**Pre-survey Instructions**

IMPORTANT: Please carefully review the information below, prior to beginning your survey.

Each organization will receive a unique link to access the survey without the need for a user ID and password. You will still receive an organization ID for record identification purposes, please include this number in your survey communications.

If your organization is part of a health system or IDN, you can complete one survey to include all hospitals if those facilities operate on the same EHR and have similar structure.

Once you select the survey(s) you are participating in, the system will automatically generate the coordinating questions. Once you have made the selection, you cannot start over. If a new link is needed, please email mostwired@chimecentral.org

Instructions are as follows:

- Identify individuals from your organization to help you gather the data you will need to complete the various sections of the survey. CHIME recommends distributing a hardcopy of the survey to these individuals where they will mark their responses to be kept as a hardcopy.

- **Only one user should be in the survey at a given time.** Having multiple people in the survey simultaneously will result in lost data. Please designate one individual to enter data from the hardcopy into the survey tool. You can toggle between survey sections using the index.

- Prior to beginning the survey, please review the list of definitions here. Reviewing this will help clarify the intent of questions and response options.

- Complete a hardcopy of the survey before entering data to the survey tool.

- If using your 2020 survey submission as a reference, please be mindful that some response options have changed and may not match against the 2021 version.

- The online survey tool will automatically save your responses as you move to the next page. Be sure to move to the next page before you close the survey.

- For questions that require screenshot validation, please include the question number as well as your organization ID in the submission email to mostwired@chimecentral.org

- All technologies need to have been in place by 3/31/2021 in order to include it in a survey response. Please do not include pilot programs unless otherwise stated in the question.

- Once all data has been entered into the survey tool, please go through each section, and review all responses thoroughly.
• At the end of the survey, you will be required to verify that the CIO has reviewed and signed off on the submission. Do not check this box or move forward until you are ready to submit. Once submitted, the survey cannot be reopened.

• Upon submitting, you will be redirected to a survey summary where you can print your submission for your records. Amendments can be made up to 90 days after benchmark reports have been released to participants.

Scoping

Where are facilities represented in this survey located? (select one)

- United States of America
- International

*IMPORTANT NOTE*

IF MULTIPLE FACILITY TYPES ARE REPRESENTED IN ONE SURVEY, RESPONSES MUST REPRESENT THE AVERAGE EXPERIENCE ACROSS ALL FACILITY TYPES. There will still be unique and individual scoring returned for each facility type; scores will be similar but slightly different.

IF THE EXPERIENCE IS DIFFERENT ACROSS FACILITY TYPES, ANOTHER SURVEY WILL NEED TO BE FILLED OUT FOR EACH UNIQUE FACILITY EXPERIENCE REPRESENTATION DESIRED. There will be unique and individual scoring returned for each facility survey filled out; scores will be different according to unique facility survey responses.

What type of facilities are represented in this survey? (Making multiple selections will allow you to complete all facility types within one survey)

- International Acute Hospital (INTERNATIONAL ONLY)
- US Domestic Acute Hospital
- US Domestic Ambulatory Clinic
- US Domestic Long-Term/Post-Acute Care (LTPAC) Facility
General Information

**Organization Information -**

Organization Name:

Name of Parent Organization/IDN (if applicable):

Street Address:

City, State (Province), Postal Code:

Country:

Federal Tax ID Number:

**CIO Information -**

Name:

Phone Number:

Email:

If CIO DID NOT complete the Survey, survey respondent information -

Name:

Title:

Phone Number:

Email:

**Results and benchmarking reports will be sent to both email addresses**

**Public Relations Information –**

Name:

Title:

Phone Number:

Email:
Other Information -

Please identify which best describes the organization(s) represented in this survey:

- Independently owned hospital
- Hospital owned by health network/health system
- Integrated health network/multihospital system (two or more hospitals)
- Children’s Hospital
- Department of Defense Hospital or VA
- Urban
- Rural
- Critical Access (fewer than 25 inpatient beds)
- Teaching
- Non-teaching
- HIE
- Independently owned clinic
- Clinic owned by hospital or health network/system
- Independently owned long-term care facility
- Long-term care facility owned by hospital or health network/system

Number of LTPAC facilities represented in this survey*___________

*If this survey is for more than one facility, your answers should reflect the AVERAGE FOR ALL FACILITIES REPRESENTED

Number of Beds/exam rooms regularly available (those set up and staffed for use) represented in this survey: __________

Number of physicians at your organization: __________

Number of other clinicians at your organization (NP, PA)

Please report the number of FTEs on the IT staff as of March 31, 2021

Applications Staff:

Technology Staff:

Informatics/ Analytics Staff:

Innovation/ Digital/ AI Staff:

HIM:

BioMed:

Administrative:

Outsourced:

Other: (leave fill in option)
Total IT Staff FTE (should equal the numbers listed above):

Total number of organization employees: ___________

IT staff includes employees in other areas (e.g., decision support, clinical areas, and strategic planning) whose primary role is creating or supporting systems or information technologies. It excludes PBX operators and other direct reports to the CIO that are not part of planning, supporting or provisioning IT services. Do not include vacant positions, include only staff on board.

**Finance Information**

What is your organization’s total gross revenue (net patient revenue + other income)?

__________

What is your organization’s total IT expenses? __________

What is your organization’s total operating expense? __________

What is your organization’s total capital expense? __________

Total ________

**What vendors do you use for the following inpatient and outpatient**

Primary Inpatient EHR in use:

Primary Outpatient EHR in use:

Population health vendors:

Primary Security Solutions Provider:

Telehealth vendors:

Business intelligence (BI):

AI vendors (AI):

ERP vendors:

Rev Cycle vendors:
Infrastructure

(PDF-001) What methods does your organization(s) use to monitor your IT systems? (Check all that apply.)

A. Use tools to monitor the end-user experience (network and system performance)
B. Use automated tools to escalate problems to highly skilled technicians (Level 2 or 3) based on category and type
C. Analyze issues to determine root cause analysis as a means to put fixes in place to avoid reoccurrences
D. Use dashboard to manage infrastructure by exceptions/anomalies
E. Log collection automation
F. Utilize pattern detection against automated login attempts
G. Gather and trend data to mitigate potential issues before they occur
H. Perform and escalate on system log exceptions/errors
I. Utilize tools such as user behavior analytics or user/entity behavior analytics (UBA/UEBA)
J. None of these tools are used

(PDF-002) How does your organization(s) support its wireless communications? (Select the one that best describes your situation.)

A. Multiple discrete wireless networks for different purposes (clinical/biomedical/physicians/public)
B. A unified enterprise-wide wireless infrastructure enabling reliable access to all online applications
C. No wireless infrastructure
(PDF-003) Which of the following wireless applications and/or technologies does your organization(s) support? (Check all that apply.)

A. Cellular connectivity throughout premises  
B. Nurse call/paging systems  
C. RFID/RTLS Locator System  
D. IP telemetry  
E. Two-way radio/security systems  
F. Video monitoring  
G. Wireless VoIP  
H. EHR/clinical information systems  
I. Wireless barcode medication administration  
J. Wireless infusion pumps  
K. Wireless barcode scanners for supplies  
L. Clinician alarm notification correlated for events  
M. Connected implants that deliver alerts regarding changes in medical conditions to smart device  
N. Wireless barcode for blood products administration  
O. Device alarm notification  
P. Patient facing wireless technologies (wayfinding, Geofence based push notification systems)  
Q. Remote monitoring for on call clinicians  
R. Telehealth for on call clinicians  
S. Wander Management/Patient Elopement  
T. None

(PDF-004) Which of the following resource functions can physicians and other clinicians access remotely (from outside your organization(s) firewall)? (Check all that apply.)

A. Full access to EHR (Complete/sign medical record, place orders, see other facilities’ results, exchange patient data and orders with other facilities, etc.)  
B. Full access to diagnostic quality PACS/images  
C. Communicate with patients (email, alerts)  
D. Secure texting  
E. Support virtual patient visits  
F. Secure messaging via HISP (Health Information Service Provider)  
G. Secure messaging using other non-HISP vehicle  
H. Monitor chronic patients through alerts/notifications  
I. Data received on smart devices from connected implants, RFID/RLTS  
J. Clinician guidelines/pathways or evidence-based order sets with links to reference literature  
K. Full access to referential quality PACS/images from outside organizations  
L. Covid-19 test results (Not Scored)  
M. None
(PDF-005) Which of the following technologies does your organization(s) utilize to improve caregiver workflow? (Check all that apply.)

A. HL7 CCOW standard for patient context management between applications  
B. Integrated clinical application suites  
C. Single sign-on—biometrics  
D. Single sign-on—proximity systems (tap-n-go)  
E. Roaming virtual desktop sessions (VDI)  
F. Traveling profiles  
G. Mobile POC devices  
H. Mobile voice recognition for clinician notes  
I. Remote published applications  
J. None

(PDF-006) What mobile devices are provided to your care team at the point of care?  

A. Laptops/Tablets  
B. IP Based Telephone  
C. Mobile carts or Workstations on Wheels  
D. Care team is not issued dedicated devices

(PDF-007) What types of BYOD is your organization able to support?  

A. Laptops/Tablets  
B. Smartphones  
C. Patient wearables  
D. Voice activated devices  
E. None

(PDF-008) What capabilities are provided to the care team at the point of care via wireless networking to a handheld device?  

A. Secured messaging  
B. Discrete patient data  
C. Waveforms  
D. Alerts  
E. None
Security

(PDF-009) Please indicate below which information security frameworks your organization(s) has adopted and follows as part of your information security program. (Check all that apply)

A. NIST cybersecurity framework
B. COBIT
C. ISO 2700 series
D. HITRUST
E. SANS Top 20/CIS critical controls
F. HICP NEW
G. Self-developed
H. No framework adopted

(PDF-010) Who is responsible for leading information security in your organization(s)? (check one)

A. Dedicated security leader in your executive suite (CISO)
B. CIO who doubles as a security leader
C. An external security leader
D. A non-executive security leader (Director of Security)
E. No dedicated security leader

(PDF-011) Please indicate how often your board of directors/trustees or board committee receives a report on your information security program? (Check one.)

A. Information security program update is provided monthly (or more often)
B. Information security program update is provided quarterly
C. Information security program update is provided semi-annually
D. Information security program update is provided annually
E. Not on a regular schedule but as requested by the board
F. Never
How often does your organization(s) formally chartered cybersecurity governance, risk and compliance committee comprising executive team meet? (Check one.)

A. Monthly (or more often)
B. Quarterly
C. Semi-annually
D. Annually
E. Never
F. Unsure
G. We do not have a formally chartered cybersecurity governance, risk and compliance committee comprising executive team

Which of the following security measures does your organization(s) currently use to authenticate/manage authorized users? (Check all that apply.)

A. Smartcard access control (biometrics, key cards, proximity, magnetic)
B. Identity management/governance (creation of unique identities that are tied to user accounts)
C. Single sign-on
D. Multi-factor authentication (soft tokens, hard tokens, SMS, biometrics, etc.)
E. PKI/digital signature systems
F. Adaptive/risk-based authentication for network access
G. Federated access management (e.g., SAML)
H. Privileged access management
I. None

Which of the following security measures does your organization(s) currently use to authenticate/manage devices? (Check all that apply.)

A. Inventory of authorized devices (tie to asset management systems, IoT/loMT discover tools, network access control, or other factors)
B. Inventory of authorized medical devices (tie to asset management systems, IoT/loMT discover tools, network access control, or other factors)
C. Network access control, monitoring of devices joining network
D. Network access control, enforcement of devices joining network
E. Bring-your-own-device (BYOD) management
F. Mobile device management (MDM) for hospital owned devices
G. None
Which of the following security technologies, services, tools or measures has your organization(s) implemented and used as part of security processes? (Check all that apply.)

A. Database monitoring
B. Data loss prevention (DLP)
C. Intrusion prevention or prevention systems (IPS, IDS)
D. Log management
E. Privacy audit systems
F. Automated user access provisioning systems
G. Security incident event management (SIEM)
H. Next generation endpoint protection systems (EDR, signatureless/machine learning agents, etc)
I. Deception technology
J. Endpoint encryption (laptops and desktops)
K. Basic spam/phishing protection (signatures, digests, spam blacklists, etc)
L. Anomalous network monitoring and analytics (full packet capture analytics tools to find threats)
M. Medical device security tools
N. Micro-segmentation /virtualization
O. Governance, risk, and compliance (GRC) systems
P. Cloud access security broker (CASB)
Q. Encryption of removable devices
R. None

Which of the following security processes does your organization(s) currently use to safeguard information? (Check all that apply.)

A. Proper disposal of ePHI hardware or electronic media
B. Remote mobile device data wiping capabilities
C. Endpoint passcode/password
D. Encryption of backups
E. Encryption for wireless LANs
F. Encryption for laptops and/or workstations (virtual desktop)
G. Medical device password/access controls
H. Formal incident response plan
I. Consumption of threat intelligence information from other organizations (ISAC, DHS, etc)
J. Procurement/contracting with security term including vendor risk assessment
K. Segmentation of medical devices on specialized network segments
L. 24/7/365 Security operations center (insourced, outsourced, hybrid)
M. Training and education of workforce
N. Data classification
O. Secure system baseline images
P. Encryption key management
Q. None
(PDF-017) How often does your organization(s) conduct each of the following activities? If unannounced or third party, select that as well. (e.g. quarterly phishing exercises that are unannounced).

<table>
<thead>
<tr>
<th>Activity</th>
<th>Unannounced</th>
<th>3rd Party</th>
<th>Quarterly or more often</th>
<th>Annually</th>
<th>Every 2 years</th>
<th>Less than 2 years/Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Risk assessment to identify compliance gaps and security vulnerabilities</td>
<td></td>
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<tr>
<td>B</td>
<td>Penetration testing to identify security vulnerabilities</td>
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<tr>
<td>C</td>
<td>Wireless penetration testing</td>
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<tr>
<td>D</td>
<td>HIPAA compliance audits</td>
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<tr>
<td>E</td>
<td>Testing recovery plan (all-tiers)</td>
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<td>F</td>
<td>Testing recovery plan (mission critical systems)</td>
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<td>G</td>
<td>Simulated phishing exercises</td>
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<td>H</td>
<td>Web application security assessments</td>
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<tr>
<td>I</td>
<td>Social engineering risk assessment</td>
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<td>J</td>
<td>Application security assessment</td>
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<tr>
<td>K</td>
<td>Security audits</td>
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<tr>
<td>L</td>
<td>Vulnerability scanning</td>
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<tr>
<td>M</td>
<td>Medical device security audits</td>
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<tr>
<td>N</td>
<td>Security awareness training</td>
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<tr>
<td>O</td>
<td>Vendor security (or risk) assessments</td>
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<tr>
<td>P</td>
<td>System/data access audits</td>
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<tr>
<td></td>
<td>Purple Team Exercises NEW</td>
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<tr>
<td></td>
<td>Incident response tabletop exercises NEW</td>
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</tbody>
</table>
How often are the results of the following security assessments, audits, analysis, exercises, or testing reported to leadership? (Check one per row.)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Quarterly or more often</th>
<th>Annually</th>
<th>Every 2 years</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>A  Progress on security is tracked and reported to leadership</td>
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<tr>
<td>B  Gaps or continuing deficiencies reported to leadership</td>
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<tr>
<td>C  Business units are involved helping to prepare remediation plans after the work (above) is performed</td>
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</tbody>
</table>

Does your organization(s) have any of the following insurance coverages related to cybersecurity? (Check all that apply.)

A. Cyber liability  
B. Data breach  
C. Crime insurance coverage  
D. Business loss  
E. Network security and privacy  
F. Media liability  
G. Natural disaster NEW  
H. None

Which of the following information sharing and analysis organizations is your organization(s) participating with to identify cybersecurity threats and vulnerabilities? (Check all that apply.)

A. Cyber Information Sharing and Collaboration Program (CISCP): DHS’s program for public-private information sharing  
B. Health Information Trust Alliance (HITRUST)  
C. Informal sharing in HIT user groups  
D. Informal sharing in professional society  
E. Health Information Sharing and Analysis Center (H-ISAC)  
F. State hospital associations  
G. Department of Homeland Security/ CISA  
H. National Cybersecurity & Communication Integration Center (NCCIC)  
I. Health Cybersecurity & Communication Integration Center (HC3)  
J. Private Information Sharing and analysis organizations NEW  
K. None of the above
(PDF-021) If you have a documented risk management program, what is the highest level the results are reported to? (check one)

A. Board of trustees, or committee of the board
B. Executive leadership / executive governance
C. IT leadership
D. Results are not reported in a formal way
E. We do not have a documented risk management program

(PDF-022) What components are included in your documented risk management program? (check all that apply)

A. Risk responsibilities
B. Mitigation steps for an event
C. Environmental contingency plan (Floods, Earthquake, Etc) NEW
D. Demonstration – Intrusion contingency plan NEW
E. Other contingency plan NEW
F. Risk Level Identification
G. Risk registers
H. Risk assessment
I. Scheduled Required Training and Documentation NEW
J. We do not have a documented risk management program

(PDF-023) Which of the following activities are included in your business vendor or third-party risk management program? (Check all that apply)

A. An inventory of all business vendors
B. List of 3rd party vendors that is prioritized based on the risk to your organization
C. We are evaluating high risk vendors
D. Our business vendors have completed their sub-contractor related assessments.
E. We do not have a business vendor or third-party risk management program
Do you have a comprehensive incident response plan with these components? (Check all that apply.)

A. Documented tier 1 outage procedures  
B. Security/privacy breach notification procedures  
C. Planning and exercises including HR team  
D. Planning and exercises including legal team  
E. Planning and exercises including resource management (materials management/supply chain) team  
F. Planning and exercises including marketing & communications team  
G. Planning and exercises including other members of the organization  
H. Tabletop exercise at least annually  
I. Enterprise-wide exercise at least annually  
J. Disaster recovery plan tied to organizational business continuity plan  
K. Documented incident response team roster and responsibilities  
L. Post incident review, remediation and accountability process documented  
M. No comprehensive incident response plan

Please estimate how quickly your organization(s) can restore mission critical operations if a disaster causes the complete loss of your primary data center? (Check one per operation.)

<table>
<thead>
<tr>
<th>Operation</th>
<th>0 – 4 hours</th>
<th>5 – 8 hours</th>
<th>9 – 24 hours</th>
<th>2 – 3 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Clinical information systems</td>
<td></td>
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</tr>
<tr>
<td>(EHR, lab, radiology)</td>
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<tr>
<td>b. Financial systems</td>
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<tr>
<td>(payroll, patient accounting)</td>
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<tr>
<td>c. Human resources and staffing</td>
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<td></td>
<td></td>
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<tr>
<td>systems</td>
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<td></td>
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<tr>
<td>d. Supply chain management systems</td>
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</tbody>
</table>
In the event of an emergency, what communication equipment and services does your staff use? (Check all that apply.)

A. Fixed line network
B. First Responder Network
C. Satellite phone, VSAT, MSAT and other satellite communications
D. Government Emergency Telephone Service (GETS) cards
E. Wireless Priority Service (WPS) service
F. Telecommunication Service Priority (TSP)
G. Crisis communications platform
H. None
(PDF-027) Select the primary method your organization(s) uses to complete the majority of these pharmacy supply activities. (Select the one that best describes your situation.)

- **Automated**: More than 50% of the activities are handled via electronic interfaces with appropriate internal controls (e.g., EDI, API integration, web)
- **Semi-automated**: More than 50% of activities are handled via electronic transaction (data keyed in), electronic tracking systems, and electronic usage reports
- **Manual**: More than 50% of activities are handled by telephone or fax

<table>
<thead>
<tr>
<th>Activities</th>
<th>Automated</th>
<th>Semi-Automated</th>
<th>Manual/Phone/Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Check Product price/Contract Price</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>B Check product availability</td>
<td></td>
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<tr>
<td>C Process Purchase Requisition</td>
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<td></td>
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<tr>
<td>D Process Purchase order</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Check order Status/routing</td>
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<td></td>
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<tr>
<td>F Received Order/Check-in</td>
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<td></td>
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<tr>
<td>G Receive Invoice</td>
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<tr>
<td>H Pay Invoice</td>
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</tbody>
</table>

(PDF-028) For what percentage of pharmaceutical supplies is an electronic order generated when they reach a predetermined par level? (Check one.)

- A. 81-100%
- B. 61-80%
- C. 41-60%
- D. 21-40%
- E. 1-20%
- F. None
Select the primary method your organization(s) uses to complete the majority of these medical/surgical supply activities. (Select the one that best describes your situation.)

- **Automated**: More than 50% of the activities are automated via electronic interfaces with appropriate internal controls (e.g., EDI, API integration, web)
- **Semi-automated**: More than 50% of activities are handled via electronic transaction (data keyed in), electronic tracking systems, and electronic usage reports
- **Manual**: More than 50% of activities are handled by telephone or fax

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>A Check Product price/contract price</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>B Check Product availability</td>
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<tr>
<td>C Process Purchase Requisition</td>
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<tr>
<td>D Process Purchase order</td>
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<tr>
<td>E Check order status/routing</td>
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<tr>
<td>F Receive Order/Check-in</td>
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<tr>
<td>G Receive Invoice</td>
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<td></td>
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<tr>
<td>H Pay Invoice</td>
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</tbody>
</table>

For what percentage of medical/surgical supplies is an electronic order generated when they reach a predetermined par level? (Check one.)

A. 81-100%
B. 61-80%
C. 41-60%
D. 21-40%
E. 1-20%
F. None
(PDF-031) Please estimate the percentage of use of auto-ID technology (bar code and RFID) for tracking/identifying each item listed below. (Check one per row.)

<table>
<thead>
<tr>
<th>Tracking/Identifying of:</th>
<th>RFID</th>
<th>Barcode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt;90%</td>
<td>50-90%</td>
</tr>
<tr>
<td>A Movable equipment**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Patient ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Staff ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Blood Supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Surgical Supplies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Medical Supplies</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Medication (bulk)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Medication (unit dose)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I NA for LTPAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J Patient Tracking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Staff Tracking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L Hand Hygiene</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**(IV Pumps, beds, IV poles, wheelchairs, portable x-ray units etc)

(PDF-032) How do you monitor and collect information needed to manage supply/equipment recalls and expiration dates (i.e., product integrity) of the following products? (Check all that apply.)

- **Automated**: More than 90% of activities are handled automated systems as appropriate to the item (e.g. electronic supply cabinet tracking, bar-coding, RFID, unique identifier tracked be database)
- **Semi-automated**: More than 50-89% of activities are handled automated systems as appropriate to the item (e.g. electronic supply cabinet tracking, bar-coding, RFID, unique identifier tracked be database)
- **Manual**: More than 50% of monitoring activities are handled via manual process logs (e.g. pen/paper, electronic document, spreadsheet, etc.)

<table>
<thead>
<tr>
<th>Products</th>
<th>Automated</th>
<th>Semi-Automated</th>
<th>Manual</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Drugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Blood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D NA for LTPAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Vaccines NEW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(PDF-033) Does your organization(s) have a revenue-cycle and contracts-management application that:
(Check all that apply.)

A. Aggregates and measures cost of care across settings
B. Aggregates charges to form bundles and episodes, with the aggregation logic enabling different groupings for different payers
C. Manages the distribution of bundled payments to the clinicians, hospitals and non-acute facilities that delivered the care
D. Provides tools for retrospective analysis of clinical and administrative data to identify areas for improving the quality of care and reducing the cost of care delivered.
E. Reconciles charges and patient accounts to a monthly premium payment, billing co-payments and noncovered charges according to insurance agreements.
F. Supports real-time patient identification and tracking for value-based care conditions, e.g., COPD
G. Provides patients with estimates on out-of-pocket expenses
H. None

(PDF-034) For each of the following payer-related transactions, estimate the percentage of activities conducted using HIPAA compliant transactions. (Check one per row.)

<table>
<thead>
<tr>
<th>Activities</th>
<th>&gt;90%</th>
<th>50-90%</th>
<th>&lt;50%</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Claims Status Inquiry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Claims Submission</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Electronic Funds Transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Eligibility Inquiry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Pre-certification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Referral and authorization</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Remittance Advice</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Address Verification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What Percentage of the following validation activities is accomplished electronically using automated routines and/or software? (Check one per row.)

Definitions:

A. **Charge and order matching**: Keeping charge master up to date as annual HCPCS codes are released and as prices of stocked items changes.

B. **Charge capture reconciliation**: Recording the service and charge to the patient at the point of care through automated systems entry that includes a system application that validates appropriate entry.

C. **Contract management**: Refers to payer contracts and may include the following: (1) Automated system capable of validating whether contracted pricing is properly paid according to the negotiated rate (2) Payer-negotiated rates based on specific patient volumes; system adjusts payments when volume thresholds change.

D. **Denial management**: Identify, quantify, correct, and resubmit denied claims.

E. **Medical necessity criteria checks**: Validating proposed services against local and national policies. Track the causes for medical necessity denials. Monitor/track performance of clinicians, coders, and others on compliance with documentation policies.

F. **Physician performance comparisons**: Both quality and cost-efficiency measures that provide comparisons of individual physician performance against their peers with the goal of improving clinical outcome and appropriate utilization of services.

<table>
<thead>
<tr>
<th>Activities</th>
<th>&gt;90%</th>
<th>50-90%</th>
<th>&lt;50%</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Charge and order matching</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Charge Capture Reconciliation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Contract Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Denial management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Medical necessity criteria checks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Physician-performance comparisons</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Are you using bed/exam room tracking or patient-flow software as described below (bed tracking/patient-logistics management may be functionality included within your electronic health record)? (Check one per row.)

<table>
<thead>
<tr>
<th>System</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>A NA for LTPAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B NA for LTPAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C NA for LTPAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Exam room/bed tracking system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Integrated patient logistics system that includes patient status,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pending orders, critical lab results and room availability for the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>entire enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F RFID/RTLS patient location system integrated into the bed-tracking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>system to automate patient movement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G NA for LTPAC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(PDF-037) Which of these employee management tools are available electronically/online throughout more than 50% of the organization(s)? (Check all that apply.)

A. Self-scheduling of open shifts  
B. Enterprise HR management system or online HR manager portal  
C. Performance-improvement scorecards (organizational improvement)  
D. Goal Management System (employee goals) NEW  
E. Real-time operational budget versus expense monitoring, financial modeling, and budget forecasting  
F. Recruitment/onboarding tools NEW  
G. Benefits/compensation tools NEW  
H. Performance and goal management tools NEW  
I. Learning management system  
J. Automated benefit selection  
K. Workforce management tool (productivity and cost trends)  
L. None

(PDF-038) What types of computer-based education do you provide to clinicians? (Check all that apply.)

<table>
<thead>
<tr>
<th></th>
<th>Physicians</th>
<th>Nurses</th>
<th>Other licensed Providers</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Privacy Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Information Security Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. EHR Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. CPOE Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Data Analytics Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Voice Recognition Software Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Sharing Best Practices for patient Safety</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. Mobile Device Applications Training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Biomed Bar Code Reader Training</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Analytics and Data Management

(PDF-039) What is your status of embedding predictive analytics into the clinician’s workflow?

A. Fully deployed and achieving outcomes
B. Implementing or starting to use
C. Looking to buy
D. Not using

(PDF-040) How is data delivered to clinical and operational leaders? (check all that apply)

- **Visualization tools**: offer the ability to re-structure queries to “drill-down” into the data and filter information by a variety of parameters (date/time, patient, provider, disease, payer, etc.) on the fly.
- **Self-service and visualization tools** offer the same functionality as data visualization tools, but add the ability of end-users to reconfigure the data views to meet the needs of clinical and operational areas

<table>
<thead>
<tr>
<th></th>
<th>Real time analytics</th>
<th>Self-service and Visualization tools</th>
<th>Visualization tools</th>
<th>Spreadsheets/Graphs/Pivot Tables</th>
<th>Paper/ PDF Reports</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Clinical Quality Metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Clinician productivity metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Patient volume metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>EHR utilization/ performance data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Population health metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Patient engagement/ satisfaction metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Person Centric Longitudinal metrics <strong>NEW</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Social Determinant Metric <strong>NEW</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How is data delivered to individual clinicians (nurses, doctors, pharmacists, etc.)? (check all that apply)

- **Data visualization tools** offer the ability to re-structure queries to “drill-down” into the data and filter information by a variety of parameters (date/time, patient, provider, disease, payer, etc.) on the fly.
- **Self-service data visualization tools** offer the same functionality as data visualization tools but add the ability of end-users to reconfigure the data views to meet the needs of clinical and operational areas.

<table>
<thead>
<tr>
<th></th>
<th>Real time analytics</th>
<th>Self-Service and visualization tools</th>
<th>Visualization Tools</th>
<th>Spreadsheets/Graphs/Pivot Tables</th>
<th>Paper/PDF Reports</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Clinical Quality Metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Clinician productivity metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Patient volume metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>EHR utilization/ performance data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Population health metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Patient engagement/ satisfaction metrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Person Centric Longitudinal metrics <strong>NEW</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Social Determinant Metric <strong>NEW</strong></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

(PDF-042) **NA for LTPAC**
What backup systems and data repository models does your organization(s) use? (Check all that apply.)

- A. Cloud services for clinical systems
- B. Cloud services for non-clinical systems
- C. Data as a service (DaaS)
- D. Infrastructure as a service (IaaS)
- E. Storage virtualization
- F. Off-site redundant data center
- G. None

Do you have an analytic tool, such as a dashboard, that allows you to retrieve the following data within the following venues of care? New Question

<table>
<thead>
<tr>
<th>Across all venues without departmental filtering</th>
<th>Outpatient / ambulatory clinics</th>
<th>Peri-operative</th>
<th>Emergency Department</th>
<th>Discharges from inpatient</th>
<th>None/Does not apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. The percentage prescribed controlled substances</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Average MMED (morphine mg equivalent per day) per opioid Rx</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. The percentage of patients concurrently prescribed Benzodiazepines and opioids</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. The percentage of appropriate naloxone prescriptions for high-risk patients (high risk as defined by institution eg. history of OUD, &gt;50 MMED, co-prescribed benzodiazepines)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. The percentage of prescribed controlled substances</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Interoperability and Population Health

(PDF-045) Which of the following entities are your organizations **sending a discrete data to**? (Check all that apply)

A. External hospital / hospital system  
B. External physician practice  
C. Home health agency  
D. Skilled nursing facility, extended/chronic care facility  
E. Retail pharmacy  
F. Government data/records such as immunizations, death records, syndromic surveillance  
G. External laboratories  
H. Health information exchange (HIE)  
I. Insurance companies/payers  
J. Emergency Ambulance Agency NEW  
K. Emergency room not affiliated with a hospital NEW  
L. Cannot send discrete data to external entities

(PDF-046) Which of the following external entities can your organization **consume discrete data from**? (Check all that apply.) (If you answer that you can consume discrete data, we will require a screenshot of this system. Screenshots should be e-mailed to mostwired@chimecentral.org)

A. External hospital / hospital system  
B. External physician practice  
C. Home health agency  
D. Skilled nursing facility, extended/chronic care facility  
E. Retail pharmacy  
F. Government agency such as immunizations, death records, syndromic surveillance  
G. External laboratories  
H. Health information exchange (HIE)  
I. Insurance companies/payers  
J. Emergency Ambulance Agency NEW  
K. Emergency room not affiliated with a hospital NEW  
L. Cannot consume any discrete data into the EHR

(PDF-047) For what percentage of automated transitions of care or referrals does your organization(s) provide a summary care record: (Check one.)

<table>
<thead>
<tr>
<th>Functions</th>
<th>&gt;90%</th>
<th>50-90%</th>
<th>&lt;50%</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directly via EHR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Via a HIE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(PDF-048) Are you using an electronic disease registry to identify and manage gaps in care across a population?

A. Yes
B. No
C. Unsure

(PDF-048b) NA for LTPAC

(PDF-049) Do you have a system to track chronic-care management?

A. Yes
B. No
C. Unsure

(PDF-050) Which chronic disease management services do you provide to patients at home? Include only fully implemented programs (not pilots) for relevant patient population. (Check all that apply.)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Self-test results entered manually online</th>
<th>Self-test results submitted using internet-enabled monitoring device</th>
<th>Medication management/compliance using secure email</th>
<th>Real-time care management</th>
<th>Integrated with EHR</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Asthma</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b. Behavioral health</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c. Cancer</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d. Chronic obstructive pulmonary disease</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>e. Congestive heart failure</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>f. Diabetes</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>g. Heart disease</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>h. Hypertension</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>i. Obesity</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>j. Sickle cell anemia</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>k. End stage renal disease (ESRD)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>l. No services are offered to patients at home.</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
(PDF-051) What types of risk/value-based care contracts is your organization(s) participating in? Please, estimate the percentage of total revenue for each. (check all that apply)

A. Fee-for-service: % revenue:
B. Pay for performance: % revenue:
C. Shared savings (upside risk only): % revenue:
D. Shared saving (upside and downside risk): % revenue:
E. Bundled payments: % revenue:
F. Capitation: % revenue:

(PDF--052a) What technologies are you using to perform the following population health activities? (Check all that apply.)

**Data aggregation:**

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation of a longitudinal record that includes clinical, claims, and care-management interventions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reliable master patient index including duplicate record merging/deletion</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Aggregation of other data sources (social determinants of health, genomics, imaging data, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

52b. Data analysis:

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stratify patients according to risk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tailored advanced predictive/prescriptive analytics (i.e. AI, machine learning)</td>
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<tr>
<td>Ability to identify and tag patient groups to develop internal registries</td>
<td></td>
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<tr>
<td>Prioritized Worklist</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

52c. Care management:

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify gaps in care</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Empower care management workflow with data-driven intelligence</td>
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</tr>
<tr>
<td>Chronic disease management</td>
<td></td>
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</tr>
<tr>
<td>Use of social care networks for SDoH referrals to community organizations</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
52d. Administrative and financial reporting:

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial performance tracking under risk-based contracts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total cost of care analytics</td>
<td></td>
<td></td>
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<tr>
<td>Network utilization tracking and network optimization analysis (i.e. leakage and steering)</td>
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<tr>
<td>Tool to monitor care management performance</td>
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</tr>
</tbody>
</table>

52e. Patient engagement:

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target patients for outreach</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secure messaging between patient, care-providers and care-managers</td>
<td></td>
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<tr>
<td>Full CRM that includes integrated patient portal, outreach, education, and satisfaction</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

52f. Clinician engagement:

<table>
<thead>
<tr>
<th>Activities</th>
<th>EMR</th>
<th>3rd Party</th>
<th>Home grown</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to track clinician usage of population health tools and activities</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Quality measures and analytics at the physician level (including MIPS, MACRA, etc.)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Prioritized guidance on patient care-gaps and statuses</td>
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</tr>
</tbody>
</table>

(PDF-053) Do you electronically coordinate care with clinical partners to perform the following activities? (Check all that apply.)

A. Manage care transitions
B. Build linkages to community-based resources
C. Coordinate and monitor exchanges of information with specialists and other facilities
D. Use call center to support care coordination
E. Secure messaging with patients and health professionals
F. Electronic medication and diagnostic ordering/management
G. Consult/referral management and follow-up communications with electronic authorizations
H. Wellness and prevention **NEW**
I. None
Patient Engagement

(PDF-054) What percent of unique patients have accessed your patient portal within the last 12 months?

A. Percent of unique Patients Accessed:
B. Does not apply (we do not have a patient portal)

(PDF-055) NA for LTPAC

(PDF-056) What information and education opportunities are available to patients and families inside & outside the facility setting via an online or interactive system? (Check all that apply.)

A. Introduce the patient and family to the care environment
B. Introduce the patient and family to the services that will be delivered
C. Parking assistance/location NEW
D. Review the education and other materials provided to the patient and family during a visit
E. Where applicable, exchange secure e-mails with their care team members
F. Continue the care pathway that was initiated prior to or during the clinical encounter
G. Use videos to educate patient and family about procedures
H. Use videos to educate patient and family about medications
I. Use videos to educate patient and family about lab tests and results when available
J. Participate in virtual patient visits (clinician and patient).
K. Email appointment reminders
L. Participate in virtual visits (patient and family)
M. Remote patient monitoring
N. Self-scheduling
O. Automated check-in on arrival/self-check-in
P. Wayfinding via wireless guidance
Q. Schedule of individual activities, dining experiences, electronic maintenance requests
R. No online capabilities are available.
(PDF-057) How is your organization(s) engaging patients and their families through a patient interactive system inside of the facility setting? Please do not include pilots. All services/capabilities should be fully deployed HIT based products and services. (Check all that apply.)

A. Control the environment such as reporting problems that are not clinical in nature such as room temperature
B. Order meals and snacks subject to dietary restrictions
C. View all the functions on the traditional “white board” (staffing identification, schedule, patient goals, family goals, contact information)
D. Participate in the discharge/checkout planning process
E. Submit patient satisfaction responses
F. Recognize staff who have performed above satisfaction
G. Use e-mail, browsing, and entertainment
H. Use videos to educate patient and family about procedures NEW
I. Use videos to educate patient and family about medications NEW
J. Use videos to educate patient and family about lab tests and results when available NEW
K. View health education videos NEW
L. Staff video introductions NEW
M. None of these services/capabilities are available

(PDF-058) How are your organization(s) staff members helping to promote patient and family engagement in a facility setting through a patient interactive system? Please do not include pilots. All services/capabilities should be fully deployed HIT based products and services.

(If you answer that you have these capabilities, we will require a screenshot of this system. Screenshots should be e-mailed to mostwired@chimecentral.org)

A. Initiate a patient pathway that uses HIT to follow a care plan specific set of processes
B. Monitor patient and family engagement in real-time so that adjustments can be made during the clinical activities
C. Perform data analysis that will assess efficacy and facilitate engagement
D. Training the family/resident on patient interactive devices NEW
E. None of these services/capabilities are available
What functionalities are included in mobile apps provided for patients? (These should be apps created for a mobile handheld device and should NOT include responsive designed websites) (Check all that apply.)

A. Alerts/notifications from mHealth devices
B. Click-to-call contact directory
C. Electronic insurance card
D. ER wait times
E. E-visit/virtual assistant
F. Health library
G. Patient portal
H. Personal health record
I. Personal health tracker
J. Real-time news and blog feed
K. Renew prescription
L. Schedule visit
M. Secure messaging (one way/two way)
N. Wayfinding with floor plans and maps
O. Price list for different services
P. Text appointment reminders
Q. Location Sharing for assistance NEW
R. Health Maintenance Campaigns NEW
S. Mobile Check In NEW
T. Telemedicine Integration NEW
U. Event Alerts NEW
V. No mobile app is available

Do you provide the ability for a patient to create or edit a personal health record via a patient portal on your website and/or in partnership with a third-party PHR vendor? (Check one.)

A. Yes, fully rolled out
   • What percentage of unique patients have used this tool? ____
B. Yes, pilot program
C. No

NA for LTPAC
Which of the following telemedicine services does your organization(s) use to conduct diagnostic and therapeutic medical exchanges between patients and providers, and at which sites do you provide these services? (Check all that apply.)

<table>
<thead>
<tr>
<th>Telemedicine Service</th>
<th>Physician Office</th>
<th>Hospital</th>
<th>Post-Acute facilities (SNF, LTC, etc.)</th>
<th>Patient’s Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Consultations and office visits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Pharmacologic management</td>
<td></td>
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</tr>
<tr>
<td>C Behavioral Health</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>D Rehabilitation</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>E NA for LTPAC</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>F Stroke care</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G e-ICU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Inpatient management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I Genetic counseling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J Addiction treatment and counseling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Remote monitoring in the home</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L No Telemedicine services available in this area</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

What percent total patient visits are performed using telemedicine? (Reworded question)

a. __________

What percent of your providers in your organization use telemedicine technology? New Question

b. __________

Please describe how your organization(s) is using personal health tracking data from patient’s wearable(s):

A. Patient’s wearable data is integrated with patient portal (Never, Sometimes, Always)
B. Patient’s wearable data is integrated with EHR (Never, Sometimes, Always)
C. Patient’s wearable data is used in a meaningful way by clinicians (Never, Sometimes, Always)
Clinical Quality and Safety

(PDF-066) What frequency are the following orders in use throughout your organization?

(Slide percent bar next to each)

A. CPOE
B. Closed loop bar-coded (or RFID) meds administration to match patient to drug (formulation, dose, route, date/time)
C. Closed loop bar-coded (or RFID) matching of patient to blood products administration
D. Radiology orders supported by imaging decision support

(PDF-067) NA for LTPAC

(PDF-068) NA for LTPAC

(PDF-069) Which of the following nurse activities are electronic for your organization? (Check all that apply.)

A. Discharge/checkout/ADT checklist sends alerts for unmet criteria
B. Discharge/checkout/ADT risk assessment
C. Embedded links to relevant research and quality measures
D. Evidence-based plan of care with links to reference literature
E. Post-discharge/checkout follow-up
F. Standardized care transition process
G. Capture patient education assignments and status
H. Provider hand-off tools
I. Routine Regulatory Assessments NEW
J. Taking/Recording vital signs NEW
K. Medication Administration Documentation NEW
L. None
Which of the following patient monitoring equipment in your organization(s) routinely sends information directly to the EHR? (Check one per row.)

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Fully Deployed</th>
<th>Partially Deployed</th>
<th>Not Deployed</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Blood pressure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Lab tests</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Pulse oximetry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Blood glucose</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Cardiovascular catheter output</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G EKG</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H NA for LTPAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I Intracranial monitor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J IV pump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Ventilator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L In-bed scale</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>M Medication Dispensing Instrument NEW</td>
<td></td>
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</tr>
</tbody>
</table>

What percent of your clinicians are using the following real-time quality reporting resources? If none, put 0%. (Slide percent bar next to each option) (If you answer that you have real-time reporting, we will require a screenshot of this system. Screenshots should be e-mailed to mostwired@chimecentral.org)

A. Clinical decision support rule for high-priority hospital/health condition
B. Critical values
C. Dose checking (max/min)
D. Dose suggesting (e.g., renal failure)
E. Drug allergy alerts
F. Drug formulary check
G. Drug-diet checking
H. Drug-to-drug interaction alerts
I. Duplicate order alerts
J. Predictive analytics
K. Radiology decision support
L. Medication Management NEW
M. Deprescribing NEW
N. Polypharmacy NEW
O. Pharmacogenomics NEW
P. Other Decision Support (Falls Prevention, Pressure Ulcer Prevention, Chronic Disease Management) NEW
What functionalities are fully deployed in your integrated surveillance system with the EHR? (Check all that apply.)

- a. Monitor patient vital signs
- b. Monitor lab test results
- c. Monitor medication administration
- d. Monitor other clinical information
- e. Send electronic alert notifying caregivers (e.g., deterioration in patient’s condition; possible adverse event)
- f. Monitor falls NEW
- g. Monitor pressure Ulcers NEW
- h. Monitor change of condition NEW
- i. No surveillance system

In what units/reporting do you use an integrated surveillance system with the EHR to monitor patients?

- A. Critical care units
- B. Step-down units
- C. General medical-surgical units
- D. “Present on admission” reporting
- E. Dementia units
- F. Residents Room
- G. No surveillance system

Please estimate the percentage of discharge/check-out medication orders (for new or changed prescriptions) transmitted as an electronic prescription. (Check one.)

- A. >90%
- B. 50-90%
- C. <50%
- D. None

By what method does your organization(s) track Hospital-Acquired/Onsite Infections? (Check all that apply.)

- A. Manual only
- B. Electronically stored (e.g., departmental system)
- C. Integrated with EHR
- D. No method to track Hospital-Acquired/Onsite Infections

NA for LTPAC
(PDF-078) Does your organization(s) engage in the following opioid use reduction programs and how impactful are those programs on reducing opioid use?

<table>
<thead>
<tr>
<th>Opioid Use Reduction Programs</th>
<th>Organization Engagement (Yes/No/NA)</th>
<th>Program Impact on Reducing Opioid Use (1 low – 9 high; NA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limiting doses/pills per prescription</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of non-narcotics in order-sets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic physician education programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic patient education programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic prescribing of controlled substances (EPCS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-Prescribing module connected to state/regional PDMP (prescription drug monitoring program) data base</td>
<td></td>
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</tr>
</tbody>
</table>

(PDF-079) Does your organization(s) engage in the following antipsychotic use reduction programs and how impactful are those programs on reducing antipsychotic use? **New Question**

<table>
<thead>
<tr>
<th>Antipsychotic Use Reduction Programs</th>
<th>Organization Engagement (Yes/No/NA)</th>
<th>Program Impact on Reducing Antipsychotic Use (1 low – 9 high; NA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limiting doses/pills per prescription</td>
<td></td>
<td></td>
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<tr>
<td>Use of non-antipsychotic in order-sets</td>
<td></td>
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<tr>
<td>Electronic physician education programs</td>
<td></td>
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<tr>
<td>Electronic prescribing of controlled substances (EPCS)</td>
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<td></td>
</tr>
<tr>
<td>E-Prescribing module connected to state/regional PDMP (prescription drug monitoring program) data base</td>
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</tr>
</tbody>
</table>

(PDF-080) Are you using machine enabled detection to identify any of the following possible prescribing anomalies? (check all that apply)

- a. Unusual/unsafe drug interactions
- b. Prescriptions outside dosing guidelines
- c. Unusual/unsafe drug use
- d. Abnormal prescribing practices
- e. Not using machine enabled detection to identify possible prescribing anomalies
(PDF-081) Which of the following e-prescribing functions do you provide, and which physician practices do you provide them for? (Check all that apply.)

<table>
<thead>
<tr>
<th>Functions</th>
<th>Employed Physicians</th>
<th>Independent Practicing Physicians</th>
<th>Do Not Provide</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Capture pharmacy dispense history</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Check payer-based formulary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Check allergies, drug-drug interactions</td>
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<td></td>
<td></td>
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<tr>
<td>D</td>
<td>Prescription automatically faxed to retail pharmacy</td>
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<tr>
<td>E</td>
<td>Prescription sent electronically to retail pharmacy (do not include fax)</td>
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<tr>
<td>F</td>
<td>Prescription discontinued transmitted electronically to retail pharmacy (do not include fax)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Renewal request received by fax from retail pharmacy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Renewal request received electronically from retail pharmacy (do not include fax)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Electronic prescribing of controlled substances</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Connection to prescription drug monitoring program integrated within EHR</td>
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</tbody>
</table>

(PDF-082) Across your health system what percentage of controlled substances (schedules 2-4) are prescribed electronically (not printed or handwritten) New Question

a._______ (percent slide bar)

(PDF-083) Can you somehow identify and track the percent of electronically prescribed controlled substances (schedule 2-4) across the following venues of care? New Question (Not scored)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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<tr>
<td>B</td>
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<td></td>
<td></td>
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<tr>
<td>C</td>
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<td></td>
<td></td>
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<tr>
<td>D</td>
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<td>E</td>
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<tr>
<td>F</td>
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</tr>
</tbody>
</table>

Hospital discharges

Emergency Department

Outpatient/Ambulatory Clinics

Peri-operative

Oncology

Palliative Care
(PDF-084) Does your EHR prompt you to review your state’s PDMP at an appropriate point in the clinician’s workflow, (i.e. when a provider initiates an eRx for a controlled substance?) New Question
   A. Yes
   B. No
   C. NA

(PDF-085) If PDMP integration is permitted in your state, can clinicians access the PDMP directly from the EHR? New Question
   A. Yes, with SSO and preserves patient context
   B. Yes, with SSO only
   C. No
   D. NA

(PDF--085b) If yes, does your EHR provide any of the following?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Interpretation guidance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Risk scoring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Decision support</td>
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<td></td>
</tr>
</tbody>
</table>

(PDF-086) Which best describes your Drug Diversion Monitoring Program today (please report the highest level you currently utilize)? New Question (Not scored)
   A. Extensive proactive monitoring with an Advanced Analytics tool
   B. Minimal proactive monitoring with a report-based tool
   C. Manual process including monthly Controlled Substance Audits
   D. Manual process primarily responding to employee tips
   E. We do not have a Drug Diversion Monitoring Program
<table>
<thead>
<tr>
<th></th>
<th>Are you using the following opioid use reduction mechanisms? New Question</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
<th>Program Impact on Opioid Usage (1=low; 9=high)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Order set maintenance: Do greater than 50% of order sets containing opioid options default or suggest limiting doses/MME?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Order set maintenance: Do greater than 50% of order sets default or offer non-opioid options?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Automated patient opioid education and/or instructions for greater than 50% of patients prescribed opioids?</td>
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<td>D</td>
<td>Identify patients with documented or at risk of Substance Use Disorder (SUD) for referral? NOT SCORED</td>
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<td>E</td>
<td>Are you able to identify patients who may be appropriate for MOUD (medication for opioid use disorder) and initiate treatment (e.g. buprenorphine) while inpatient or in ER? NOT SCORED</td>
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<td>F</td>
<td>EHR/system prompts to perform urine drug screens (UDS) at least once per year for patients being prescribed chronic opioids?</td>
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<td>G</td>
<td>System to prompt creation of a controlled substance agreement in appropriate patients? NOT SCORED</td>
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<td>H</td>
<td>If a patient has an opioid agreement on file, does the system make that available to appropriate treating providers?</td>
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</table>
COVID-19 Response (This section is not scored)

(PDF-088) Do you use technology for the management of COVID-19 contact tracing in your environment?
   A. Yes
   B. No

(PDF-088b) -If yes- Do you plan to continue using contact tracing for other communicable illnesses beyond Covid-19?
   A. Yes
   B. No
   C. Unsure

(PDF-089) IS your EHR able to report the following data to state local or federal public health entities? (Select all that apply)
   A. COVID-19 testing
   B. Bed capacity
   C. Vaccination
   D. None

(PDF-090) What percentage of non-clinical employees currently have a work from home status to limit exposure?
   a._______ (percent slide bar)

(PDF-091) Does your organization plan on maintaining work from home status for non-clinical employees to limit exposure, throughout the remainder of the pandemic?
   D. Yes
   E. No
   F. Unsure

(PDF-092) Do you plan to continue telehealth services in the future regardless of whether the government continues to offer Medicare flexibilities or not?
   G. Yes
   H. No
   I. Unsure
(PDF-093) Did the lack of a universal patient identifier (UPI) hinder your ability to track patients for covid-19 related services including:

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<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Unsure</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Testing</td>
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<tr>
<td>B</td>
<td>Tracing</td>
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<td>C</td>
<td>Bed usage</td>
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<tr>
<td>D</td>
<td>Vaccination</td>
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</tbody>
</table>

(PDF-094) Did COVID-19 hinder your ability to respond or plan for emergent cybersecurity threats?

J. Yes
K. No
L. Unsure

(PDF-095) Did you receive funding to support your telehealth implementation or administration from the following? (select all that apply)

A. Provider Relief Fund
B. FCC COVID-19 Telehealth Program
C. HRSA Rule Telehealth Program
D. State Program
E. We did not receive funding support

(PDF-96) Did the lack of broadband access hinder or eliminate the ability for providers to provide telehealth services or patients to receive them?

A. Yes, we could not provide them due to broadband
B. Yes, patients could not receive them due to broadband
C. No, we had no issues delivering telehealth

(PDF-97) Which of the following initiatives is your organization currently using to address ongoing financial constraints? Check all that apply.

A. Staff reduction
B. Hiring freeze or slow down
C. Reduction of employee hours
D. Compensation reductions
E. Operational budget cuts
F. Capital budget cuts
G. Training and education budget cuts
H. Travel restrictions
I. Real estate reductions
J. Other
K. None