

"Home for Dinner" - Reducing After Hours Documentation with Focused Training

EPIC UGM 2019
Session: Exec 16



Presenters

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MICHIGAN MEDICINE HOSPITALS, CLINICS AND AFFILIATIONS LOCATIONS

- City**
- Alma ●
 - Alpena ●
 - Ann Arbor ●
 - Brighton ●
 - Canton ●
 - Chelsea ●
 - Clare ●
 - Dexter ●
 - Flint ●
 - Gladwin ●
 - Grand Blanc ●
 - Grand Rapids ●
 - Howell ●
 - Jackson ●
 - Lansing ●
 - Livonia ●
 - Midland ●
 - Milford ●
 - Mt. Pleasant ●
 - Northville ●
 - Novi ●
 - Petoskey ●
 - Saline ●
 - Southfield ●
 - Toledo, Ohio ●
 - Traverse City ●
 - West Branch ●
 - Wyoming ●
 - Ypsilanti ●
 - Wyoming ●

- Legend**
- Hospitals ●
 - MidMichigan Health ●
 - Metro Health ●
 - Clinics ●



KEY FACTS

1,000 Licensed beds Medical and Surgical	26,000 Employees
3 Hospitals	48,793 Discharges
40 Outpatient facilities	300K Patient days
5,000 Nurses	104K ER/urgent care visits
1,199 Residents in training	2.1M Outpatient clinic visits
105 Specialties	54K Surgeries
708 Medical students	4,400 Babies Delivered

RESEARCH ACTIVITIES

235 New inventions
57 Patents Awarded
112 New option and license agreements with industry
7 New startup companies

MISSION STATEMENT:

WE ADVANCE HEALTH TO SERVE MICHIGAN AND THE WORLD.





Objectives



Describe Proficiency Program

Describe targeted, provider-focused training and workflow re-design with measurable improvements in proficiency and provider satisfaction through Home for Dinner and BOOST programs.

Understand the Data

Identify best practices for efficiency programs and look for meaningful outcome measures in the complex data to better understand impact of these efforts.

Extrapolate to other Audiences

Consider how best to use this data going forward to adjust expectations and programming and support funding of a broader effort in inpatient, ED and for nursing staff.

Provider Burnout is in the Headlines

THE NEW YORKER
ANNALS OF MEDICINE NOVEMBER 12, 2018 ISSUE

WHY DOCTORS HATE THEIR COMPUTERS

Digitization promises to make medical care easier and more efficient. But are screens coming between doctors and patients?

By Atul Gawande

Declaring Doctor Burnout a 'Health Crisis,' Hospital CEOs Urge Action

USNews

Forbes
16,379 views | Sep 6, 2016, 07:13am

For Every Hour With Patients, Doctors Spend Two Record-Keeping

Research Shows Link Between EHR and Physician Burnout

The Hospitalist. 2016 April;2016(4)

Click image to read article



The Washington Post
Democracy Dies in Darkness

Health & Science

Physician burnout taking center stage

The Atlantic
HUMAN CAPITAL

The Burnout Crisis in American Medicine

Are electronic medical records and demanding regulations contributing to a historic doctor shortage?

RENA XU MAY 11, 2018

Harvard Business Review
TECHNOLOGY

To Combat Physician Burnout and Improve Care, Fix the Electronic Health Record

by Robert Wachter and Jeff Goldsmith
MARCH 30, 2018

And at Michigan Medicine

2 in 5

Michigan Medicine Physicians report experiencing burnout.

Experience Burnout **42%**

MiChart Related Stress **>33%**

Excessive After Hours Time in MiChart **52%**

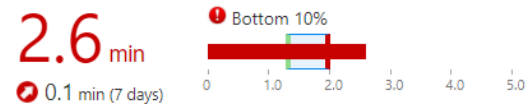
Proficient based on self-perception **82%**

Proficient based on Epic Usage Data **46%**

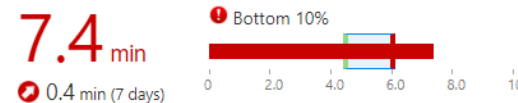
Source: Michigan Medicine Faculty Physician Health Initiative (FPHI) Survey 2018; includes faculty in clinical departments only.



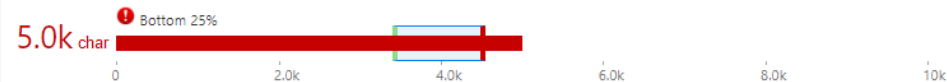
Time in In Basket per Appointment



Time in Notes per Appointment



Documentation Length





Physician Burnout is a Systemic Issue

Physician burnout can have widespread impact on patient quality, staff performance and organizational performance.



- Increased risk of medical errors
- Decreased provider empathy for patients
- Lower patient satisfaction



- Increased turnover
- Reduced performance
- Reduced innovation
- Lack of collaboration and ineffective team communication



- Reduced clinical effort
- Reduced productivity
- Increased attrition

Training can help!

Healthcare **IT** News GLOBAL EDITION TOP

EHR training is biggest predictor of user satisfaction, experts say

By [Mike Miliard](#) | May 17, 2019 | 03:56 PM

A better clinician experience makes for higher-quality patient care, according to a new report from KLAS' Arch Collaborative, which makes the case for bigger investment in end-user education.



Healthcare **IT** News GLOBAL EDITION TOP

Can EHRs' contributions to physician burnout be cured? Mixing up training can help

It's pivotal for organizations to institute an ongoing program that promotes a state of continuous improvement, keeping pace with new functionality, one HIMSS19 speaker says.

By [Bill Siwicki](#) | January 29, 2019 | 10:50 AM



Health systems invested in electronic health records to drive patient care improvements, increase efficiencies, reduce lengths of payment cycles and allow for prospective and retrospective reporting without manual intervention.

Some, not all, of those anticipated benefits have been realized. In many cases, expected clinical efficiencies are not being experienced, and often satisfaction is

Training Initiatives



Actual Photo
Epic Training Team



Home for Dinner: 2 day course, 15 CMEs for a class of 18 providers, led by 3+ Trainers and + provider champions, working in live environment (Current users sign up on their own)



MiChart Boost: Performance improvement & usability initiative. Department specific education program including Home for Dinner concepts, workflow analysis and build requests.



Program 1

Home for Dinner

MiChart Ambulatory Provider Efficiency Course
15 CMEs

Home for Dinner: Ambulatory Provider Efficiency Course



Topics include: Clinical Review, Workspace Customization, In Basket Customization and Efficiency, Notes & Smart Tools, and using/customizing the Plan and Wrap Up Tabs to improve efficiency



2 Days focused time
(15 CME credits)



Engaging atmosphere with lunch, snacks and prizes



Hands on – personalize and customize in the live production system



Offered Monthly
(Classes full thru Dec)

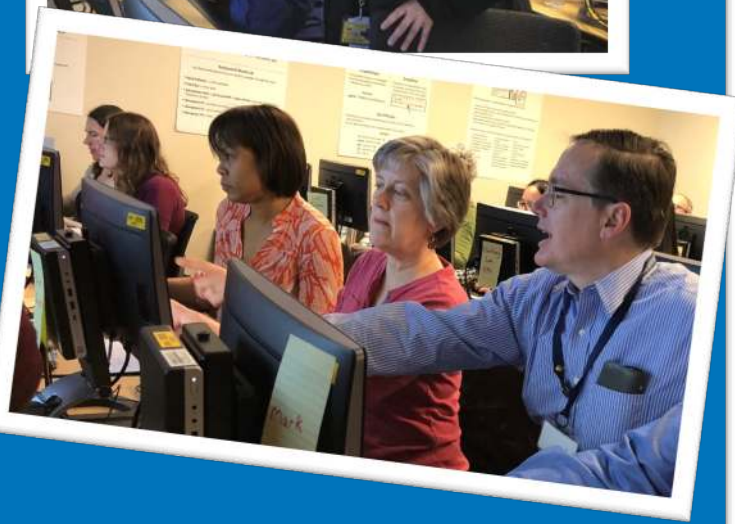
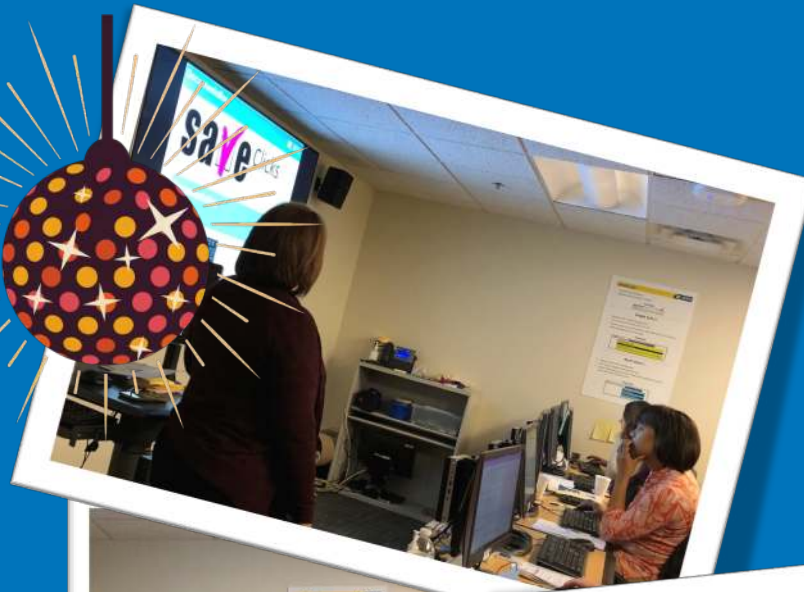


Individualized support from trainers and experienced physician(s)

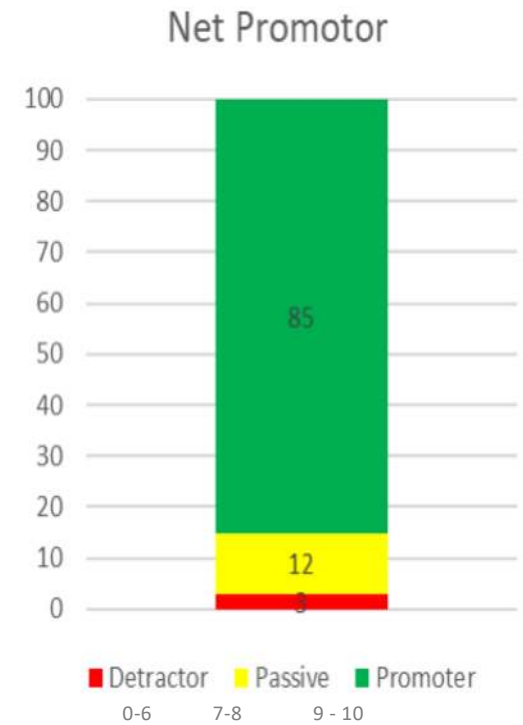
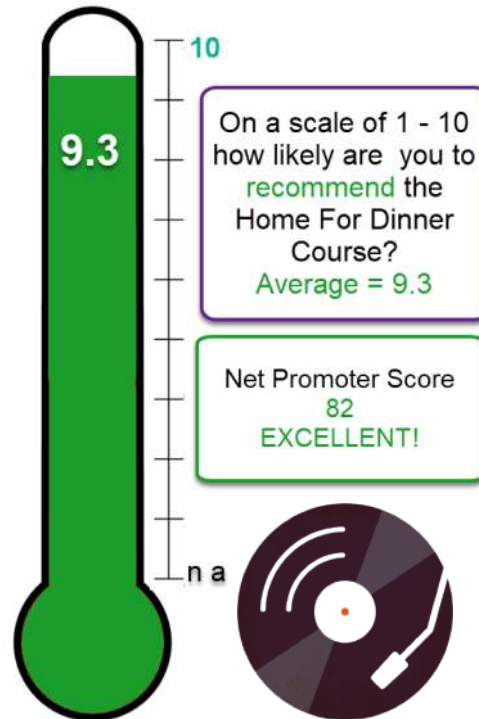
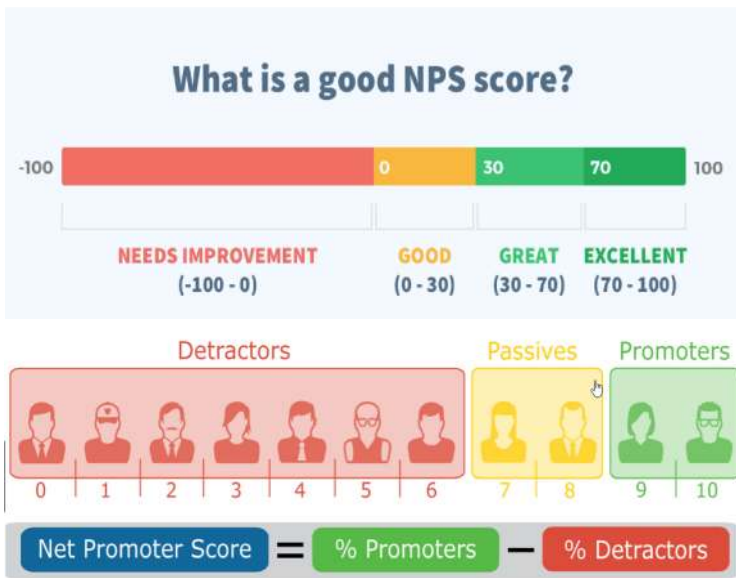


Pre-and post-survey collected
Signal data reviewed with participants
Learning home dashboard shared with all

Class in Action

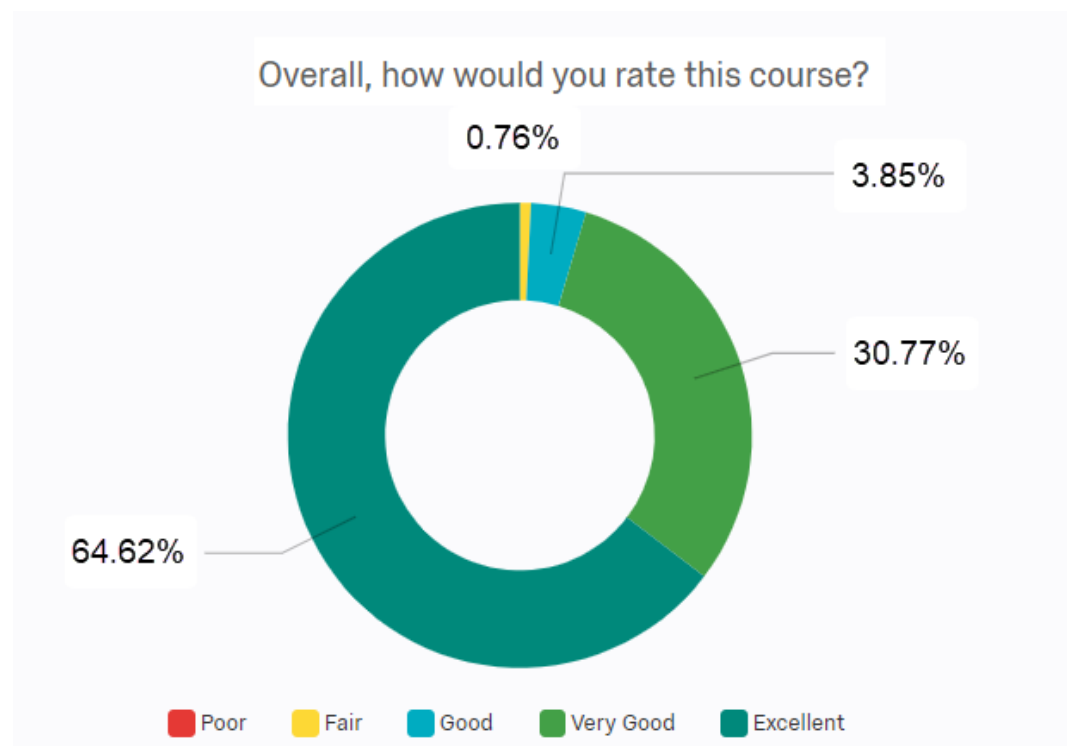


Home for Dinner Course NPS



Home for Dinner Course Satisfaction

95% of attendees rate the course as Excellent or Very Good



What Providers are Saying

2 day MiChart "Home for Dinner" training is great. Huge help to increase efficiency and cut down time to document. Would recommend highly.

- John Allen, MD, MBA

This should be mandatory for new hires, 3-6 months after they start.

Personalizing MiChart by using custom features will save me time.
- Kirk Brower, MD

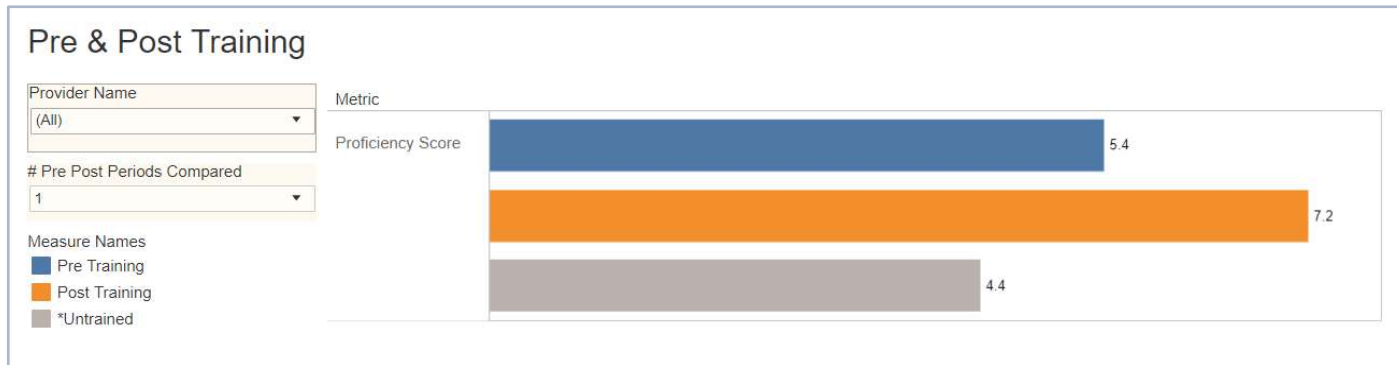
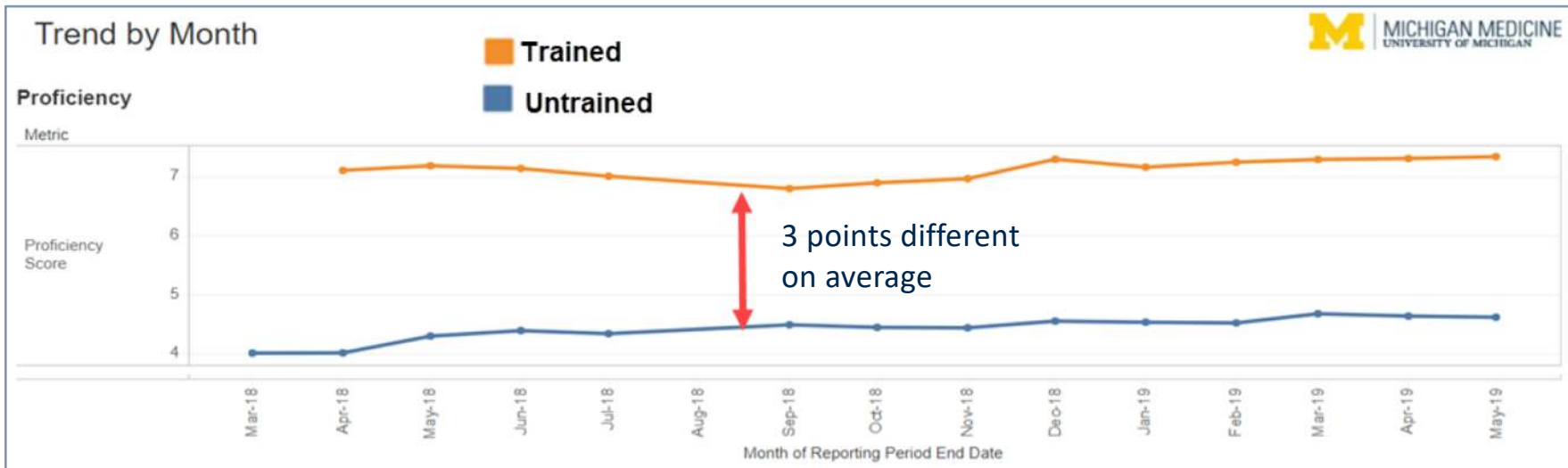
My In Basket efficiency has improved the most, and I have been able to eliminate a few clicks per patient which gives me a feeling akin to joy... And to have the time during the course to systematically go through this within each Michart function was a luxury of great value and should not be a luxury but a necessity for all provider users of Michart.

This course was the perfect way to build up your MiChart efficiency AND get CME credits for the time you spend doing it. Building tools in MiChart upfront is going to save me a lot of time every day from here on out.

I found a lot of short cuts that I did not know existed. I LOVED that we were actively modifying our own MiChart rather than learning about something in a class, then trying to remember it and find time to apply it to our own work later. I also really appreciated the hands on help.



Proficiency Scores Improve Significantly

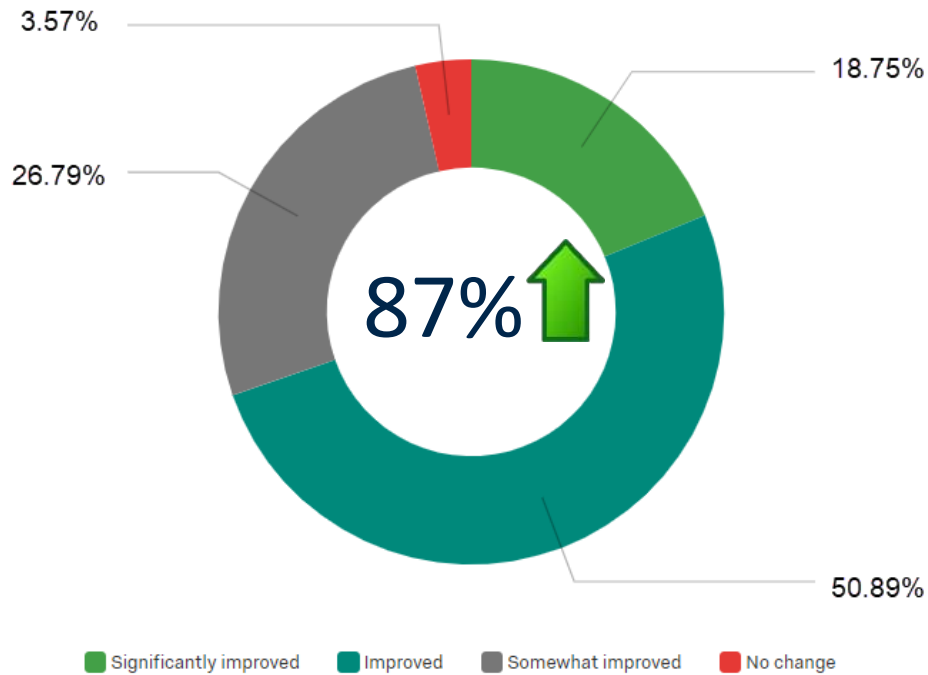


Data adjusted for October changes in Epic Calculation

Perceived Improvement in Efficiency and Quality of time

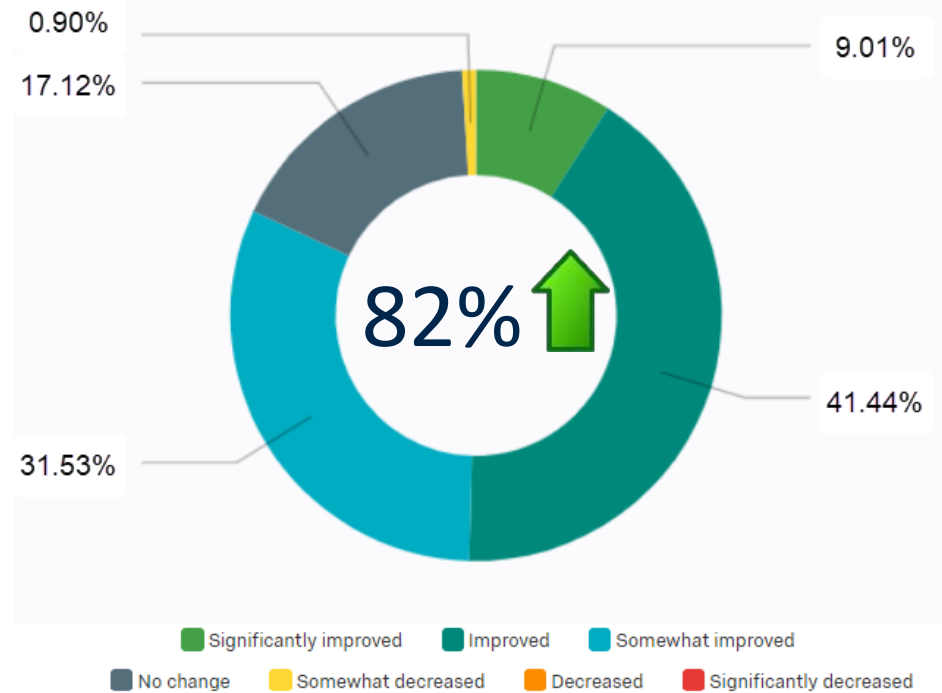
Efficiency/Proficiency

To what degree do you feel participating in Home for Dinner has improved your overall efficiency/proficiency?



Quality of Time Spent

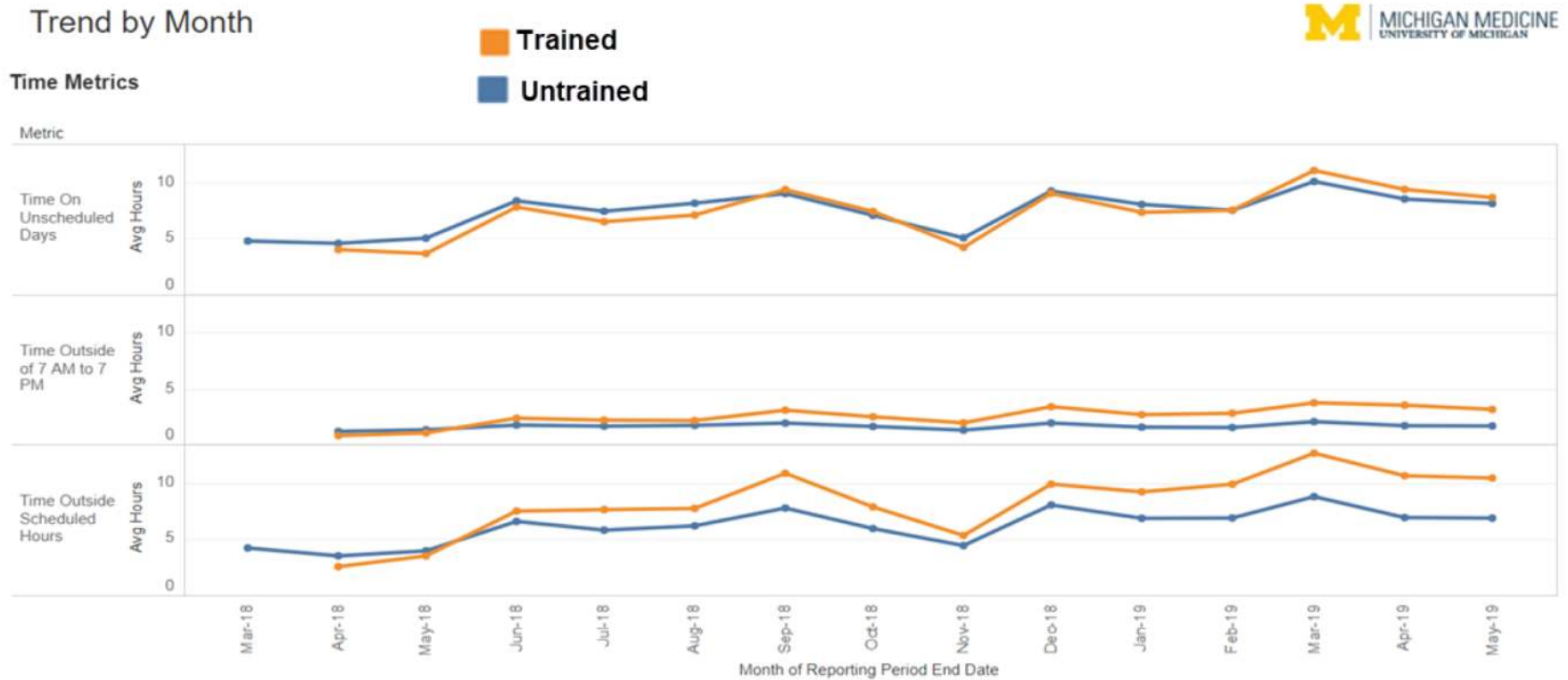
To what extent do you feel that the quality of your time spent in MiChart has changed since Home for Dinner?



Which of the following are true after the Home for Dinner Course?

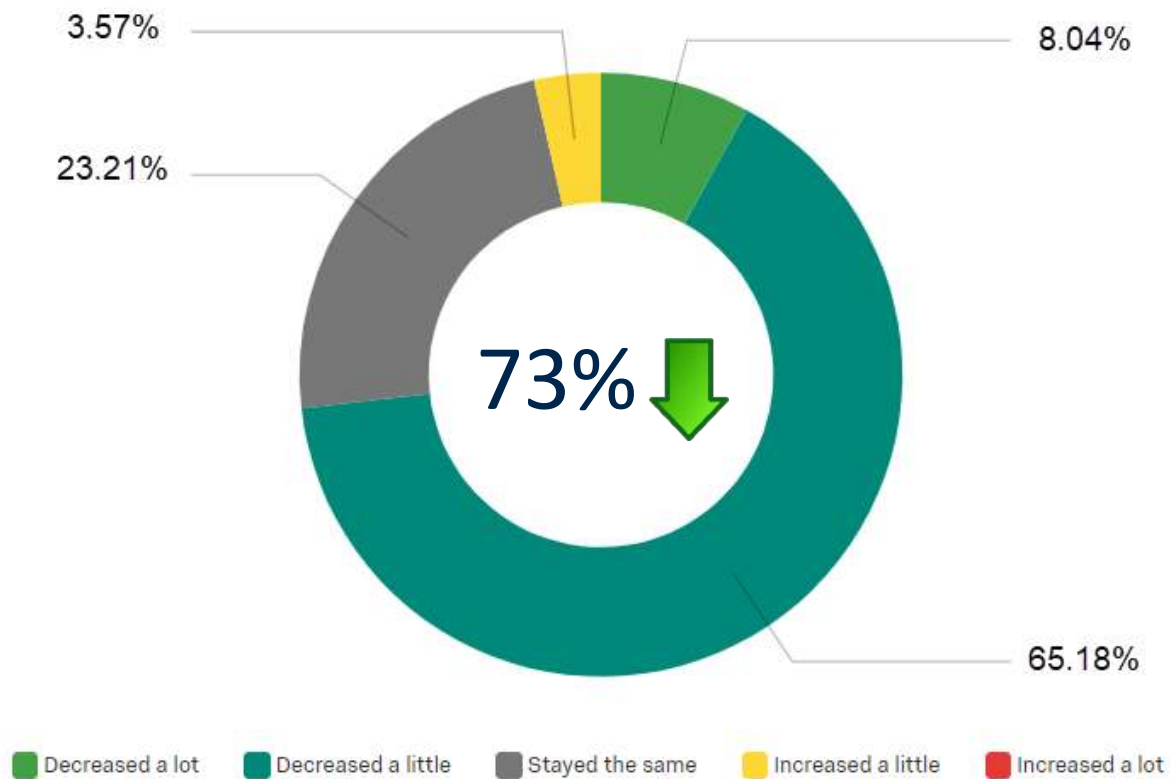
Statement	Percent True
I can find information more quickly	63.89%
I can document information more quickly	59.26%
I feel more empowered to change my environment (in computer or in clinic workflow)	44.44%
I am less frustrated	41.67%
My In Basket is cleaner	36.11%
I understand In Basket messaging better	34.26%
I feel more in control of my day	23.15%
Other	10.19%
I feel less burned out	6.48%

Where is the time savings?



Perceived Time Spent in MiChart

To what extent has your time spent in MiChart changed since the Home for Dinner course?



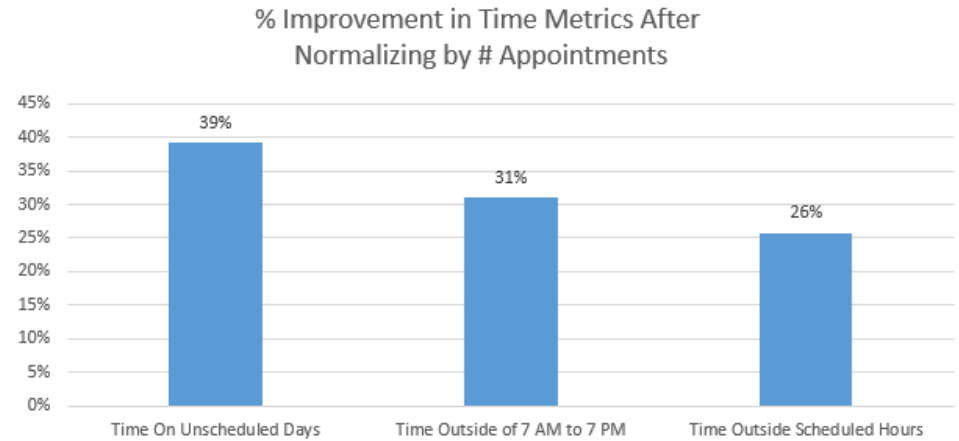
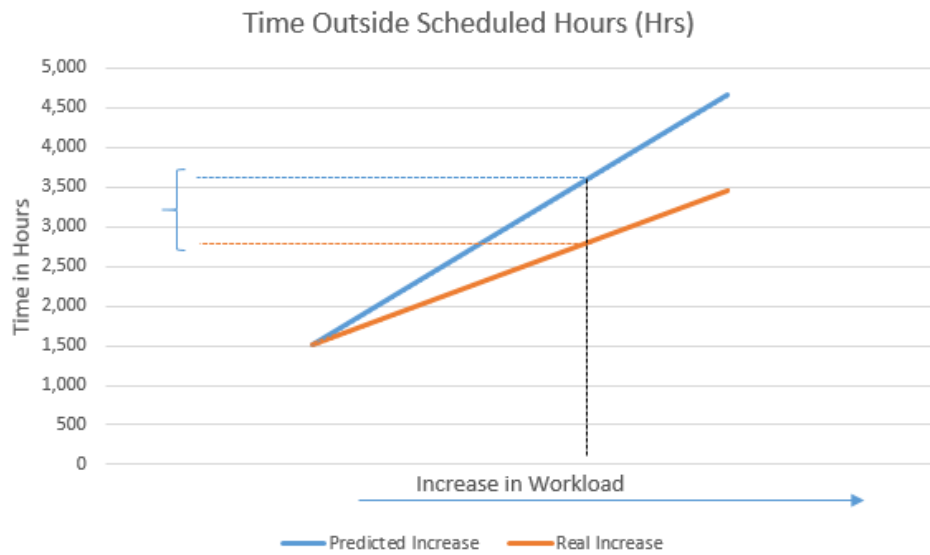
Potential Confounders Causing More Time



- Seasonal variation
- Newer providers that ramp up appointment volume
- Overall increase in appointments/patient access efforts
- Other obligations during workday forcing catch up after hours
- More pre-charting
- Shift away from delegation (do it themselves)
- Shift away from dictation toward smart tools or copy forward
- Increased In Basket volume
- Using In Basket more instead of e-mail or other

The Rest of the Story

112% more appointments post-training





Program 2

MiChart Boost

Performance Improvement & Usability
for Ambulatory Providers

MiChart Boost



***Vision:** To promote a state of continuous improvement keeping pace with new MiChart functionality and end-user needs.*

1

A comprehensive, ongoing educational program specifically designed to increase faculty's usability with MiChart; addressing faculty's needs on their time, customized to the way that they most want to learn

2

Dedicated resources who understand the clinical environment, deliver workflow-based interventions and partner with identified provider champions

3

Organizational commitment and support for faculty participation in MiChart training programs

Program Basics



Assess	Plan	Implement	Evaluate
<p>Assess individual & departmental performance</p> <ol style="list-style-type: none"> 1. Self assessment surveys 2. Epic Data (PEP) 3. Observation & Interviews 4. Workflow review 	<p>Develop improvement plans (department & individual)</p> <ol style="list-style-type: none"> 1. Training 2. Customized learning events 3. At the elbow (ATE) education 	<p>Implement Plan</p> <ol style="list-style-type: none"> 1. Design and develop specialized materials and job aides 2. Perform training and learning events (including ATE) 	<p>Evaluate program for success</p> <ol style="list-style-type: none"> 1. Provider perceptions 2. Improved PEP results 3. Reduced hours outside 7a - 7p/ unscheduled days 4. Others TBD

Staffing/Resources

* 20% funding provided

** Department Staff



Physician Trainers*

1. Perform assessments, observations, etc.
2. Develop improvement plans
3. Create/modify curriculum
4. Provide training/ATE
5. Assist in evaluation

Training Coordinator

1. Coordinate and schedule internal and customer meetings, trainings, ATE support
2. Assist in project management of key tasks and deliverables
3. Assist in data collection and analysis

Provider Champion*

1. Participate in developing improvement plans
2. Collaborate with trainers in determining curriculum needs
3. Provide training and support onsite

Super User**

1. Collaborate with Provider Champion and Trainers as available to provide education and support for department

Expanding Beyond Ambulatory Providers

What about the rest of the iceberg?





- In addition to providers, many others would benefit from additional training.
 - Provider trainees—med students, residents, fellows
 - RNs, LPNs
 - PT/OT, Nutrition, Pharmacy, Social work, Psychology, Genetics, etc.
 - MAs
 - Home care staff
 - Front office staff
 - Administrators (report use)
 - Research
 - ...and Patients!

Can We Afford **Not** to Invest in Efficiency?

- Provider/staff burnout, inefficiencies, non-standard workflows, and patient safety risks **abound** in EHRs
- Improved knowledge and standard use can mitigate these risks
- Cost for HFD ~\$600/provider, Boost ~\$1000/provider
- Value estimates for expansion:

 Assumption: 0.83 hrs/person/month = 10 hrs/person/year

Role	#	Hours	FTE
Physicians	2500	25,000	13
Nurses	5500	55,000	29
Advanced Practice	500	5000	3
Allied Health	2000	20,000	10
Total		105,000	55



? How many FTE from these cohorts can be re-purposed to colleague training?



MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN



THANK YOU



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