

2019 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 new questions designed to capture interoperability and exchange, and provider burden associated with documentation and quality reporting. This information will provide important data on the state of interoperability in hospitals as well as provider burden associated with EHRs.

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

 Does your hospital currently have a computerized system which 	ch allows for:		
(Yes means it has completely replaced paper record for the function in all units where applicable.)	(1) Yes	(2) No	(3) Do not know
Electronic Clinical documentation			
a. Physician notes			
b. Nursing notes			
c. Problem lists			
d. Medication lists			
e. Discharge summaries			
f. Advanced directives (e.g., DNR)			
Results Viewing			
a. Radiology images			
b. Diagnostic test results (e.g.,EKG report, Echo report)			
c. Diagnostic test images (e.g., EKG tracing)			
d. Consultant reports			
e. Laboratory tests			
f. Radiology tests			
g. Consultation requests			
Computerized Provider Order Entry (Provider (e.g., MD, APN, NP) directly enters own orders that are trans	smitted electronically)	
a. Laboratory tests			
b. Radiology tests			
c. Medications			
d. Consultation requests			
e. Nursing orders			

	yes means it has co unction in all units w	ompletely replaced paper record for the here applicable.)	Yes	No		Do not know
D	Decision Support					
	a. Clinical guidelin	es (e.g.,Beta blockers post-MI, ASA in CAD)				
	b. Clinical reminde	ers (e.g., Pneumococcal vaccine)				
	c. Drug allergy ale	rts				
	d. Drug-drug intera	action alerts				
	e. Drug-lab interac	tion alerts				
	f. Drug dosing sup	oport (e.g., renal dose guidance)				
C	Other Functionalities					
		adio Frequency Identification (RFID) for dication Tracking				
	b. Bar coding or F management	Radio Frequency (RFID) for supply chain				
	c. Telehealth					
	d. Remote patient	monitoring				
		Prescribing Controlle	ed Substances			
2. I	ls your hospital enat	oled for electronic prescribing of controlled	d substances (EPCS	5)?		
	a. 🗖 Yes	b. \square No c. \square Do	not know	d. 🗖	NA	
		Patient Engag	gement			
3.		ceive <u>inpatient</u> care provided by your hos	oital able to do		(0)	(0)
		f the functionality has been "turned on" ar vailable to patients.)	nd is fully	(1) Yes	(2) No	(3) Do not know
á	a. View their health/	medical information online in your portal				
k	b. Download health	medical information from their medical record	from your portal			
C	c. Import their medic	cal records from other organizations into your	portal			
(d. Electronically tran	smit (send) health/medical information to a th	ird party from			
6	e. Request an amer	ndment to change/update their medical record	online			
f		member or caregiver to access health/medica ent (e.g., proxy access)	ll information on			
Ç	g. View their inpatie	nt clinical notes (e.g., discharge summary) in	their portal			
ł		ical information using applications (apps) cont ogramming interfaces (API) specifications in y				
i	i. Pav bills online			П	П	П

Note: Outpatient care refers to both hospital-based and 1. Yes (go to 4b)	satellite outpa	atient departm	ents/sites.	
2. No (skip to #5)				
4b. Is there more than one primary EMR/EHR system in us	e across you	r outpatient :	site(s)?	
1.				
2.				
4c. To what extent are patients who receive <u>outpatient</u> <u>care</u> provided by your hospital able to do the following: (Check "Yes" only if the functionality has been "turned on" and is fully implemented and available to patients)	(1) Yes, at <u>all</u> outpatient site(s)	(2) Yes, across some outpatient site(s)	(3) No, across none of the outpatient site(s)	(4) Do not know
View their health/medical information online in their portal				
Download health/medical information from their medical record from your portal				
Import their medical records from other organizations into your portal				
Electronically transmit (send) health/medical information to a third party from your portal				
Request an amendment to change/update their medical record online				
Designate family member or caregiver to access their health/medical information on behalf of the patient (e.g., proxy access)				
7. View their outpatient clinical notes (e.g., visit notes including consultation, progress, history and physical) in their portal				
8. Access their health/medical information using applications (apps) configured to meet the application programming interfaces (API) specifications in your EHR				
Submit patient-generated data (e.g., blood glucose, weight)				
10. Send/receive secure message with providers				
11. Pay bills online				
12. Request refills for prescriptions online				
13. Schedule appointments online				

4a. Does your hospital provide outpatient care to patients?

Provider Burden related to Reporting and Documentation

to public health agencies to meet (Please check <i>all</i> that apply)						
a. We do not know to which public health agencies our hospital should send the information to meet CMS reporting requirements						
b. Public health agencies lack the capacity (e.g., technical, staffing) to electronically receive the information						
c. \square We lack the capacity (e.g., technical, staffing) to electronically send the information						
d. ☐ Difficulty extracting releval	nt information	from EHR				
e. Interface-related issues (e	.g., costs, cor	mplexity) make it difficult	to send the information			
f. \square We use different vocabula	ry standards	than the public health ag	gency, making it difficult to sul	omit		
g.						
h. NA (e.g., not participating	in CMS Prom	oting Interoperability Pro	ogram)			
I. Have not experienced any		•	,			
6a. To what degree does your hospit such as chart abstraction) for eac			measures (versus using ma	nual processes		
Such as chart abstraction, for eac	ii oi tile iolio	wing programs:				
	(1)	(2)	(3)	(4)		
	Fully or primarily	Mix of automated and manual process	Fully or primarily manual	Do not know/NA		
	automated					
Physician-Specific electronic						
clinical quality measures (eCQMs) 2. Hospital-specific eCQMS		_				
2. Hospital-specific ecgivis						
6b. What barriers—if any—has your ho automated reporting? (Please check and 1. Lack IT staff needed to gene	// that apply)		n from manual to fully or pri	marily		
_	-					
2. LEHR does not possess capa	-	• •				
3. EHR data not mapping corre						
4. Poor EHR usability or design	•	o o	ate information			
5. Poor EHR data quality that re		al correction				
6. ☐ Difficulty extracting data from						
7. U Problems with clinical workflo			t information being collected			
8. Changing requirements make						
9. Difficulty aggregating data from	om multiple E	HR systems				
10. Limited funds						
11. Other						
12. 🗖 NA						
13. Already generate measures	using fully or	primarily automated prod	cesses			
14. Do not know		·				
7. Does your EHR system have the cap						
"bulk" export, this functionality enables a. a. Yes	-	_	e. Do not know	systems.		
a. 🗀 165	D.	INO (. L DO HOLKHOW			

		s from your EHR vendor that re easures typically use EHR audit l	
1. Yes (go to	8b) 2. No (go to 9)	3. Do not know (go to 9)	4. NA (go to 9)
	8b. How are these data used	1?	
	1. Uendor product in	nprovement and troubleshooting	
	2.	in need of training and support	
	3. Provider burden r	eduction initiatives	
	4. Performance/effic	ciency monitoring of clinicians	
	5.	mprove clinical workflow	
	6.		
	Participation in health	information exchange netwo	<u>orks</u>
Please indicate your leve health information organ	l of participation in a state, re ization (HIO). <i>Note: This does</i>	egional, and/or local health infor not refer to a private, enterprise ne	mation exchange (HIE) or etwork.
a. ☐ HIE/HIO is op HIE/HIO	erational in my area and we are	e participating and actively exchan	ging data in at least one
b. \square HIE/HIO is op	erational in my area, but we ar	e not participating	
c. HIE/HIO is no	t operational in my area		
d. Do not know			
	national health information extional exchange)? Check all	schange networks does your hos that apply.	spital currently actively
National networks that en	able record location and excha	nge <u>across</u> users of different EHR:	s vendors
a. \square CommonWell	Health Alliance		
b. \square e-Health Exch	nange (operated by Sequoia Pro	oject)	
c. \square Strategic Hea	Ith Information Exchange Colla	borative (SHIEC)/Patient Centered	d Data Home (PCDH)
d. \square Carequality (r	network-to-network trust/govern	ance framework operated by Sequ	uoia Project)
Health Information ser e. ☐ DirectTrust	vice providers (HISPs) support	ting messaging via DIRECT protoc	ol
	pased network that enables rec pic's Care Everywhere)	ord location and exchange within t	he EHR vendor's network of
g. \square Other nationa	I health information exchange r	network	
h. 🔲 Do not particip	oate in any national health infor	mation exchange networks (either	via vendor or directly)
i. Do not know			
<u>(</u>	Querying information from	outside providers or source	<u>s</u>
		health information (e.g., medication or hospital system? Note: Ho	
1. ☐ Yes (go to b) 2.	No, but have the capability (go to 12)	3. ☐ No, do not have capability (go to 12)	4. ☐ Do not know (go to 12)

Electronic Methods	1. Often	2. Sometimes	3. Rarely	4. Never	5. Do not know/NA
Provider portals that allow you to view records in another organizations' EHR system					
b. Interface connection between EHR systems (e.g., HL7 interface)					
c. Access to other organizations' EHR system using login credentials					
I. Regional, state, or local health information exchange organization (HIE/HIO). NOT local proprietary, enterprise network					
e. EHR vendor-based network that enables record location within the network (e.g., Care Everywhere)					
EHR connection to national networks that enable record location across EHRs in different networks (e.g., Commonwell, e-health exchange, Carequality).					
Other electronic					
across each row below.					
Methods without intermediaries	1. Often	2.	3. Rarely	4. Never	5.
Methods without intermediaries	Often	Sometimes	Rarely	Never	Do not know/NA
Methods without intermediaries a. Mail or fax	Often	Sometimes	Rarely	Never	Do not know/NA
Methods without intermediaries a. Mail or fax b. eFax using EHR c. Provider portals that allow outside organization to	Often	Sometimes	Rarely	Never	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.,	Often	Sometimes	Rarely	Never	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	Often	Sometimes	Rarely	Never	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)	Often	Sometimes	Rarely	Never	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	Often	Sometimes	Rarely	Never	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 g. HISPs that enable messaging via DIRECT protocol	Often	Sometimes	Rarely	Never	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 g. HISPs that enable messaging via DIRECT protocol h. Regional, state, or local health information exchange organization (HIE/HIO). NOT local proprietary, enterprise network	Often	Sometimes	Rarely Rarely	Never	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 g. HISPs that enable messaging via DIRECT protocol h. Regional, state, or local health information exchange organization (HIE/HIO). NOT local proprietary, enterprise network i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)	Often	Sometimes	Rarely Rarely	Never	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 g. HISPs that enable messaging via DIRECT protocol h. Regional, state, or local health information exchange organization (HIE/HIO). NOT local proprietary, enterprise network i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care	Often	Sometimes D D D Sometimes 2 Sometimes	Rarely Rarely	Never	Do not know/NA

11b. How often are the following electronic methods used to <u>search for (e.g., query or auto-query) and view</u> patient health information from <u>sources outside your organization or hospital system</u>? *Please indicate how often each*

method is used across each row below.

Receive and Integrate patient health information

13. 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 across 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 know/NA
g. HISPs that enable messaging via DIRECT protocol					
h. Regional, state, or local health information exchange organization (HIE/HIO). NOT local proprietary, enterprise network					
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 different EHR vendors (e.g., Commonwell, e-health exchange, Carequality)					
k. Other					
a. □ Yes, routinely b. □ Yes, but not route. Sa. When a patient visits your Emergency Department (patient's primary care physician? 1. □ Yes, are electronic notifications provided to	refers to to atically addindexed, of atinely nic Notin ED), do y	ne ability to add ding data withodiscrete data the c. No fications ou routinely pone capability 4	d or incorporate out provider reat can be integrated on the can be integrated on the can be incorporated on the can be incorporat	e the informatiview). This of grated/included Do not know price notification.	e. NA Ition to the could be led in EHR. e. NA Ition to the
1. Inside the system 2.] Outside	the System	3. 🔲 [Do not know	
Availability and usa	ge of da	nta that is exc	hanged		
 When treating a patient that was seen by a provider of at your hospital <u>routinely have</u> necessary clinical information of the providers or sources when treating a patient that was 	ormation	available <u>elect</u>	ronically (no	t e-Fax) fron	
a. 🛘 Yes b. 🗖] No		с. 🔲 [Do not know	

17				y do providers at your hospital <u>us</u> roviders or sources when treating	e patient health information received <u>electronically (not e-Fax)</u> a patient?
		1.	☐ Often	n 2. Sometimes 3. Ra	arely 4. Never 5. Do not know
			17k	b. If rarely or never used, please	ndicate the reason(s) why. (Please check all that apply)
			1.		ole when needed (e.g., not timely)
			2.	☐ Information is not trusted	
			3.	☐ Information available but not	vithin EHR
			4.	☐ Information available within E	HR but not part of clinicians' workflow
			5.	Information not presented in a unnecessary information)	useful format (e.g., too much information, redundant, or
			6.	☐ Information that is specific an	d relevant is hard to find
			7.	External data uses different s making it difficult to use	andards (e.g., vocabulary and/or semantic representation differs)
			8.	Other	
				Barriers to e	exchange and interoperability
18	rec	eiv		query) patient health information	experienced when trying to <u>electronically</u> (not eFax) send, to/from other organizations or hospital systems? (Please
Ra	rrior	e ro	lated to al	lectronically <u>sending</u> patient hea	th information
Da	a.	_			Illy send patient health information to outside providers or other
	a.	_	sources	ne technical capability to electronica	any <u>serio</u> patient health information to outside providers of other
	b.			we would like to electronically send system with capability to receive the	patient health information to, do <u>not</u> have an EHR or other e information
	C.			we would like to electronically send capability to receive the information	patient health information to <u>have</u> an EHR; however, it lacks the
	d.		Difficult to	locate the address of the provider	to send the information (e.g., lack of provider directory)
	e.		Many recip	ipients of our electronic care summa	aries (e.g., CCDA) report that the information is not useful
	f.		Cumberso	ome workflow to send (not eFax) the	e information from our EHR system
	g.		-	plexity of state and federal privacy a issible to electronically exchange page 1	nd security regulations makes it difficult for us to determine whether atient health information
Ва	ırrier	s re	lated to el	lectronically receiving patient he	alth information
	h.	_			Ily <u>receive</u> patient health information from outside providers or other
	i.		Difficult to	match or identify the correct patier	t between systems
	j.		There are	providers whom we share patients	with that don't typically exchange patient data with us
Ot	her h	arr	iers relate	ed to exchanging patient health in	formation
٠.	k.			= = :	.g., sending/receiving) data across different vendor platforms
	l.	_			ive data with outside organizations/hospital systems
	m.	_	We had to		order to exchange (e.g., send/receive) data with outside

EHR System and IT Vendors

19.	Office of the National Coordinator for Hobjectives of Meaningful Use; however	lealth Information Techr , certified EHRs can be	ified? Certified refers to meeting federal requirements per the hology (ONC). Certified EHRs are necessary to meet the used by all hospitals regardless of whether they participate in that is here: https://chpl.healthit.gov/#/search
	a. Yes	b. 🗖 No	c. Do not know
20.		is used for the largest r	/EHR system? (Please check only one) number of patients or the system in which you have made lor name rather than product.
	a. Allscripts g.	☐ Harris Healthcare/	'QuadraMed I. Other (please specify):
	b. Athenahealth h.c. Azalea Health/ Prognosis i.	☐ McKesson ☐ MEDHOST	m. Would prefer not to disclose EHR vendor
	<u> </u>	☐ Meditech ☐ Self-developed	
21.	Overall, how satisfied or dissatisfie	ed are you with your <u>p</u> o	rimary inpatient EMR/EHR system?
	a.		d. Very dissatisfiede. Neither satisfied nor dissatisfied
22.	When does your hospital expect to implementing the 2015 certified EHR		to a 2015 certified EHR system? This refers to fully
	a. Completed switch to 2015 cer	rtified EHR system	
	b. Implementation of 2015 certifi	ed EHR system is in pro	ogress
	c. Switch to 2015 certified EHR	system is planned	
	d. Switch to 2015 certified EHR	system is not planned	
23.	What changes, if any, are you plant (Please check <i>all</i> that apply)	ning for your <u>primary i</u>	inpatient EMR/EHR system within the next 18 months?
	a. Initial deployment		
	b. Uendor switch		
	c. Change from enterprise archi	tecture to best-of-breed	
	d. Change from best-of-breed to	enterprise architecture	
	e. Doptimizing functionality of new		
	f. Significant additional function	alities	
	g. Do not know		
	h. $\ \square$ No major changes planned		

24a.	EN	MR/EHR system? "Pri	mary" is defined as the system	that is used for the l	d above) for your <u>primary outpatient</u> argest number of patients or the system ed on vendor name rather than product.
	1.	☐ Yes share single	instance (skip to 25)		
	1. 2.	_	hare the single instance/version	n (proceed to 24h)	
	3.	No (proceed to 2	· ·	11 (proceed to 245)	
	3. 4.	Do not know (ski	•		
	4 . 5.	□ NA (skip to 25)	p to 23)		
24b	. Is pa	atient health informat			cally available between your primary clinicians across care settings?
	1.	☐ Yes	2. N o	3. Do not	t know
25.	Wha	t are your primary ch he Promoting Interop	allenge(s) in implementing a perability (PI) program? (Plea	nd using an EMR/E ase check <i>all</i> that app	HR system that meets requirements
	a.	Upfront capital c	osts/lack of access to capital to	install systems	
	b.	Ongoing cost of	maintaining and upgrading sys	tems	
	C.	Obtaining physic			
	d.	Obtaining other	•		
	e.	_	security or liability for privacy b	reaches	
	f.	_	ut certification requirements		
	g.	☐ Limited vendor c	·		
	h.	_	e IT personnel in hospital to sup	oport implementation	n/maintenance
	i.	_	lexity of meeting all PI program		
	j.	_	of other regulatory requiremen	•	
	,. k.			•	
	κ.	Curior (specify)			
26.			ration in completing this surv as he or she reviewed your a		he CIO, or person responsible for vey?
			a. 🔲 Yes	b. 🗖 No	
	Re	espondent Name (ple	ease print) Circle CIO or Pr	int Title if other	(Area Code) Telephone #
	_		Name of OIO (% d) = d		E 'I A I I
	Dа	te of Completion	Name of CIO (if other the	an respondent)	Email Address

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

THANK YOU.