





Physician Burnout and EHR Transitions in the Age of COVID



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OVERVIEW OF UI HEALTH



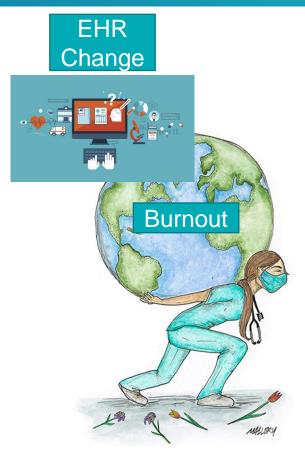




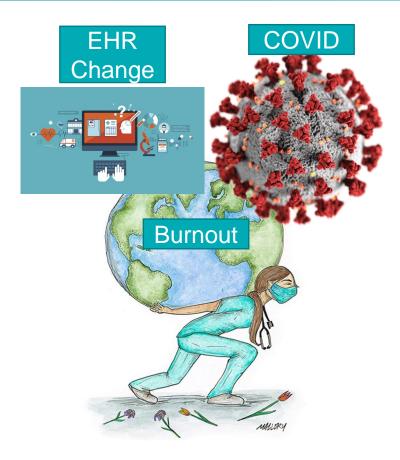
- 4,470 FTEs
- 720 Attending physicians
- 250 Advanced practice providers
- 800 Medical residents
- Annually:
 - >17K Discharges
 - >508K Clinic visits
 - >14K Surgeries
 - >41K ED visits
 - >1,750 Newborn deliveries



THE PERFECT STORM



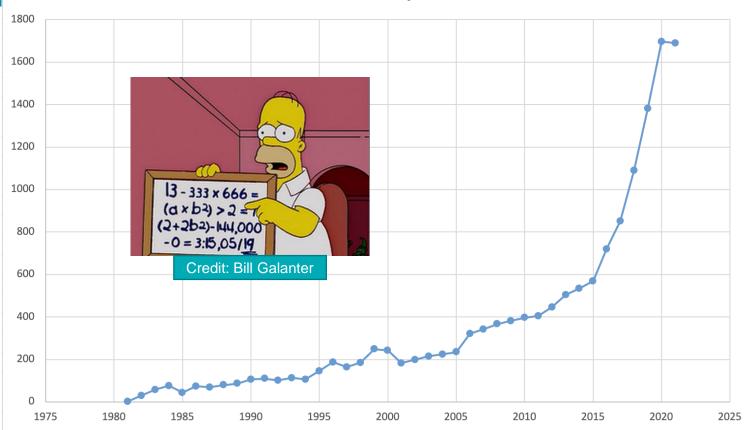
THE PERFECT STORM





BURNOUT

PubMed Burnout Papers Over Time







EHR'S AND BURNOUT

- Documentation related tasks
- Lack of autonomy
- Poor design of workflows
- Inbox
- Alerts/Cognitive fatigue
- Lack of work-life balance



Muhiyaddin R, Elfadl A, Mohamed E, et al. Electronic Health Records and Physician Burnout: A Scoping Review. In: Mantas J, Hasman A, Househ MS, Gallos P, Zoulias E, Liaskos J, eds. Studies in Health Technology and Informatics. IOS Press; 2022. doi:10.3233/SHTI210962

SOLUTIONS

- Training
- Local Customization (templates and workflows)
- Scribes (cheating)
- Physicians practicing at the top of license (support staff)
- Reduce clicks/pop-ups
- Filter out irrelevant info
- Lessen documentation burden (sometimes not in our control)
- Throw it out (innovation)



WHY AREN'T WE THERE YET?

 Few objective studies evaluating EHR usage and provider burnout

 Lack of standardization or quantitative measures make broad conclusions difficult

 Every EHR is a bit different, not all functionalities are equally burdensome





WHY AREN'T WE THERE YET?

 Well-being can be overshadowed by short term goals that have measurable outcomes which leadership is accountable to

THERE IS ALWAYS SOMETHING ELSE TO DO





HERE BEGINS OUR TALE: EHR TRANSITION



3i Vision

Current State Problem

- Multiple Disparate Systems
 - Issues with Integration and Standardization
- Burning Platforms
 - McKesson: HealthQuest is at the end of its lifecycle with no replacement system.
 - Cerner: Vendor strongly recommends transitioning from HPUX to Linux in order to improve performance and implement any additional functionality / solutions.
 - Epic: Pending Version Upgrade

Future State Vision

- "One" Clinically Integrated System
- "One" Integrated Enterprise-wide EHR
- "One" Integrated Business and Clinical Process
- "One" Integrated Business and Clinical Workflow







ADDED STRESSORS

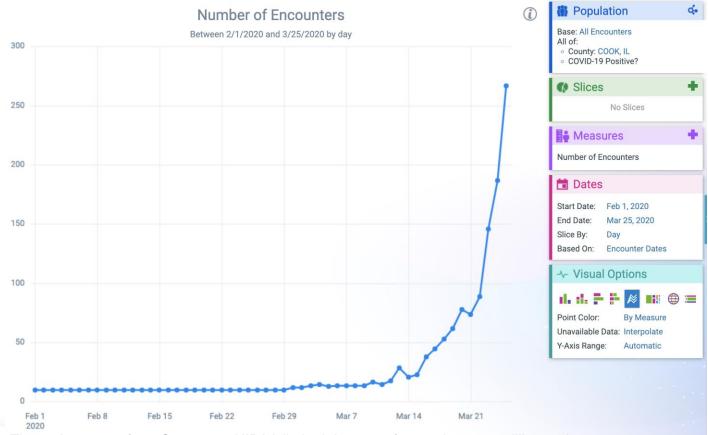
- Epic On-site Visits: 75+
- Epic Workflow Walkthroughs: 100+
- Readiness Session: 350+
- CORe Meetings: 17
- Clinical Summit: 1
- High Impact Workflow Summit: 1
- Polar Vortex 2019: 1
- COVID Pandemic: 1





COVID

MAY 9TH 2020 SCHEDULED GO-LIVE





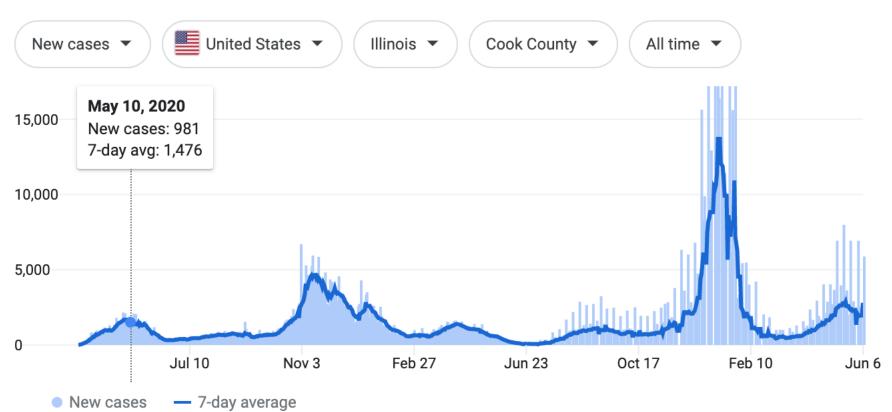


DECISIONS DECISIONS

- Legacy contracts expired June 30th (millions)
- Extending project consultant resources (millions)
- What if there is a worse surge in the fall?
- Need to set up virtual Training
- Reduced scope of in-person activities
 - Shadow charting in procedural areas
 - TDR
 - Go-live (Command Center, ATE, Superusers)
- Operational resources being pulled away
- March 25th decision to delay by 4 months

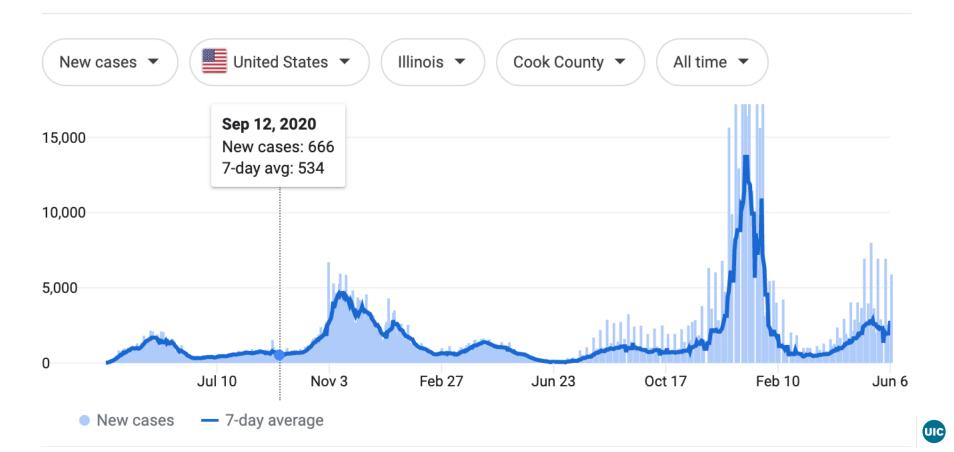


ORIGINAL GO-LIVE





NEW GO-LIVE (DELAYED BY 4 MO)



SHIFT OF FOCUS

- IS putting emergent COVID changes into legacy EHR
- While at the same time making sure we went live with all the newest COVID features in new EHR
- Added text messaging to scope
- Telemedicine
 - Inpatient
 - Outpatient





TRAINING CHANGES

	3/23	3/24	3/25	3/26	3/27
Total Classes	34	46	49	47	35
Total Registered	376	470	371	511	295
Completed	302	331			
No Shows	74	57			
In Process	n/a	82			

633 total users trained virtually

eLearning Modules 60% completed as of 3/25



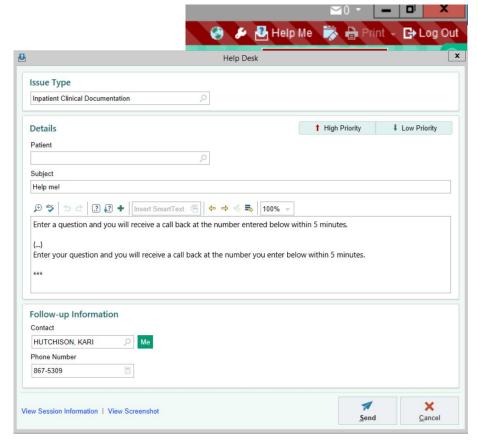
OBSERVATIONS

- Operations comes first some areas have pulled back (ED, Molecular, IC)
- Some areas adapting well (OR, Pharmacy, Providers)
- Login Labs a struggle in Virtual Classes
- STS Classes are primarily taught by our Specialty Champions
- Resource issues, specifically in Scheduling and Registration
- Communication channels



GO-LIVE SUPPORT CHANGES

- In person support scaled back
- Remote support added
- "Help Me" button attached screenshot
- Weekly testing of Command Center staff
- Work stoppage, onboarding agency staff







CURRENT CHALLENGES

CONSTANT CRISIS

- 18 mo "sprint" of go-live prep (years of prior prep work)
- Initial COVID wave
- Telemedicine and COVID response in old system
- Go-live with new system during pandemic and work stoppage
- Telemedicine and COVID response in new system
- Mass vaccination site and pop-up vaccination sites with new system
- Automated patient communication to at risk communities for vaccination with new system
- New therapeutics
- COVID Research



WHEN DID THE SPRINT TURN INTO A MARATHON?





COMFORTABLE WITH THE SYSTEM

- Post Live Survey struggles at 1, 3 and 6 mo
 - Feeling supported in my use of the EHR
 - The training I received helps me do my job
- Continued lack of familiarity with available tools

FUTURE STEPS

SOLUTIONS

- Training Targeted intervention from Signal data, Thrive
- Local Customization Amb focused build effort, more to do
- Scribes Active program
- Physicians practicing at the top of license support staff
- Reduce clicks/pop-ups Constant battle
- Filter out irrelevant info Working with vendor and operations
- Lessen documentation burden educate on new Amb rules
- Throw it out perhaps...



ARCH COLLABORATIVE





QUESTIONS?

