

Advancing Health in America

2022 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 included new questions designed to capture interoperability and exchange, as well as public health reporting related to the ongoing pandemic. This information will provide important data on the state of interoperability in hospitals and progress on public health infrastructure.

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

Patient Engagement

1a. Does your hospital provide outpatient care to patients? Note: Outpatient care refers to both hospital-based and satellite outpatient departments/sites.

1. **U** Yes (go to 1b)

2. D No (go to 2)

1b. Is there more than one primary EMR/EHR system in use across your outpatient site(s)? 1. \Box Yes 2. \Box No

2. Are patients who receive care provided by your hospital or outpatient sites able to do the following: (Check "Yes" only if the functionality has been "turned on" and is fully implemented and available to patients. Check both (1) and (2) if the functionality is turned on in both inpatient and outpatient settings)

		(1) Yes, at some or all <u>inpatient</u> sites	(2) Yes, at some or all <u>outpatient</u> sites	(3) Not across outpatient or inpatient site(s)	(4) Do not know
a.	View their health/medical information online in their portal				
b.	Download health/medical information from their medical record from your portal				
C.	Import their medical records from other organizations into your portal				
d.	Electronically transmit (send via email or secure message) health/medical information to a third party from your portal (in a <u>structured</u> format such as CCDA)				
e.	Request an amendment to change/update their medical record online				
f.	View their clinical notes (e.g., visit notes including consultation, progress, history and physical) in their portal				
g.	Access their health/medical information using applications (apps) configured to meet the application programming interfaces (API) specifications in your EHR				
h.	Access their health/medical information using applications (apps) configured to meet Fast Healthcare Interoperability Resource (FHIR) specifications				
i.	Submit patient-generated data (e.g., blood glucose, weight)				
j.	Submit patient-generated data (e.g., blood glucose, weight) through apps configured to meet FHIR specifications.				
k.	Send/receive secure messages with providers				

Social Determinants of Health

- 3. Does your hospital routinely collect data on individual patients' health related social needs (often referred to as social determinants of health) such as transportation, housing, food insecurity or other?
 - a. TYes, routinely b. Yes, but not routinely

c. 🗖 No (go to 6)

d. Don't know (go to 6)

4a. How are data on individual patient's health related social needs recorded at your hospital? Check all that apply.

- 1. Structured electronic screening tool (including 'keying in' information from a paper form) (go to 4b)
- 2. Free text note (go to 5)
- 3. Diagnosis codes (e.g., ICD-10-CM Z codes) (go to 5)
- 4. Non-electronic methods (including those that are scanned into the EHR) (go to 5)

4b. If you use a screening tool, what type of screening tool?

- 1. Customized/home grown tool
- 2. An externally established tool such as PRAPARE, Recommended Social and Behavioral Domains for EHRs, Your Current Life Situation Survey
- 3. A combination (e.g., modification of externally established tool)
- 4. 🗖 Don't know
- 5. How does your hospital use data on patients' health related social needs documented at your hospital? Check all that apply
 - a. \Box For referrals to social service organizations
 - b. For population health analytics
 - c. For quality management
 - d. \Box To inform community needs assessment or other equity initiatives
 - e. To inform clinical decision making
 - f. To inform discharge planning
 - g. Other, please list:
- 6. From which sources outside your hospital/health system does your hospital electronically receive data on patients' social needs? Check all that apply
 - a. Health information exchanges
 - b. Other healthcare organizations
 - c. Community/social service organizations
 - d. Social service or community-based referral platform (such as Unite Us or Aunt Bertha)
 - e. Other, please list:
 - f. Do not receive data on health-related social needs from any external sources (go to 8)
- 7. If you indicated receiving data on patients' health related social needs from <u>external sources</u>, how do you use these data? *Check all that apply.*
 - a. For screening at our hospital (e.g., prompt screening, prepopulate screening tool)
 - b. For referrals to social service organization
 - c. \Box For population health analytics
 - d. \Box To inform community needs assessment or other equity initiatives
 - e. To inform clinical decision making
 - f. To Inform discharge planning
 - g. Other, please list:

Participation in health information exchange networks

 1 HE/HIC is operational in my area and we are participating and actively exchanging data in at least one HE/HIC 2 HIE/HIC is operational in my area, but we are not participating 3 HIE/HIC is not operational in my area 4 Do not know 8b. Please indicate which state, regional and/or local HE/HIC(s) with which your hospital participates and actively exchanges data as well as the first year your hospital actively participated in this HE/HIC. Note: A of known active HEs is included in an attachment and numbered. Please either write the HIE name or its number of that list below. 8b1a. Name/reference number: 8b1b. First Year Your Hospital Participated: 8b2b. First Year Your Hospital Participated: 8b3a. Name/reference number: 8b3b. First Year Your Hospital Participated: 90. Which of the following national health information exchange networks does your hospital currently actively participate in (Le., operational exchange)? Check all that apply. a. Common/Vell Health Alliance b. e-Health Exchange c. Civitas (formerly SHIEC)/Patient Centered Data Home (PCDH) d. Carequality (network-to-network trust/governance framework) e. DirectTrust f. EHR vendor-based network that enables record location and exchange within the EHR vendor's network or users (e.g., Epic's Care Everywhere) g. Other national health information exchange networks (either via vendor or directly) i. Do not know 10. Doe to therw 10. Doe to therw 10. Doe to therw 11. Yes 2. No (go to 11) 3. Don't know (go to 11) 10. If yes, is it enabled by DirectTrust? 11. Yes 2. No (go to 11) 3. Don't know (go to 11) 10. If yes, is it enabled by DirectTrust?<	8a.	or health information orga	of participation in a <u>state, regional, and/or local</u> health information exchange (HIE) anization (HIO). Note: This does not refer to a private, enterprise network.
 3. ☐ HIE/HIO is not operational in my area 4. ☐ Do not know 8b. 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. <i>Note: A of known active HIEs is included in an attachment and numbered. Please either write the HIE name or its number of that list below.</i> 8b1a. Name/reference number:			al in my area and we are participating and actively exchanging data in at least one
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MEDITECH	Direct Messaging					
NextGen	NextGen Share, Direct M	/lessaging]			
PointClickCare	Integrated Direct Messag	ging				
Wellsky	Wellsky laaS, Wellsky IC), Wellsky	Direct			
-		•				
-	Trusted Exchange Fran	nework	and Common	Agreemen	t	
11. Are you aware of the Tru		ork and C	ommon Agreem	ent (TEFCA		L
a. 🛛 Yes b. 🗖 No	o (go to 13)					
12. If yes, are you planning t network)?	o participate in TEFCA ex	xchange	(such as throug	h your HIE	or other nation	onal
a. 🛛 Yes b. 🗖 No	c. 🗖 Don't know					
<u> </u>	Querying information fr	rom outs	side providers	or source	<u>s</u>	
13a. Does your hospital <u>quer</u> encounters) from source should respond "Yes"	<u>y</u> electronically for patier es <u>outside</u> of your organiz					
1. 🗖 Yes 2.	No, but have the capa	hility 3		ave canahili	tv 4. 🗖 D	on't know
(go to 13b)	(go to 14)	onity 0	(go to 14)		-	on to 14)
(90 10 100)			(go to 11)		(9	
13b. How often are the follow						
	n from <u>sources outside y</u>	our orga	nization or hos	oital system	Please inc	dicate how
often each method is used	across each row below.					(5)
Electronic Methods		(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
1. Provider portals that allow another organizations' EF						
2. Interface connection betw HL7 interface)	een EHR systems (e.g.,					
3. Access to other organizati login credentials	ons' EHR system using					
4. Regional, state, or local he exchange organization (H						

Sending patient health information

14. 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 <u>SEND</u> a summary of care record? Please indicate how often <u>each</u> method is used across each row below.

proprietary, enterprise network

Carequality).

7. Other electronic_

5. EHR vendor-based network that enables record

(e.g., CommonWell, eHealth Exchange,

location within the network (e.g., Care Everywhere)6. EHR connection to national networks that enable record location across EHRs in different networks

Methods without intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
a. Mail or fax					
b. eFax using EHR					
c. Provider portals that allow outside organization to view records in your EHR system					

d. Interface connection between EHR systems (e.g., HL7 interface)					
e. Login credentials that allow access to your EHR					
f. Other					
Methods with intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA
g. HISPs that enable messaging via DIRECT protocol					
h. Regional, state, or local health information exchange organization (HIE/HIO). <i>NOT local proprietary,</i> <i>enterprise network</i>					
i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)					
j. National networks that enable exchange across <u>different</u> EHR vendors (e.g., CommonWell, eHealth Exchange, Carequality)					
k. Other					
	1	1		1	1

Electronic Notifications

15a. When a patient visits your Emergency Department (ED), do you provide electronic notification to the patient's primary care physician?

tification)
ľ

3. \Box No, but have the capability (go to 16a)	4. \square No, don't have the capability (go to 16a)

5. 🗖 Don't know (go to 16a)	6. 🗖 Don't have ED (go to 16a)
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15b. If yes, are electronic notifications provided to primary care physicians below? Check all that apply

1. Inside the system	2. Outside the system	3. Don't know
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16a. Does your hospital provide electronic admission, discharge or transfer (ADT) notifications to long-term postacute care providers?

ı.L	Yes, routinely	2.L	Yes, but not routinely (e.g., often missing information to route notification)
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3. No, but have the capability (go to 17) 4. No, don't have the capability (go to 17)

5. Don't know (go to 17)

16b. If yes, are electronic notifications provided to LTPAC facilities below? Check all that apply

- 1. \Box Inside the same system as the hospital
- 2. Outside the hospital's system

system 3. Don't know

Receive and Integrate patient health information

17. When a patient transitions from another care setting <u>outside your organization or hospital system</u>, how often does your hospital use the following methods to <u>RECEIVE</u> a summary of care record? Please indicate how often each method is used <u>across</u> each row below.

Methods without intermediaries	(1) Often	(2) Sometimes	(3) Rarely	(4) Never	(5) Do not know/NA				
a. Mail or fax									
b. eFax using EHR									
 c. Provider portals that allow you to view records in another organizations' EHR system 									
d. Interface connection between EHR systems (e.g., HL7 interface)									
e. Access to other organizations' EHR system using login credentials									
f. Other									
Methods with intermediaries(1) Often(2) Sometimes(3) Rarely(4) Never(5) Do not 									
g. HISPs that enable messaging via DIRECT protocol									
h. Regional, state, or local health information exchange organization (HIE/HIO). <i>NOT local proprietary,</i> <i>enterprise network</i>									
i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)									
j. National networks that enable exchange across <u>different</u> EHR vendors (e.g., CommonWell, eHealth Exchange, Carequality)									
k. Other									
 18. Does your EHR integrate the information contained eFax) without the need for manual entry? Note: This re EHR without special effort (this does NOT refer to automat using software to convert scanned documents into indexed a. Yes, routinely b. Yes, but not routinely 19. Does your EHR integrate health insurer real-time pra. Yes, for all or almost all payers b. Yes, but not routinely 	fers to the fically add d, discret∉ c.□ rescriptio	e ability to add ling data withou e data that can l No d. Don benefit info	or incorporate it provider revi be integrated/i Don't know rmation?	the informative). This concluded in E	ion to the uld be done HR.				
Availability and usa	ge of da	ta that is exc	hanged						
20. When treating a patient that was seen by a provide providers at your hospital routinely have necessar from outside providers or sources?									
a. 🗆 Yes b. 🗖 No		c. 🗖 🛛 Don't kn	ow						
21. How frequently do providers at your hospital use p from outside providers or sources when treating a			on received el	ectronically	/ (not e-Fax)				
a. Often b. Sometimes c. Rarely		d. DNever	e. 🗖 Do i	not know					
22. To what extent do you agree with this statement: Mouthing outside providers needed to effectively treat COVI		al electronical	lly received ir	nformation f	rom				
a. Strongly Agree b. Agree	c.🗖 Ne	either Agree nor	disagree d	d. 🗖 Disagi	ree				
e. Strongly disagree f. Don't know									

Public Health Reporting

23a. What is your hospital's current stage of active engagement towards electronically submitting data for public health reporting related to the activities listed below? For each row, please select the response that represents the most progress towards submission of production data

	(1) Actively electronically submitting production data	(2) In the process of testing and validating electronic submission of data	(3) Completed registration to submit data	(4) Have not completed registration	(5) Don't know
1. Syndromic surveillance reporting					
2. Immunization registry reporting					
3. Electronic case reporting					
4. Public health registry reporting (i.e., registry maintained by or for a public health agency NOT including immunization registry)					
5. Clinical data registry reporting (i.e., registry maintained by non- public health agency, such as specialty society)					
6. Electronic reportable laboratory result reporting					

23b. How does your hospital submit data for public health reporting related to the activities listed below? Please respond for each activity listed below that you indicated actively electronically submitting production data. Select all options used in each row. Note: this is referring to data generated through clinical processes involving patient care

	(1) Electronic health record	(2) Health information exchange	(3) Portal submission	(4) Flat files (e.g., CSV/XML Files)	(5) Not electronically submitting data (e.g., Fax)	(6) Don't know
1. Syndromic surveillance reporting						
2. Immunization registry reporting						
3. Electronic case reporting						
4. Public health registry reporting						
5. Clinical data registry reporting						
6. Electronic reportable laboratory result reporting						
7. Hospital capacity and utilization of medical supplies						

23c. For each type of public health reporting, please indicate whether your hospital uses automated, manual or a mix of both types of processes to transmit the data. Automated refers to EHR generated data sent electronically/automatically to the public health agency. Manual refers to chart abstraction with data faxed or re-input into a portal. A mix of both types of processes refers to files electronically generated from the EHR but manual steps required to transmit to public health agency.

	(1) Fully or primarily automated	(2) Mix of automated and manual process	(3) Fully or primarily manual	(4) Don't know
1. Syndromic surveillance reporting				
2. Immunization registry reporting				
3. Electronic case reporting				
4. Public health registry reporting				
5. Clinical Data registry reporting				
6. Electronic reportable laboratory result reporting				
7. Hospital capacity and utilization of medical supplies				

23d. What are some of the challenges your hospital has experienced when trying to submit health information to public health agencies to meet CMS reporting requirements for Promoting Interoperability Program? (Please check all that apply)

	Syndromic surveillance reporting	 Elect. case reporting	Public health registry reporting	Clinical data registry reporting	Electronic reportable laboratory result reporting
1. We feel that public health agencies lack the capacity (e.g., technical, staffing) to electronically <u>receive</u> the information					
2. We do not have the capacity (e.g., technical, staffing) to electronically <u>send</u> the information					
3. Technical complexity of interfaces, transmission, or submission process					
 Cost related to interfaces, transmission, or submission. 					
 We use different vocabulary standards than the public health agency, making it difficult to submit 					
 Difficulty extracting relevant information from EHR 					
7. Data are not stored in a discrete format within the EHR					
8. The onboarding process for electronic reporting is too cumbersome					

Barriers to exchange and interoperability

Which of the following issues has your hospital experienced when trying to <u>electronically</u> (not eFax) send, receive or find (query) patient health information to/from other organizations or hospital systems? (Please check *all* that apply)

24a. Barriers related to electronically sending patient health information

- 1. Providers we would like to electronically send patient health information to do <u>not</u> have an EHR or other electronic system with the capability to receive the information
- 2. Providers we would like to electronically send patient health information to <u>have</u> an EHR; however, it lacks the technical capability to receive the information
- 3. Difficult to locate the address of the provider to send the information (e.g., lack of provider directory)
- 4. D Many recipients of our electronic care summaries (e.g., CCDA) report that the information is not useful
- 5. It is difficult to locate the Direct address of the provider to send the information

24b. Barriers related to electronically receiving patient health information

- 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 exchange information with us due to privacy laws (e.g., HIPAA) in situations that do not seem appropriate

24c. Other barriers related to exchanging patient health information

- 1. D Experience greater challenges exchanging (e.g., sending/receiving) data across different vendor platforms
- 2. U We have to pay additional costs to send/receive data with outside organizations/hospital systems
- 3. U We had to develop customized interfaces in order to exchange (e.g., send/receive) data with outside organizations/hospital systems
- 4. Contractual constraints between healthcare providers and health vendors limit our ability to exchange data with providers using certain systems.

Information Blocking Practices

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.

25a. In what form(s) have you observed or experienced information blocking by Enterprise EHR vendor(s)?

	(1) Often/ Routinely	(2) Sometimes	(3) Never/ Rarely	(4) Don't Know
 Price – for example: 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) 				
 2. Contract language – for example: 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 				
 3. Artificial technical, process, or resource barriers – for example: Using artificial technical barriers to avoid granting third-parties access to data stored in the vendor's EHR system 				
 4. Refusal – for example: 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) 				
5. Other (please list):				

25b. To what extent have you observed the following stakeholders engaging in information blocking behaviors?

	(1) Often/ Routinely	(2) Sometimes	(3) Never/ Rarely	(4) Not Applicable (i.e., we have not tried to get information from this source)	(5) Don't Know
1. Developers of Certified Health IT (e.g., Enterprise EHR vendors)					
2.National Networks (e.g., CommonWell, eHealth Exchange)					
3.State, regional, and/or local health information exchange					

25c. In what form(s) have you observed or experienced information blocking by healthcare providers?

	(1) Often/ Routinely	(2) Sometimes	(3) Never/ Rarely	(4) Don't Know
 Artificial technical, process, or resource barriers – for example: 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) 				
 2. Refusal – for example: Refusing to exchange information with competing providers, hospitals, or health systems 				
 3. Strategic affiliations – for example: Promoting alternative, proprietary approaches to information exchange Exchanging only within referral network or with preferred referral partners 				
4. Other (please list):				

25d. To what extent have you observed healthcare providers engaging in information blocking behaviors?

1. Often/Routinely 2. Sometimes 3. Never/Rarely (go to 25f)

4. We have not tried to get information from this source (go to 25f) 5. Don't know (go to 25f)

25e. To what extent have you observed the following types of healthcare providers engaging in information blocking behaviors, as described in the question above?

	(1)	(2)	(3)	(4)	(5)
	Often/ Routinely	Sometimes	Never/ Rarely	Not Applicable (i.e., We have not tried to get information from this source)	Don't Know
1. Health Systems					
2. Independent Hospitals					
3. Independent physician or physician groups					
4. Other (please list):					

25f. If you have experienced practices that you believed constituted information blocking in the past year, how often did you report the information blocking to ONC/HHS using the Report Information Blocking Portal? https://www.healthit.gov/report-info-blocking

1. ☐ Often/Routinely 2. ☐ Sometimes 3. ☐ Never/F	Rarely
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4. Did not experience information blocking within the past year 5. Don't know

EHR System and IT Vendors

26a. Does your hospital use an EHR system that has been certified? Certified refers to meeting federal requirements per the Office of the National Coordinator for Health Information Technology (ONC). Certified EHRs are necessary to

they partic		Use; however, certified EHRs unsure, see if your system m	can be used by all hospitals rega eets the requirements here:	ardless of whether
1. TYes		2. 🗖 No	3. Don't know	
	s your hospital switche HR system.	ed to a 2015 certified EHR s	ystem? This refers to fully imple	menting the 2015
1. TYes		2. 🗖 No	3. 🗖 Don't know	
API, or da provided b	ta integrator to do eacl	h of the following activities. Example of a standards-based	pital uses a proprietary API, sta Note: Example of a proprietary A d API includes FHIR; Examples o	API includes one
27a. Does you telehealth		a into your EHR from third-	party software (e.g., patient mo	onitoring devices,
1. 🗖 Yes		2. 🗖 No (Go to 27c)	3. Don't know (Go	to 27c)
27b. If ye s 1.		andards-based API	3. Data integrator service	4. Don't know
	ır hospital provide data nealth system?	from your EHR to third-par	rty applications used by clinicia	ans at your
☐ Yes		□ No (Go to 27e)	Don't know (Go to	o 27e)
27d. If yes 1.		andards-based API	3. Data integrator service	4. Don't know
	ır hospital provide data at your hospital/health		our EHR to third-party applicati	-
27f. If yes 1.		andards-based API	3. Data integrator service	4. 🗖 Don't know
defined as largest inv a. All b. Ath c. Ath c. Ath d. Ce	s the system that is used restment. Please answer scripts nenahealth alea Health/ Prognosis	for the largest number of pati- based on vendor name rathe	adraMed I. Other (please s	ave made the single
f. Ep		fied are you with your prima	ary inpatient EMR/EHR system	b
a. U Very			d. Very dissatisfied	
_	newhat satisfied ewhat dissatisfied		e. Neither satisfied nor dissa	tisfied
any of the foll population main 1. Ana	owing uses? Sometime nagement, or switching E	s referred to as "bulk" export, EHR systems. Population health manag	-	s and reporting,

E	MR/EHR system? "Primary" is defi	ned as the system that is used for the l	d above) for your primary outpatient largest number of patients or the system d on vendor name rather than product.
	Yes, share single instance	0	
2.	Yes, but do not share the sin	gle instance/version	
3.	🗖 No		
4.	Do not know		
5.	🗖 NA		
		completing this survey. If you are no she reviewed your answers to this s 2. No	ot the CIO, or person responsible for survey?
R	espondent 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

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