

A Generalizable Approach to becoming a "Top Performer" in Provider Satisfaction

May 22, 2019

Physician Community Webinar

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- The recording and slide deck will be available within 2 business days on the Physician Community Webinar Series Archive Page www.himss.org/physician
- For more information, visit <u>www.himss.org/physician</u> or contact Yvonne Patrick at ypatrick@himss.org.



Speaker:



Jonathan Siff, MD

Dr. Siff is the Associate Chief Medical Informatics Officer for The MetroHealth System in Cleveland, Ohio. He is an Associate Professor of Emergency Medicine and Assistant Program Director for the MetroHealth - Case Western Reserve University Informatics fellowship.

Jonathan is a practicing emergency medicine physician and serves as the Assistant Operations Director and Physician Billing and Compliance Director for the Department of Emergency Medicine.



Learning Objectives

- Discuss the factors contributing to increasing provider stress and burnout.
- Identify factors uncovered by the ARCH Collaborative which impact provider satisfaction with electronic health records.
- Relate programs which address factors impacting provider satisfaction.
- Assess the results of one healthcare system following a decade long effort to improve provider satisfaction with the electronic health record.



A Generalizable Approach to becoming a "Top Performer" in Provider Satisfaction

Jonathan Siff, MD, MBA, FACEP, FAMIA Associate Chief Medical Informatics Officer The MetroHealth System Cleveland, Ohio



Disclosures

- I genuinely want to help providers feel more in control and see the EHR as a tool and ally and not the enemy.
- We had a major EHR version upgrade over the weekend.
- I have no commercial conflicts and do not get reimbursed or paid by any vendor or corporation.





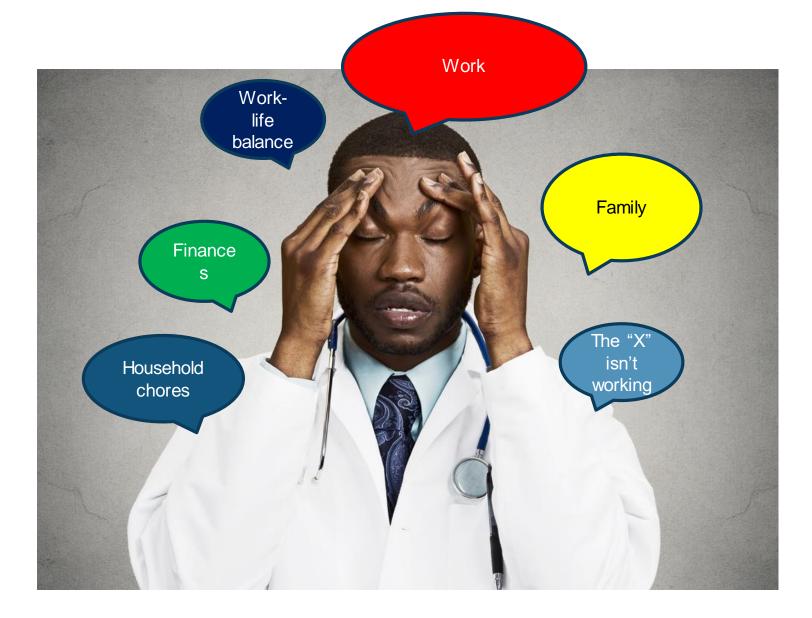
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Tertiary Care, Academic, Trauma Center **Community Hospitals Emergency Departments** Years of data in EHR 25,000 Inpatient Stays / yr 140,000+ ED Visits / yr 1,250,000 Outpatient visits / yr Informatics Team Started in 2008



- HIMSS Stage 7 EMRAM (2014, 2017)*
- HIMSS Enterprise Davies award (2015)*
 *Using our EHT







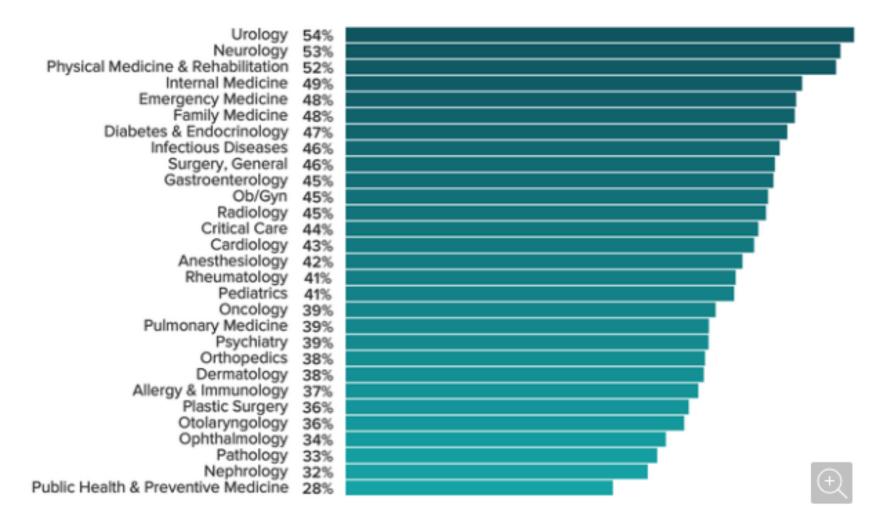
What is burnout?

- "A syndrome of emotional exhaustion, depersonalization, and reduced personal accomplishment that can occur among individuals who work with people in some capacity"
 - The Maslach Burnout Inventory
- "The opposite of engagement" Medscape physician lifestyle report 2015

Maslach, C., Jackson, S. E., & Leiter, M. P. (1996). Maslach Burnout Inventory. (3rd ed.). Palo Alto, CA: Consulting Psychologists Press.



Which Physicians Are Most Burned Out?



Medscape National Physician Burnout, Depression & Suicide Report 2019 N=15069 U.S. physicians across 29+ specialties July-Oct 2018

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Which Physicians Are Most Burned Out?

	Uralami	E 40/	
		54%	
Neurology 53		53%	
1 Hybreat H		52%	_
	Internal Medicine	49%	
Em	ergency Medicine	48%	
	Family Medicine	48%	
		47%	-
Infectious Diseases		46%	
Surgery, General		46%	
Gastroenterology		40%	
			٦
	Ob/Gyn	45%	
	Radiology	45%	
	Critical Care	44%	
	Cardiology	43%	
	Anesthesiology	42%	
	Rheumatology	41%	_
	Pediatrics	41%	
	Oncology	39%	-
PI	Imonary Medicine	39%	
Psychiatry		39%	
Orthopedics		38%	
		38%	
Allergy & Immunology 379		37%	
Plastic Surgery 36%			
		36%	
		34%	
Pathology 33%		33%	
		32%	\bigcirc
		28%	E.

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This sounds bad – why do I have to deal with it?

- Dissatisfied doctors >> lower patient satisfaction
- May contribute to resource overuse and increased costs
- 2-3x more likely to leave turnover is expensive
- Adverse clinical impacts
 - More likely to prescribe inappropriate medications
 - Associated with lower adherence to treatment plans
 - Associated with worse clinical outcomes
- 26% difference in productivity between engaged and disengaged physicians
- And that is just at work huge toll on personal lives



- Shanafelt T, Goh J, Sinsky C. The Business Case for Investing in Physician Well-being. JAMA Intern Med. 2017;177(12):1826-1832.
- R Patel, R Bachu, A Adikey, M Malik and M Shah. Factors Related to Physician Burnout and Its Consequences: A Review. Behav Sci (Basel). 2018 Nov; 8(11): 98. PMID: 30366419.

What burnout variables can we impact?

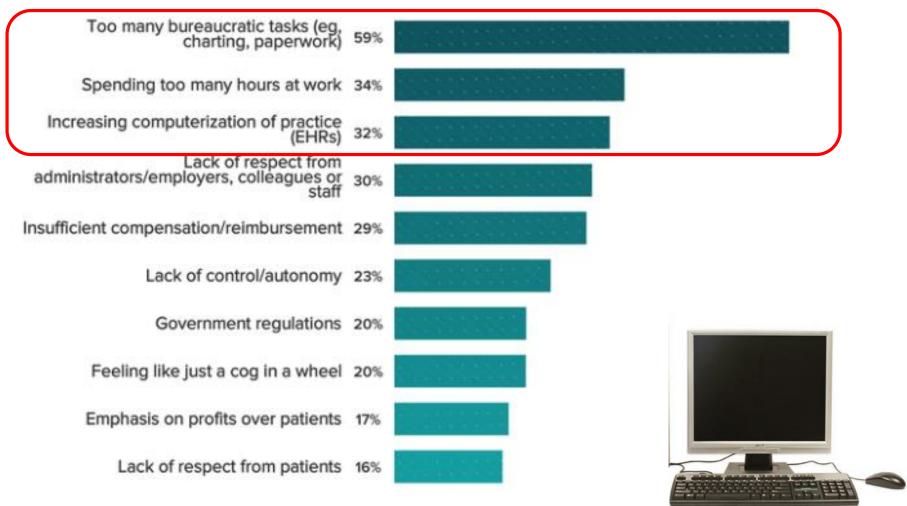
- Most of them but....
- Some are really hard or outside of the traditional scope of an employer
- Some take a long time
- Some just require the effort the EHR is one of these

Per KLAS 20% of provider burnout is attributable to the EHR*



*Taylor Davis, KLAS ARCH Collaborative 2019 communication.

What Contributes Most to Your Burnout?



Medscape National Physician Burnout, Depression & Suicide Report 2019



Let us take a deeper dive into the EHR's impact

- Learn about our cohort of interest providers
- KLAS Arch Collaborative
- Harris Poll





Providers are...*

- Used to being in control
- Highly educated
- Have a hard time taking direction particularly from non-providers
- Dislike change
- Already very busy
- Confident
- Focused on things that help patients

* This is a generalization – not all traits apply to all providers and traits vary among age, gender, specialty, provider, etc type – but keeping these stereotypical traits in mind is still very helpful





Cat Herding – A standard activity for CMIO's everywhere.

KLAS Research Arch Collaborative Overview



- KLAS Research is the industry leader in asking "executives" about their views of health information technology vendors and use.
- Arch Collaborative is 1st ever KLAS survey of <u>END USER</u> views of electronic health record use (25 questions) (13,000+ providers; 150+ healthcare systems).
- MetroHealth providers participated in spring 2018 (~15% of providers (99)).



Keys to Physician EHR Satisfaction

National KLAS Arch Collaborative Findings

- Mastery (Training): Everyone knows that training matters, but do we actually know?
 - The time matters: Newly hired physicians need >6 hours of initial training.
 - The quality matters: Clinicians learn best from clinicians
 - Peer pressure helps: Training during departmental meetings and led by physicians is ideal for ongoing training.
 - Training on how to get data *out* of the EHR matters as much as, or more than, training on how to get data *into* the EHR.
- Control (Personalization): Level of EHR personalization is the best predictor of organizational EHR satisfaction, with personalizations that <u>help users get data out of the EHR</u> <u>helping the most.</u>
- Teamwork (Trust): Organizational culture matters more than the selected EHR. Strong cultures have strong trust between informatics and clinicians, and everyone works together to use technology to improve care. Successful organizations help users feel they have control over their own success and avoid the temptation to blame all problems on the EHR vendor.





- Poll of US primary care providers done in 2018 (n=521)
 - 71% think EHR's contribute to burn out
 - 69% think the EHR takes time away from patients
 - Only 8% think the primary value of the EHR is clinically related
- Provider priorities for EHR's
 - 72% think biggest "right now" priority is user interface overhaul
 - 67% think the biggest priority for the next decade is interoperability



Takeaways from these 2 studies

- Personalization is key
- Training matters
- Teamwork and trust are important





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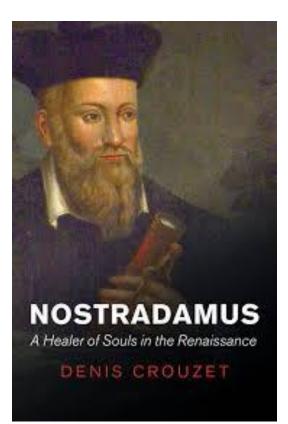
Takeaways from these 2 studies

- Personalization is key
- Training matters
- Teamwork and trust are important
 - Making the system work better is a priority
 - Providers want interoperability (preferably transparently)





Could we see the future? No... but we were on the right track.



Nostradamus, was a French astrologer, physician and reputed seer, who is best known for his book Les Prophéties, a collection of 942 poetic quatrains allegedly predicting future events.



MetroHealth Programs

- Provider Informatics Team
- Emphasis on Interoperability
- Providers training providers
- Provider Liaison







Provider Informatics Team

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Clinical Informatics Functions

- Strategic Guidance Provide strategic guidance for clinical information systems.
- Project Leadership Provide project leadership for specific clinical information system related issues/projects.
- Tactical Technical Support Provide tactical technical support for specific clinical information system related issues/projects.
- Consultative Services Provide consultative services for IS and/or clinical end-users related to use of clinical information systems.
- Key Contacts Serve as key contacts between Information Services and end-users for IS related projects and significant end-user support issues related to clinical information systems.
- Training and End User Support Provide initial and on-going face-to-face/elbow-toelbow training and support for end users.

"At least 50% of the Clinical Informatics team's activities should be are 'revenue impacting'." In 2018, ~\$5 million budget, but our Clinical Informatics team goals achieved ~\$11 million revenue impact



Need to have small team of VERY ENGAGED practicing provider informaticists in order to engage "all" providers and improve provider satisfaction with the EHR.

Providers learn best from other providers and gain trust and acceptance by having a go to PERSON who walks in their shoes

Program should include:

- Multiple levels (3+)
- Appropriate titles, job descriptions, reporting, and accountability
- Appropriate training (security) and support



Enterprise Level Physician Roles (~3 FTEs) (>50% informatics, but still practicing)

- CMIO (special focus on MyChart, Health Information Exchange, Academic/Research Informatics)
- Associate CMIO (administers lower tiers of the program, focus on training, opioid, and regulatory issues)
- 5 Directors of Clinical Informatics: Clinical Decision Support, Infrastructure, Order Sets/SmartSets, Research, End User Experience (20%)



Provider Team - Overview

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Service Line Roles (~1.5 FTE)

- Associate Directors of Clinical Informatics (0.1 FTE)
- 1 hour/wk in meetings, 1 hour/wk in "elbow support", 2 hours/wk on "projects"
- Need job description, quarterly meetings with service line and informatics leadership, and annual reviews



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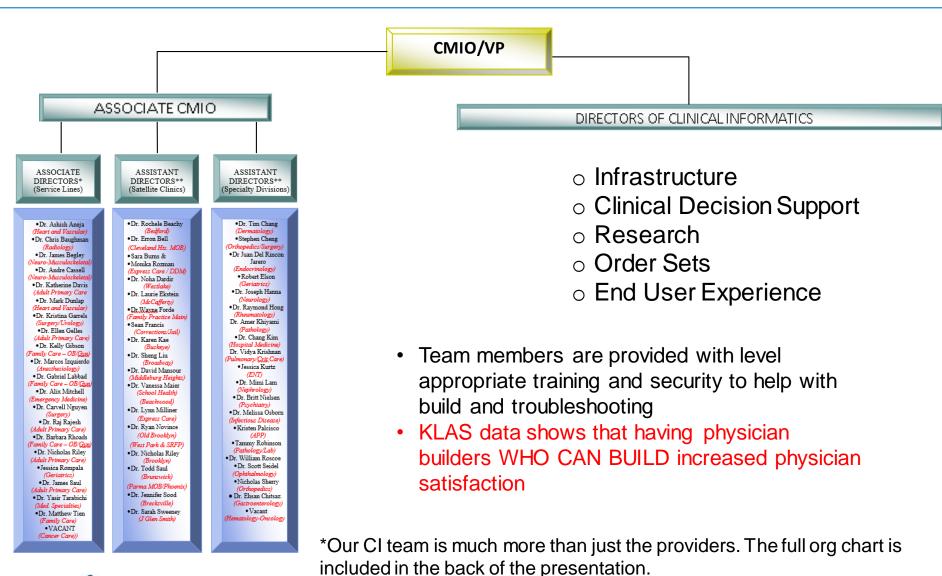
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Division/Site Roles ("0" FTE)

- Assistant Director of Clinical Informatics (~2 hours/month 1 informatics meeting, 1 division/site meeting)
- "By attending 1 hour meeting per month you will save AT LEAST 1 hour per month for yourself (and all peers)"



Provider Team*



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Physician Engagement - Data, Information, and Analytics in our EHR

Dashboards (live 2013)

283 dashboards

Registries (live 2013)

32 live

Benchmarking/KPIs (live 2013)

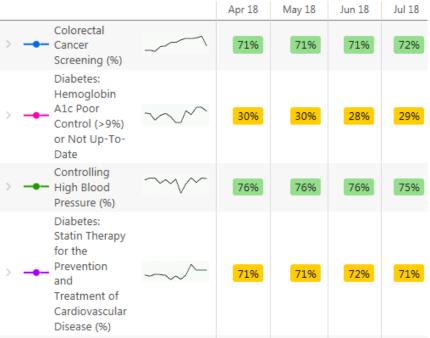
235 live

Self service reporting (live 2009/2015)

~3,000 reports /~300 daily runs >400 users; >4,000 queries/yr



Select System Quality Goals





Physician Engagement - Data, Information, and Analytics in our EHR

Dashboards (live 2013)

283 dashboards

Registries (live 2013)

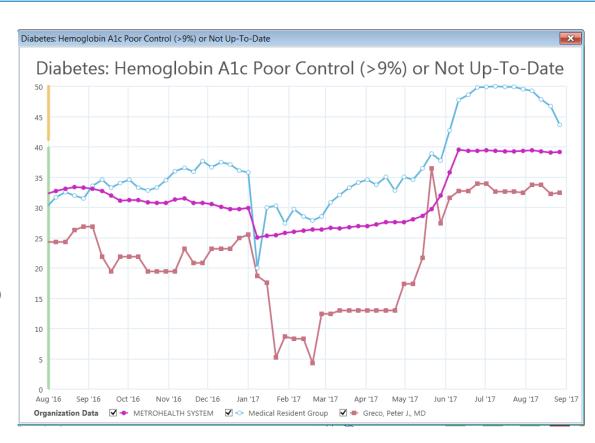
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KLAS data indicates that showing physicians how to get data "out of the EHR" is highly correlated with provider EHR satisfaction.



How do I find these people?

- Many self select ask leaders in each department
- Offer incentives financial and non-financial
 - Titles work well
 - Career path opportunity
- Clinically / workflow savvy, good with people, and technology comfortable
 - Often the best champions are not the "geeks"
 - Tech can be taught
- Offer training and support structure for team members
- Start small and build successes will breed greater engagement





Provider Informatics Team Challenges and Keys to Success

Challenges	Keys to Success	
Operational engagement	 Executive support 	
Provider time	 Strong informatics leadership 	
 Identifying the "right" team members "Justifying our existence" 	 Wins = better understanding and engagement with program so publicize 	
	 Give provider team appropriate training and support 	
	 Pick team for people and clinical skills first – computer skills second 	
	 APP can be great team members and are generally well accepted 	
	 Calculate and promote the financial impact of the team 	
Himss. transforming health through information and technology*	 Promote getting information to providers 	

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Interoperability and Health Information Exchange

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Benefits to Providers of HIE

- Health Information Exchange (HIE)
- Enhances care
- Reduces unnecessary testing
- Reduces cost
- Provides an intellectual boost to providers seeing technology in action
 - This really excites them
- Speeds up care
- Can engage patients more in their care
- Improved quality





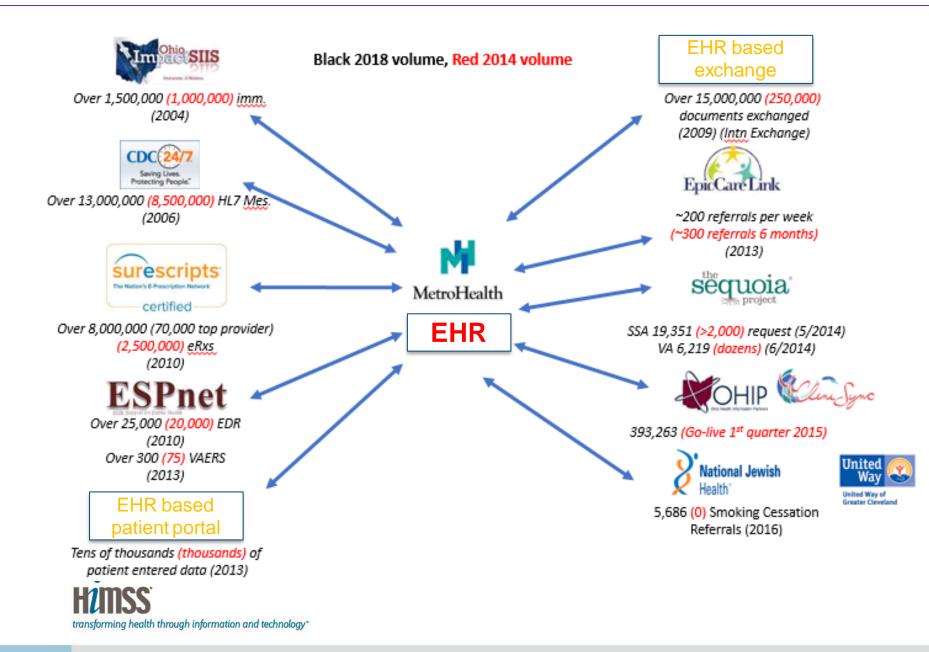
HIE Focus Areas

- Exchanges with other Health Systems
- Exchanges with clinical partners
- Enhancing accessibility of HIE data
- Discrete data integration
- Exchanges with patients
- Advanced Integrations

MetroHealth has focused on all of these areas in descending order of priority over the past 10 years



Health Information Exchange



HIE / Interoperability Challenges and Keys to Success

Challenges	Keys to Success
 Potential partners not ready 	 Informatics as Champion for
 Do not have skills to participate 	Clinicians
 No funding 	Persistence
 No interest 	 Don't give up it may take
 Technical challenges 	years
 Far bigger here than other areas 	 Financial benefits – be sure to publicize
 Heavy reliance on groups outside of EHR team / Informatics 	 Promote wins to providers – they love stories like this





Provider Training

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Provider Training History

- All classroom
- Taught by non-clinical, IS team members
- Button push based
- Emphasized system modules and pieces not patient care
- Poor experiences for providers and teams
- Particularly poor for new residents

In 2012 training duties assumed by informatics





Provider Training - Improved

- Trainers transitioned to staff with clinical experience (mostly RN's)
- E-learnings and asynchronous prerequisites
- Classroom time maintained with new focus
 - Workflows emphasized
 - Concrete patient examples tailored to users specialties
 - Personalization when time allowed
- Much better but not ideal provider experience
 - Trainers still unable to answer many questions which were clinically focused
 - Residents still finished training without adequate knowledge of workflows and how teams really functioned

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Provider Training – New Model

- ED physicians trained their own residents worked very well
- Expanded providers teaching their own new house staff and faculty to all departments to various degrees
 - Specialist teaching specialist themselves (ED, OB, IM, FM, anesthesia)
 - Specialists participate in specialized training class as adjunct to initial classroom (psychiatry, trauma, PM&R, peds)
 - Specialists meet separately with new staff
 - Specialists give input on curriculum and supply lists of key tools for new providers
- Physician Liaisons meet with every new faculty provider at onboarding, complete personalization and provide first day elbow support

<u>Current Initial Training</u>

- ~12 hours (need more than 6 hours based on KLAS)
- E-learning pre-requisites
- In classroom
- Done by physicians and RN trainers
- Meet with Physician Liaison Program at onboarding, first clinic day support and at 1 month
- First week schedule 50%
- Nursing staff noted huge improvements in ability of new house staff and faculty to function on floors and in clinics



Physician Engagement – Ongoing Training, Support, and Communication

Ongoing Support

- Meet with Associate Director within 1 month of onboarding
- Meet with Clinical Director within 1 month of onboarding
- Use Provider Efficiency Profile (PEP)/Signal reports to identify struggling physicians
- Yearly "focused" EHR road-show
- EHR Learning Dashboard
- Provider liaison program

Communication ("shotgun approach")

- Monthly Assistant/Associate Director meetings
- Monthly Biomedical Informatics Committee
 meeting
- EHR tips
- Corporate email announcements
- Regular presentations at Medical Staff meetings
- Regular presentations at Medical Executive
 Committee and Service Line Leadership meetings
- Regular presentations at Department/Division/Site meetings by Assistant / Associate Directors
- Upgrade PowerPoint
- On-line "mandatory" learning modules for upgrades
- HITS (Health Information Technology Successes)



Training Challenges and Keys to Success

Challenges	Keys to Success
 Operational engagement Making providers available Limiting first week schedule Time for training Engaging providers to teach and/or develop curriculum Training resources – rooms and equipment Need for distributed training Identifying best channels for communications 	 Maximizing provider engagement in the process Provider taught and/or developed curriculum Informatics team involved at the grass roots level to disseminate information Classes can address clinical questions as well as "computer" Never stop communicating – even if you don't think anyone is listening





Provider Liaison Program

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Provider Liaison Program (PLP)

- Increasing frustration of providers with EHR related tasks
- Many new tasks due to regulatory / Meaningful Use requirements
- Increasing demands on providers
- Increasing burnout in hospital survey
- We went live with EHR in 1999
- Some providers with no EHR training other than PowerPoints since then!
- New providers got classroom training then thrown in the deep end





Provider Liaison Program Goals

- Provide early elbow and personalization support to new providers
- Move new providers from novice users to efficient EHR "Masters" in a phased, supported approach
- Provide ongoing education to close gaps in EHR knowledge throughout the system – Power User Classes
- Serve as a key conduit to providers regarding changes and enhancements to the system
- Work with operations and informatics to provide remedial education for providers
- Agents for change through education and training







Provider Liaison Team

- Expert, experienced trainers
- Clinical background
- Good rapport with providers
- Know MetroHealth workflows
- Only role is to support providers post classroom training



- 2 Liaisons
- 0.1 FTE physician lead
- Liaisons report to training manager
- aCMIO and Director of Nursing Informatics oversee



Provider Liaison Program Data

- Use of data to help drive engagement
- EHR provides reports on provider usage and key burnout focused metrics
 - "Pajama time"
 - Total time in EHR and total time per patient in EHR
 - How users spend time in system vs expectations
 - Harder to interpret than we expected
- Proficiency scores
 - How well users use the system



Provider Liaison Program Programs

- Onboarding personalization, first day clinic elbow support and 1 month follow up
- Power user classes offering various EHR topics to providers
 - CME offered
 - Points in employee wellness program offered
 - Navigation, Orders, upgrade preview were recent topics
- "Masters Classes"
 - Interested or struggling providers
 - Customized to provider needs / interested based on metrics and interviews
 - 2-4 hours providers needs this protected from clinical time
 - "Top 25" list reviewed with each provider
- Departmental engagements



Provider Liaison Program Results

- 8% reduction in time per patient after masters class
- 155 masters sessions in first year
- 84% of new faculty had the new onboarding process
- Upgrade power user class attended by over 125 providers!
- Overwhelming support for the program
- Power user classes are overbooked routinely now
- Great leadership and executive support for the program
- Based on successes a third position was approved 2/2019

"Fewer Clicks After Six"



PLP Challenges and Keys to Success

Challenges	Keys to Success
 Operational engagement 	 Executive support
Communications with providers	 Allow time for personalization before first clinical day
Provider time to work with PLP	 Ensure follow up with providers
 Identification of first clinical day 	 Incentivize participation in ongoing education (CME, food)
 Socializing the program in the first 18 months 	 Use program as opportunity not punishment
 Spelling liaison – really! 	 Have operational leads encourage PLP use
	 Limit first week schedule for new providers





Results and a High Level Approach to Success

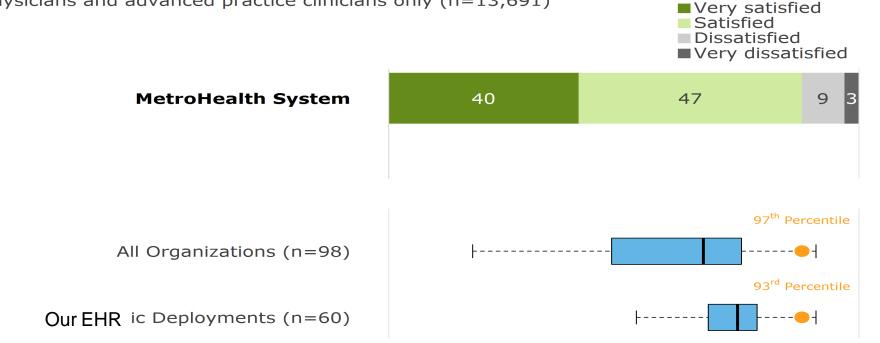
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10+ years of efforts we hoped were the right direction

Overall EMR Satisfaction

Physicians and advanced practice clinicians only (n=13,691)



97th percentile overall and 93rd among our EHR's deployments



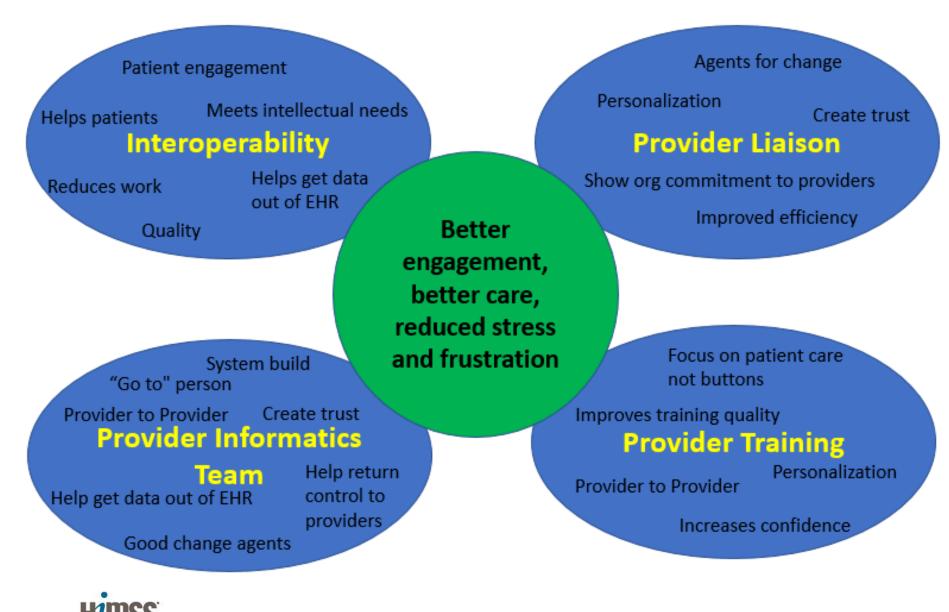
KLAS Arch Satisfaction Feature/Function

"You cannot improve what you do not measure"

EMR Satisfaction Comparison All clinicians. Percent of respondents reporting satisfaction. MetroHealth System **Collaborative Median Highest and Lowest Percents** Other Collaborative Members Reliability Internal Integration External Integration^{*} Ouality Care Functionality Response Time Easy to Learn Analytics 800 0 - 0 - CDCIIDO O CDC Efficiency 0% 100%

* - highest Collaborative respondent in the world

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What YOU can do!!!

- 1. Invest in core physician informatics team.
- 2. Enhance initial and on-going training and support for physicians.
- 3. Deploy EHR tools for data viewing and analysis
- 4. Measure and publicize EHR successes.
- 5. Maximize interoperability.
- 6. Track physician satisfaction (KLAS Arch Collaborative).
- 7. Align with revenue impacting activities and mission.

What are you going to do differently based on this presentation? Develop a continuous plan to improve physician EHR satisfaction!!!!





Checklisz



Thank you

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Appendix

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