

AMDIS 2023 KLAS Arch Collaborative



KLAS is entirely dedicated to improving healthcare by providing **accurate**, **honest**, and **impartial** insights that move the market.

3,100	Healthcare customer executives (VP and C-Level) who actively participate by sharing their experiences. They also benefit from accessing KLAS data and reports.			
5,400+	Healthcare organizations worldwide represented in the KLAS data through the participation of their employees each year who share their voices and experiences.			
20,000+	0,000+ Interviews conducted each year. Over 90% are person-to-person interviews with current customers.			
	Healthcare IT products and services measured by KLAS.			
900+	Healthcare IT products and services measured by KLAS.			
900+ 420+	Healthcare IT products and services measured by KLAS.Vendors measured and highlighted in KLAS reports.			
	•			

Research focus is on the customer experience.

Vendors receive guidance.



KLAS insights assist organizations.



Do you agree that your EHR enables you to deliver high-quality care?

Wide Disparity in EHR Experience Among Clinical End Users

Percent of Providers Who Agree Their EHR Enables Quality Care

n = 48,181 providers from 241 organizations: each bar is an EHR deployment with >20 responses



0%

Where Does Variation in EHR Experience Come From?

Stakeholder Impact on Net EHR Experience Score[†]

Percent of variation in satisfaction that is attributable to each EHR stakeholder; all Collaborative respondents





What Makes a Successful User?

Strong user mastery

l am confident in my ability to use this EHR effectively and efficiently.





6

6

EHR House of Success

EHR Satisfaction





7

What Is the KLAS Arch Collaborative?

The Arch Collaborative is a provider-led effort to unlock the potential of EHRs in revolutionizing patient care. Through standardized surveys and benchmarking, healthcare organizations collaborate to uncover best practices and move the needle in healthcare IT.

Measurement and Benchmarking

- **300+** healthcare organizations measuring to date
- **400,000+** clinicians participating
- 13 countries
- 40 questions
- 12 minutes

Collaboration

- 125+ case studies of high-performing organizations
- **50+** best practice reports
- 100+ webinars
- Annual Learning Summit
- Arch Collaborative CMIO





KLAS Arch Collaborative Respondents Span Clinical Backgrounds & Organization Types



Collaborative EHR Demographics Follow Trends in EHR Market Share



2022 US Acute Care Market Share

Note: Due to rounding, charts do not total to 100%. Percentages are estimates. Changes in percentages from year to year may include additional adjustments (hospital closures, canceled contracts, other historical corrections, etc.) other than the wins/losses that occurred specifically in 2022. For example, Epic's wins were undercounted in past years' reports, as the vendor doesn't require customers to sign contracts for add-ons or for the Community Connect model. See About This Report for more information.

Respondent Primary EHR





Why Do KLAS Arch Collaborative Participants Measure?

"We've been so heads down building our version of our EHR Ferrari, that we've never looked up to see how fast we're going." (смю)



"I've felt this is where we were tracking with our EHR satisfaction, based on conversations in the halls of the hospital, but I've never had the data to prove it." (смю)





Provider Burnout and the EHR Experience



- Update on provider burnout
- To what degree is the EHR contributing to provider burnout?
- What factors are most related to alleviating provider burnout?
- Which healthcare organizations are actually doing it?



Using your own definition of burnout, select one of the answers below:

- I enjoy my work and have no symptoms of burnout
- I am under stress and don't always have as much energy as I used to, but I don't feel burned out
- I am definitely burning out and have one or more symptoms of burnout (e.g., emotional exhaustion)
- The symptoms of burnout that I am experiencing won't go away, and I think about work frustrations a lot
- I feel completely burned out, and I am at the point where I may need to seek help



Contributors to Burnout

What are the primary contributors to your feelings of burnout (if any)?

- No personal control over my workload (working too many hours)
- Lack of autonomy in my job
- Chaotic work environment
- Lack of effective teamwork in my organization
- Lack of shared values with organization leadership
- Too much time spent of bureaucratic tasks
- Staffing shortages
- After-hours workload
- EHR or other IT tools inhibit my ability to deliver quality care
- EHR or other IT tools hurt my efficiency
- Lack of training or proficiency on EHR or other IT tools
- Aggressive or demeaning patients



Provider Burnout Has Steadily Increased Over the Past 5 Years





Staffing Issues Became Major Burnout Contributor During the Pandemic

User-Selected Contributors to Burnout

Physician respondents from Jan 2022-May 2023 only; multiple selections possible (n=12,460 respondents/85 measurements)

Staffing shortages Too much time spent on bureaucratic tasks After-hours workload No personal control over my workload (working too many hours) EHR or other IT tools hurt my efficiency Chaotic work environment Lack of shared values with organization leadership Lack of effective teamwork in my organization EHR or other IT tools inhibit my ability to deliver quality care Lack of autonomy in my job 20% (n=2,491) 16% (n=1,975) Lack of training/proficiency on EHR or other IT tools 6% (n=801) Work-related concerns due to COVID-19



Not All EHRs Contribute to Burnout to the Same Degree

Percent Selected "EHR or Other IT Tools Hurt My Efficiency" as a Contributor to Burnout-by Primary EHR

Respondents from Jan 2022–May 2023 only Altera (Allscripts) 39% (n=722 selections/1,849 total responses) Oracle Health (Cerner) 35% (n=1,845 selections/5,338 total responses) 32% (n=135 selections/418 total responses) MEDITECH eClinicalWorks 29% (n=136 selections/467 total responses) 27% (n=290 selections/1,093 total responses) athenahealth Collaborative average 23% (n=11,710 selections/51,184 total responses) 20% (n=7,868 selections/40,108 total responses) Epic 0% 25% 50% 75% Percent selected "EHR or other IT tools hurt my efficiency" as a contributor to burnout * 🖅



"Likelihood to leave" is a strong predictor for turnover

Percent of Physicians Who Left Based On Their Response to How Likely They Are to Leave



Physician Turnover Costs Are High for Those Dissatisfied with the EHR

Percent of Physicians Who Left Based On Their EHR Experience and Self Reported Efforts to Learn the



U.S. Drought Monitor Utah

July 5, 2022







Alta surpasses 900 inches of snowfall in 'unprecedented' season

WEATHER

Four Utah resorts eclipse their all-time snowfall records

27, 2023, 5:30 PM | Updated: 7:09 pn



NEWS > LOCAL NEWS

Utah breaks record for state's largest snowpack ever

UTAH DROUGHT

Utah is no longer in a severe drought

May 12 2023 3:00 PM



"Everything good that happens in the weather is because of the Sacred Whale."







What can you do to alleviate feelings of burnout among your clinicians?



Two Factors Associated With Lower Burnout: Efficient Charting & Strong Organizational Support



Percent of Providers Reporting Some Amount of Burnout—By Amount of Time Spent in EHR After Hours and by Trust in IT Includes data only from 2021-2022

<5 hours and reports trust in IT (n=23,289)

Opportunities to Improve Burnout: Efficiency & Organizational Trust

Burnout Correlation Fingerprint All respondents from Jan 2022–May 2023 (n=75,383) Higher agreement & Higher agreement & lower impact higher impact Personal accountability 4.0Reliability * Average agreement (1-5 scale) Internal integration Quality care Patient safety EHR vendor Alerts Patient-centered care Functionality 3.5 Workflow training Ongoing training Org/IT System response time Easy to learn Initial training Efficiency External integration Lower agreement & Lower agreement & lower impact higher impact 3.0

Efficiency Consistently Lowest Rated EHR Experience Metric

Percent Agree to EHR Satisfaction Metrics

Physician respondents from Jan 2022–May 2023 only





A Caution on Efficiency

Relentless communication on RVUs and maximizing provider schedules



Data-driven approach focused on workflow-specific education







Strong Ongoing Education Associated with Large Gains in Efficiency





Strong Ongoing Education Keeps After-Hours Charting at Bay

Odds of Reporting <5 Hours of At-Home Charting—by Agreement That Ongoing EHR Education Is Sufficient



Physician respondents only (n=73,732)



Providers Cite Personalization as Top Factor in Their EHR Satisfaction

Top Success Factors of Highly Satisfied EHR Users

Providers only; data collected December 2021-December 2022 (n=795)





Preliminary Findings

Patterns for Physicians Who Decide to Stay

- 54 physicians changed their minds about leaving their organization
 - Reduced after-hours workload and a less chaotic environment
 - Patient safety, alerts preventing mistakes, and patient-centered care
 - EHR is a high-quality product
 - Speech recognition, shortcuts, macros, smart phrases, personalized filters, smart orders

The type of training offered is less important than the quality of that training

Types of Ongoing EHR Training Provided by 10 Most-Satisfied Organizations Organizations with Highest Net EHR Experience Scores

Provider Net EHR Experience Score (adjusted for EHR in use) (-100 to +100 scale) All n-counts are greater than 20			Ongoing Training Programs Available				
		Classroom Training	Online Training	At-the-Elbow Training	Departmental Meeting	Other Training Effort	
1	66.0	٠			•		
2	62.6	•	•	•	•	•	
3	62.5		•	•			
4	61.4	•	•		•		
5	60.7	•			•		
6	58.1	•	•	•	•		
7	57.6	•	•	•	•		
8	57.4	•	•				
9	57.0		•	•		•	
10	55.4		•	•	•	•	
	0 10	00					

Types of Ongoing EHR Training Provided by 10 Least-Satisfied Organizations Organizations with Lowest Net EHR Experience Scores





Clinicians should receive a minimum of 3–5 hours of onboarding education and would greatly benefit from 11 or more hours.



- Onboarding education is defined as any EHR education a clinician receives in their first 90 days
- Breaking it up over time likely best way to meet new clinicians' needs



New Provider Training

Keys to Success:

New Provider Support: Optimization team offers 4 hours of 1x1 support for initial live encounter with the EHR

New Provider Check-in: Two hours of follow-up 30-45 days after NPS. Main focus is adopting personalizations to help with InBasket and charting efficiency.

New Provider Wrap-Up: Catchall meeting for what wasn't covered in first 2 sessions. Optimize established routines for maximum efficiency.



Provider-led training is gold standard. If not feasible, organizations can still find creative solutions

Organization Net EHR Experience Score— By Who Teaches Initial Training Classes

Net EHR Experience Scores adjusted for EHR in use (-100 to +100 scale)









 While clinical experience matters, ability to engage is most important factor

• Vetting process should be rigorous

- Include entire training team in the decision
- Some level of training/certification should be involved



34 https://klasresearch.com/archcollaborative/report/arch-collaborative-guidebook-2020/343

Setting Proper Expectations Is Crucial to Success

- Clinicians need to understand where to get help, how changes are • made to the EHR, and how they can continue to learn
- Clinicians must understand that workloads can become • overwhelming regardless of which EHR is in use. Organizations and clinicians (not EHRs) bear responsibility to manage workloads
- "At risk" groups should be made aware and given particular • attention



Average Net EHR Experience Score—By Specialty

Physicians only (-100 to 100-point scale)

Hospital medicine	(n=1,411)	36.5
Pathology	(n=304)	24,3
Pediatrics	(n=2,913)	24.0
Geriatrics	(n=286)	22.9
Family medicine	(n=4,857)	22.7
Internal medicine	(n=3,629)	21.5
Other	(n=1,060)	19.2
Nephrology	(n=431)	18.3
Endocrinology	(n=437)	18.1
Neonatology	(n=385)	16.9
Physical rehabilitation	(n=324)	16.7
Gynecology and obstetrics	(n=1,840)	15.8
Psychiatry	(n=844)	15.5
Anesthesiology	(n=1,572)	15.3
Emergency medicine	(n=2,501)	13.6
Infectious disease	(n=514)	11.5
General surgery	(n=1,421)	11.0
Neurology	(n=874)	11.0
Radiology	(n=765)	10.2
Multiple	(n=753)	10.0
Oncology	(n=235)	9.8
Pulmonology	(n=506)	9.7
Rheumatology	(n=236)	9.7
Gastroenterology	(n=669)	8.9
Otolaryngology	(n=481)	8.6
Urology	(n=485)	6.7
Critical care	(n=496)	6.3
Dermatology	(n=334)	5.6
Hematology/oncology	(n=790)	4.9
Ophthalmology	(n=405)	3.6
Neurosurgery	(n=264)	2.2
Plastic surgery	(n=255)	2.1
Cardiology	(n=1,289)	1.6
Orthopedics	(n=1,178)	-3.2
		I 50.0 0.0 50

Note: Only specialties with 200+ respondents are represented above

100

71

23

12

100%



35 https://klasresearch.com/archcollaborative/report/arch-collaborative-guidebook-2020/343







Survival is your personal responsibility

- High-risk activities require awareness, skill, and commitment
- Gratitude and contribution

The Contraction of the

Climbers of Denali
Clinicians should spend 3-5 hours annually refreshing their EHR knowledge

Net EHR Experience Score—by Reported Hours of Follow-Up Training Each Year

Clinicians who have been at their organization for more than 2 years only







Kaiser Permanente Northwest Pathways to Proficiency

Kaiser Permanente Northwest takes their physicians off-site to provide distraction-free EMR education.

Keys to Success

- Get the physicians into an environment where they won't be distracted by other responsibilities. This allows physicians to fully immerse themselves into improving their EMR.
- Make sure the trainings are physician led. This establishes trust and credibility and makes the trainings more interactive.
- It is important to offer CME credits for the program. That requires a bit more overhead on the people running the program, but it is worth it because physicians take their education time to attend the program.

Outcomes

- 99th percentile provider average experience rating
- 98th percentile for provider personalization
- 95th percentile for provider efficiency rating

Any Level of Rounding Makes a Difference

 Immediate answers to questions

Organization Net EHR Experience Score— By Frequency of Rounding Visits

Net EHR Experience Scores adjusted for EHR in use (-100 to +100 scale)

- Identify common issues
- Build relationships
- Support, not police





OrthoVirginia

Model For Improvement: Provider Support Specialist Program







- Pick the right time
- Service-oriented, quick visits
- Rounding with a purpose
- Come prepared with a tip
- Coordinate same day w/analysts
- Return often





UCLA Health Ambulatory Rounding

In addition to having their nurse informaticists round to their plethora of clinics, UCLA also encourages IT analysts, training staff, and help desk support personnel to visit a clinic one day each month.

Keys to Success

- Rounding is a costly practice, but that does not negate its worth. There are ways to reduce the cost and still be effective. Utilize analysts, training staff, and help desk professionals; not only do they have the expertise to help, but giving them some field work helps them see their solutions in action and helps them approach problems with a new mindset.
- Prepare messages to help the rounders guide the conversation, but don't be too rigid to assume that the preassigned topics are all that can be discussed.

Outcomes

- 99th percentile for nurse trust in IT
- 99th percentile for nurse agreement that the EHR is easy to learn
- 97th percentile for nurse EHR satisfaction

Ambulatory Optimization Sprints Show Early Promise

Pre- and Post-Sprint Net EHR Experience Scoreby Respondent Role (-100 to 100-point scale)



Pre- and Post-Sprint Burnout and Satisfaction with Ongoing Training



Ambulatory Optimization Sprints Show Promise

100.0

UCHealth

Pre- and Post-Sprint Net Promoter Score[§]-UCHealth

All clinicians (-100 to 100-point scale)(n=125)



Rush University Medical Center

Pre- and Post-Sprint Net EHR Experience Score—Rush University Medical Center, 2017 vs. 2019 All clinicians (-100 to 100-point scale) (n=21)



UC San Diego Health

Pre- and Post-Sprint Net EHR Experience Score–UC San Diego Health All clinicians (-100 to 100-point scale)(n=29)



University of Vermont Medical Center







43 https://klasresearch.com/archcollaborative/report/improving-ehr-satisfaction-in-ambulatory-settings/401

MD Anderson Cancer Center: 8-Week Sprints







Providers only (n=560)



Academic Health Systems (n=95)





https://klasresearch.com/archcollaborative/casestudy/8-week-sprints/342

Department Meetings

- Department meetings are a good time to focus on workflow training as they typically bring together <u>groups</u> <u>of similar clinicians</u>.
- Incorporating EHR training and education into departmental meetings means training is included in a <u>meeting that people are</u> <u>already expecting to attend</u> and allows clinicians the opportunity to learn without having to set aside extra time to dedicate to training.

Physician Satisfaction with Ongoing Training-

By How Often EHR Education Is Incorporated into Departmental Meetings

(1-5 scale)





Participation and Usefulness of Different EHR Education Modalities

- Overall participation rates could improve greatly
- High participation areas are considered the least useful
- 1x1 education considered most useful
- Virtual education and vendor education not there yet

Participation In and Usefulness of EHR Education Programs

Respondents in 2022 only; 11 organizations who asked about eLearning included



Participated, useful
 No participation, but want to
 No participation, no desire
 Participated, but not useful



What specifically about your EHR training did you enjoy?

One-on-One

"<u>1 on 1</u>."

"<u>One on one</u>."

"<u>One on one</u> instruction."

"Having <u>1 on 1 training is more</u> focused on my specific <u>needs</u>."

"I liked when I was able to do <u>1:1 training. My questions were</u> <u>answered</u>, and I was able to get individualized help learning thing that <u>pertained</u> <u>to me and my department of</u> <u>care</u>."

Live Feedback

"<u>Ability to ask questions</u> not covered by training and <u>get a</u> <u>response either on the spot</u>, or right away."

"<u>Ability to ask questions</u> during training."

"Being <u>able to ask questions</u> and learn hands on."

"<u>The ability to ask questions</u> & revisit topic if not completely understood the first time."

"Interactivity. <u>Being able to</u> <u>ask questions</u> specifically related to my job and duties."

Specialty-Specific

"Focus on <u>workflow for my</u> <u>discipline</u>."

"Focused on the <u>workflow for</u> <u>the ED specifically</u>."

"One on one and <u>department/role-specific</u> allowed me to have a conversation and discuss needs and useful tips."

"Getting <u>answers to specific</u> <u>questions that affect my</u> <u>workday</u>."



Only 53% of Physicians Report Being Trained on Specialty-Specific Workflows

Percent Agree EHR Education Is Helpful and Effective

Physician respondents from Jan 2022–May 2023 only





	EHR Satisfaction	
Education	Meets Unique User Needs	Shared Ownership
	Response Time	
	Reliability	



EHR Support

- Clinician-focused
- Strong two-way communication
- Upgrades, upgrades, upgrades





Organizational Leadership (IT) Considered Weakest Stakeholder

Percent Agree EHR Stakeholders Deliver Well

Physician respondents from Jan 2022–May 2023 only



Organizational Delivery Has Major Impact on Overall EHR Experience

Providers who strongly disagree that their organization/IT leadership delivers well are about 85x more likely to report a poor EHR experience than those who strongly agree.

Odds of Reporting Dissatisfaction with the EHR—by Agreement That





85x more likely to report a poor EHR experience if they strongly disagree that organization delivers EHR well

Organizational delivery touches on every aspect of the clinician EHR experience



52

What Does Strong Organizational Delivery Look Like?

A New Set of Questions



Do you agree...

- I am able to get support in a timely manner when I have an EHR issue
- I know how to request a fix to the EHR
- I have a voice in trying to improve the EHR
- EHR fixes are made in a timely manner
- Changes to the EHR are well communicated
- There is someone assigned to help my department with the EHR
- The IT department is actively seeking to improve the EHR for clinicians



Clinicians Associate EHR Upgrades with Overall Support Experience

Trust in Organization/IT Variable Importance

Respondents from Jan 2022–May 2023 only

EHR changes are well communicated		
Have a voice in EHR changes		
Timely support with an EHR issue		
IT dept improving EHR		
EHR fixes are timely		
Someone assigned to my area		
Know how to request an EHR fix		

Variable importance 🗧



Do you agree that changes to the EHR in the most recent upgrade improved your experience using the EHR?



55

Only 26% of Clinicians Feel Upgrades Are Improving the EHR

EHR Exp	nent That Most Recent EHF perience Includes data from Ja ation measurements/12,094 clinicians)	Strongly agree	Agree	Indifferent	Disagree	Strongly disagree	
6%	20%	44	44% 19%			11%	
0%							100%



Organization leadership takes most blame for poor upgrade experience





Clinician commentary on upgrades is extremely negative



Common Topics in Clinician Comments about EHR Upgrades

Percent of clinician comments that mention topic; includes data from Jan-Dec 2022 (n=2,670 comments from 1,855 clinicians)



KLAS RESEARCH

Clinicians Say EHR Upgrades Disrupt System Response Time and Reliability

Slowed system response time:

"The speed of the system seems to have diminished with each upgrade." – Physician, large health system

"With nearly every update, there are two to three weeks of significantly slower run time and troubleshooting of issues that weren't properly prepared for." – Nurse, large health system

"Since the last update the EHR is much slower and less responsive, taking longer and resulting in repeated tasks." – Nurse, large health system

"I had two weeks of errors and freezing after an update. This happens nearly quarterly." – Physician, large health system

System downtime:

"I don't want any more upgrades during the day that shut my computer down during a care session." – Allied health professional, large health system

"There is too much weekend downtime for upgrades." – Nurse, academic health system



Upgrade information is too generic:

"It can be so overwhelming to keep up, so most folks tune out the updates that don't apply to their daily use. That means they can miss things that could be helpful." —Physician, large health system

"It is hard to read through update information when **I get details on 50 processes, only one of which applies to my area**." –Nurse, academic health system

"Too much of the information about updates is so generic that it is useless, or at the least it isn't clear why I should pay attention to it. So I am still doing things the way I have for a while, and I am not taking advantage of the improvements that are being made." —Physician, academic health system

Lack of information:

"Updates are constantly made and not explained." – Nurse, community hospital

"Send me an email that tells me what the updates were. **Don't just let me find out**." —Nurse, ambulatory care group



"Changes are made to the EHR without the frontline people being involved."—Nurse, community health system

"I want more of a voice in changes and updates." — Nurse, large health system

"Updates seem to have little clinical input from users." — Nurse, academic health system

"I have never seen any information about how we can give suggestions before upgrades or changes." —Allied health professional, large health system

"Modifications and **updates are not user-focused and are for the benefit of IT**." — Physician, large health system



61



Healthcare organizations need to improve their ability to communicate EHR changes to end users



Leadership Teams Believe Their Super Users Communicate

Percent Selected As Roles Superusers Fill

Multiple selections possible (n=135 organizational responses)





Only 60% of End Users Say Super Users Relay Clinician Feedback

Percent Agree About the Person Assigned to Help Their Department

Physician respondents from Jan 2022–June 2023 only





Less than 50% of Physicians Agree Changes Communicated Well

Percent Agree About EHR Support

Physician respondents from Jan 2022–May 2023 only



Clear Relationship Between Support, Burnout, and Turnover









Case Study

Leveraging Informatics and IT Teams to Increase Feelings of EHR Support

Harris Health System Leveraging Informatics and IT Teams to Increase Feelings of EHR Support

Harris Health' System's Informatics and IT departments work together with end users to understand and resolve issues, creating a robust EHR support for providers.

Program Goals

• Better understand the needs of end users through frequent engagements with the informatics and IT teams

Collaborative-Verified Best Practices

- Clinician Relationships and Communication
- Shared Ownership and Governance

Keys to Success

- IT/informatics teams' efforts are focused on making changes for clinicians instead of imposing changes on them
- Use EHR rounding to interact frequently with clinicians
- A fast track for quick, obvious changes
- Requests are submitted following a consistent process

Outcomes

- 84th percentile for provider agreement that the organization/IT department delivers well
- 81st percentile for provider agreement that they receive timely EHR support
- 84th percentile for provider agreement that they have a voice in EHR changes
- 99th percentile for agreement that EHR fixes are timely
- 80th percentile for provider agreement that the IT department is improving the EHR for clinicians



February 2023



Prioritization Rubric:

Category	Description	Weighted Score
Patient Safety	Provides necessary structures or processes to minimize harm to patients with known or potential risk(s)	3
Regulatory	Provides necessary structures or processes to meet regulatory, professional, quality, legal, or ethical standards	2
Efficiency	Provides processes or outcomes needed to enhance workflow, content changes, or financial impact (cost avoidance, cost recovery, and reimbursement)	1

Impact	Description	Weighted Score
HIDD	High volume (75%); high risk; multiple work groups (e.g., units) affected or whole organization affected; mission-critical service(s) affected; required for next release	3
Menii im	Medium volume (26%-74%); single work group (e.g., unit) affected or VIP user affected; supports necessary system operations; required eventually but could wait until a later release date	2
L OW	Low volume (25%); one user affected; low risk; noncritical service; functional or quality enhancement; would be nice to have someday if resources permit	1
None	No immediate impact on users	0

Urgency	Description	Weighted Score
High	No workaround exists; multiple services affected	3
Medium	No workaround exists; single services affected	2
Low	An immediate solution or workaround can be provided	1







Case Study

Cottage Health & Chartis: Clinical Informatics Improvement

Cottage Health partnered up with Chartis to restructure their clinical informatics team and processes, resulting in increased trust in the organization and IT efforts.

November 2022

Cottage Health and Chartis: Clinical Informatics Improvement

Cottage Health partnered with Chartis to restructure their clinical informatics team and processes to align with organizational priorities, decrease unnecessary variability in care, help drive improvements in care effectiveness and efficiencies, and reduce burnout potential. Leveraging this new clinical informatics structure, Cottage Health has also increased organizational trust in IT and informatics.

Keys to Success

- •Remember that successful teamwork happens when IT/informatics efforts are focused on making changes for clinicians instead of imposing changes on them
- •Use EHR rounding to interact frequently with clinicians
- •Build teamwork and alignment by encouraging clinical leaders and IT/informatics groups to share their goals with each other

Outcomes

- •15% increase in repeat respondent agreement that their organization/IT team delivers well.
- •86th percentile for agreement that clinicians have a voice in EHR changes.





- Monthly scorecard
- Single page
- Easy to read and digest
- Clear communication tool
- Celebrate our wins Quick and Big
- Accountability and Transparency

······································							Cottage
Clinical Informatics							
RECIPIENTS				INFORMATICIS	TS		
Sheri Ribeiro Cic Christophe LeRe Griff Sahlin Direc		y Applications			SN, RN Sr. Clinical In BSN, RN, CNOR Clin		
SUMMARY							
Josephine comp	oleted Epic CLN 102: Epic for the Clir	nical Informaticist and earned	Certification. Kelli returned from	LOA.			
Both Informatici	ists and the Informatics Manager ass	isted with employee COVID b	ooster clinics.				
Ę	Total CI Tio	ckets	Tickets (Opened by Cl		Tie	ckets with CI Consulted
Month	43			31		12	
Cumulative	2021 Total Cl	Tickets	% of Ticket	s Closed (212/234)		Average Time to Clo	osure (Cl initiated tickets n=168)
- E	234		90).5%			13.17 days
			ompton, 1RT, 1WC, 2 Compton, Center, NBN, Peds, NICU, Care	, SBCH Procedural: Endoscopy, Electrophysiology Lab, GVCH: Pre-Op, PACU, Surg		GVCH: Pre-Op, PACU, Surgery, Med Surg, Case Management, ED, Admitting	
INPATIENT HIGHLIGHTS Time spent observing Anesthesia CottageOne workflows: Drs. Miller, Atkinson, Lipman							
AMBULATORY D	DEPARTMENTS VISITED	Grotenhuis Pediatric Clinic, Ri	idley Tree Wound Center, SBCH &	k GVCH Infusion S	uites, GVCH Therap	y Services, Radiology Breast Ir	maging, SBCH OPS
AMBULATORY H	HIGHLIGHTS		re: MOB Outside Results Workflo ed vision and some of Kelli's obse		essions w/the MDs		
guiek WINS	 Assisted DOSLERNs w/ Compase & CDR program Assisted COSLERNS w/ Compase & CDR program 				for ASAP, Orders, & ClinDoc rkflow		
Gen	nba Hours		CI Development Hours			Personalization Se	ssions
	30.5		30	30 4		4	
			WHAT WE'	RE HEARING			
I was so glad you were around yesterday. You would be proud of me - I successfully wrote for some discharge meds (including narcotics) this morning! Oh! It's already fixed! Thanks for coming by the department to check on us! There is a work around for everything. Just tell the system the patient is going home, even if they are not.							





bellinhealth

Planning Consistent and

Tailored Communication

Case Study



Planning Consistent and Tailored Communication

Bellin Health built communication planning into their governance process and utilized leadership and superusers to help facilitate the communication for changes to the EHR.

Program Goals

•Effectively communicate EHR changes and other important information to clinicians

Collaborative-Verified Best Practices

•Clinician Efficiency and Personalization •Shared Ownership and Governance

Keys to Success

- Push communication in many different ways and adapt communication methods to the type of message and audience
- Build communication strategies into the governance process
- Be consistent with delivery methods and formatting for regular communication
- Communication should come from a trusted source, such as a leader, educator, or superuser, rather than IT people

Outcomes

Providers 99th percentile for communication satisfaction
 Nurses 94th percentile for communication satisfaction



March 2023

71



Case Study



Best Practice Alert (BPA) Optimization

Dayton Children's Hospital uses a specific BPA committee and feedback from end users to create the most effective BPAs.

Dayton Children's Best Practice Alert (BPA) Optimization

Dayton Children's Hospital uses a specific BPA committee and feedback from end users to create the most effective BPAs.

Program Goals

• Reduce unnecessary best practice alerts to improve alert effectiveness and create a smoother EHR workflow

Keys to Success

- Set aside one day each month when all necessary contributors can make quick and needed changes
- Use prioritization to avoid long lists of EHR enhancement priorities.

Outcomes

- 13-point percentage increase in agreement that EHR alerts prevent care-delivery mistakes
- 99th percentile for agreement that alerts prevent care-delivery mistakes
- 95th percentile in agreement that users have a voice in EHR changes





Feedback Outside Governance Meetings

- Not all requests rise to the level of optimizations needing governance
 - Break fixes
 - KLO work
 - Optimizations requiring less than four hours of build work
- Must be nimble; need input around satisfaction between meetings
 - <u>QR codes embedded in certain order</u> <u>sets facilitate in-the-moment feedback</u>
- Can use email updates and voting between meetings for requests that can't wait a month for the next governance meeting





Other Tools–Epic BPA Feedback

- DCH implemented BPA feedback when it became available from Epic.
- Feedback flows to a pool In Basket monitored by CIS and CI
- Allows builders and informaticists to investigate and respond to user concerns
- Helps capture information to show us when we are (and are not) meeting the needs of our users

① Patient was started on	polyethylene glycol	3350 (GoLYTELY) solution > 40	nours ago.	•		
Monitori	ng Renal Function F	Panel and Magnesium is recomme	nded while on PEG 33	50.		
Order	Do Not Order	A MAGNESIUM				
Order	Do Not Order	RENAL FUNCTION PANEL				
Acknowledge Reason I am a consulting provider Not Needed At This Time						
			✓ <u>A</u> ccept	Di <u>s</u> miss		



Summary

- Reported provider burnout has never been higher
- Efficient documentation and strong organizational support tightly related to burnout reduction
- Workflow-specific EHR education critical for improving provider efficiency
- Overall support experience goes hand in hand with EHR upgrade experience
- Organizations are doing these things well and are eager to share!



Thank you 😳

