

**2025 AHA Annual Survey**  
**Information Technology Supplement File Layout**

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

Key	
<p><b>Government, nonfederal</b></p> <p>12 = State</p> <p>13 = County</p> <p>14 = City</p> <p>15 = City-county</p> <p>16 = Hospital district or authority</p> <p><b>Nongovernment, not-for-profit</b></p> <p>21 = Church operated</p> <p>23 = Other</p> <p><b>Investor-owned, for-profit</b></p> <p>31 = Individual</p> <p>32 = Partnership</p> <p>33 = Corporation</p>	<p><b>Government, federal</b></p> <p>40 = Department of Defense</p> <p>44 = Public Health Service other than 47</p> <p>45 = Veterans Affairs</p> <p>46 = Federal other than 41-45, 47-48</p> <p>47 = Public Health Service Indian Service</p> <p>48 = Department of Justice</p>

**Field Description**

Primary service code

**Database Field Name**

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  
18 = Rural Emergency Hospital  
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  
91 = Children's cancer

## EHR System and IT Vendors

1. 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. (Check only one)

	Survey Question Number	Database Field Name
Primary provider of inpatient EHR	Q1	PIEMR
Primary provider of inpatient EHR - other description	Q1_OTH	PIEMRO

### Key

1 = Allscripts

2 = Cerner

3 = eClinical works

4 = Eclipsys

5 = Epic

6 = GE

7 = McKesson

8 = MED3000

9 = Meditech

10 = NextGen

11 = Harris Healthcare/QuadraMed

12 = Sage

13 = Siemens

14 = Self-developed

15 = Other (specify)

Other described

16 = Would prefer not to disclose

17 = CPSI/Evident

18 = HMS

19 = Healthland

20 = Vitera/Greenway

21 = Evident

22 = MEDHOST

24 = Prognosis

25 = Athenahealth

26 = MedWorx

27 = Health Care System

28 = Azalea Health/Prognosis

29 = Altera Digital Health

30 = We do not use an EMR/EHR system

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

	Survey Question Number	Database Field Name
a. Upfront capital costs/lack of access to capital to install systems	Q1a_A	CHCOST
b. Ongoing cost of maintaining and upgrading systems	Q1a_B	CHMAUP
c. Obtaining physician cooperation	Q1a_C	CHPHYCO
d. Obtaining other staff cooperation	Q1a_D	CHOTHCO
e. Concerns about security or liability for privacy breaches	Q1a_E	CHSECUR
f. Uncertainty about certification requirements	Q1a_F	CHREQUI
g. Limited vendor capacity	Q1a_G	CHLIMVEN
h. Lack of adequate IT personnel in hospital to support implementation/maintenance	Q1a_H	CHITPERS
i. Challenge/complexity of meeting Promoting Interoperability program criteria within implementation timeframe	Q1a_I	CHMPIP
j. Pace and extent of other regulatory requirement changes	Q1a_J	CHPACE
k. Other (challenges implementing EMR/EHR)	Q1a_K	CHOTHER
Other description (challenges implementing EMR/EHR)	Q1a_L_OTH	CHOTHER_DESC

**Key**  
 1 = Yes  
 0 = No

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

	Survey Question Number	Database Field Name
Hospital provides outpatient care to patients	Q2	OPCARE

**Key**  
 1 = Yes (go to 3)  
 0 = No (go to 4)

**3. Do you use the same primary inpatient EMR/EHR system vendor (noted above) for your primary outpatient EMR/EHR system?**

	Survey Question Number	Database Field Name
Same primary inpatient EHR/EMR system vendor (noted above) for primary outpatient EMR/EHR system	Q3	SIOPV

**Key**  
 1 = Yes, share single instance  
 2 = Yes, but do not share the single instance/version  
 3 = No  
 4 = Do not know  
 5 = NA

**4. Have you used the capability to export multiple records from your primary inpatient EHR system to support any of the following uses? Sometimes referred to as "bulk" export, this functionality enables analytics and reporting, population management, or switching EHR systems.**

	Survey Question Number	Database Field Name
a. Analytics and reporting	Q4_A	ARCAP
b. Population health management	Q4_B	PHMCAP
c. Research purposes	Q4_C	RSCHCAP
d. Switching EHR systems	Q4_D	SWTSYCAP
e. Have not used the capability yet	Q4_E	NOUSECAP
f. Do not have this capability	Q4_F	DNHCAP

**Key**  
 1 = Yes  
 0 = No

**Participation in health information exchange networks**

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

	Survey Question Number	Database Field Name
Level of HIE or HIO participation	Q5a	RHIO_LVL1

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

**5b. Please indicate which state, regional and/or local HIE/HIO(s) with which your hospital participates and actively exchanges data as well as the first year your hospitals actively participated in this HIE/HIO. (See HIO list)**

	Survey Question Number	Database Field Name
5b1a. Name/reference number 1	Q5b1_A	NMREF1
5b1b. First year your hospital participated 1	Q5b1_B	YEAR1
5b1b. Name1 Other	Q5b1_OTH	NM1OTH
5b2a. Name/reference number 2	Q5b2_A	NMREF2
5b2b. First year your hospital participated 2	Q5b2_B	YEAR2
5b1b. Name2 Other	Q5b2_OTH	NM2OTH
5b3a. Name/reference number 3	Q5b3_A	NMREF3
5b3b. First year your hospital participated 3	Q5b3_B	YEAR3
5b1b. Name3 Other	Q5b3_OTH	NM3OTH

**6. Which of the following national health information exchange networks and/or frameworks does your hospital currently actively participate in (i.e., operational exchange)?  
Check all that apply**

	Survey Question Number	Database Field Name
a. CommonWell Health Alliance	Q6_A	CWHA
b. e-Health Exchange	Q6_B	HLTHXCH
c. Civitas (formerly SHIEC)/Patient Centered Data Home (PCDH)	Q6_C	SHIEC
d. Carequality (network-to-network trust/governance framework)	Q6_D	SPCAREQ
e. EHR vendor-based-network that enables record location and exchange within the EHR vendor's network of users (e.g., Epic's Care Everywhere)	Q6_E	VENNET
f. Other national health information exchange network	Q6_F	OTHNET
Other national health information exchange network description	Q6_F_OTH	OTHNET_DESC
g. Do not participate in any national health information exchange networks (either via vendor or directly)	Q6_G	NETNO
h. Do not know (national health information exchange network)	Q6_H	NETDNK

**Key**  
 1 = Yes  
 0 = No

**Trusted Exchange Framework and Common Agreement**

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

	Survey Question Number	Database Field Name
Aware of the Trusted Exchange Framework and Common Agreement (TEFCA)	Q7	ATEFCA

**Key**  
1 = Yes  
0 = No (go to 9)

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

	Survey Question Number	Database Field Name
Currently or planning to participate in TEFCA exchange	Q8	PTEFCA

**Key**  
1 = Yes, currently participating and have a partner/contract in place  
2 = Yes, plan to participate and have a partner/contract in place  
3 = Yes, plan to participate but do not have a partner/contract in place  
4 = No, not participating and do not plan to  
5 = Do not know

**Querying information from outside providers or sources**

**9. How often are the following electronic methods used to search for (e.g., query or auto-query) and view patient health information from sources outside your organization or hospital system?**

Electronic Methods	Survey Question Number	Database Field Name
a. Provider portals that allow you to view records in another organization's EHR system	Q9_A	EMOPORT
b. Interface connection between EHR systems (e.g., HL7 interface)	Q9_B	EMOINTF
c. Access to other organization's EHR system using login credentials	Q9_C	EMODIRAC
d. Regional, state, or local health information exchange organization (HIE/HIO).	Q9_D	EMOREG
e. EHR vendor-based network that enables record location within the network (e.g., Care Everywhere)	Q9_E	EMOVBN
f. EHR connection to national networks that enable record location across EHRs in different networks (e.g., CommonWell, e-Health Exchange, Carequality)	Q9_F	EMONATNET
g. Other (electronic methods)	Q9_G	EMOOTH
Other description (electronic methods)	Q9_G_OTH	EMOOTH_DESC

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

**Sending patient health information**

**10. When a patient transitions to another care setting organization outside of your organization or hospital system, how often does your hospital use the following methods to SEND a summary of care record?**

	Survey Question Number	Database Field Name
<b>Methods without intermediaries</b>		
a. Mail or fax	Q10_A	MAILSND
b. eFax using EHR	Q10_B	EFAXSND
c. Provider portals that allow outside organization to view records in your EHR system	Q10_C	PORTSND
d. Interface connection between EHR systems (e.g., HL7 interface)	Q10_D	INTCONSND
e. Login credentials that allow access to your EHR	Q10_E	DIRACCSND
f. Other methods (sending without intermediaries)	Q10_F	OTHNISND
Other methods description (sending without intermediaries)	Q10_F_OTH	OTHNISND_DESC
<b>Methods with intermediaries</b>		
g. Health information service providers (HISPs) that enable messaging via DIRECT protocol	Q10_G	HISPSND
h. Regional, state, or local health information exchange organization (HIE/HIO).	Q10_H	HIOSND
i. EHR vendor-based network that enables exchange with vendor's other users. (e.g., Epic's Care Everywhere)	Q10_I	SEHRSND
j. National networks that enable exchange across different EHR vendors (e.g., CommonWell, e-Health exchange, Carequality)	Q10_J	MEHRSND
k. Other methods (sending with intermediaries)	Q10_K	OTHISND
Other methods description (sending with intermediaries)	Q10_K_OTH	OTHISND_DESC

<b>Key</b>
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 or make available patient health information to the following partners in a structured format (e.g., CCDA) that they are able to use?**

	Survey Question Number	Database Field Name
a. Other hospitals <i>outside your system</i>	Q11_A	TROESA
b. Ambulatory care providers <i>outside your system</i>	Q11_B	TRAESA
c. Long term and post acute care facilities	Q11_C	TRLESA
e. Behavioral Health Facilities	Q11_D	TRBHESA

**Key**  
 1 = Most/All  
 2 = Some  
 3 = Few/None  
 4 = Do not know

**Receive and integrate patient health information**  
**12. When a patient transitions from another care setting outside your organization or hospital system, how often does your hospital use the following methods to RECEIVE a summary of care record?**

	Survey Question Number	Database Field Name
<b>Methods without intermediaries</b>		
a. Mail or fax	Q12_A	MAILRCV
b. eFax using EHR	Q12_B	EFAXRCV
c. Provider portals that allow you to view records in another organizations' EHR system	Q12_C	PORTRCV
d. Interface connection between EHR systems (e.g., HL7 interface)	Q12_D	INTCONRCV
e. Access to other organizations' EHR system using login credentials	Q12_E	DIRACCRCV
f. Other methods (receiving without intermediaries)	Q12_F	OTHNIRCV
Other methods description (receiving without intermediaries)	Q12_F_OTH	OTHNIRCV_DESC
<b>Methods with intermediaries</b>		
g. Health information service providers (HISPs) that enable messaging via DIRECT protocol	Q12_G	HISPRCV
h. Regional, state, or local health information exchange organization (HIE/HIO). <i>NOT local proprietary enterprise network</i>	Q12_H	HIORCV
i. EHR vendor-based network that enables exchange with vendor's other users (e.g., Epic's Care Everywhere)	Q12_I	SEHRRCV
j. National networks that enable exchange across different EHR vendors (e.g., CommonWell, eHealth Exchange, Carequality)	Q12_J	MEHRRCV
k. Other methods (receiving with intermediaries)	Q12_K	OTHIRCV
Other methods description (receiving with intermediaries)	Q12_K_OTH	OTHIRCV_DESC

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

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

	Survey Question Number	Database Field Name
a. Other hospitals <i>outside your system</i>	Q13_A	TROERQF
b. Ambulatory care providers <i>outside your system</i>	Q13_B	TRAERQF
c. Long term and post acute care facilities	Q13_C	TRLERQF
d. Behavioral Health Facilities	Q13_D	TRBHERQF

**Key**  
 1 = Most/All  
 2 = Some  
 3 = Few/None  
 4 = Do not know

**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
Integration of electronically received summary of care records	Q14	SOCINT

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

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

	<b>Survey Question Number</b>	<b>Database Field Name</b>
EHR present health insurer real-time prescription benefit information	Q15	PRESBEN

**Key**  
1 = Yes, for all or almost all payers  
2 = Yes, for a limited set of payers  
3 = No  
4 = Do not know

**Availability and usage of data that is exchanged**

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

	<b>Survey Question Number</b>	<b>Database Field Name</b>
Clinical information available electronically from outside providers/sources	Q16	CIAOUT

**Key**  
1 = Yes, routinely  
2 = Yes, but not routinely  
3 = No  
4 = Do not know

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

	<b>Survey Question Number</b>	<b>Database Field Name</b>
Use electronic patient health information from outside providers	Q17	PHIOUT

**Key**  
1 = Often  
2 = Sometimes  
3 = Rarely  
4 = Never  
5 = Do not know

**Barriers to exchange and interoperability**

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 organizations or hospital systems? (Check all that apply)

**18a. Barriers related to electronically sending patient health information**

	Survey Question Number	Database Field Name
1. Providers we would like to electronically send patient health information to, do <u>not</u> have an EHR or other electronic system with capability to receive the information	Q18a_1	NPEHR
3. Difficult to locate the address of the provider to send the information (e.g., lack of provider directory)	Q18a_2	NOPA
3. Many recipients of our electronic care summaries (e.g., CCDA) report that the information is not useful	Q18a_3	NUECS

**Key**  
1 = Major barrier  
2 = Minor barrier  
3 = Not a barrier

**18b. Barriers related to electronically receiving patient health information**

	Survey Question Number	Database Field Name
1. Difficult to match or identify the correct patient between systems	Q18b_1	NOIDP
2. There are providers whom we share patients with that do not typically exchange patient data with us	Q18b_2	PRVNOEX
3. There are providers who share data with us but do not provide that data in the format that we request	Q18b_3	NFMTRQST
4. There are providers who state they cannot share our patients' data with us because they cannot be certain we will safeguard the privacy or security of the data to the same standards they meet.	Q18b_4	NASFGSDS

**Key**  
1 = Major barrier  
2 = Minor barrier  
3 = Not a barrier

### 18c. Other barriers related to exchanging patient health information

	Survey Question Number	Database Field Name
1. Experience greater challenges exchanging (e.g., sending/receiving) data across different vendor platforms	Q18c_1	DIFVEND
2. We have to pay additional costs to send/receive data with outside organizations/hospital systems	Q18c_2	ADCOST
3. We had to develop customized interfaces in order to exchange (e.g., send/receive) data with outside organizations/health systems	Q18c_3	CUSTINT
4. We are unable to mitigate cybersecurity risks inherent in how the requestor wants to connect to our systems	Q18c_4	NOMITCYB
5. We are unable to unambiguously segment data that are requested from data we cannot share/have been asked by the patient not to share	Q18c_5	NOSEGDAT

**Key**  
 1 = Major barrier  
 2 = Minor barrier  
 3 = Not a barrier

### Information blocking practices

#### 19a. To what extent have you observed the following stakeholders engaging in information blocking behaviors?

	Survey Question Number	Database Field Name
1. Developers of Certified Health IT (e.g., Enterprise EHR vendors)	Q19a_1	SHCERTDV
2. National Networks (e.g. CommonWell, eHealth Exchange)	Q19a_2	SHNTLNTW
3. State, regional, and/or local health information exchange	Q19a_3	SHSRLHIE
4. Healthcare providers	Q19a_4	SHHCP

**Key**  
 1 = Often/Routinely  
 2 = Sometimes  
 3 = Never/Rarely  
 4 = Not Applicable (i.e. we have not tried to get information from this source)  
 5 = Do not know

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

	Survey Question Number	Database Field Name
1. Price	Q19b_1	EVPRCE
2. Contract language	Q19b_2	EVCNTLNG
3. Artificial technical, process, or resource barriers	Q19b_3	EVARTF
4. Refusal	Q19b_4	EVRFSL
5. Other (EHR vendor blocking)	Q19b_5	EVOTH
Other description (EHR vendor blocking)	Q19b_5_OTH	EVOTH_DESC

**Key**  
 1 = Often/Routinely  
 2 = Sometimes  
 3 = Never/Rarely  
 4 = Do not know

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

	Survey Question Number	Database Field Name
1. Artificial technical, process, or resource barriers	Q19c_1	HCPARTF
2. Refusal	Q19c_2	HCPRFSL
3. Strategic affiliations	Q19c_3	HCPSTAFI
4. Other (healthcare provider blocking method)	Q19c_4	HCPOTH
Other description (healthcare provider blocking method)	Q19c_4_OTH	HCPOTH_DESC

**Key**  
 1 = Often/Routinely  
 2 = Sometimes  
 3 = Never/Rarely  
 4 = Not Applicable (i.e. we have not tried to get information from this source)  
 5 = Do not know

**19d. If you have experienced practices that you believed constituted information blocking in the past year, how often did you report the information blocking to HHS using the Report Information Blocking Portal?**

	Survey Question Number	Database Field Name
Reported information blocking to ONC/HHS using the Report Information Blocking Portal	Q19d	RIPBFRQ

**Key**  
 1 = Yes  
 2 = No  
 3 = NA (Did not experience information blocking within the past year)  
 4 = Do not know

**Advanced Analytics/Artificial Intelligence**

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

	Survey Question Number	Database Field Name
a. Machine Learning-based Predictive Models (not including Generative AI)	Q20_A	IAIMLPM
b. Other Non-Machine Learning Predictive Models (e.g., APACHE IV)	Q20_B	IAINMLPM
c. Generative AI including large language models (e.g., ChatGPT, GPT-4, Google Gemini, Nuance DAX Copilot)	Q20_C	IGNAILLM

**Key**  
 1 = Yes  
 2 = No, but plan to use in the next year  
 3 = No, and no plans in the next year  
 4 = Do not know

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

	Survey Question Number	Database Field Name
a. Machine Learning-based Predictive Models (not including Generative AI)	Q21_A	NAIMLPM
b. Other Non-Machine Learning Predictive Models (e.g., APACHE IV)	Q21_B	NAINMLPM
c. Generative AI including large language models (e.g., ChatGPT, GPT-4, Google Gemini, Nuance DAX Copilot)	Q21_C	NIGNAILLM

<p><b>Key</b>                  1 = Yes                  2 = No, but plan to use in the next year                  3 = No, and no plans in the next year                  4 = Do not know</p>
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**22. To which of the following uses is your hospital currently applying any of the types of AI tools above? Please check all that apply**

	Survey Question Number	Database Field Name
Predictive Use Cases		
a1. Predicting health trajectories or risks for inpatients - EHR	Q22_A1	TRAJEHR
a2. Predicting health trajectories or risks for inpatients - Other source	Q22_A2	TRAJOS
b1. Identify high risk outpatients to inform follow-up care - EHR	Q22_B1	RFOLEHR
b2. Identify high risk outpatients to inform follow-up care - Other source	Q22_B2	RFOLOS
c1. Monitor health - EHR	Q22_C1	MHEAEHR
c2. Monitor health - Other source	Q22_C2	MHEAOS
d1. Assist in medical image interpretation - EHR	Q22_D1	MINTEHR
d2. Assist in medical image interpretation - Other source	Q22_D2	MINTOS
e1. Recommend treatments - EHR	Q22_E1	RECTEHR
e2. Recommend treatments - Other source	Q22_E2	RECTOS
f1. Simplify or automate billing procedures - EHR	Q22_F1	BILLEHR
f2. Simplify or automate billing procedures - Other source	Q22_F2	BILLOS
g1. Facilitate scheduling - EHR	Q22_G1	SCHEER
g2. Facilitate scheduling - Other source	Q22_G2	SCHEOS

Generative Use Cases

h1. Patient-facing chatbot - EHR	Q22_H1	PFCBEHR
h2. Patient-facing chatbot - Other source	Q22_H2	PFCBOS
i1. Generate patient-portal messaging - EHR	Q22_I1	PPMEHR
i2. Generate patient-portal messaging - Other source	Q22_I2	PPMOS
j1. Ambient documentation of clinical encounters - EHR	Q22_J1	AMBDMEHR
j2. Ambient documentation of clinical encounters - Other source	Q22_J2	AMBDMOS
k1. Generate discharge summaries for patients - EHR	Q22_K1	DCSUMEHR
k2. Generate discharge summaries for patients - Other source	Q22_K2	DCSUMOS
l1. Summarize patient chart for nursing handoff - EHR	Q22_L1	SPCNHEHR
l2. Summarize patient chart for nursing handoff - Other source	Q22_L2	SPCNHOS
m1. Summarize patient chart during transition from another setting of care - EHR	Q22_M1	SPCTRNEHR
m2. Summarize patient chart during transition from another setting of care - Other source	Q22_M2	SPCTR NOS
n1. Generate prior authorizations - EHR	Q22_N1	PAUTHEHR
n2. Generate prior authorizations - Other source	Q22_N2	PAUTHOS
o1. Generate or suggest billing codes from the chart - EHR	Q22_O1	GENBCEHR
o2. Generate or suggest billing codes from the chart - Other source	Q22_O2	GENBCOS
General Use Cases		
p1. Clinical decision support - EHR	Q22_P1	CLDSEHR
p2. Clinical decision support - Other source	Q22_P2	CLDSOS
q1. None of the above (AI tools) - EHR	Q22_Q1	MLPMNEHR
q2. None of the above (AI tools) - Other source	Q22_Q2	MLPMNOS
r1. Do not know (AI tools) - EHR	Q22_R1	MLPMDKEHR
r2. Do not know (AI tools) - Other source	Q22_R2	MLPMDKOS
s1. Other administrative use cases (AI tools) - EHR	Q22_S1	MLPMOAEHR
s2. Other administrative use cases (AI tools) - Other source	Q22_S2	MLPMO AOS
Other administrative use cases (AI tools) description	Q22_S_OTH	MLPMOA_DESC
t1. Other clinical use cases (AI tools) - EHR	Q22_T1	MLPMCCEHR
t2. Other clinical use cases (AI tools) - Other source	Q22_T2	MLPMC COS
Other clinical use cases (AI tools) - description	Q22_T_OTH	MLPMC C_DESC

**Key**

1 = Yes

0 = No

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

	Survey Question Number	Database Field Name
1a. Machine learning or other predictive models - Our EHR developer	Q23_1a	MLEHRDV
1b. Machine learning or other predictive models - A third-party developer	Q23_1b	MLTPD
1c. Machine learning or other predictive models - Self-developed	Q23_1c	MLSLFDV
1d. Machine learning or other predictive models - Public domain	Q23_1d	MLPD
1e. Machine learning or other predictive models - Do not know	Q23_1e	MLDNK
2a. Generative AI - Our EHR developer	Q23_2a	GAIEHRDV
2b. Generative AI - A third party developer	Q23_2b	GAITPD
2c. Generative AI - Self-developed	Q23_2c	GAISLFDV
2d. Generative AI - Public domain	Q23_2d	GAIPD
2e. Generative AI - Do not know	Q23_2e	GAIDNK

**Key**  
 1 = Yes  
 0 = No

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

	Survey Question Number	Database Field Name
1. Machine learning or other predictive models	Q24a_1	MLDTU
2. Generative AI	Q24a_2	GAITDU

**Key**  
 1 = All models  
 2 = Most models  
 3 = Some models  
 4 = Few models  
 5 = None  
 6 = Do not know

**24b. For what share of your AI tools is this information available for end users?**

	Survey Question Number	Database Field Name
1. Machine learning or other predictive models	Q24b_1	MLENDUS
2. Generative AI	Q24b_2	GAIENDUS

**Key**  
 1 = All models  
 2 = Most models  
 3 = Some models  
 4 = Few models  
 5 = None  
 6 = Do not know

**25a. What share of your machine learning or other predictive models have been evaluated using data from your hospital or health system for:**

	Survey Question Number	Database Field Name
1. Model Accuracy (e.g., sensitivity or specificity)	Q25a_1	MLACCU
2. Model Bias (e.g., false positive parity across patients from different races, conditions, or other factors)	Q25a_2	MLBIAS
3. Post-implementation evaluation or monitoring of accuracy, bias, or impact	Q25a_3	MLEVAL

**Key**  
 1 = All models  
 2 = Most models  
 3 = Some models  
 4 = Few models  
 5 = None  
 6 = Do not know

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

	Survey Question Number	Database Field Name
1. Model Accuracy (e.g., usefulness of generated text)	Q25b_1	LLACCU
2. Model Bias (e.g., bias in generated text; different usefulness across subgroups)	Q25b_2	LLBIAS
3. Post-implementation evaluation or monitoring of accuracy, bias, or impact	Q25b_3	LLEVAL

**Key**  
 1 = All models  
 2 = Most models  
 3 = Some models  
 4 = Few models  
 5 = None  
 6 = Do not know

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

	Survey Question Number	Database Field Name
a. Designated Senior Executive (CMIO/CIO/Director of Technology)	Q26_A	AEMDSE
b. Specific Committee or Task Force for AI	Q26_B	AEMSCTF
c. Clinical Decision Support Committee/other non-AI specific Committee	Q26_C	AEMDSC
d. Division/Department Leaders	Q26_D	AEMDEPL
e. IT staff	Q26_E	AEMITS
f. None of the above (evaluating models)	Q26_F	AEMNONE

**Key**  
 1 = Yes  
 0 = No