner/contract in place
c. ☐ Yes, plan to participate but do not have partner/contract in place
d. ☐ No, not participating and do not plan to
e. ☐ Don't know

Querying information from outside providers or sources

9. How often are the following electronic methods used to search for (e.g., query or auto-query) and view patient health information from sources outside your organization or hospital system? (Please indicate how often each method is used across each row below).

Electronic Methods	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
a. Provider portals that allow you to view records in another organization's EHR system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Interface connection between EHR systems (e.g., HL7 interface)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Access to other organizations' EHR system using login credentials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Regional, state, or local health information exchange organization (HIE/HIO).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. EHR vendor-based network that enables record location within the network (e.g., Care Everywhere)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. EHR connection to national networks that enable record location across EHRs in different networks (e.g., CommonWell, eHealth Exchange, Carequality).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Other electronic _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sending patient health information

10. When a patient transitions to another care setting outside of your organization or hospital system, how often does your hospital use the following methods to SEND patient health information in a structured format? (Please indicate how often each method is used across each row below).

Methods without intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
a. Mail or fax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. eFax using EHR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Provider portals that allow outside organization to view records in your EHR system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Interface connection between EHR systems (e.g., HL7 interface)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Login credentials that allow access to your EHR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

f. Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methods with intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
g. Health information service providers (HISPs) that enable messaging via DIRECT protocol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Regional, state, or local health information exchange organization (HIE/HIO).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. National networks that enable exchange across different EHR vendors (e.g., CommonWell, eHealth Exchange, Carequality)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11. When a patient transitions to another care setting or organization, to what extent does your hospital electronically send or make available patient health information to the following providers in a structured format (e.g., CCDA) that they are able to use? (Please check only one option in each row).

	(1) Most/All	(2) Some	(3) Few/None	(4) Do not know
a. Other Hospitals <i>outside your system</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Ambulatory Care Providers <i>outside your system</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Long-term and Post-Acute Care Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Behavioral Health Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Receive and Integrate patient health information

12. When a patient transitions from another care setting outside your organization or hospital system, how often does your hospital use the following methods to RECEIVE patient health information in a structured format? (Please indicate how often each method is used across each row below).

Methods without intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
a. Mail or fax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. eFax using EHR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Provider portals that allow you to view records in another organizations' EHR system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Interface connection between EHR systems (e.g., HL7 interface)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Access to other organizations' EHR system using login credentials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Other(Please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Methods with intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
g. Health information service providers (HISPs) that enable messaging via DIRECT protocol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Regional, state, or local health information exchange organization (HIE/HIO).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. National networks that enable exchange across <u>different</u> EHR vendors (e.g., CommonWell, eHealth Exchange, Carequality)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Other (Please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. When a patient transitions from another care setting or organization, to what extent does your hospital electronically receive or query patient health information from the following providers in a structured format (e.g., CCD) that you are able to use? (Please check only one option in each row).

	(1) Most/All	(2) Some	(3) Few/None	(4) Do not know
a. Other Hospitals <i>outside your system</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Ambulatory Care Providers <i>outside your system</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Long-term and Post-Acute Care Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Behavioral Health Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. Does your EHR integrate the information contained in summary of care records received electronically (not eFax) without the need for manual entry? *Note: This does NOT refer to automatically adding data to the patient's medical record without provider review.*

- a. ☐ Yes, routinely b. ☐ Yes, but not routinely c. ☐ No d. ☐ Don't know e. ☐ NA

15. Does your EHR present health insurer real-time prescription benefit information?

- a. ☐ Yes, for all or almost all payers b. ☐ Yes, for a limited set of payers c. ☐ No
d. ☐ Don't know

Availability and usage of data that is exchanged

16. When treating a patient that was seen by a provider outside your organization or hospital system, do providers at your hospital have necessary clinical information available electronically (not e-Fax) from outside providers or sources?

- a. ☐ Yes, routinely b. ☐ Yes, but not routinely c. ☐ No d. ☐ Don't know

17. How frequently do providers at your hospital use patient health information received electronically (not e-Fax) from outside providers or sources when treating a patient?

- a. ☐ Often b. ☐ Sometimes c. ☐ Rarely d. ☐ Never e. ☐ Do not know

Barriers to exchange and interoperability

Which of the following issues does your hospital currently experience when trying to electronically (not eFax) send, receive or find (query) patient health information to/from other organizations or hospital systems? Please check all that apply and indicate whether the issue is a *major* barrier (i.e., greatly reduces the value or frequency of exchange or prevents exchange with all or most organizations that you would like to exchange information with) or *minor* barrier (i.e., a persistent challenge that modestly reduces the value or frequency of exchange, but does not typically prevent exchange).

18a. Barriers related to electronically sending patient health information

	(a) Major barrier	(b) Minor barrier	(c) Not a barrier
1. Providers we would like to electronically send patient health information to do not have an EHR or other electronic system capable of receiving the information			
2. Difficult to locate the address of the provider to send the information (e.g., lack of provider directory)			
3. Many recipients of our electronic care summaries (e.g., CCDA) report that the information is not useful			

18b. Barriers related to electronically receiving patient health information

	(a) Major barrier	(b) Minor barrier	(c) Not a barrier
1. Difficult to match or identify the correct patient between systems			
2. There are providers whom we share patients with that don't typically exchange patient data with us			
3. There are providers who share data with us but do not provide those data in the format that we request			
4. There are providers who state they cannot share our patients' data with us because they cannot be certain we will safeguard the privacy or security of the data to the same standards they meet.			

18c. Other barriers related to exchanging patient health information

	(a) Major barrier	(b) Minor barrier	(c) Not a barrier
1. Experience greater challenges exchanging (e.g., sending/receiving) data across different vendor platforms			
2. We have to pay additional costs to send/receive data with outside organizations/hospital systems			
3. We had to develop customized interfaces in order to exchange (e.g., send/receive) data with outside organizations/hospital systems			
4. We are unable to mitigate cybersecurity risks inherent in how the requestor wants to connect to our systems.			
5. We are unable to unambiguously segment data that are requested from data we cannot share/have been asked by the patient not to share.			

Information Blocking Practices

Information blocking is defined in rules that first applied to actors' practices 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 visit the following link for more information: <https://www.healthit.gov/topic/information-blocking>

19a. To what extent have you observed or experienced the following entities engaging in information blocking behaviors?

	(a) Often/ Routinely	(b) Sometimes	(c) Never/ Rarely	(d) Not Applicable (i.e., we have not tried to get information from this source)	(e) Don't Know
1. Developers of Certified Health IT (e.g., Enterprise EHR vendors)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. National Networks (e.g., CommonWell, eHealth Exchange)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. State, regional, and/or local health information exchange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Healthcare providers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19b. In what form(s) have you observed or experienced information blocking by Enterprise EHR vendor(s)?

	(a) Often/ Routinely	(b) Sometimes	(c) Never/ Rarely	(d) Don't Know
1. Price – for example: <ul style="list-style-type: none"> Using high fees to avoid granting third-parties access to data stored in the vendor's EHR system Charging unreasonable fees to export data at a provider's request (such as when switching vendors) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Contract language – for example: <ul style="list-style-type: none"> 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 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Artificial technical, process, or resource barriers – for example: <ul style="list-style-type: none"> Using artificial technical barriers to avoid granting third-parties access to data stored in the vendor's EHR system 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Refusal – for example: <ul style="list-style-type: none"> 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) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Other (please list): _____	<input type="checkbox"/>	<input type="checkbox"/>		

19c. In what form(s) have you observed or experienced information blocking by healthcare providers?

	(a) Often/ Routinely	(b) Sometimes	(c) Never/ Rarely	(d) Don't Know
1. Artificial technical, process, or resource barriers – for example: <ul style="list-style-type: none"> Requiring a written authorization when neither state nor federal law requires it Requiring a patient to repeatedly opt in to exchange for treatment, payment, and operations (TPO) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Refusal – for example: <ul style="list-style-type: none"> Refusing to exchange information with competing providers, hospitals, or health systems 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Strategic affiliations – for example: <ul style="list-style-type: none"> Promoting alternative, proprietary approaches to information exchange Exchanging only within referral network or with preferred referral partners 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Other (please list): _____	<input type="checkbox"/>	<input type="checkbox"/>		

19d. If you have experienced practices that you believed constituted information blocking in the past year, have you ever reported the information blocking to HHS using the Report Information Blocking Portal?

<https://www.healthit.gov/report-info-blocking>

1. ☐ Yes 2. ☐ No
3. ☐ NA (Did not experience information blocking within the past year) 4. ☐ Don't know

Advanced Analytics / Artificial Intelligence (Annual)

This section asks about artificial intelligence (AI) used at your hospital. While definitions of AI vary, for the purpose of this section, all machine learning, non-machine learning predictive models, large language models and generative models are considered AI.

20. Please indicate whether your hospital currently uses each of the following types of AI integrated into your EHR:

	(1) Yes	(2) No but plan to use in the next year	(3) No, and no plans in the next year	(4) Don't know
a. Machine Learning-based Predictive Models (not including Generative AI)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Other Non-Machine Learning Predictive Models (e.g., APACHE IV)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Generative AI including large language models (e.g., ChatGPT, GPT-4, Google Gemini, Nuance DAX Copilot)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21. Please indicate whether your hospital currently uses each of the following types of AI NOT integrated into your EHR:

	(1) Yes	(2) No but plan to use in the next year	(3) No, and no plans in the next year	(4) Don't know
a. Machine Learning-based Predictive Models (not including Generative AI)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Other Non-Machine Learning Predictive Models (e.g., APACHE IV)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Generative AI including large language models (e.g., ChatGPT, GPT-4, Google Gemini, Nuance DAX Copilot)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If responded with “(2) No but plan to use in the next year” or “(3) No, and no plans in the next year” to all of the options in Questions 20 and 21, please skip to Question 27.

22. . To which of the following uses is your hospital currently applying any of the types of AI tools above? (Please check all that apply).

	(1) From EHR developer	(2) From any other source (e.g., a third- party developer or self-developed)
Predictive Use Cases		
a. Predicting health trajectories or risks for inpatients (such as early detection of onset of a disease or condition like sepsis; predicting in-hospital fall risk)	<input type="checkbox"/>	<input type="checkbox"/>
b. Identify high risk outpatients to inform follow-up care (e.g., readmission risk)	<input type="checkbox"/>	<input type="checkbox"/>
c. Monitor health (e.g., through integration with wearables)	<input type="checkbox"/>	<input type="checkbox"/>
d. Assist in medical image interpretation (e.g., radiology)	<input type="checkbox"/>	<input type="checkbox"/>
e. Recommend treatments (e.g., identify similar patients and their outcomes)	<input type="checkbox"/>	<input type="checkbox"/>
f. Simplify or automate billing procedures (e.g., propensity to pay)	<input type="checkbox"/>	<input type="checkbox"/>
g. Facilitate scheduling (e.g., predicting no-shows or block utilization).	<input type="checkbox"/>	<input type="checkbox"/>
Generative Use Cases		
h. Patient-facing chatbot	<input type="checkbox"/>	<input type="checkbox"/>
i. Generate patient-portal messaging	<input type="checkbox"/>	<input type="checkbox"/>
j. Ambient documentation of clinical encounters	<input type="checkbox"/>	<input type="checkbox"/>
k. Generate discharge summaries for patients	<input type="checkbox"/>	<input type="checkbox"/>
l. Summarize patient chart for nursing handoff	<input type="checkbox"/>	<input type="checkbox"/>

m. Summarize patient chart during transition from another setting of care	<input type="checkbox"/>	<input type="checkbox"/>
n. Generate prior authorizations	<input type="checkbox"/>	<input type="checkbox"/>
o. Generate or suggest billing codes from the chart	<input type="checkbox"/>	<input type="checkbox"/>
General Use Cases		
p. Clinical decision support	<input type="checkbox"/>	<input type="checkbox"/>
q. None of the above	<input type="checkbox"/>	<input type="checkbox"/>
r. Don't know	<input type="checkbox"/>	<input type="checkbox"/>
s. Other administrative use cases (describe):	<input type="checkbox"/>	<input type="checkbox"/>
t. Other clinical use cases (describe):	<input type="checkbox"/>	<input type="checkbox"/>

23. Who developed the AI tools (machine learning or other predictive models and generative AI models including large language models) used at your hospital? (Please check all that apply).

	(a) Our EHR Developer	(b) A third-party developer	(c) Self-developed	(d) Public domain	(e) Don't know
1. Machine learning or other predictive models	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Generative AI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24a. For what share of your AI tools does your hospital or health system have information on the tool's development, testing, and use (e.g., training data information, test results, intended use/out-of-scope use)? (Please check only one option in each row.)

	(a) All models	(b) Most models	(c) Some models	(d) Few models	(e) None	(f) Don't know
1. Machine learning or other predictive models	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Generative AI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24b. For what share of your AI tools is this information available to end users? (Please check only one option in each row.)

	(a) All models	(b) Most models	(c) Some models	(d) Few models	(e) None	(f) Don't know
1. Machine learning or other predictive models	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Generative AI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

25a. What share of your machine learning or other predictive models have been evaluated using data from your hospital or health system for: (Note: the next question asks about generative AI).

	(a) All models	(b) Most models	(c) Some models	(d) Few models	(e) None	(f) Don't know
1. Model Accuracy (e.g., sensitivity or specificity)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Model Bias (e.g., false positive parity across patients from different races, conditions, or other factors)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Post-implementation evaluation or monitoring of accuracy, bias or impact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

25b. What share of your generative AI tools including large language models have been evaluated using data from your hospital or health system for:

	(a) All models	(b) Most models	(c) Some models	(d) Few models	(e) None	(f) Don't know
1. Model Accuracy (e.g., usefulness of generated text)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Model Bias (e.g., bias in generated text; different usefulness across subgroups)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Post-implementation evaluation or monitoring of accuracy, bias or impact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

26. Who in your hospital or health care system is accountable for evaluating AI models? (Please check all that apply).

- a. ☐ Designated Senior Executive (CMIO / CIO / Director of Technology)
- b. ☐ Specific Committee or Task Force for AI
- c. ☐ Clinical Decision Support Committee / other non-AI Specific Committee
- d. ☐ Division/Department Leaders
- e. ☐ IT staff
- f. ☐ None of the above

27. Thank you for your cooperation in completing this survey. If you are not the CIO, or person responsible for information technology, have they reviewed your answers to this survey?

- a. ☐ Yes
- b. ☐ No

Respondent Name (please print) Circle CIO or Print Title if other (Area Code) Telephone #

____/____/____
Date of Completion

Name of CIO (if other than respondent)

Email Address

NOTE: PLEASE PHOTOCOPY THIS INFORMATION FOR YOUR HOSPITAL FILE BEFORE RETURNING THE ORIGINAL FORM TO THE AMERICAN HOSPITAL ASSOCIATION. THANK YOU.

HIO List

1. Alabama One Health Record
2. Arkansas State Health Alliance for Records Exchange
3. Atrium Health CareConnect
4. Big Sky Care Connect
5. Bronx RHIO
6. C3 Health Information Exchange
7. CAHIE
8. Camden Coalition of Healthcare Providers
9. Carolina eHealth Network - SC (Part of KONZA)
10. Chesapeake Regional Information System for Patients-DC (Part of CRISP Shared Services)
11. CIE San Diego
12. ClinicalConnect Health Information Exchange
13. Community Health Access Network (CHAN)
14. Community Health IT
15. Connie (Part of CRISP Shared Services)
16. Connexus (Integrated Care Collaboration)
17. Contexture
18. CRISP (MD) (Part of CRISP Shared Services)
19. CRISP Shared Services
20. CTHHealthLink (Part of KONZA)
21. CyncHealth Iowa
22. CyncHealth Nebraska
23. Delaware Health Information Network
24. East Tennessee Health Information Network
25. Emergency Department Information Exchange (EDIE)
26. Florida Health Information Exchange
27. GenesisLink - TX (Part of KONZA)
28. Georgia Health Information Network
29. Georgia Regional Academic Community Health Information Exchange
30. Greater Houston Healthconnect
31. Greater Newark Health Care Coalition
32. Guardian HIE
33. Hawaii Health Information Exchange
34. Health Gorilla
35. Health Services South Carolina (Part of CRISP Shared Services)
36. healtheConnect Alaska (Part of CRISP Shared Services)
37. HealtheConnections
38. HEALTHeLINK
39. HealtheParadigm - GA (Part of KONZA)
40. HealthHIE Nevada
41. HealthInfoNet
42. Healthix
43. HealthShare Exchange of Southeastern PA
44. HealthSYNC – LA (Part of KONZA)
45. HIXNY
46. Idaho Health Data Exchange
47. Indiana Health Information Exchange
48. Kansas Health Informaton Network (Part of KONZA)
49. Kentucky Health Information Exchange
50. Keystone HIE
51. KONZA
52. Lewis And Clark Information Exchange
53. Los Angeles Network for Enhanced Services
54. Louisiana Health Care Quality Forum
55. Manifest MedEX
56. Marin Health Gateway
57. Mass Hlway
58. Michigan Health Information Network
59. Mission HealthConnect
60. Mississippi Health Access Exchange (MHAX) - MS (Part of KONZA)
61. MyHealth Access Network
62. NC Health Information Exchange Authority
63. New England Healthcare Exchange Network (NEHEN)
64. New Jersey Health Information Network
65. North Coast Health Improvement and Information Network
66. North Dakota HIN
67. Ohio Health Information Partnership (CliniSync)
68. OneHealth New Jersey – NJ (Part of KONZA)
69. OnePartner HIE
70. Orange County Partnership RHIO (OCPRHIO)
71. Oregon Community Health Information Network (OCHIN)
72. PeIEx
73. Pennsylvania eHealth Partnership Program
74. PHIX
75. PHNIQ (Pediatric Health Network)
76. Pioneer Valley Health Information Exchange (PVIX)
77. Providence St. Joseph Health
78. Puerto Rico HIE
79. Reliance e-Health Collaborative
80. Rhode Island Quality Institute (Part of CRISP Shared Services)
81. Rio Grande Valley Health Information Exchange
82. Rochester RHIO
83. SacValley MedShare (Part of KONZA)
84. SafeHealth
85. San Diego Health Connect
86. San Mateo County Connected Care
87. Serving Communities Health Information Organization
88. SHINE of Missouri - MO (Part of KONZA)
89. South Carolina Health Information Exchange (SCHIEEx)
90. South Dakota Health Link
91. Stony Brook University Hospital
92. SYNCRONYS
93. Texas Health Services Authority
94. Trenton Health Information Exchange
95. USVI Office of Health IT (Part of CRISP Shared Services)
96. Utah Health Information Network
97. Velatura Public Benefit Corporation
98. Vermont Information Technology Leaders
99. Virginia Health Information (Part of CRISP Shared Services)
100. Wisconsin Statewide Health Information Network
101. WVHIN (Part of CRISP Shared Services)
102. Wyoming Frontier Information