

Advancing Health in America

# AHA Annual Survey Information Technology Supplement™

2017 File Layout





The 2017 AHA Annual Survey Information Technology Supplement™ database contains facility-level responses to a survey administered by AHA in partnership with the Office of the National Coordinator (ONC). The purpose of the survey is to measure the adoption and implementation of the United States Department of Health and Human Services <u>Promoting Interoperability</u> initiative. The main categories on the survey are computerized system capabilities; patient engagement; regulatory burden; querying information from outside providers or sources; interoperability barriers; and EHR systems and IT vendors.

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### 2017 AHA Annual Survey Information Technology Supplement File Layout

Health Forum, LLC

Note: Key FOLLOWS each Question

set

Field Description	Database Field Name
AHA Identification Number	ID
Medicare Provider Number	MCRNUM
Hospital name	MNAME
Street Address	MLOCADDR
City	MLOCCITY
State	MSTATE
ZIP code	MLOCZIP
Total facility beds set up and staffed	BDTOT
Control/ownership	MCNTRL

Кеу	
Government, nonfederal	Government, federal
12 = State	41 =Air Force
13 = County	42 = Army
14 = City	43 = Navy
15 = City-county	44 = Public Health Service other than 47
16 = Hospital district or authority	45 = Veterans Affairs
	46 = Federal other than 41-45, 47- 48
Nongovernment, not-for-profit	47 = Public Health Service Indian Service
21 = Church operated	48 = Department of Justice
23 = Other	
Investor-owned, for-profit	
31 = Individual	
32 = Partnership	
33 = Corporation	

### **Field Description**

### **Database Field Name**

Primary service code

**MSERV** 

### Key

- 10 = General medical and surgical
- 11 = Hospital unit of an institution (prison hospital, college infirmary, etc.)
- 12 = Hospital unit within a facility for persons with intellectual disabilities
- 13 = Surgical
- 22 = Psychiatric
- 33 = Tuberculosis and other respiratory diseases
- 41 = Cancer
- 42 = Heart
- 44 = Obstetrics and gynecology
- 45 = Eye, ear, nose and throat
- 46 = Rehabilitation
- 47 = Orthopedic
- 48 = Chronic disease
- 49 = Other specialty
- 50 = Children's general
- 51 = Children's hospital unit of an institution
- 52 = Children's psychiatric
- 53 = Children's tuberculosis and other respiratory diseases
- 55 = Children's eye, ear, nose and throat
- 56 = Children's rehabilitation
- 57 = Children's orthopedic
- 58 = Children's chronic disease
- 59 = Children's other specialty
- 62 = Intellectual disabilities
- 80 = Acute Long-Term Care
- 82 = Alcoholism and other chemical dependency
- 90 = Children's acute long-term

1. Does your hospital currently have a computerized system which allows for:			
	Survey Question Number	Database Field Name	Expanded Field Name
Electronic Clinical Documentation			
a. Physician notes	Q1_A1	CSEDPN	Physician notes (doc.)
b. Nursing notes	Q1_B1	CSEDNA	Nursing notes (doc.)
c. Problem lists	Q1_C1	CSEDPL	Problem lists (doc.)
d. Medication lists	Q1_D1	CSEDML	Medication lists (doc.)
e. Discharge summaries	Q1_E1	CSEDDS	Discharge summaries (doc.)
f. Advanced directives (e.g. DNR)	Q1_F1	CSEDAD	Advanced directives (doc.)
Results viewing			
a. Radiology images	Q1_A2	CSRVRI	Radiology images (view)
b. Diagnostic test results (e.g. EKG report, Echo report)	Q1_B2	CSRVDR	Diagnostic test results (view)
c. Diagnostic test images (e.g. EKG tracing)	Q1_C2	CSRVDI	Diagnostic test images (view)
d. Consultant reports	Q1_D2	CSRVCR	Consultant reports (view)
e. Laboratory tests	Q1_E2	CSRVLR	Lab tests (view)
f. Radiology tests	Q1_F2	CSRVRR	Radiology tests (view)
g. Consultation requests	Q1_G2	CSRVCQ	Consultation requests (view)
Computerized provider order entry (Provider (e.g., MD, APN, NP) directly			
enters own orders that are transmitted electronically)			
a. Laboratory tests	Q1_A3	CSCPLT	Laboratory tests
b. Radiology tests	Q1_B3	CSCPRT	Radiology tests
c. Medications	Q1_C3	CSCPM	Medications
d. Consultation requests	Q1_D3	CSCPCR	Consultation requests
e. Nursing orders	Q1_E3	CSCPNO	Nursing orders
Decision support			
a. Clinical guidelines (e.g. Beta blockers post-MI, ASA in CAD)	Q1_A4	CSDSCG	Clinical guidelines
b. Clinical reminders (e.g. pneumovax)	Q1_B4	CSDSCR	Clinical reminders
c. Drug allergy alerts	Q1_C4	CSDSDA	Drug allergy alerts
d. Drug-drug interaction alerts	Q1_D4	CSDSDD	Drug-drug interaction alerts
e. Drug-Lab interaction alerts	Q1_E4	CSDSDL	Drug-Lab interaction alerts
f. Drug dosing support (e.g. renal dose guidance)	Q1_F4	CSDSDS	Drug dosing support
Bar Coding or Radio Frequency Identification (RFID) for Closed-loop			
Medication Tracking			
a. Medication administration	Q1_A5	CSBCMA	Medication administration
b. Patient verification	Q1_B5	CSBCPTV	Patient verification
c. Caregiver verification	Q1_C5	CSBCCV	Caregiver verification
d. Pharmacy verification	Q1_D5	CSBCPV	Pharmacy verification
Other functionalities			
a. Bar coding or Radio Frequency (RFID) for supply chain management	Q1_A6	CSOFRF	Bar coding or Radio frequency (RFID)
b. Telehealth	Q1_B6	CSOFT	Telehealth
c. Remote patient monitoring	Q1_C6	CSRPM	Remote patient monitoring

### Key

- 1 = Fully implemented across all units
- 2 = Partially implemented
- 3 = Not implemented

### **Prescribing Controlled Substances**

2. How do designated staff in your hospital check your state's Prescription Drug Monitoring Program (PDMP)

uutu.			
	Survey Question Number	<b>Database Field Name</b>	Expanded Field Name
How do staff check state's Prescription Drug Monitoring Program (PDMD)	Q2	PDMPCHK	Checking state's Prescription Drug Monitoring Program (PDMD)

### Key

- 1 = Within hospital's EHR systems
- 2 = Outside of hospital's EHR systems (e.g. PDMP portal or secure website)
- 3 = Do not know
- 4 = NA

Patient Engagement			
3. Are patients treated in your hospital able to do the following:			
	<b>Survey Question Number</b>	Database Field Name	Expanded Field Name
a. View their health/medical information online	Q3_A	PEFVI	View their health/medical information online
b. Download information from their health/medical record	Q3_B	PEFDI	Download information from their health/medical record
c. Import their records from other organizations into their record in your EHR patient portal	Q3_C	PEFIR	Import records from other organizations into their record in your EHR patient portal
d. Electronically transmit (send) transmission of care/referral summaries to a third party	Q3_D	PEFRS	Electronically transmit (send) transmission of care/referral summaries to a third party
e. Request an amendment to change/update their health/medical record	Q3_E	PEFRA	Request an amendment to change/update their health/medical record
f. Request refills for prescriptions online	Q3_F	PEFRP	Request refills for prescriptions online
g. Schedule appointments online	Q3_G	PEFSA	Schedule appointments online
h. Pay bills online	Q3_H	PEFPB	Pay bills online
i. Submit patient-generated data (e.g. blood, glucose, weight)	Q3_I	PEFSD	Submit patient-generated data
j. Secure messaging with providers	Q3_J	PEFSM	Secure messaging with providers
k. Designate family member or caregiver to access information on behalf of			
the patient (e.g., proxy access)	Q3_K	PEFPROX	Proxy access
I. Access their health information using any applications configured to meet the application programming interfaces (API) specifications in the EHR	Q3_L	PEFAPI	Access health information using applications configured to meet the API specifications in the EHR

Кеу
1 = Yes
2 = No
3 = Do not know

4. Approximately what percentage of patients treated in your hospital during calendar year 2017 have activated their access to your patient portal?

	Survey Question Number	Database Field Name	Expanded Field Name
Percentage of patients treated in hospital during calendar year 2017 who activated access to patient portal	Q4	ACTPRTL	Percentage of patients treated in hospital during calendar year 2017 who activated access to patient portal
Key			
1 = None			
2 = Greater than 0%, but less than 10%			
3 = Greater than or equal to 10%, but less than 25%			
4 = Greater than or equal to 25%, but less than 50%			

### Provider Burden Related to Reporting Data to Public Health and Federal Agencies

5 = Greater than or equal to 50%, but less than 75% 6 = Greater than or equal to 75%, up to and including 100%

7 = Do not know

5. What are some of the challenges your hospital has experienced when trying to submit health information to public health agencies to meet meaningful use requirements? (check all that apply)

	Survey Question Number	Database Field Name	Expanded Field Name
a. We do not know to which public health agencies our hospital should send the information to meet meaningful use requirements	Q5_A	CHPHDNK	We do not know to which public health agencies our hospital should send the information to meet meaningful use requirements
b. Public health agencies lack the capacity to electronically receive the information	Q5_B	CHPHNC	Public health agencies lack the capacity to electronically receive the information
c. We use different vocabulary standards than the public health agency, making it difficult to exhange	Q5_C	CHPHDV	We use different vocabulary standards than the public health agency, making it difficult to exhange
d. Other - challenges	Q5_D	СНРНОТН	Other - challenges
Other description - challenges	Q5_D_OTH	CHPHOTH_DESC	Other description - challenges
e. NA - Have not experienced any major challenges	Q5_E	CHPHNA	NA - Have not experienced any major challenges

### Key 1 = Yes

## 6. To what degree does your hospital use automated EHR generated measures (versus using manual processes such as chart abstraction) for each of the following programs?

	Survey Question Number	Database Field Name	Expanded Field Name
a. Medicare inpatient quality reporting	Q6_A	AGMIQR	Medicare inpatient quality reporting
b. Physician-specific electronic clinical quality measures (eCQMs)	Q6_B	AGMPCQM	Physician-specific electronic clinical quality measures (eCQMs)
c. Hospital-specific (eCQMS)	Q6_C	AGMHCQM	Hospital-specific (eCQMS)

### Key

- 1 = Fully or primarily automated
- 2 = Mix of automated and manual process
- 3 = Fully or primarily manual
- 4 = Do not know/NA

## 7. What barriers - if any - has your hospital experienced in the transition from manual to fully or primarily automated reporting? (check all that apply)

automated reporting: (check an that appry)	Survey Question Number	Database Field Name	Expanded Field Name
a. Lack of IT staff needed to generate reports	Q7_A		
ar address in stain receded to generate reports	~. ⊒ .	BARIT	Lack of IT staff needed to generate reports
b. EHR does not possess capability to automatically generate measures	Q7_B	BARCAP	EHR does not possess capability to automatically generate measures
c. EHR data not mapping correctly, leading to missing or innaccurate information	Q7_C	BARMAP	EHR data not mapping correctly, leading to missing or innaccurate information
d. Poor EHR usability or design issues, leading to missing or inaccurate information	Q7_D	BARDES	Poor EHR usability or design issues, leading to missing or inaccurate information
e. Poor EHR data quality that requires manual correction	Q7_E	BARQA	Poor EHR data quality that requires manual correction
f. Difficulty extracting data from EHR	Q7_F	BAREXT	Difficulty extracting data from EHR
g. Problems with clinical workflow leading to missing data or incorrect information being collected	Q7_G	BARWRKFL	Problems with clinical workflow leading to missing data or incorrect information being collected
h. Other	Q7_H	BAROTH	Other - barriers
Other description - barriers	Q7_H_OTH	BAROTH_DESC	Other description - barriers
i. NA (e.g. generate measures using fully or primarily automated processes)	Q7_I	BARNA	NA (e.g. generate measures using fully or primarily automated processes)
j. Do not know - barriers	Q7_J	BARDNK	Do not know - barriers

### Key

1 = Yes

### 8. Does your EHR system have the capability to export multiple records from its system?

	Julycy Question Humber	Database Field Hairie	Expanded Field Name
EHR system able to export multiple records from system	Q8	EXPMREC	EHR system able to export multiple records from system
Кеу	]		
1 = Yes			
2 = No			
3 = Do not know			
9a. Does your hospital use your EHR or other IT system data (e.g., log aud	lit data) to track the amount of time o	clinicians spend completion	ng documentation?
u feur dan en de la	Survey Question Number	Database Field Name	Expanded Field Name
Use of EHR or other IT systems to track time clinicians spend completing	000	TRKDOC	Use of EHR or other IT systems to track time clinicians spend
documentation	Q9a	TRRDUC	completing documentation
Key			
1 = Yes			
2 = No			
3 = Do not know			
4 = NA			
9b. If yes, how are these data used (e.g. monitor burden reduction initiati			
	Survey Question Number	Database Field Name	Expanded Field Name
EHR or other IT systems used to track time clinicians spend completing	001	TRUBOCUES	EHR or other IT systems used to track time clinicians spend
documentation - data uses	Q9b	TRKDOCUSE	completing documentation - data uses
Sending patient health information			
10. When a patient transitions to another care setting organization outside does your hospital use the following methods to SEND a summary of care			
	Survey Question Number	Database Field Name	Expanded Field Name

**Survey Question Number** 

Database Field Name Expanded Field Name

Contact us at 866-375-3633 or ahadatainfo@aha.org

MAILSND

**EFAXSND** 

PORTSND

INTCONSND

DIRACCSND

**OTHNISND** 

OTHNISND\_DESC

Mail or fax (send)

(send)

eFax using EHR (send)

Provider portal for view only access to EHR system (send) Interface connection between EHR systems (e.g. HL7 interface)

Direct access to EHRs (via remote or terminal access) (send)

Other description - methods without intermediaries (send)

Other methods without intermediaries (send)

Q10\_A

Q10\_B

Q10\_C

Q10\_D

Q10\_E

Q10\_F

Q10\_F\_OTH

a. Mail or faxb. eFax using EHR

Other description

c. Provider portal for view only access to EHR system

e. Direct access to EHRs (via remote or terminal access)

f. Other methods without intermediaries

d. Interface connection between EHR systems (e.g. HL7 interface)

Methods with intermediaries			Methods with intermediaries
g. Standalone HISP or HISP provded by a third party that enables secure			Standalone HISP or HISP provded by a third party that enables
messaging (such as DIRECT)	Q10_G	HISPSND	secure messaging (such as DIRECT) (send)
h. Community (regional, state, or local) health information exchange			Community (regional, state, or local) health information
organization (HIO).	Q10_H	HIOSND	exchange organization (HIO).
i. Single EHR vendor network (use your EHR vendor's network that enables			Single EHR vendor network (use your EHR vendor's network that enables connection to vendor's other users such as Epic's
connection to vendor's other users such as Epic's Care Everywhere)	Q10_I	SEHRSND	Care Everywhere) (send)
j. Multi-EHR vendor networks, like CommonWell Health Alliance	Q10_J	MEHRSND	Multi-EHR vendor networks, like CommonWell Health Alliance
k. e-Health exchange	Q10_K	XCHSND	e-Health exchange (send)
I. Other methods with intermediaries	Q10_L	OTHISND	Other methods with intermediaries (send)
Other description	Q10_L_OTH	OTHISND_DESC	Other description - methods with intermediaries (send)

### Key

- 1 = Often
- 2 = Sometimes
- 3 = Rarely
- 4 = Never
- 5 = Do not know/NA

## 11. When a patient transitions to another care setting or organization, to what extent does your hospital electronically send (NOT eFAX) a summary of care record in a structured format (e.g. CCDA) to providers with whom you share patients?

Survey Question Number	Database Field Name	Expanded Field Name
Q11_A1	SFHOSNS	Other hospitals outside system (send)
Q11_A2	SFHOSDNK	Other hospitals outside system (DNK)
O11 B1	SFAOSNS	Ambulatory outside system (send)
Q11_B2	SFAOSDNK	Ambulatory outside system (DNK)
Q11_C1	SFLTCFS	Long-term and Post-Acute Care Facilities (send)
Q11_C2	SFLTCFDNK	Long-term and Post-Acute Care Facilities (DNK)
Q11_D1	SFBHFS	Behavioral Health Facilities (send)
Q11_D2	SFBHFDNK	Behavioral Health Facilities (DNK)
	Q11_A1 Q11_A2 Q11_B1 Q11_B2 Q11_C1 Q11_C2 Q11_D1	Q11_A1       SFHOSNS         Q11_A2       SFHOSDNK         Q11_B1       SFAOSNS         Q11_B2       SFAOSDNK         Q11_C1       SFLTCFS         Q11_C2       SFLTCFDNK         Q11_D1       SFBHFS

### **Key for Send**

- 1 = Most/All
- 2 = Some
- 3 = Few/None

### Key for Do Not know/NA

1 = Yes

#### Querying information from outside providers or sources

12. Do providers at your hospital query electronically for patients' health information (e.g. medications, outside encounters) from sources outside your organization or hospital system?

Providers able to query electronically for a patient's health information from sources outside organization or system

Survey Question Number

Database Field Name

Expanded Field Name

Providers able to query electronically for a patient health info

Q12

EQPHIOS

from sources outside

### Key

- 1 = Yes
- 2 = No, but do have the capability
- 3 = Do not know
- 4 = No, don't have capability

### Receive and integrate patient health information

13. When a patient transitions from another care setting organization outside your hospital system, how often does your hospital use the following methods to RECEIVE a summary of care record?

ile record:		
<b>Survey Question Number</b>	<b>Database Field Name</b>	Expanded Field Name
Q13_A	MAILRCV	Mail or fax (receive)
Q13_B	EFAXRCV	eFax using EHR (receive)
Q13_C		
	PORTRCV	Provider portal for view only access to EHR system (receive)
Q13_D		Interface connection between EHR systems (e.g. HL7 interface)
	INTCONRCV	(receive)
Q13_E		
	DIRACCRCV	Direct access to EHRs (via remote or terminal access) (receive)
Q13_F	OTHNIRCV	Other methods without intermediaries (receive)
Q13_F_OTH		
	OTHNIRCV_DESC	Other description - methods without intermediaries (receive)
		Methods with intermediaries
Q13 G		Standalone HISP or HISP provded by a third party that enables
· <del>-</del>	HISPRCV	secure messaging (such as DIRECT) (receive)
Q13_H		Community (regional, state, or local) health information
_	HIORCV	exchange organization (HIO) (receive)
	Survey Question Number  Q13_A Q13_B Q13_C  Q13_D  Q13_E  Q13_F Q13_F Q13_F_OTH	Survey Question Number  Q13_A Q13_B Q13_C Q13_C  Q13_D  INTCONRCV  Q13_E  Q13_F Q13_F Q13_F,OTH  Q13_G  Q13_G  Q13_G  HISPRCV  Database Field Name  MAILRCV  PORTRCV  PORTRCV  PORTRCV  OTHNICONRCV  OTHNICOV  OTHNICOV  OTHNICOV  OTHNICOV  HISPRCV

i. Single EHR vendor network (proprietary network that enables connection to vendor's other users)	Q13_I	SEHRRCV	Single EHR vendor network (proprietary network that enables connection to vendor's other users) (receive)
j. Multi-EHR vendor networks, like CommonWell Health Alliance	Q13_J		Multi-EHR vendor networks, like CommonWell Health Alliance
k. e-Health exchange	Q13_K	MEHRRCV	(receive)
· ·	_	XCHRCV	e-Health exchange (receive)
L. Other methods with intermediaries	Q13_L	OTHIRCV	Other methods with intermediaries (receive)
Other description	Q13_L_OTH	OTHERS A DESC	
		OTHIRCV_DESC	Other description - methods with intermediaries (receive)

### Key

- 1 = Often
- 2 = Sometimes
- 3 = Rarely
- 4 = Never
- 5 = Do not know/NA

14. Does your EHR integrate the information contained in summary of care records received electronically (not eFax) without the need for manual entry?			
	Survey Question Number	Database Field Name	Expanded Field Name
Integration of electronically received summary of care records	014	SOCINT	Integration of electronically received summary of care records

### Key

- 1 = Yes, routinely
- 2 = Yes, but not routinely
- 3 = No
- 4 = Do not know
- 5 = NA

### Availability and usage of data that is exchanged

15. Do providers at your hospital routinely have necessary clinical information available electronically (not e-Fax) from outside providers or sources when treating a patient that was seen by another healthcare provider/setting?

	Survey Question Number	Database Field Name	Expanded Field Name
Clinical information available alectuanically frame autoide manuface/secures			Clinical information available electronically from outside
Clinical information available electronically from outside providers/sources	Q15	CIAOUT	providers

### Key

- 1 = Yes
- 2 = No
- 3 = Do not know

### 16a. 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?

	Survey Question Number	Database Field Name	Expanded Field Name
Use electronic patient health information from outside providers	Q16_A		Use electronic patient health information from outside
		PHIOUT	providers

### Key

- 1 = Often
- 2 = Sometimes
- 3 = Rarely
- 4 = Never
- 5 = Don't know

### 16b. If rarely or never used, please indicate the reason(s) why. Check all that apply.

	Survey Question Number	Database Field Name	Expanded Field Name
1. Information not always available when needed	Q16_B1	PHI_INFONA	Not available when needed (PHI)
2. Do not trust accuracy of information	Q16_B2	PHI_NOTRUST	Do not trust accuracy (PHI)
3. Information is available but not integrated into EHR	Q16_B3	PHI_DIFF	Not integrated (PHI)
4. Information available and integrated into EHR but not part of clinicians'			
workflow	Q16_B4	PHI_NOVIEW	Not part of clinicians' workflow (PHI)
5. Information not presented in a useful format (e.g. too much information,			
redundant, or unnecessary information)	Q16_B5	PHI_FORMAT	Format not useful (PHI)
6. Information that is specific and relevant is hard to find	Q16_B6	PHI_CNTFND	Hard to find relevant information (PHI)
7. Vocabulary and/or semantic representation differences limit use	Q16_B7	PHI_VOCAB	Vocabulary differences limit use (PHI)
8. Other	Q16_B8	PHI_OTH	Other (PHI)
Other description	Q16_B8_OTH	PHI_OTH_DESC	Other (PHI) description
	42		Const. (Conf. 2000). p. 100

### Key

1 = Yes

## 17. Which of the following health information networks does your hospital participate in (either directly or through your EHR or HIE vendor)?

	Survey Question Number	Database Field Name	Expanded Field Name
a. CommonWell Health Alliance	Q17_A	CWHA	CommonWell Health Alliance
b. Digital Bridge	Q17_B	DGBDG	Digital Bridge
c. DirectTrust	Q17_C	DRTRST	DirectTrust
d. e-Health Exchange	Q17_D	HLTHXCH	e-Health Exchange
e. Surescripts	Q17_E	SRSCRPT	Surescripts
f. Strategic Health Information Exchange Collaborative (SHIEC)/Patient			Strategic Health Information Exchange Collaborative
Centered Data Home (PCDH)	Q17_F	SHIEC	(SHIEC)/Patient Centered Data Home (PCDH)
g. Other	Q17_G	OTHNET	Other health information network
Other description	Q17_G_OTH	OTHNET_DESC	Other health information network description

Do not participate in any networks (either via vendor or

h. Do not participate in any networks (either via vendor or directly) Q17\_H NETNO directly)

i. Do not know Q17\_I NETDNK Do not know (health information network)

Key

1 = Yes

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

Survey Question Number Database Field Name Expanded Field Name
Q18 RHIO\_LVL1 Evel of HIE or HIO participation

Level of HIE or HIO participation

#### Key

- 1 = HIE/HIO is operational in my area and we are participating and actively exchanging data in at least one HIE/RHIO
- 2 = HIE/HIO is operational in my area but we are not participating
- 3 = HIE/HIO is not operational in my area
- 4 = Do not know

### Barriers to exchange and interoperability

19. Which of the following issues has your hospital experienced when trying to electronically (not eFax) send, receive, or find (query) patient health information to/from other care settings or organizations? (Check all that apply)

Barriers related to electronically sending patient health information			
	Survey Question Number	Database Field Name	Expanded Field Name
<ul><li>a. We lack the technical capability to electronically send patient health information to outside providers or other sources</li><li>b. Providers we would like to electronically send patient health information</li></ul>	Q19_A	ESPHI	No technical capability to electronically send to outside providers
to do not have an EHR or other electronic system with capability to receive the information c. Providers we would like to electronically send patient health information	Q19_B	NPEHR	Providers do not have EHR
to have an EHR; however, it lacks the technical capability to receive the information	Q19_C	PEHRNRI	Providers have EHR but lacks technical capability to receive information
<ul> <li>d. Difficult to locate the address of the provider to send the information (e.g. lack of provider directory)</li> </ul>	Q19_D	NOPA	Lack provider address
e. Many recipients of our electronic care summaries (e.g. CCDA) report that the information is not useful	Q19_E	NUECS	Information is not useful to recipients
f. Cumbersome workflow to send (not eFax) the information from our EHR system	Q19_F	CSEHR	Cumbersome workflow to send information from EHR system

g. The complexity of state and federal privacy and security regulations makes it difficult for us to determine whether it is permissible to			
electronically exhange patient health information	Q19_G	COMREG	Complexity of privacy and security regulations
Barriers related to electronically receiving patient health information			
h. We lack the technical capability to electronically receive patient health			
information from outside providers or other sources	Q19_H	ERPHI	No technical capability to receive from outside providers
i. Difficult to match or identify the correct patient between systems	010.1	NOIDP	Difficult to match/identify the correct patient between
j. There are providers whom we share patients with that don't typically	Q19_I	NOIDP	systems
exchange patient data with us	Q19_J	PRVNOEX	Some providers don't typically exchange patient data
	_		
Other barriers related to exhanging patient health information			
k. Experience greater challenges exchanging (e.g. sending/receiving data)			
across different vendor platforms	Q19_K	DIFVEND	Exchanging across different vendor platforms
We have to pay additional costs to send/receive data with care settings/organizations outside our system			
	Q19_L	ADCOST	Pay additional costs to send/receive data
<ul> <li>m. We had to develop customized interfaces in order to electronically exhange health information</li> </ul>			We had to develop customized interfaces in order to
	Q19_M	CUSTINT	electronically exhange health information
m1. If yes, how many?	Q19_M1	CUSTINTN	If yes, how many customized interfaces?
		333	, es,ean, easternized interfaces.
Кеу			
1 =Yes			
EHR System and IT Vendors			
20. Does your IT Department currently support an infrastructure for two f	factor authentication (e.g. tokens or		

20. Does your IT Department currently support an infrastructure for two factor authentication (e.g. tokens or biometrics)?

Survey Question Number Database Field Name
IT supports two factor authentication Q20 IT\_AUTH Two factor authentication

### Key

- 1 = Yes
- 2 = No
- 3 = Do not know

### 21. Do you possess an EHR system that has been certified?

Posses a certified system for meeting meaningful use requirements

Survey Question Number	Database Field Name	Expanded Field Name
Q21	EMRHRCRT	Certified EHR for Meaningful Use

### Key

- 1 = Yes
- 2 = No
- 3 = Do not know
- 22. Which vendor below provides your primary inpatient EHR/EMR 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 the vendor name rather than product.

Primary provider of inpatient EHR

Survey Question Number	Database Field Name	Expanded Field Name
Q22	PIEMR	Primary inpatient EHR/EMR vendor
Q22_OTH	PIEMRO	Primary inpatient EHR/EMR vendor - other

### Key

- 1 = Allscripts/Eclipsys
- 2 = Cerner
- 3 = eClinical works
- 4 = Eclipsys
- 5 = Epic
- 6 = GE
- 7 = McKesson
- 8 = MED3000
- 9 = Meditech
- 10 = NextGen
- 11 = QuadraMed
- 12 = Sage
- 13 = Siemens
- 14 = Self-developed
- 15 = Other (specify)

Other described

- 16 = Would prefer not to disclose
- 17 = CPSI
- 18 = HMS
- 19 = Healthland
- 20 = Vitera/Greenway
- 21 = Evident
- 22 = MEDHOST
- 23 = Allscripts
- 24 = Prognosis
- 25 = Athenahealth
- 26 = MedWorx
- 27 = Health Care System

### 23. Overall, how satisfied or dissatisfied are you with your EHR system?

Satisfaction with EHR system

<b>Survey Question Number</b>	Database Field Name	Expanded Field Name
Q23	SATISEHR	Satisfaction with EHR system

### Key

- 1 = Very satisfied
- 2 = Somewhat satisfied
- 3 = Neither satisfied nor dissatisfied
- 4 = Somewhat dissatisfied
- 5 = Very dissatisfied

### 24. When does your hospital expect to complete the switch to a 2015 certified EHR system?

Expected completion of switch to 2015 certified EHR system

Survey Question Number	Database Field Name	Expanded Field Name
Q24	CERTEHR	Expected completion of switch to 2015 certified EHR system

#### Key

- 1 = We have already switched to a 2015 edition of a certified EHR
- 2 = Between January 1st, 2018 and June 30th, 2018
- 3 = After July 1st, 2018
- 4 = Uncertain
- 5 = Never

## 25. What changes, if any, are you planning for your primary inpatient EMR/EHR system within the next 18 months?

	Survey Question Number	Database Field Name	Expanded Field Name
a. Initial deployment	Q25_A	CHNG_ID	Initial deployment
b. Major change in vendor	Q25_B	CHNG_VEN	Major change in vendor
c. Change from enterprise architecture to best-of-breed	Q25_C	CHG_ARCA	Enterprise architecture to best-of-breed
d. Change from best-of-breed to enterprise architecture	Q25_D	CHG_ARCB	Best-of-breed to enterprise architecture
e. Optimizing functionality of new releases	Q25_E	CHG_FCTNR	Optimizing functionality of new releases
f. Significant additional functionalities	Q25_F	CHNG_FUNC	Significant additional functionalities
g. Do not know	Q25_G	CHNG_UNKN	Changes Unknown
h. No major changes planned	Q25_H	CHNG_NUN	No major changes planned

### Key

1 = Yes

26a. Do you use the same primary inpatient EHR/EMR system vendor (noted above) for your primary outpatient EMR/EHR system?				
	Survey Question Number	<b>Database Field Name</b>	Expanded Field Name	
Same primary inpatient EHR/EMR system vendor (noted above) for primary				
outpatient FMR/FHR system	O26 A	SIOPV	Same primary inpatient/outpatient_EHR/FMR system vendor	

- 1 = Yes, share single instance
- 2 = Yes, but do not share the single instance
- 3 = No
- 4 = Do not know
- 5 = NA

## 26b. Is patient health information electronically exhanged or made electronically available between your primary inpatient and outpatient systems so that data is easily available to clinicians?

Is patient health information electronically exchanged/avaliable between primary inpatient and outpatient systems so data are easily available to clinicians

Survey Question Number

Database Field Name

Expanded Field Name

Patient health information exchanged between primary inpatient and outpatient systems

### Key

- 1 = Yes
- 2 = No
- 3 = Do not know

## 27. What are your primary challenge(s) in implementing an EMR/EHR system that meets the federal requirements for meaningful use?

Survey Question Number	Database Field Name	Expanded Field Name
Q27_A	FEDCST	Upfront capital costs, or lack of capital
Q27_B	FEDUS	On-going costs of maintaining/upgrading
Q27_C	FEDPHY	Obtaining physician cooperation
Q27_D	FEDSTF	Obtaining other staff cooperation
Q27_E	MNGFL_SEC	Concerns about security/liability for privacy breaches
Q27_F	MNGFL_CERT	Uncertainty about certification process
Q27_G	MNGFL_VEN	Lack of vendor capacity
Q27_H	MNGFL_IT	Lack adequate IT staff
Q27_I	MNGFL_TIME	Meeting all meaningful use criteria on time
027	MNGFL REGS	Pace and extent of other regulatory requirement changes
<del>-</del>	_	Other reason (MNGFL)
Q27_K Q27_K_OTH	MNGFL OTHD	Other reason specified (MNGFL)
	Q27_A Q27_B Q27_C Q27_D Q27_E Q27_F Q27_G Q27_H Q27_I	Q27_A       FEDCST         Q27_B       FEDUS         Q27_C       FEDPHY         Q27_D       FEDSTF         Q27_E       MNGFL_SEC         Q27_F       MNGFL_CERT         Q27_G       MNGFL_VEN         Q27_H       MNGFL_IT         Q27_I       MNGFL_TIME         Q27_J       MNGFL_REGS         Q27_K       MNGFL_OTH

### Key

1 = Yes

## 28. Please indicate whether you have used electronic clinical data from the EHR or other electronic system in your hospital to: (Please check all that apply)

	Survey Question Number	Database Field Name	Expanded Field Name
a. Create a dashboard with measures of organizational performance	Q28_A	ECDMOP	Create a dashboard with measures of organizational performance
b. Create a dashboard with measures of unit-level performance	Q28_B	ECDMUP	Create a dashboard with measures of unit-level performance
c. Create individual provider performance profiles	Q28_C	ECDIPP	Create individual provider performance profiles
d. Create an approach for clinicians to query the data	Q28_D	ECDCQD	Create an approach for clinicians to query the data
e. Assess adherence to clinical practice guidelines	Q28_E	ECDICG	Assess adherence to clinical practice guidelines
f. Identify care gaps for specific patient populations	Q28_F	ECDCGP	Identify care gaps for specific patient populations
g. Generate reports to inform strategic planning	Q28_G	ECDISP	Generate reports to inform strategic planning
h. Support a continuous quality improvement process	Q28_H	ECDCQI	Support continuous quality improvement process
i. Monitor patient safety (e.g. adverse drug effects)	Q28_I	ECDMPS	Monitor patient safety
j. Identify high risk patients for follow-up care using algorithm or other			Identify high risk patients for follow-up care using algorithm or
tools	Q28_J	ECDHRP	other tools
k. None of the above	Q28_K	ECDNONE	None (ECD)

### Key

1 = Yes