Getting Time Back in Your Day!

Implementing a Multi-Faceted Approach to Optimizing Epic in the Ambulatory Setting

Presenters: Dr. Jeff Tokazewski Carole Rosen Shane Thomas



Getting Time back in Your Day!



Speaker Disclosure

- The following speaker(s) have no relevant financial relationships to disclose:
- Jeffrey Tokazewski, MD
- Carole Rosen
- Shane Thomas

Goals & Objectives

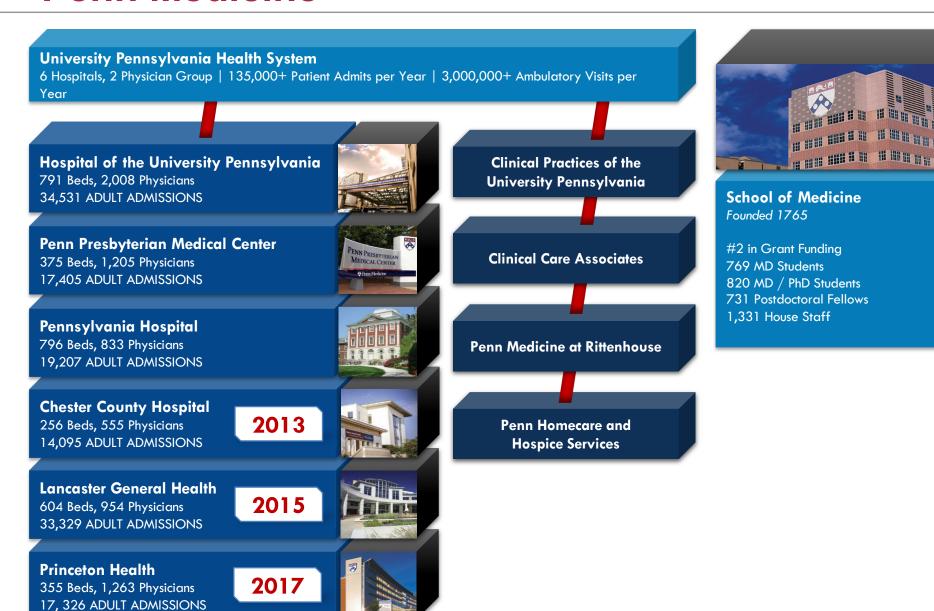
Goal is to demonstrate how Penn Medicine

- Implements a sustainable infrastructure to optimize provider and clinical support staff use of Epic
- Identifies opportunities to decrease EHR documentation burnout
- Impacts provider satisfaction through EHR education optimization

Learning objectives for participants:

- Ability to create an EHR optimization strategy for their respective institutions
- Receive detailed guidance about how to identify optimization opportunities through data and observations, developing an assessment and recommendations, creating education materials, and implementing an optimization plan
- Identify key players needed for the implementation of an optimization plan, methods to educate end users, and how to measure success

Penn Medicine





Epic History at Penn Medicine

1998

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2009

2011

2013

2015

2016/2017

2018

EpicCare Ambulatory EMR MyChart Patient Portal

2008

Beacon Oncology APM Prelude Cadence Resolute PB OpTime Anesthesia

ED Radiology Transplant

Inpatient Clinicals Revenue Cycle Homecare Cardiology Cupid





























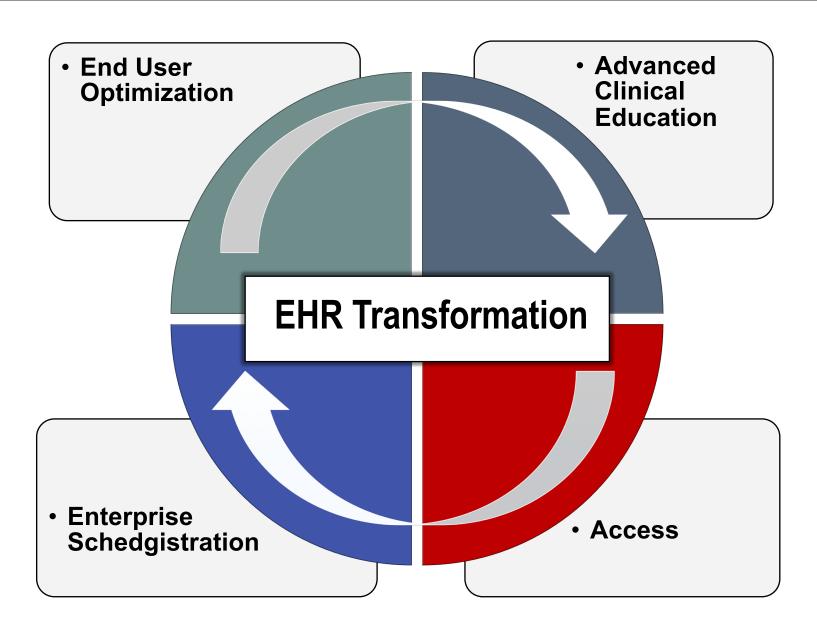




EHR Transformation Overview



EHR Transformation Key Focus Areas



Transformation Partners

PennChart IS What can we do?

- · Technical capabilities within systems
- · Penn specific system configuration
- EPIC/vendor best practices
- Reliability/resiliency

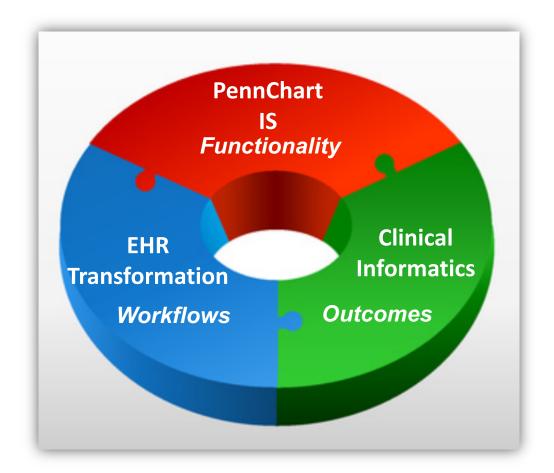
Clinical Informatics

CMIO & Nursing Informatics What should we do?

- · Establish Clinical Standards
- · Clinical process Improvement
- Improve outcomes through technology

EHR Transformation How do we use it best?

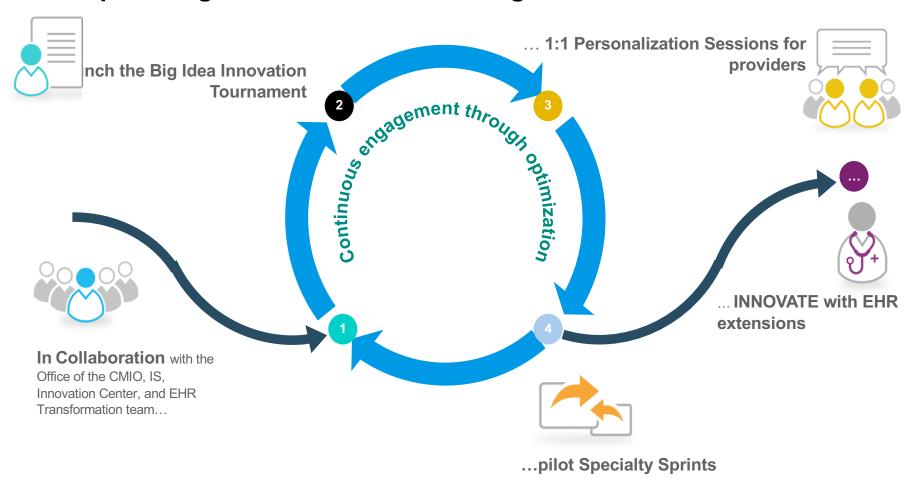
- Optimize operational workflows through advanced education and technology
- Enterprise Program Strategy & Adoption
- Access, Quality Incentives, Schedgistration





The EHR Optimization Campaign

Empowering Providers to Make Change



CCA Overview



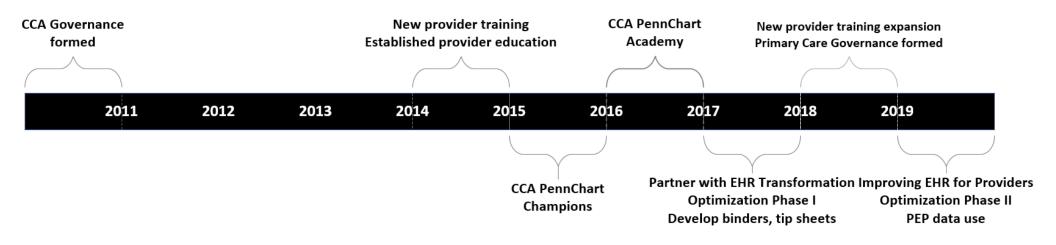
CCA (Clinical Care Associates)

- Large primary care network across SE Pennsylvania and southern NJ.
- 32 primary care practices, 33 specialty departments (single- and multi-specialty).
- Practice size range: Solo physician to 180,000 sq ft clinic.
- 343 providers:
 - 70% physicians
 - 20% nurse practitioners
 - 5% physician assistants
 - 5% midwives
- 829,000 ambulatory visits in 2018.

CCA Practice Locations



Evolution of CCA Optimization



Optimization – The Approach

Govern and **Prioritize**

- Establish governance
- Identify operational leadership accountabilities
- Develop strategic priorities
- Identify success metrics

Shadow and **Analyze**

- Identify roles to be shadowed. pathways and communication structures
- EHR education consultants shadow on units / in departments
- Identify **Opportunities**
 - · Workflow and process
 - Build / technical optimization
- Education optimization

Recommend and Plan

- EHR Education consultants consolidate all observations
- Develop recommendations:
 - Build requests (submit tickets)
- Changes in operational workflow
- Education and optimization efforts
- Present to governance / operational approval
- Develop curriculum

Educate and Optimize

- EHR Transformation / Operational leadership develop timeline for education optimization
 - Tools:
 - Workshops / Lunch and learns
 - Shoulder-toshoulder 1:1 sessions
 - Tip sheets / Micro learnings
 - Smart Bars
 - Measure Success

Establish Governance ■ Set Strategic Priority ■ Shadow and Analyze ■ Educate and Optimize



Guide to Optimization

Discovery

- Step 1: Identifying the Need
- Step 2: Creating an Infrastructure
- Step 3: Developing an Assessment

Execution

- Step 4: Providing a Recommendation and Obtaining Approval
- Step 5: Implementing the Plan

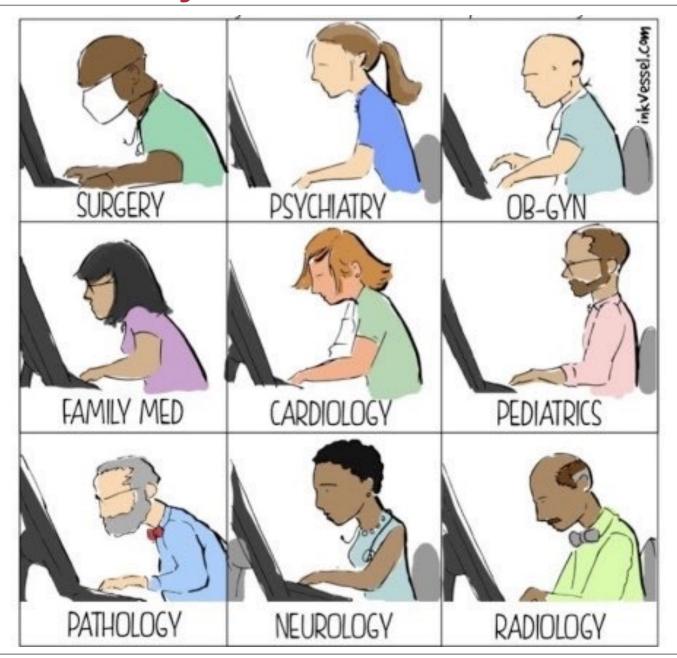
Sustainment

- Step 6: Evaluating Success
- Step 7: Ongoing Efforts/Phase 2, 3, etc.

Step 1: Identifying a Need



The Modern Physician?



How do we identify the need for optimization?

Literature on provider burnout

JAMA Internal Medicine

 Association Between Physician Burnout and Patient Safety, Professionalism, and Patient Satisfaction

Health Affairs

 Physician Burnout Is A Public Health Crisis – A Messages To Our Fellow Health Care CEOs

Understanding that provider well being impacts patient satisfaction, time allocation for preventative health practices, medical error rates, patient outcomes, work/life balance, and tenure at their institution

EHR Contribution to Burnout – inefficient usability, shifts in documentation workload, increased regulatory documentation, impact on interpersonal interactions

How do we identify the need for optimization?

 CCA senior administration focus: Quality, safety, and prevention of provider burnout

Metrics

- Closing office visit encounters within 72 hours
- Reviewing and addressing In Basket Results messages
- Total time providers are spending in Epic

Step 2: Creating an Infrastructure



Creating or Leverage an Infrastructure

Evaluate current state

- How are Epic optimization requests addressed in the department today?
- Existing governance structure or need to develop one?

Existing governance

 Add EHR optimization representative to committee who will facilitate optimization education, workflow redesign, Epic build enhancements, and connect department to resources required to complete requests

New governance

- Create a charter and define goals
- Identify members (clinical chair, IT representation, facilitator, clinical and operational representatives from department)
- Determine meeting logistics (dates/times, equipment, location)

Governance Responsibilities

Requirements:

Dedicated clinical and IT chair(s)

Endorsement from leadership to communicate and champion changes

Participation of clinical, operational, IT, and optimization representatives

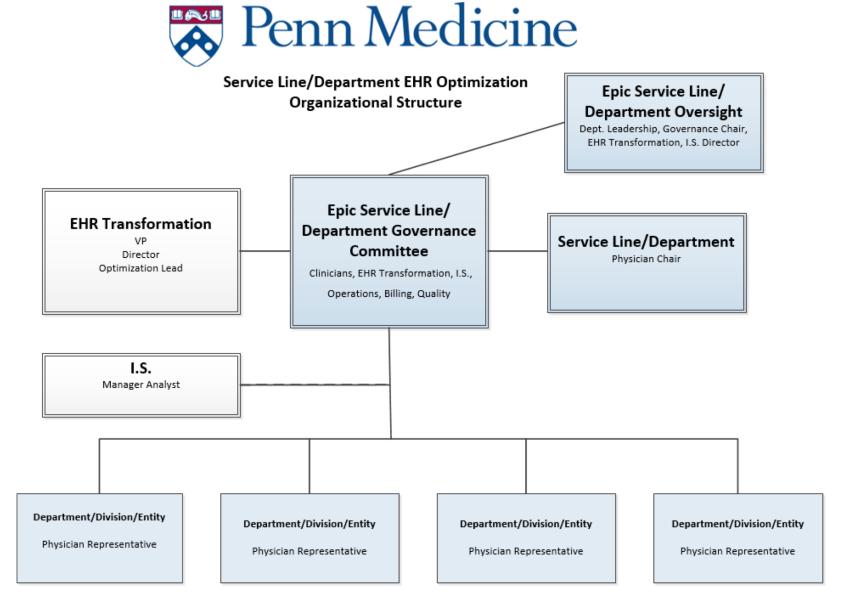
Responsibilities:

Review, prioritize, and approve/deny Epic optimization and enhancement requests/projects

Communicate Epic changes and optimization implementations across to colleagues within the department

Promote adoption of new enhancements/implementations and engagement within the committee

Governance Organization Structure



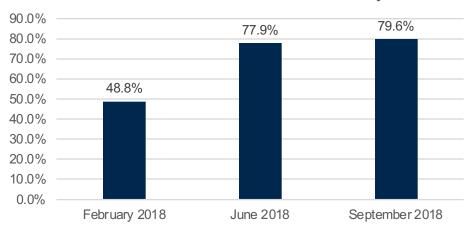


Step 3: Developing an Assessment

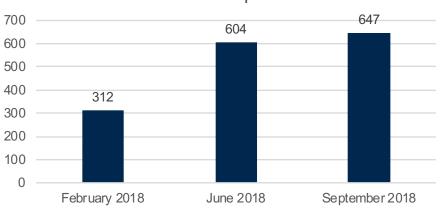


Optimization wins!

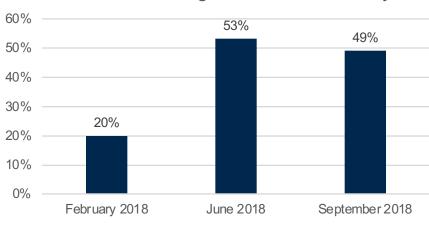
% Closed Office Visits Same Day



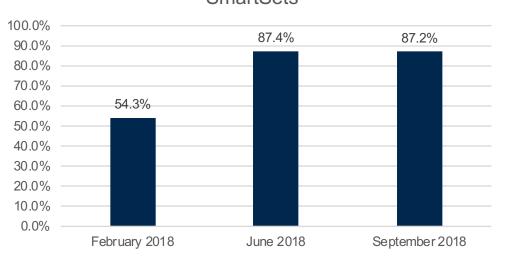
Total Number of Speed Buttons



% Results Messages Reviewed Quickly



% Orders Placed from Preference List or SmartSets



Discovery: Assessment Process

Shadowing and observations

- Logistics we shadowed in 14 ambulatory practices over a 3 week period spending 1-3 days in each practice. 8 educators shadowed for a total of 256 hours.
- Provider Efficiency Profile data- we looked at department wide PEP (Signal) data and identified opportunities for improvement
- CCA identified priorities as well:
 - Closing office visit encounters within 72 hours
 - Reviewing and addressing In Basket Results messages
 - Total time providers are spending in Epic
- Developed the assessment

Summary of CCA Shadowing Observations

Clinician Knowledge of EPIC

- Notes: Use of Smart tools
- Activities/Navigator: customization, speed buttons, filters, routing
- Communication Management:
- Orders: creating and use of preference lists
- In Basket: Folder Management, Quick actions

CCA Workflows

- Scope of Practice: MA's and RN's, Workflow redesign.
- · Training residents in EPIC each year
- Entering employee flu shots in EPIC
- Medication Reconciliation
- Provider documentation in patient rooms

Technical/Build Issues

- · Request for tap and go
- Dragon
- Room configurations
- Update smart sets
- Communication management templates



EPIC Overview

Epic Tool	Observation	Recommended Training
Patient Review Tools Chart Review Filters, Routing, Care everywhere/reconciler	 Limited filters or quick buttons Many unaware of routing Limited knowledge of Care Everywhere/Reconciler 	 Create Chart Review filters Routing Care Everywhere Overview
Enhanced Procedure Documentation SmartTools Note Writer, Smart Phrases, SmartLinks & Smart Lists	 Frequent free texting observed Many providers are not aware of how to create or edit their own Smartphrases Many do not know how to use SmartLinks or SmartLists in their documentation. Many lacking macros for note writer Unaware of pinning note to side bar Documentation from the problem list 	 Creating a SmartPhrase Creating a Custom SmartLink Saving SmartSets as a favorite Use of Note Writer w/macro's Quick buttons for progress notes Pinning note to side bar Problem based documentation
Communication Management and In Basket	 Many providers struggling to manage their folders in In Basket Many providers are not aware of Quick Actions Continued use of Letters Activity vs Communication Management Lacking templates for communication management 	 In Basket Folder management In Basket Quick Notes and quick actions Customize Communication Management- obtain templates, quick buttons
Personalizing Penn Chart Workspace	WidescreenSpeed ButtonsReports available in scheduleUse of Med view vs chart review	Customize Activity ButtonsCustomize Visit NavigatorCustomize Multi Provider Schedule
Orders Preference Lists/Medication Reconciliation	 Providers do not know how to create or edit existing preference lists Order entry vs meds and orders 	 Order Preference Favorites Best medication reconciliation workflow Use of meds and orders
Dragon	 Many providers would benefit from Dragon Provider not aware they have the ability to create Dragon commands and program the Dragon mic functionality to manual corrections rather than "training" Dragon 	 Establish work flow to obtain Dragon Creating Dragon Commands to insert notes Programing Dragon Mic with commands (F2, etc) Training Dragon to recognize difficult words, medical terminology etc.
Haiku/Canto	General Education on Haiku/Canto	 Handout will be available in Workshop Assistance during STS sessions

Step 4: Providing a Recommendation and Obtaining Approval



Leadership Presentation

Included

- Observations
- Recommendations
- Plan
- Leadership feedback
- Established forums for communication to keep leadership informed of progress
- Presented a mock workshop

Step 5: Implementing the Plan



Implementing the Plan

 We have developed a systematic process for preparing and customizing educational content for training, engaging with practices, and executing training

Pre-Education

- Review provider pre-surveys
- Assess user analytics
- Schedule education sessions
- Create division based curriculum with divisional leads

On-Site Education

- Workshops
- Shoulder to Shoulder sessions
- Rounding
- Drop-in Workshops

Post - Education

- Post Training Surveys
- Provide feedback to department from training
- Review of the issues formally recorded



Implementing the Plan

- We reached over 500 end users to enhance EHR efficiency for both providers and clinical support staff.
- Led over 80 one hour workshops to providers and clinical support staff
- Conducted over 180 one on one shoulder to shoulder sessions with providers

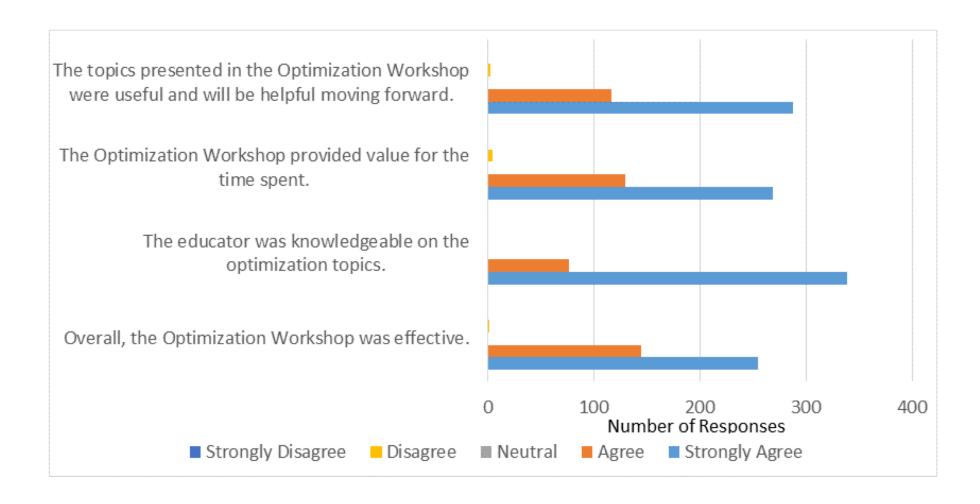
Step 6: Evaluating Success



How do we measure success?

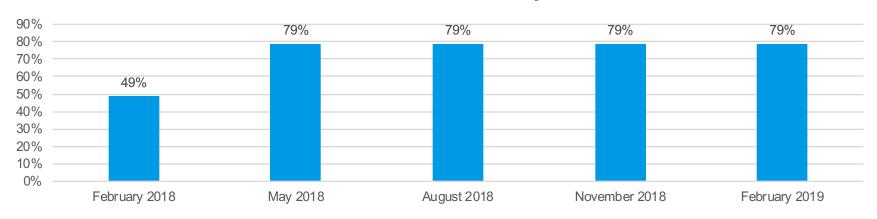
- Workshop surveys
- PEP (Signal) data
- Debrief Meeting

Measured success: Survey says.....

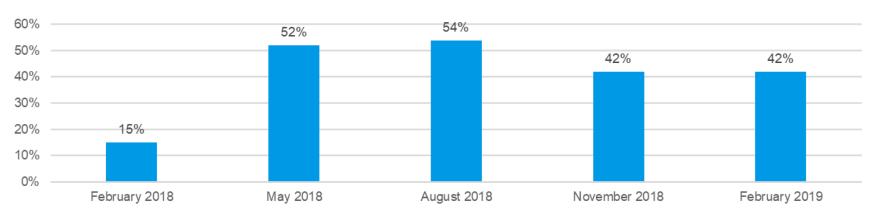


Measured Success- CCA Requests

% Office Visits Closed Same Day

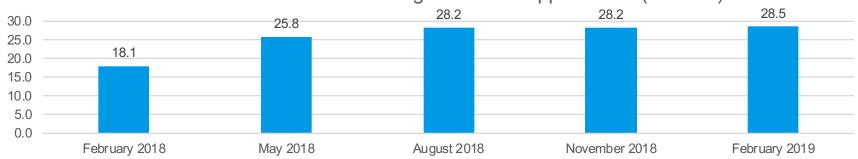


% Results Reviewed Quickly

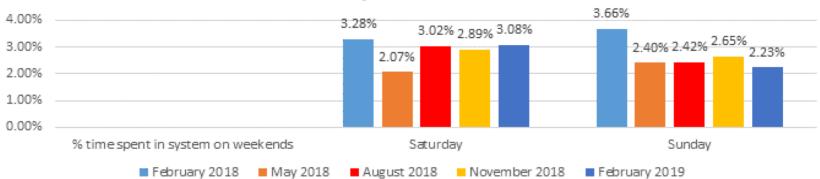


Measured Success- CCA Requests



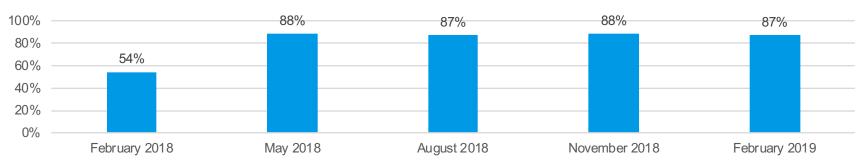


% Time Spent on Weekends

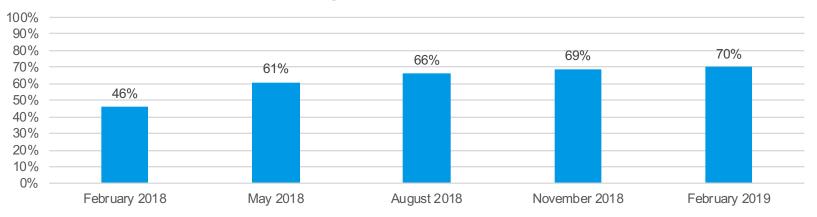


Additional Wins

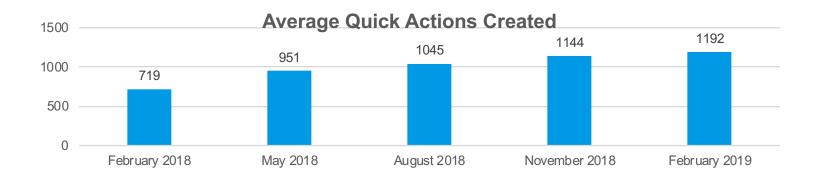
% Orders Placed from Preference List or Smart Sets

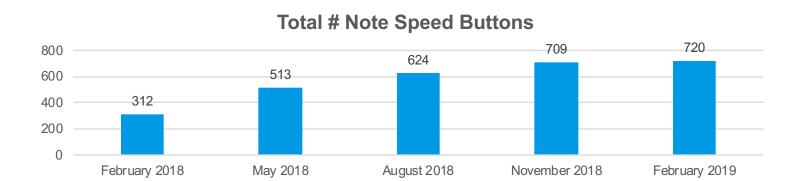


Average LOS Speed Buttons



Additional Wins





The Cost of Physician Burnout....

For an organization, the cost of physician burnout can range from \$500,000 to more than \$1 million per doctor.

Berg,S (2018). How much physician burnout is costing your organization. *American Medical Association (AMA)*

What did people say...

It was very valuable to have one on one training especially after having used Epic for 4+ years... Appreciate the opportunity to be able to ask additional questions via email

Fantastic personalization session felt like it covered the general ways to be more efficient in Epic while also focusing on my questions/needs within Epic. Will plan on recommending to all my colleagues!

It was a phenomenal capabilities that I never knew existed.

session...It was important to learn about PennChart

Your time, knowledge, patience and kindness are much appreciated. I hope that you hear often how the work you do is invaluable to providers...and this positive impact on providers has a very broad and positive impact on patient care and patients' experience of the care they receive.



The team had some more advanced suggestions for people already doing many of the optimization techniques.

He identified ways in which I could be faster. The time with him felt personalized.

I had reached the point of deciding that I could no longer be an effective physician in large part due to a heavy burden of the EMR in spite of my best efforts to use it according to what I thought were the most efficient workflows. I had no idea that the system could be optimized the way Carole taught me. Frankly I probably would have left medicine had it not been for Carole's teaching. Thank you so much for this essential resource for the physicians of CCA.

> The EHR team are truly an outstanding resource and well worth the investment that UPHS has made. For sure, the implementation and education of doctors/providers on EPIC has come a long way, in a positive way, since I started EPIC back in April 2010.

The IT specialist spent the first 10-15 minutes just watching your workflow. **Often** times, you don't even realize there's a problem unless someone points it out.

I really liked learning about increasing my efficiency and taking some of the challenges out of charting so I can spend more time talking with the patient vs clicking on the screen.



Step 7: Ongoing Efforts/Phase 2, 3, etc.



Sustainment: CCA Next Steps

- CCA Penn Chart Academy: Quarterly evening meetings for providers covering EMR and billing compliance
- Binders/tip sheets provided for each practice
- Governance and optimization workgroup
- Provider trainers: Assisted in training 2 Providers to become EPIC Power users for ongoing new provider onboarding.
- PEP sessions: One on One shoulder to shoulder sessions offered as needed to providers throughout the organization
- Focused workgroups: identifying new opportunities

Global Optimization Work



Optimization Initiatives

Ongoing

- Medication Refill Protocols
- Sprints
- PEP sessions

Future

- Note optimization
- In Basket optimization

For more information

Jeffrey Tokazewski, MD

Associate Medical Director for Clinical Informatics Clinical Care Associates – Penn Medicine <u>Jeffrey.tokazewski@uphs.upenn.edu</u>

Carole Rosen

Senior Business Process Integration Consultant EHR Transformation - Penn Medicine Carole.rosen@pennmedicine.upenn.edu

Shane P. Thomas

Senior Business Process Integration Consultant EHR Transformation - Penn Medicine Shane.Thomas2@uphs.upenn.edu

