2012 AHA Annual Survey Information Technology Supplement File Layout Health Forum LLC

Field	Field Description
ID	AHA Identification Number
MCRNUM	Medicare Provider Number
MNAME	Hospital name (from membership)
MLOCADDR	Street Address (from membership)
MLOCCITY	City (from membership)
MSTATE (Formerly labeled MLOCSTCD)	State (from membership)
MLOCZIP	ZIP code (from membership)
BDTOT	Total facility beds set up and staffed
MCNTRL	Control/ownership (from membership)

K	e	у	
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Gover	nment,	nonfe	ederal

12 = State 13 = County

14 = City

15 = City-county

25 City country

16 = Hospital district or authority

Nongovernment, not-for-profit

21 = Church operated

23 = Other

Investor-owned, for-profit

31 = Individual

32 = Partnership

33 = Corporation

Government, federal

41 =Air Force

42 = Army

43 = Navy

44 = Public Health Service other than 47

45 = Veterans Affairs

46 = Federal other than 41-45, 47-48

47 = Public Health Service Indian Service

48 = Department of Justice

Field

MSERV

Field Description

Primary service code (from membership)

Key

- 10 = General medical and surgical
- 11 = Hospital unit of an institution (prison hospital, college infirmary, etc.)
- 12 = Hospital unit within an institution for the mentally retarded
- 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 = Institution for mental retardation
- 80 = Acute Long-Term Care
- 82 = Alcoholism and other chemical dependency
- 90 = Children's acute long-term

1a. Does your hospital currently have a computerized system which allows for:

Electronic Clinical Documentation Field Name	
a. Patient demographics Q1_A1	
b. Physician notes Q1_B1	
c. Nursing notes Q1_C1	
d. Problem lists Q1_D1	
e. Medication lists Q1_E1	
f. Discharge summaries Q1_F1	
g. Advanced directives (e.g. DNR) Q1_G1	

File Layout

Results viewing

a. Lab reports	Q1_A2
b. Radiology reports	Q1_B2
c. Radiology images	Q1_C2
d. Diagnostic test results (e.g. EKG report, Echo report)	Q1_D2
e. Diagnostic test images (e.g. EKG tracing)	Q1_E2
f. Consultant reports	Q1_F2
Computerized provider order entry (Provider (e.g., MD, APN, NP) directly enters own orders that are transmitted electronically)	

a. Laboratory tests	Q1_A3
b. Radiology tests	Q1_B3
c. Medications	Q1_C3
d. Consultation requests	Q1_D3
e. Nursing orders	Q1_E3

Decision support

Bar Coding or Radio Frequency Identification (RFID) for Closed-loop Medication Tracking

c. Caregiver verification Q1_	a. Medication administration	Q1_A5
<u> </u>	b. Patient verification	Q1_B5
d Pharmacy verification 01	c. Caregiver verification	Q1_C5
a. Harmacy Termoution	d. Pharmacy verification	Q1_D5

Other functionalities

Other functionalities		
Bar coding or Radio Frequency (RFID) for supply chain management	Q1_A6	
Telehealth	Q1_B6	
Ability to connect mobile devices (tablet, smart phone, etc.) to EHR	Q1_C6	
	Bar coding or Radio Frequency (RFID) for supply chain management Telehealth	

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- 1 = Fully implemented across all units
- 2 = Fully implemented in at least one unit
- 3 = Beginning to implement in at least one unit
- 4 = Have resources to implement in the next year
- 5 = Do not have resources but considering implementing
- 6 = Not in place and not considering implementing

2. Do you currently have an electronic system that allows you to do the following?

2. Do you currently have an electronic system that allows you to do the i	
Floring is Clinical Bossesses 1	Field Name
Electronic Clinical Documentation	02.4
a. Record gender and date of birth	Q2_A
b. Record race and ethnicity	Q2_B
c. Record time and preliminary cause of death when applicable	Q2_C
d. Record preferred language for communication with providers of care	Q2_D
e. Vital signs (height, weight, blood pressure, BMI, growth charts)	Q2_E
f. Record smoking status using standard format	Q2_F
g. Record and maintain medication allergy lists	Q2_G
h. Record patient family health history as structured data	Q2_H
i. Incorporate as structured data lab results for more than 40 percent of patients	
admitted to inpatient or emergency departments	02.1
	Q2_I
Population Health Management	
a. Generate lists of patients by condition	Q2_A2
b. Identify and provide patient specific education resources	Q2_B2
Medication Management	
a. Compare a patient's inpatient and preadmission medication lists	Q2_A3
b. Provide an updated medication list at time of discharge	Q2_B3
c. Check inpatient prescriptions against an internal formulary	Q2_C3
d. Automatically track medications with an electronic medication administration	Q2_63
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	Q2 D3
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders	Q2_D3 Q2_E3
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders	
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents	
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders	
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record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request	Q2_E3
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3	Q2_E3 Q2_A4
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days	Q2_E3 Q2_A4 Q2_B4
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care	Q2_E3 Q2_A4 Q2_B4 Q2_C4
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4
e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4
e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor Automated Quality Reporting a. Automatically generate hospital-specific meaningful use quality measures by	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4
e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor Automated Quality Reporting	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4
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e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor Automated Quality Reporting a. Automatically generate hospital-specific meaningful use quality measures by extracting dat from an electronic record without additional manual processes b. Automatically generate Medicare Inpatient Quality Reporting program	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4 Field Name
e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor Automated Quality Reporting a. Automatically generate hospital-specific meaningful use quality measures by extracting dat from an electronic record without additional manual processes b. Automatically generate Medicare Inpatient Quality Reporting program measures for a full Medicare inpatient update	Q2_E3 Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4 Field Name Q2_A5 Q2_B5
record (eMAR) e. Electronic prescribing (eRx) of discharge medication orders Discharge Instructions and Care Summary Documents a. Provide patients an electronic copy of their discharge instructions upon request b. Provide patients an electronic copy of their record upon request within 3 business days c. Generate summay of care record for relevant transitions of care d. Include care teams and plan of care in summary care record e. Electronically exchange key clinical information with providers f. Send transition of care summaries to an unaffiliated organization using a different certified electronic health record vendor Automated Quality Reporting a. Automatically generate hospital-specific meaningful use quality measures by extracting dat from an electronic record without additional manual processes b. Automatically generate Medicare Inpatient Quality Reporting program measures for a full Medicare inpatient update c. Automatically generate physician-specific meaningful use quality measures	Q2_A4 Q2_B4 Q2_C4 Q2_D4 Q2_E4 Q2_F4 Field Name

Public Health Reporting

a. Submit electronic data to immunization registries or immunization	
information systems per Meaning ful Use standards	Q2_A6
b. Submit electronic data on reportable lab results to public health agencies per	
meaningful use standards	Q2_B6
c. Submit electronic syndromic surveillance data to public health agencies per	
Meaningful Use standards	Q2_C6

Other Functionalities

a. Implement at least 5 Clinical Decision Support interventions related to 4 or	
more clinical quality measures	Q2_A7
b. Conduct or review a security risk analysis and implement security updates as	

b. Conduct or review a security risk analysis and implement security updates as necessary Q2_B7

Key

1 = Yes

2 = No

3 = Do not know

Health Information Exchange Functionalities

3a. Does your hospital electronically exchange any of the following patient data with any of the providers listed below? (check all that apply)

a. Patient demographics	Field Name
With Hospitals in your System	Q3A_A1
With Hospitals Outside of your system	Q3A_A2
With Ambulatory Providers inside of your system	Q3A_A3
With Ambulatory Providers outside of your system	Q3A_A4
Do not know	Q3A_A5
h. Laboratom recults	
b. Laboratory results	024 84
With Hospitals in your System	Q3A_B1
With Hospitals Outside of your system	Q3A_B2
With Ambulatory Providers inside of your system	Q3A_B3
With Ambulatory Providers outside of your system	Q3A_B4
Do not know	Q3A_B5
c. Medication history	
With Hospitals in your System	Q3A_C1
With Hospitals Outside of your system	Q3A_C2
With Ambulatory Providers inside of your system	Q3A_C3
With Ambulatory Providers outside of your system	Q3A_C4
Do not know	Q3A_C5

d. Radiology reports	Field Name
With Hospitals in your System	Q3A_D1
With Hospitals Outside of your system	Q3A_D2
With Ambulatory Providers inside of your system	Q3A_D3
With Ambulatory Providers outside of your system	Q3A_D4
Do not know	Q3A_D5
e. Clinical / Summary care record in any format	
With Hospitals in your System	Q3A_E1
With Hospitals Outside of your system	Q3A_E2
With Ambulatory Providers inside of your system	Q3A_E3
With Ambulatory Providers outside of your system	Q3A_E4
Do not know	Q3A_E5
f. Other types of patient data	
With Hospitals in your System	Q3A_F1
With Hospitals Outside of your system	Q3A_F2
With Ambulatory Providers inside of your system	Q3A_F3
With Ambulatory Providers outside of your system	Q3A_F4
Do not know	Q3A_F5
g. We do not exchange any patient data	
With Hospitals in your System	Q3A_G1
With Hospitals Outside of your system	Q3A_G2
With Ambulatory Providers inside of your system	Q3A_G3
With Ambulatory Providers outside of your system	Q3A G4
Do not know	Q3A_G5
Кеу	
1 = Exchanges data	
- Exercise geo data	

3b. If you exchange or share clinical/summary care records with other providers, what is the primary mechanism used? Field Name

Sharing of clinical/summary care records with other providers

Q3_B

Key

- 1 = Through EHR or other electronic means
- 2 = Manual Process (e.g. fax, mail)

0 = Does not exchange data

3 = Do not know

3c. Does your hospital have the capability to send clinical/summary of care records in Continuous Care Record (CCR),

Field Name

Clinical Care Record in CCR or CCD format Q3_C

Key 1 = Yes 2 = No3 = Do Not Know 4 = Not applicable 4a. Do any current arrangements exist in your area to share electronic patient-level clinical data through an electronic Electronic sharing of patient-level clinical data

Key

- 1 = Arrangements exist
- 2 = Arrangements do not exist
- 3 = Do not know

4b. Please indicate your level of participation in a regional health information exchange (HIE) or regional health

Field Name

Field Name

Q4 A

Level of HIE or RHIO participation

Q4_B

Key

- 1 = Participating and actively exchanging data in at least one HIE/RHIO
- 2 = Have the electronic framework to participate but not participating in any HIE/RHIO at this time
- 3 = Do not have the electronic framework to participate and not participating in any HIE/RHIO at this time
- 4 = Do not know

5a. When a patient visits your Emergency Department, do you routinely provide electronic notification to the patient's **Field Name**

Provide electronic notication to primary care physician when patient visits **Emergency Department**

Q5 A

Key

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

5b. If yes, are electronic notifications provided to primary care physicians listed below? (Check all that apply)

Inside of your system Outside of your system Do not know

Field Name

Q5_B1

Q5_B2

Q5_B3

Key

1 =Yes

0 = No

6. Are providers at your hospital able to query electronically for a patient's health information (e.g. medications,

Field Name

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

Q6

Key

1 = Yes

2 = No

3 = Do not know

7. Are patients able to do any of the following regarding their health/medical records: (Please check all that apply)

	Field Name
View information from their health/medical records online	Q7_1
Download information from their health/medical record	Q7_2
Request an amendment to change/update their health/medical record	Q7_3
Request refills for prescriptions online	Q7_4
Schedule appointments online	Q7_5
Pay bills online	Q7_6
Submit patient-generated data (e.g. blood glucose, weight)	Q7_7
None of the above	Q7_8
Do not know	Q7_9

Key

1 = Yes

0 = No

8. What mechanism(s) do you use to provide patients with the ability to access their health information and manage their healthcare electronically (such as those capabilities listed above)? (Please check all that apply)

	1101011101
Personal Health Record (PHR)	Q8_1
Patient/Consumer portal	Q8_2
Secure messaging with providers	Q8_3
Other (please Specify)	Q8_4
None	Q8_5
Other description	Q8_6

Key

1 = Yes

0 = No

9. Does your IT Department currently support an infrastructure for two factor authentication (e.g., tokens or

Field Name

Field Name

IT supports two factor authentication

Q9

Key

1 = Yes

2 = No

3 = Do not know

10. Does your hospital use an EMR/EHR system(s)? Do not include billing/scheduling systems.

Field Name

Hospital uses an EMR/EHR system(s)

Q10

Key

1 = Yes, fully electronic

2 = Yes, partially electronic

0 = No

3 = Do not know

11. In what year did you first deploy your EHR/EMR

EMR/EHR initial year

Do not know initial year

Field Name

Q11

Q11_NA

Key

YEAR

1 = Do not know

12. Do you possess an EHR system that has been certified as meeting the federal requirements for the hospital objectives of Meaningful use?

Field Name

Posses a certified system for meeting meaningful use requirements

Q12

Key

1 = Yes

2 = No

3 = Do not know

13. On the whole, how would you describe your EMR/EHR system?

Development framework/set-up of EHR

Field Name

Q13

Key

1 = A mix of products from different vendors

2 = Primarily one vendor

3 = Self-developed

14a. Who provides your primary inpatient EHR/EMR system?

Primary provider of inpatient EHR

Field Name

Q14 A

Q14_A_OTH

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

14b. Who provides your primary outpatient EHR/EMR system?

Primary provider of outpatient EHR

Key

- 1 = Allscripts/Eclipsys
- 2 = Cerner

20 = Vitera

- 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

Field Name

Q14_B

Q14_B_OTH

17 =CPSI	
18 = HMS	
19 = Healthland	
20 = Vitera	

15. What changes, if any, are you planning for your EMR/EHR system with the next 18 months? (Check all that apply)

	Field Name
Initial deployment	Q15_1
Major change in vendor	Q15_2
Change from enterprise architecture to best-of-breed	Q15_3
Change from best-of-breed to enterprise architecture	Q15_4
Significant additional functionalities	Q15_5
Do not know	Q15_6
No major changes	Q15_7

Key

1 = Yes

0 = No

16. What is /would be the primary challenge in implementing an EMR/EHR system that meets each of the federal requirements for each of the 24 hospital objectives of Meaningful Use? (Check all that apply)

	Field Name
a. Upfront capital costs/lack to capital to install systems	Q16_1
b. Ongoing costs of maintaining and upgrading systems	Q16_2
c. Obtaining physician cooperation	Q16_3
d. Obtaining other staff cooperation	Q16_4
e. Concerns about security or liability for privacy breaches	Q16_5
f. Uncertainty about certification requirements	Q16_6
g. Limited vendor capacity	Q16_7
h. Lack of adequate IT personnel in the hospital to support	
implementation/maintenance	Q16_8
i. Challenge complexity of meeting all Meaningful Use criteria within implementation timeline	Q16_9
j. Complexity associated with coordinating decision with system-level leadership	Q16_10
k. Other specify	Q16_11
l. Other description	Q16_12

Key

1 = Yes

0 = No