CHIME Digital Health and and a survey

HEALTHCARE'S MOST WIRED: NATIONAL TRENDS 2021

Introduction

The COVID-19 virus has tried the healthcare system in innumerable ways. Despite these challenges, healthcare employees, organizations and vendors have fought back and continue to fight against this global pandemic. HealthCare's Most Wired research strives to evolve and push technology standards to better support healthcare organizations, thereby improving care delivery and enhancing the patient experience—during and beyond the pandemic.

Over the past four years, the Most Wired survey has expanded to ambulatory and long-term/post-acute care (LTPAC) facilities. Each year, an average of 2,200 acute care facilities across the United States are represented. Participating ambulatory facilities have more than doubled since 2019 (the first year they were measured), increasing their numbers to 33,829 in 2021. An increasing number of LTPAC facilities have participated as well (449 in 2021).

Across all healthcare organization types, average final scores have continued to increase over the past four years as organizations advance their technology and practices.

The areas that have seen the biggest overall score improvements include patient engagement, interoperability and population health management. This change reflects an increasing desire for transparency (in care and in healthcare billing), telehealth and value-based care. Over the years, acute care organizations have also notably increased their overall score for clinical quality and safety (up 17.2 percentage points since 2018).

Throughout this report, findings and trends are generally parallel for acute and ambulatory care organizations, while LTPAC organizations tend to have lower adoption or have reached a less-advanced technology state compared to their acute and ambulatory care counterparts. Unless otherwise specified, data shown is focused on acute care.

Average Final Score



Note: Final scores are given at the organization level; organizations may comprise many different facilities.

Table of Contents

- 2 COVID-19
- 3 Value-Based Care
- 4 Population Health Management
- 6 Opioid Management
- 7 Patient Engagement
- 9 Security
- 10 Other Findings

COVID-19

Contact Tracing Technology Rare but Part of the Future

Although advanced tools for contact tracing are available—such as proximity tracing through Bluetooth technology—few organizations were able to use this technology to trace COVID-19 transmission in the last year (13% of acute care, 10% of ambulatory care, 9% of LTPAC). It has been much more common for organizations to rely on manual tracing via phone calls and spreadsheets (used by about 77% across organization types). Looking to the future, however, about half of surveyed organizations plan to continue using contact tracing technology for communicable diseases beyond COVID-19. Plans to Continue Using Contact Tracing Technology for Other Communicible Illness Beyond COVID-19



Use of Contact Tracing Technology for COVID-19 Management (n=401)



Patient Flow Adoption Continues to Grow

Adoption of patient flow software has continually increased over the past several years. Nearly 87% of organizations (acute and ambulatory care) have adopted an enterprise-wide patient flow system, and high adoption in critical areas has been beneficial during the pandemic. RFID/RTLS utilization is still minimal, but there has been a slow increase as adoption among acute care organizations grew by 4 percentage points from 2020 to 2021.

Adoption of Bed-Tracking or Patient Flow Software/Capabilities

Bed tracking/patient flow in ED (n=400)Bed tracking/patient flow in ICU (n=393)

 $\begin{array}{l} \mbox{Enterprise-wide electronic} \\ \mbox{patient-logistics management } (n\!=\!400) \\ \mbox{RFID/RTLS patient-location system integrated} \\ \mbox{into bed-tracking system } (n\!=\!397) \end{array}$



Strong Reporting Capabilities for Vaccination Data

Organizations report that during the pandemic, they have had an excellent ability to communicate with public health entities via their EHR. Three-quarters of organizations are able to share bed-capacity information via the EHR to better coordinate care. Over 90% of organizations can report data on vaccination and COVID-19 testing to local, state and federal agencies. Slightly fewer ambulatory and LTPAC organizations are able to report this same data.

Data Reportable by EHR to Local, State, and Federal Public Health Entities (n=401)



Travel Restrictions and Operational Budget Cuts Relieve Financial Pressure

For all organization types, the most frequently implemented costreduction initiatives in the past year were travel restrictions and operational budget cuts (used by about 60%–70% of organizations). The percentage of LTPAC organizations that had operational budget cuts was 12 points higher than acute and ambulatory care organizations. Many non-clinical employees also began working from home. Nearly one-quarter of organizations (23% of acute care, 24% of ambulatory care, 20% of LTPAC) report having >75% of non-clinical employees working from home. Regardless of their current work-from-home levels, about three-quarters of organizations plan to expand or maintain work-fromhome opportunities for non-clinical employees.

Initiatives Implemented to Address Ongoing Financial Constraints (n=401)



Value-Based Care

Alternative Payment Model Adoption Has Slowed amid Pandemic Pressures

While a higher percentage of organizations are participating in individual value-based care payment models (up an average of 5 percentage points compared to 2020), the share of organizations relying more heavily on fee-for-service payment models has also grown. With immense financial pressure from the COVID-19 pandemic and limited resources to push for value-based care initiatives, alternative payment models have taken a back seat. In 2020 the average total revenue from fee-for-service models was 71%; in 2021 that number increased to 76%, surpassing the 2019 total of 74%.

Lower-risk alternative payment models continue to see greater adoption than higher-risk models. The rate of adoption increase is higher for certain payment models; shared savings with upside risk only and shared savings with both upside and downside risk grew the most (by 9 and 7 percentage points, respectively). A greater share of acute care organizations (50%) engage in bundled payments compared to ambulatory care (44%) and LTPAC organizations (43%).

Price Transparency an Increasing Priority; Room for Growth in More Complex Capabilities

The adoption of revenue cycle and contract management capabilities was consistent overall during the past year, with 2021 seeing a particularly large increase in organizations adopting the ability to estimate patient out-of-pocket expenses (up 19 percentage points). This increase is largely due to <u>CMS' new</u> <u>proposed requirements</u> for increased price transparency. An even higher percentage of ambulatory care and LTPAC organizations report the ability to provide out-of-pocket price estimates (86% and 91% respectively, compared to acute care at 83%). It is important to note, however, that not all price transparency mechanisms and tools are equal in their accuracy and ability to handle the complexity of healthcare costs.

A wide spectrum of capabilities is included under price transparency. The most basic is providing a list of procedures and services with associated prices; nearly all organizations have this available to patients (95% of acute care and 92% of ambulatory care). 50% of acute care organizations are able to offer that price list via a mobile app. Other price transparency capabilities have increased in adoption by an average of 20 percentage points since 2020.

Insurance is a major factor in determining what patients will have to pay, so it is encouraging that the second-most-adopted price transparency capability is cost burden estimates based on insurance type (67%). Price comparisons by insurance plan/type and network have the largest upticks in adoption since 2020 (up 37 percentage points and 36 percentage points, respectively).

Percent of Total Revenue Coming from the Following Payment Models



Organizations Participating in the Following Payment Models

2021 (n=401) 2020 (n=424) 2019 (n=459)





Price Transparency Capabilities Provided to Patients



Population Health Management

Steady Participation in Population Health Activities

Participation in population health activities has remained steady in the last year, with the average increase ranging from 1–4 percentage points. The activity with the highest adoption increase is use of tailored advanced analytics (up 6 points); however, advanced analytics remains one of the least adopted population health activities (in use by 78% of acute care and ambulatory care organizations and 63% of LTPAC). Only two other population health activities are adopted by <90% of acute care organizations: use of social care networks for social determinants of health (81%) and full CRM (74%). These three activities are also the ones most often done via homegrown solutions (by 20%–26% of organizations).

Across population health activities, most organizations rely on their EHR or a combination of technologies. On average, three-fifths of organizations using multiple types of technology use their EHR and a third-party solution. Third-party solutions are used more often than EHRs outside the clinical setting (primarily administrative and financial reporting). Across activities, LTPAC organizations are much more likely to use homegrown solutions.

Technology Used for Population Health Anagement Activities (n=401)	EHI	R only mbination	Third- of 2 or r	party o nore to	nly ol types	Homegrow	n only			
ata Aggregation	0%								100)%
Reliable master patient index, including duplicate-record merging/deletion			52%			6%	L	10%		2
Compilation of longitudinal record that includes clinical, claims, and care management data		31%		8%	1%		55%		5%	
Aggregation of other data sources (social determinants of health, genomics, imaging data, etc.)		29	%	6%	2%		55%		8%	
ata Analysis										
Risk-based patient stratification		28%		9%	2%		57%		4%	
Identification and tagging of patient groups to develop internal registries		37	′%		4% 1%		51%		7%	
Tailored advanced predictive/prescriptive analytics (i.e., AI, machine learning)		26%	٤	3%	2%	42%		2	2%	
Prioritized worklist		3	9%		5%	2%	49%		5%	
are Management										
Care-gap identification		359	%	5	% <mark>4%</mark>		5	3%	3%	
Chronic disease management			42%		4%	1%	50%		3%	
Care management workflow empowered with data-driven intelligence		37	²%		5% <mark>4%</mark>		47%		7%	
Use of social care networks for SDOH referrals to community organizations		23%	13	3%	5%	39	%		20%	
dministrative & Financial Reporting										
Network-utilization tracking and network-optimization analysis	14	%	26%	þ	7%		44%		9%	
Financial performance tracking under risk-based contracts	129	/o	28%		7%		43%		10%	
Total-cost-of-care analytics	10%		29%		8%		44%		9%	
Tools to monitor care management performance		23%		18%	4%		46%		9%	
atient Engagement										
Targeting patients for outreach	3	1%		7%	2%		57%		3%	
Secure messaging among patients, care providers, and care managers			50%			8%	3	9%		
Full CRM (including integrated patient portal, patient outreach, patient education, and patient satisfaction solutions)		22%	11%	6 2	!%	39%		26	%	
linician Engagement										
Prioritized guidance on patient care gaps and statuses		37	%		6%	3%	47%		7%	
Quality measures and analytics at the physician level (including MIPS, MACRA, etc.)		35%	%	e	% 1%		56%			2%
Tracking clinician usage of population health tools and activities			44%			8% 2%	35%		11%	
	0.07									

Population Health Management (continued)

Advanced Analytics Increasingly Adopted

Adoption of advanced analytics is growing, and they are more often embedded in the clinician workflow. Certain analytics tools are more highly adopted-specifically, analytics for total cost of care (adopted by 91% of organizations) and physician-level quality measures (adopted by 98%). Tailored advanced analytics, while less adopted overall, are growing in use. For example, more acute care organizations are fully deploying embedded predictive analytics into the clinician workflow (up from 44% in 2020 to 55% in 2021). This growth is paralleled in ambulatory care organizations, though to a lesser degree (current adoption is 52%); the gap is even larger for LTPAC, where current adoption is 40%. Real-time analytics have also been increasingly adopted to deliver key metrics information to clinical and operational leaders as well as individual clinicians. The use of data-visualization tools and self-service data-visualization tools to deliver metrics information increased 3 and 8 percentage points respectively in the last year. Real-time analytics grew in adoption by an average of 15 percentage points, though it remains less adopted (by 10-20 percentage points) than other analytics tools.

Status of Embedding Predictive Analytics into Clinician Workflow



Method by Which Key Metrics Are Delivered to Stakeholders (n=401)



Opioid Management

Expansion of Opioid-Use Reduction Technology and Mechanisms

Adoption of opioid-use reduction interventions increased by an average of 20 percentage points from 2019 to 2020, but that growth slowed significantly in 2021 (up about 3 percentage points). Still, organizations are reporting a greater number of interventions in use at their organization. One-third of organizations use 10 or more of the interventions in the Most Wired survey. There is a positive correlation between the number of interventions an organization uses and the average overall impact of those interventions on reducing opioid use. Order set maintenance (multiple types) and electronic prescribing—foundational elements of any opioid-use reduction program—are some of the most adopted interventions (86%–100%). LTPAC organizations report markedly less adoption across all opioid-use reduction interventions (15 percentage points lower on average), while adoption is quite similar across acute and ambulatory care.

Information Technology Support and Mechanisms in Use for Opioid-Use Reduction



Impact on Opioid-Use Reduction (n=401)

High (8–9) Medium (4–7) Low (<6)



The highest-impact intervention for opioid-use reduction is connecting the ePrescribing module with the state or regional prescription drug monitoring program (PDMP) database. Although almost all states have a statewide PDMP database, 21% of acute care organizations report clinicians can't access the PDMP directly from the EHR or that the connection doesn't apply to them (20% for ambulatory, 28% for LTPAC). Of the clinicians who have access from the EHR, 68% can connect through SSO while preserving patient context, and the remaining 11% connect through SSO only (patient context not preserved). With an EHR/PDMP connection, clinicians have easier access to more data, helping improve treatment plans.

Direct Clinician Access to PDMP through EHR (n=399)





Patient Engagement

Patient Telehealth Use Stabilizes

Usage and availability of telehealth services have stabilized since 2020. 80% of acute and ambulatory care organizations report that >10% of patients have used telehealth services in the last year (68% of LTPAC organizations report the same level of usage). This represents an increase in telehealth usage overall; however, slightly fewer organizations report >25% of patients using telehealth, in contrast to the dramatic growth that occurred in this group from 2019 to 2020. The percentage of providers who have provided telemedicine is very large—one-third of ambulatory organizations say 90% of their providers have used telemedicine in their practice. 61% of organizations report having had no telehealth issues caused by broadband access limitations; 39% have encountered broadband limitations on the patient's end that prevented access to telehealth.

Telehealth Usage



Locations Where Telehealth Services Are Offered



2020 saw a dramatic increase in the breadth of locations where telehealth services were offered (by an average of 33 percentage points). Now, more than a year after the pandemic began, that increase has slowed; across locations of service, the average growth in telehealth offerings was 2 percentage points, with the largest increase being in patients' homes (up 9 percentage points). Telehealth in post–acute care facilities continues to trail behind.

When it comes to types of telehealth services offered across locations, no service offering increased more than 9 percentage points in 2021. Most services increased by 2-4 percentage points, with a few exceptions. In the last year, stroke care telehealth has increased in use by 9 percentage points in physician offices (up to 45%) and patient homes (up to 30%); behavioral health and addiction treatment/counseling have also increased 8 percentage points in patient homes (up to 70% and 76%, respectively).

Patient Engagement (continued)

Patient Portal and Mobile Apps Expand Capabilities

83% of acute care organizations report high use of patient portals by patients (i.e., 25%+ have accessed the portal in the last year). LTPAC organizations see similar usage levels as acute care (82% report high use), and ambulatory organizations most commonly report high patient utilization (88%). About two-thirds of acute care organizations say 40%–80% of their patients have accessed the patient portal in the last year. Threefourths of surveyed ambulatory organizations say 40%-80% of patients have utilized their patient portal in the last year.

Acute and ambulatory care organizations have many portal capabilities now considered standard—for example, test results, secure messaging, and bill pay (all adopted by >90% of organizations). For acute care, average adoption growth across patient portal capabilities has nearly doubled since 2020 (up 9 percentage points in 2021 compared to 5 percentage points in 2020). Access to OpenNotes has seen the most dramatic growth in the last year (up 24 percentage points). This aligns with increasing desire from patients to have greater transparency into both healthcare costs and their own clinical care. Ambulatory organizations are about 3 percentage points higher in adoption of portal capabilities, though growth rates from 2020 to 2021 are similar across ambulatory and acute care.

Clinical Communication Capabilities Offered through Patient Portal

2021 (n=401) 2020 (n=496)	2019 (n=425)	
OpenNotes		59(65%) 89%)
Share electronic copy of medical record with external organizations		77% 89%
Prescription-renewal request tool		82% 86% 88%
Access patient-specific education in non-English language		74 83% 80%
Appointment self-scheduling tool		72% 83%
Complete questionnaires that directly flow into EHR	65	% 69% 82%
Provide medical history elements that can directly flow into EHR		679 74% 82%
Update insurance information	63%	68%76%
Access family (or care team) education	e	55% 70 75%
Access family (or care team) education in non-English language	58%	61 66%
Self-management tools for chronic conditions	55% 56	5% <mark>65%</mark>
Asynchronous provider visits	44% 56	59 <mark>63%</mark>
Self check-in	New question in 2021	63%
Symptom checker	43%	New question in 2021
Wayfinding via wireless guidance	23%	New question in 2021
Parking assistance payments	18%	New question in 2021
	0%	10

Note: Patient portal capabilities with >90% adoption are not shown. These include test results, visit summaries, discharge/checkout instructions, secure messaging with provider/care team, immunization records, bill payment/bill status check, access to patient-specific education, transmission of hospital admission information to another care provider, appointment reminders and access to electronic copy of medical record.

Patient Access to Acute Care Patient Portal



Adoption of mobile apps for patients has grown consistently (up an average of 9 percentage points in 2020 and 2021). The mobile app capability with the greatest growth is pricing lists for various services (up 22 percentage points in 2021). The only other capabilities with double-digit growth are real-time news/blog feeds (with adoption up 10 percentage points) and electronic insurance cards (up 15 points). Adoption of mobile app capabilities is similar in ambulatory organizations. LTPAC organizations have a much bigger adoption gap—for example, for text appointment reminders and wayfinding, adoption is 18 percentage points lower in LTPAC than acute care.

Mobile App Capabilities Offered to Patients

0 2021 (* 401) **0** 2020 (* 425) **0** 2010 (* 406)

2021 (11-401) 2020 (11-425)	2019 (11-490)	
Text appointment reminders	65% 77% 86%	
Personal health record	65% 75% 84%	
Prescription renewal	73 789 84%	
Visit scheduling	69(74%80%)	
Telemedicine integration	New question in 2021	
eVisit/virtual assistant	40% 62% 71%	
Health library	45% 62%	
Mobile check-in	New question in 2021 57%	
Personal health tracker	42% 56%	
Alerts from mobile health devices	38% 56%	
Health maintenance campaigns	New question in 2021 51%	
Price list for different services	20% 28% 50%	
Click-to-call contact directory	27% 41947%	
Event alerts	New question in 2021 46%	
Real-time news and blog feed	271 32% 42%	
Electronic insurance card	15% 24% 39%	
ER wait times	19% (<mark>29%)</mark> 26%	
Wayfinding with floor plans and maps	23% 26% 29%	
Location sharing for assistance	17%) New question in 2021	
(0% 100	10%

Note: Mobile app capabilities with >90% adoption are not shown These include patient portal and secure messaging.

Security

Advancing Core Components of Comprehensive **Security Program**

In line with industry advances, the 2021 Most Wired survey raises the standard for a comprehensive security program by updating the definitions of a few key components. Under the new standard, security progress and security deficiencies must be reported quarterly (rather than the prior requirement of annual reporting), the board must be given a security update at least semi-annually (rather than annually), and organizations must have a dedicated security leader in the executive suite (a CISO rather than a director of security). 32% of acute and ambulatory care organizations meet this new standard, and 26% of LTPAC organizations meet it.

Not including these updates to the above components, growth in adoption of individual components has remained relatively consistent from 2020 to 2021. The largest area of growth is having a dedicated security operations center (up 4 percentage points). Having a designated CISO continues to be the least adopted core component across all organization types (adopted by about 60% of acute and ambulatory care and 55% of LTPAC). Acute care organizations that have participated in the Most Wired survey before 2021 are more likely to have a CISO than new survey participants (63% versus 46%).

For an organization to be counted as having a comprehensive security program, they must have all the core components of a comprehensive security program (see chart below).







Adoption of Core Components of a Comprehensive Security Program 2021 (n=401) 2020 (n=425) 2019 (n=496)



⁺ This component was updated in 2021. Percentages for 2019 and 2020 reflect the prior annual requirement, while percentages for 2021 reflect the new quarterly requirement

+ This component was updated in 2021. Percentages for 2019 and 2020 reflect the prior annual requirement. while percentages for 2021 reflect the new semi-annual requirement.

§ This component was updated in 2021. Percentages for 2019 and 2020 reflect the prior requirement for a designated director of security or CISO, while percentages for 2021 reflect the new requirement for a designated CISO.

Technology-Focused Security Measures Are Most Adopted

Despite the challenges of COVID-19, about 80% of acute and ambulatory care organizations (and 82% of LTPAC) say their ability to respond to or plan for emergent cybersecurity threats was not hindered by the pandemic. However, that leaves 1 in 5 organizations with increased vulnerabilities.

In 2021, CHIME raised the standard for a comprehensive security program, yet year-over-year growth in the adoption of non-core security measures by comprehensive and non-comprehensive organizations still occurred. Security measures that include people and processes (i.e., testing recovery plan, purple team exercises, social engineering risk assessment) continue to have the least adoption compared to technology-focused security measures. Security measures that have seen the most growth (up 10-13 percentage points) for both comprehensive and non-comprehensive organizations include adaptive/ risk-based authentication for network access, medical device security tools and next-generation endpoint protection systems.

Amid growing cybersecurity threats, the application of Purple Team Exercises (added to the Most Wired survey in 2021) has become increasingly critical these are exercises where a blue team (defenders) and a red team (attackers) are brought together to simulate security threats. While annual Purple Team Exercises are the least-adopted measure across organization types, they can significantly improve an organization's security posture.

Adoption of Security Measures

•	Organizations with comprehensive security program (n=130)	Organizations without comprehensive security program $(n=271)$
Technology	Secure system baseline images	76% 94%
	Inventory of authorized medical devices	75% 92%
	Next-generation endpoint protection systems	76% 91%
	Anomalous network monitoring and analysis	66% 87%
	Automated user-access provisioning systems	63% 87%
	Governance, risk, and compliance (GRC) systems	57% 82%
	PKI/digital signature systems	60% 81%
	Medical device security tools	50% 79%
	Network access control—enforcement of devices joining network	69%) 74%
	Adaptive/risk-based authentication for network access	39% 65%
People & process	Testing recovery plan (all tiers) performed at least annually	56%) 58%
	Purple team exercises performed at least annually	24% 45%
	Social engineering risk assessment performed at least quarterly	23% 32%

Other Findings

Discrete Data Is More Commonly Sent Than Consumed

In general, more organizations can send discrete data to external entities than consume it from them. The few entities that are exceptions are external laboratories, unaffiliated emergency rooms and emergency ambulance agencies. The outside entities with the biggest gaps in their ability to send versus consume data are government agencies (about 13 percentage points across organization types), skilled nursing/chronic care facilities (about 11 points) and insurance companies/payers (about 9 points). As these gaps narrow and more organizations exchange discrete data, patient care will be improved as a result of reduced duplications and enhanced longitudinal care records.

Sending and Consuming Discrete Data with External Entitites (n=401)



Barcode Adoption Continues to Outpace Slow-Growing RFID

Across all organization types, barcoding continues to be the primary method healthcare organizations use to track and identify patients, staff and assets. This is largely because of the existing barcoding infrastructure and the potentially prohibitive up-front costs of establishing an RFID system and RFID tags. However, RFID usage is growing. For acute care organizations, the four most widely adopted RFID tracking/ identity management use cases also experienced the biggest year-over-year growth-adoption of movable equipment increased 9 percentage points, and patient tracking, staff tracking and staff ID went up 7 points each. These same areas saw the biggest year-over-year growth for barcode-tracking use as well. There are only two tracking/identity management use cases where RFID is leveraged more frequently than barcoding: staff tracking (by 7 percentage points) and hand hygiene (by 2 points). These are also the two least-adopted use cases for barcoding across organization types.

Barcode and RFID Usage for Tracking/Identifying by Item or Activity



Increased Adoption and Advancement of Surveillance Systems

The percentage of organizations with EHR-integrated surveillance systems has grown each year the question has appeared in the Most Wired survey from 71% (2019), to 82% (2020), to 90% (2021). Surveillance systems are less often adopted by LTPAC organizations (74%), but adoption is growing (up 5 percentage points since 2020). For acute care organizations, alerts to critical care units are consistently the data type most frequently sent from surveillance systems (by 85% of acute care organizations in 2021); this has been especially critical during the pandemic. Due to industry advancement and increased importance placed on surveillance, the 2021 Most Wired survey asked about some additional functionalities and whether they are fully deployed within an EHR-integrated surveillance system. Monitoring of patient vital signs (historically adopted at high rates) grew the least, by 6 percentage points. Other components saw more than double that rate of growth—for example, sending electronic alerts to caregivers (up 17 percentage points), monitoring lab test results (up 15 points) and medication administration (up 15 points). In the LTPAC space, adoption of surveillance functionalities increased more slowly on average, by about 6 percentage points across functionalities.

Types of Clinical Alerts Sent from EHR-Integrated Surveillance System



Fully Deployed Surveillance System Functionalities Integrated with EHR

2021 (n=401) 2020 (n=425)



CHIME Digital Health a most wired. Survey

ABOUT CHIME

The College of Healthcare Information Management Executives (CHIME) is an executive organization dedicated to serving chief information officers (CIOs), chief medical information officers (CMIOs), chief nursing information officers (CNIOs), chief innovation officers (CIOs), chief digital officers (CDOs) and other senior digital health leaders. CHIME includes more than 5,000 members in 56 countries and two U.S. territories and partners with over 160 healthcare IT businesses and professional services firms. CHIME and its three associations provide a highly interactive, trusted environment that enables senior industry leaders to collaborate, exchange best practices, address professional development needs and advocate for effective use of information management to improve health and care in their communities. For more information, please visit <u>chimecentral.org</u>.

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