

Addressing EHR-related Burnout at CAMH

25 January 2021

camh



AGENDA

1

About CAMH &
The I-CARE Journey

2

Practical
Recommendations
for Reducing EHR-
Related Burnout

3

Physician
Engagement
Strategy

1

About CAMH

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CAMH - Health redefined.



- Largest mental health and addictions hospital in Canada
- University of Toronto - affiliated teaching hospital
- World leader in brain science
- 3 main sites with 30+ locations
- 90 distinct services between an emergency department, inpatient, outpatient, day treatment and partial hospitalization models

I-CARE Journey



Canada EMR Adoption ModelSM

STAGE	2017 Q2
Stage 7	2
Stage 6	7
Stage 5	25
Stage 4	10
Stage 3	197
Stage 2	190
Stage 1	100
Stage 0	113
n=644	

Cumulative Capabilities

Achieved: June 2017

Achieved: June 2015

Pre I-CARE

Key (Difficult) Requirements:

- Paperless clinical environment (<1% documentation created on paper)
- **Closed Loop Medication Administration and CPOE rates sustained above 95% and 90% respectively**
- **Demonstrated use of clinical data to improve quality of care and patient safety over a 1 year period**
- Demonstrated use of data to achieve financial savings
- Advanced clinical decision support
- All external documentation scanned within 24h

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Practical Recommendations for Reducing EHR-Related Burnout

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Background

Electronic health records contributing to physician burnout

Roger Collier

CMAJ November 13, 2017 189 (45) E1405-E1406; DOI: <https://doi.org/10.1503/cmaj.109-5522>

JAMA
Network | **Open**



Original Investigation | Health Informatics

Association of Electronic Health Record Design and Use Factors With Clinician Stress and Burnout

Original article

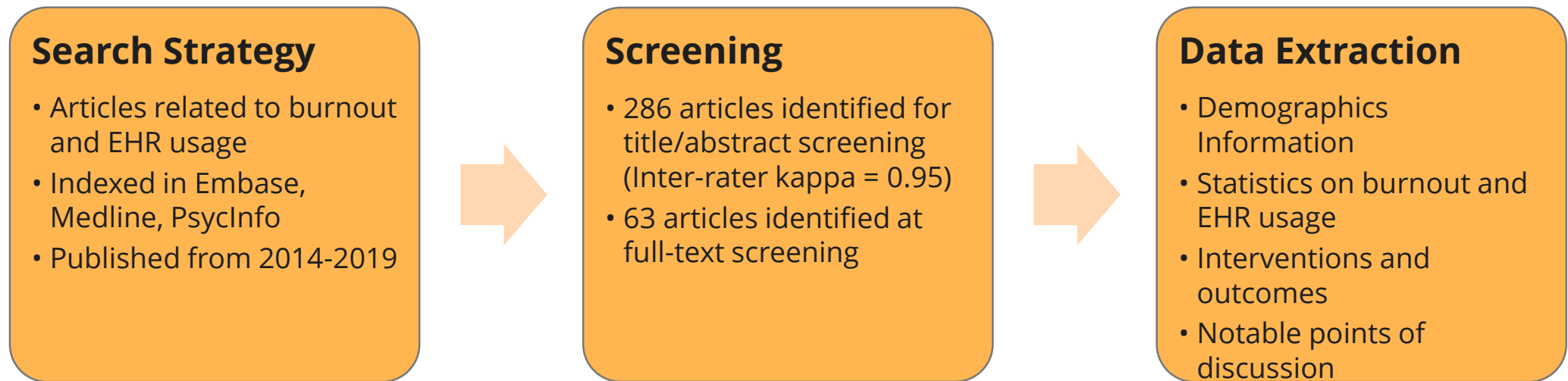
MD; Sharry Veres, MD; Stewart Babbott, MD; Sara Poplau, BA; Fares Qeadan, PhD; Carolyn Parshall, MPH;

Optimization Sprints: Improving Clinician Satisfaction and Teamwork by Rapidly Reducing Electronic Health Record Burden

Amber Sieja MD ^a, Katie Markley MD ^b, Jonathan Pell MD ^a, Christine Gonzalez CSM ^c, Brian Redig MBA ^c, Patrick Kneeland MD ^a, Chen-Tan Lin MD ^a  

Methods

Objective: Review the **current initiatives and strategies** aimed at combatting EHR-related burnout and achieving the quadruple aim among multiple clinician groups, and what **recommendations** may be derived for the Canadian context.



Results: Demographics of Included Articles

50 articles included for analysis

84% of articles published between 2017 – 2019

24% of articles were editorials or commentaries

98% of articles were published in the **US (n = 47), Canada (n = 2)**

Only **2 articles** were conducted in **psychiatric settings**

62% of articles (n = 34) examined EHR usage and burnout in **medical doctors**

Results: Measuring EHR-Related Burden and Burnout

Methodologies Employed



Surveys
(n = 22)



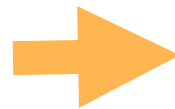
Interviews
(n = 2)



Usage Logs
(n = 7)

Statistics on Burnout and EHR Usage

Cross-section of
24
articles reporting current state



25%

of respondents reported symptoms of burnout

70%

of those reporting burnout attributed it to using health information technology, such as EHRs

Those who had symptoms of burnout often disagreed with others about the efficiency of EHR systems

Results: Potential Interventions to Identify and Reduce Burnout



Education and Training
(n = 3)



Additional Support
(n = 5)



Interface Improvement
(n = 6)

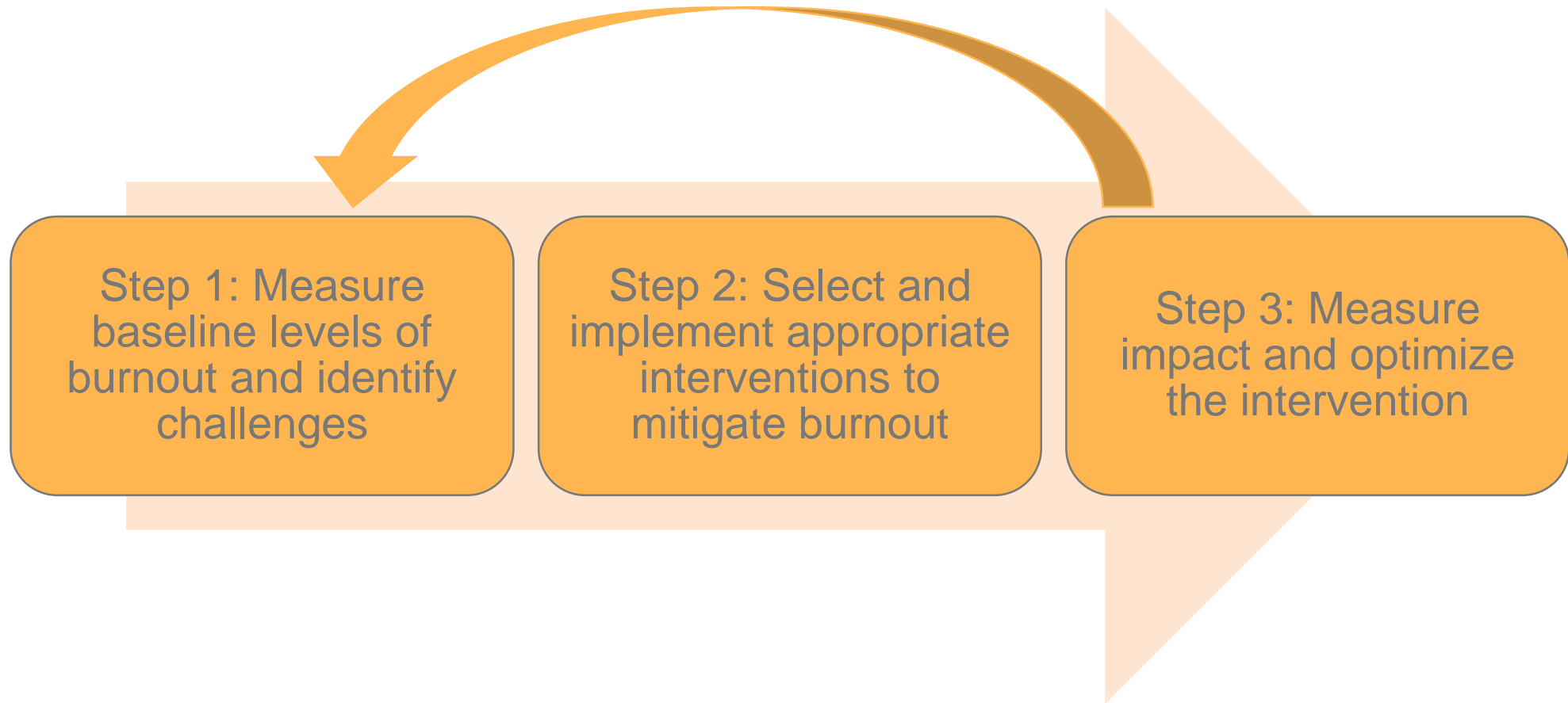


Communication Improvement
(n = 1)

Discussion

- The global adoption of EHR systems highlights the need to **examine burnout and EHR usage outside of the American context**
- Only **2 articles have focused on a mental health setting**, with one examining psychiatric residents and faculty²
 - The unique documentation demands of psychiatry warrants **further exploration** of using EHR systems in this domain
- Most of the literature has **focused on physician usage** of EHR systems, however, **other healthcare professionals** critical to mental health care delivery (e.g., nurses, social workers) should also be **supported in EHR usage**⁴
- There is a **paucity of evidence** surrounding effective techniques to identify and reduce burnout; identifying which **techniques** are **efficient** and **cost-effective** is critical to developing a toolkit **to support the increasingly advanced digital healthcare environment**⁴

Recommendations



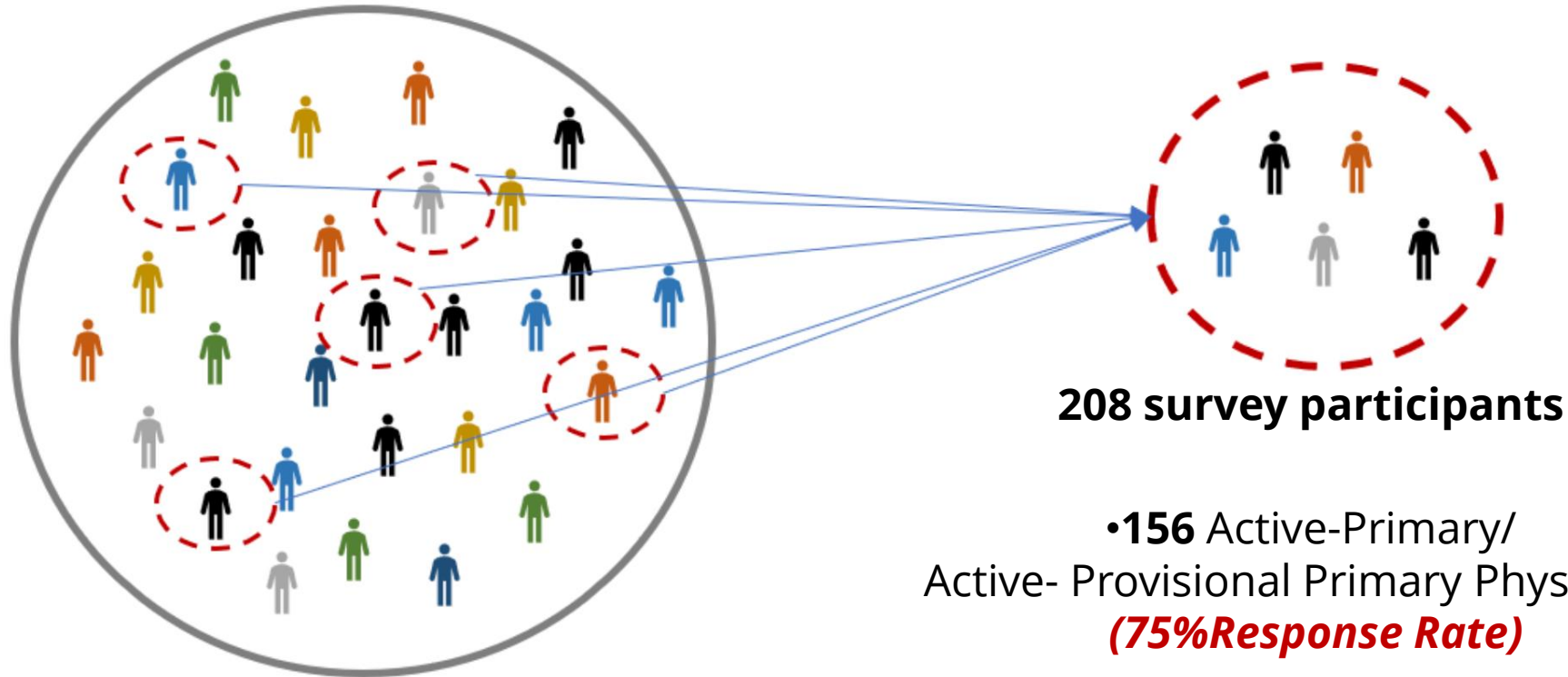
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CAMH Physician Engagement Strategy

Dr. Tania Tajirian

Chief Medical Information Officer
Chief Medicine in Psychiatry Division

Benchmark Survey: Target population & sample



474 CAMH physicians and learners

- **208** Full-time physicians*
- **199** Part-time physicians**
- **67** Learners (53 residents, 14 fellows)

208 survey participants

• **156** Active-Primary/
Active- Provisional Primary Physicians*
(75% Response Rate)

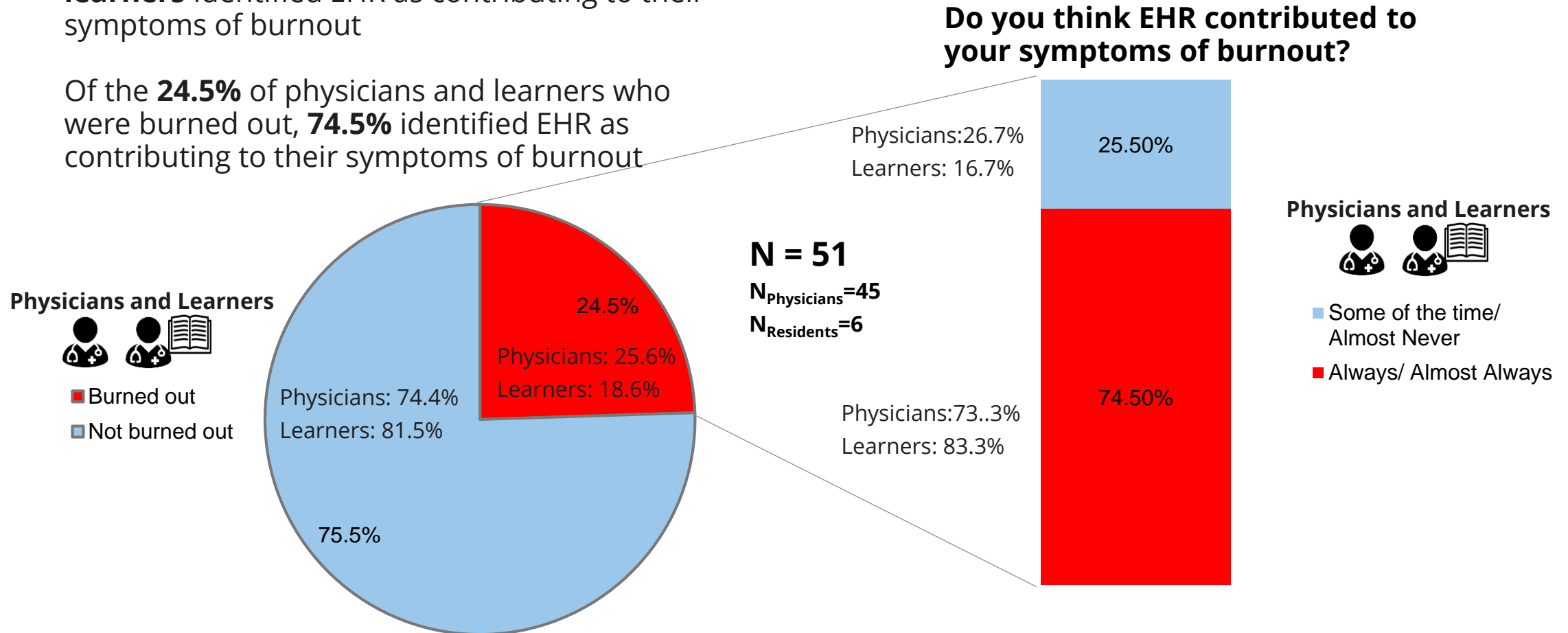
• **20** Active- Primary Secondary/
Active- Secondary/ Clinical Associate/
Consultants/Courtesy**
(10% Response Rate)

• **32** Learners (Residents/ Fellows)
(47.8% Response Rate)

Benchmark Survey: Contribution of EHR to physician burnout

In total, **69.7% of physicians** and **68.8% of learners** identified EHR as contributing to their symptoms of burnout

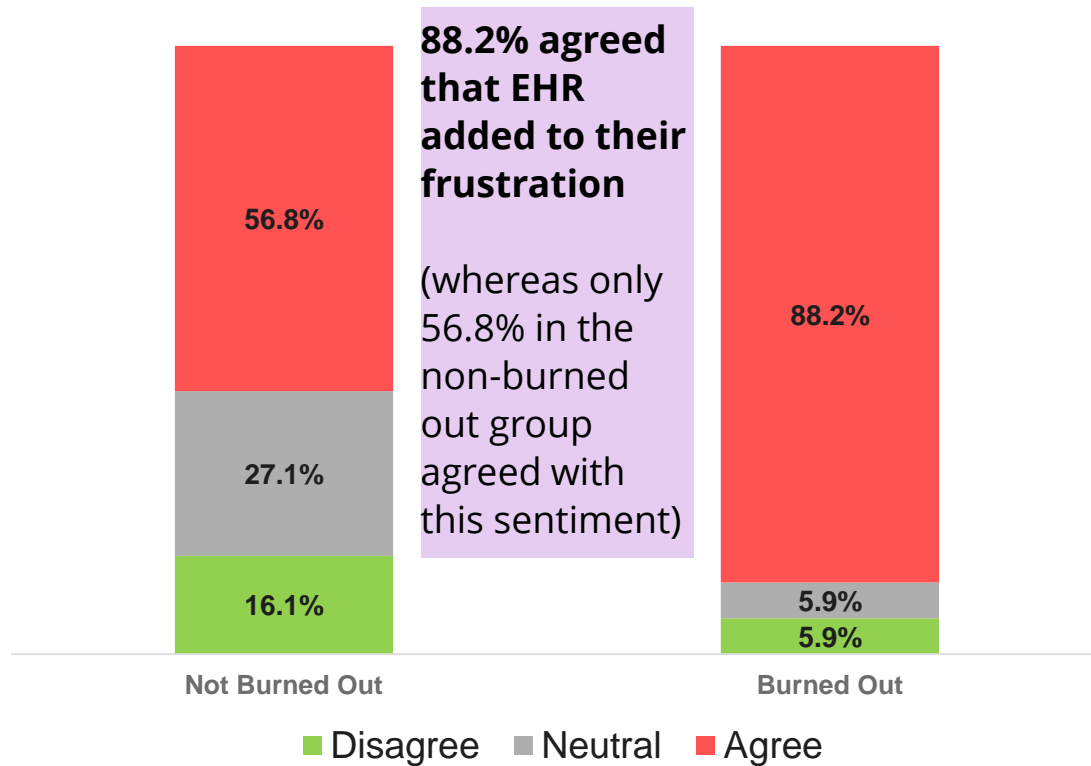
Of the **24.5%** of physicians and learners who were burned out, **74.5%** identified EHR as contributing to their symptoms of burnout



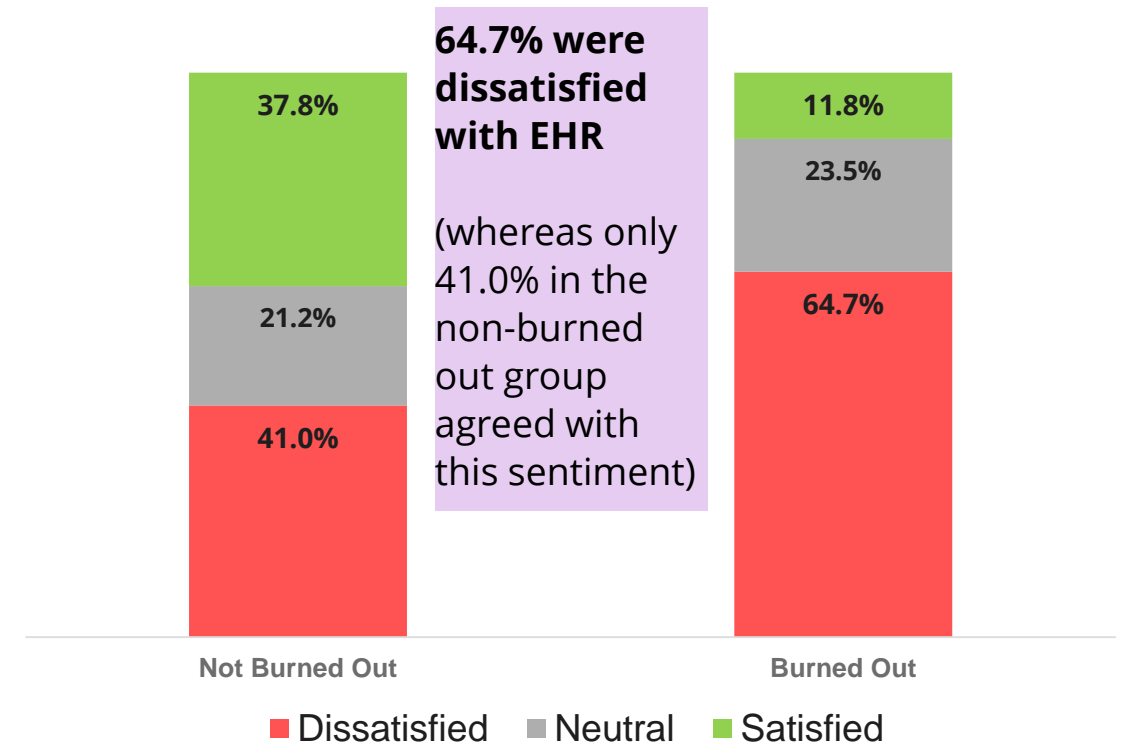
Benchmark Survey: Significant contributors to physician burnout - Frustration and Satisfaction with EHR



Of those physicians and learners who were burned out



EHR adds to my daily frustration (p<0.001)



How would you rate your satisfaction with EHR? (p<0.001)

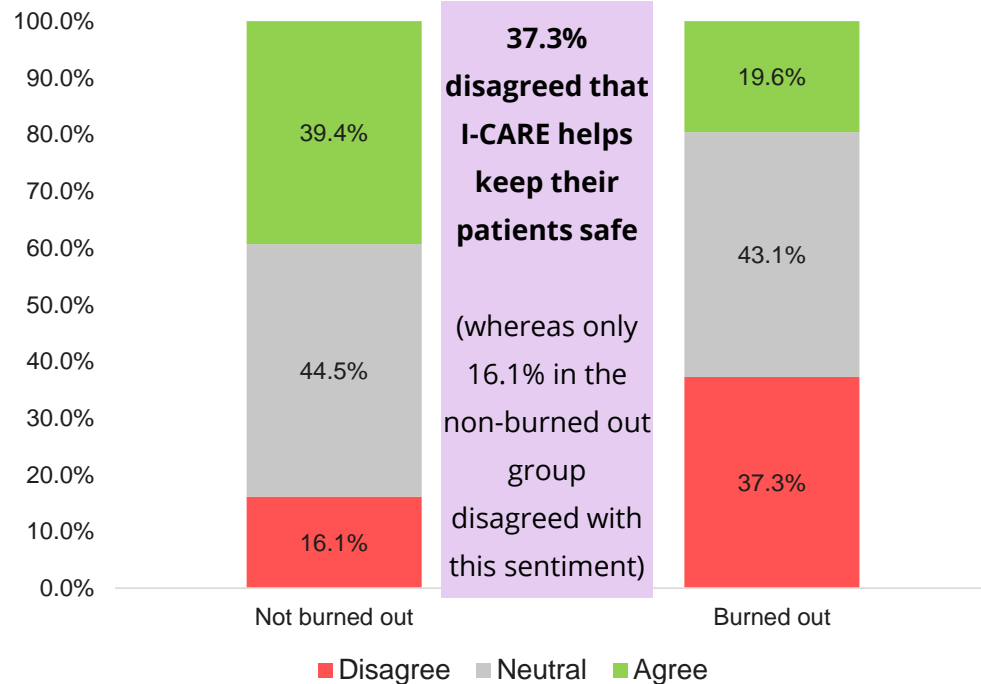


Benchmark Survey: Other significant differences between participants who were burned out vs. not burned out

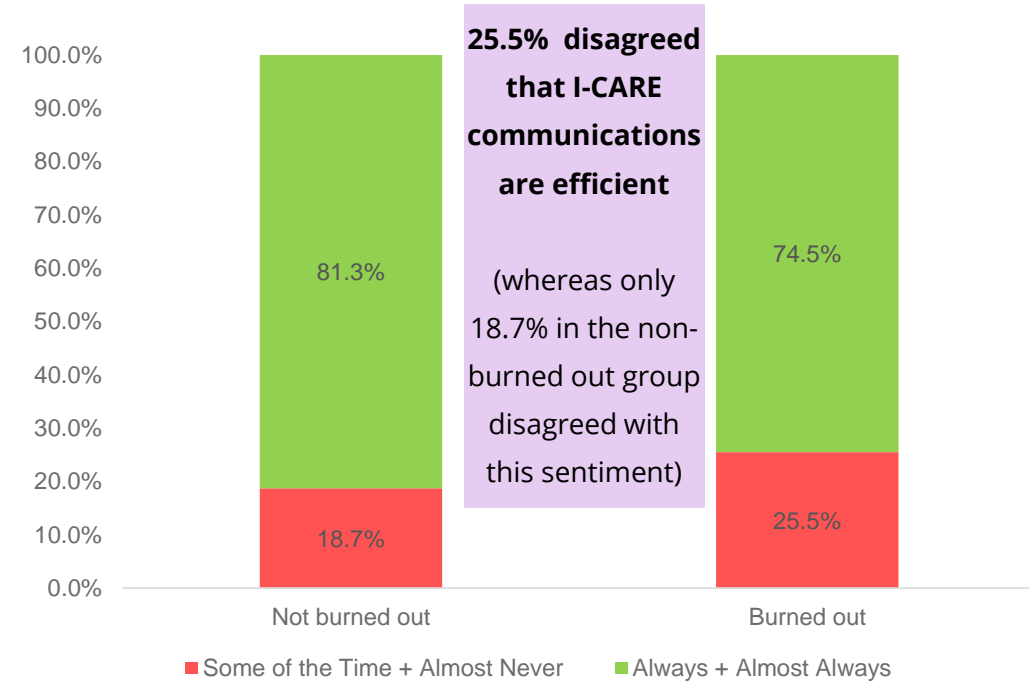
Perceptions on EHR usefulness

Communication around EHR

Of those physicians and learners who were burned out



**EHR helps keep my patients safe
(p<0.002)**



**Do you feel communication regarding
EHR changes are efficient?
(p<0.047)**

Benchmark Survey: Physicians' Experiences with EHR



Themes amongst those participants with

Low EHR Satisfaction

High EHR Satisfaction

Usability:

"not intuitive",
"not user friendly",
"too many redundant tasks",
"too many clicks"

Technical issues:

"system crashes",
"have to log out
and back in often"

Additional training:

"don't know any
shortcuts", "forwarding
notes is a great
function and surprisingly
underused"

Need for customization:

"I use my own templates,
not EHR templates",
"personal short cuts"

Workarounds:

"type long consult
notes in word
then copy into EHR",
"enter appointments
in my calendar"

Information retrieval:

"difficult to find
documents",
"info you need is buried"

System speed:

"unresponsive", "slow",
"clunky",
"takes away from time
spent with patients"

Fixes:

"prompts for diagnosis
hinders workflow",
"dialogue boxes that
cannot be dismissed"

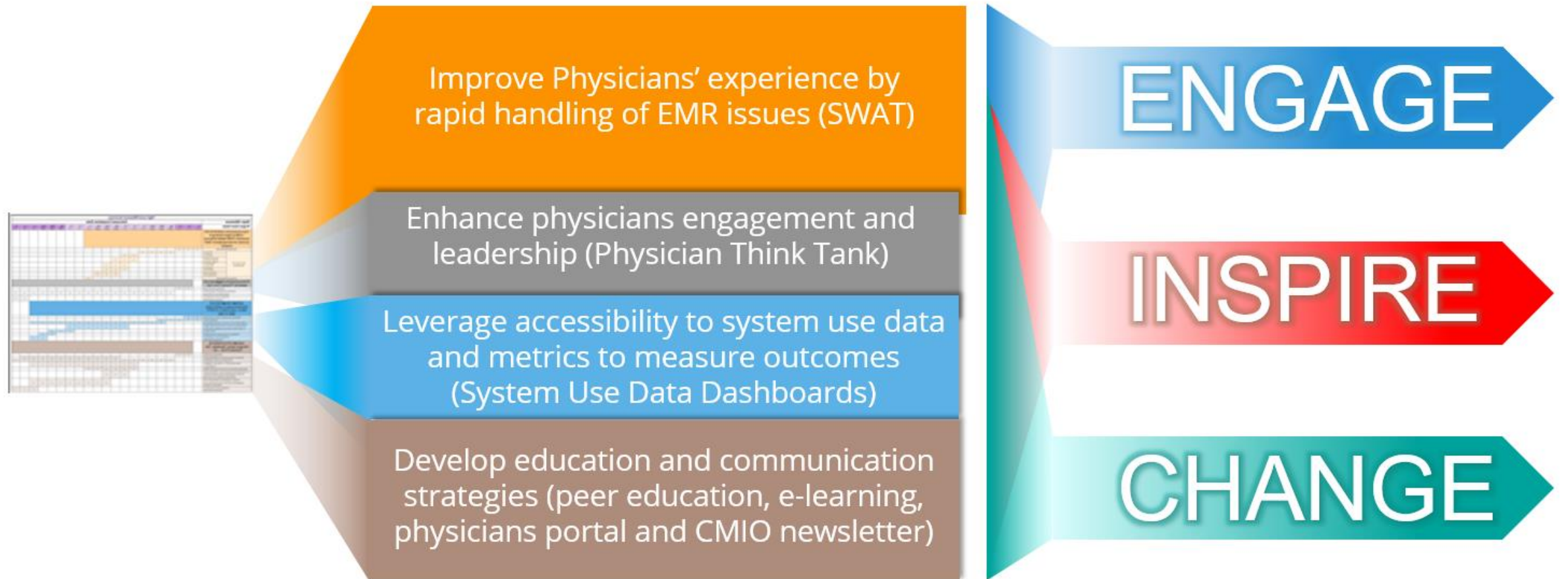
New users:

"still getting used to it",
"probably use not all the
functionalities"

Speech recognition:

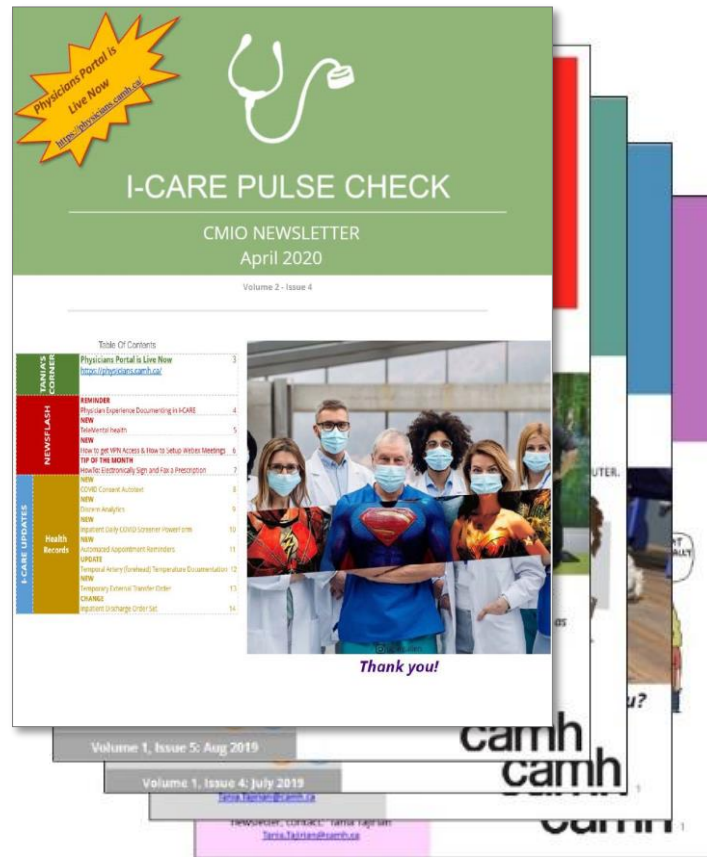
"use speech recognition
tool exclusively
instead of typing
progress notes"

Multi-Pronged Physician Engagement Strategy



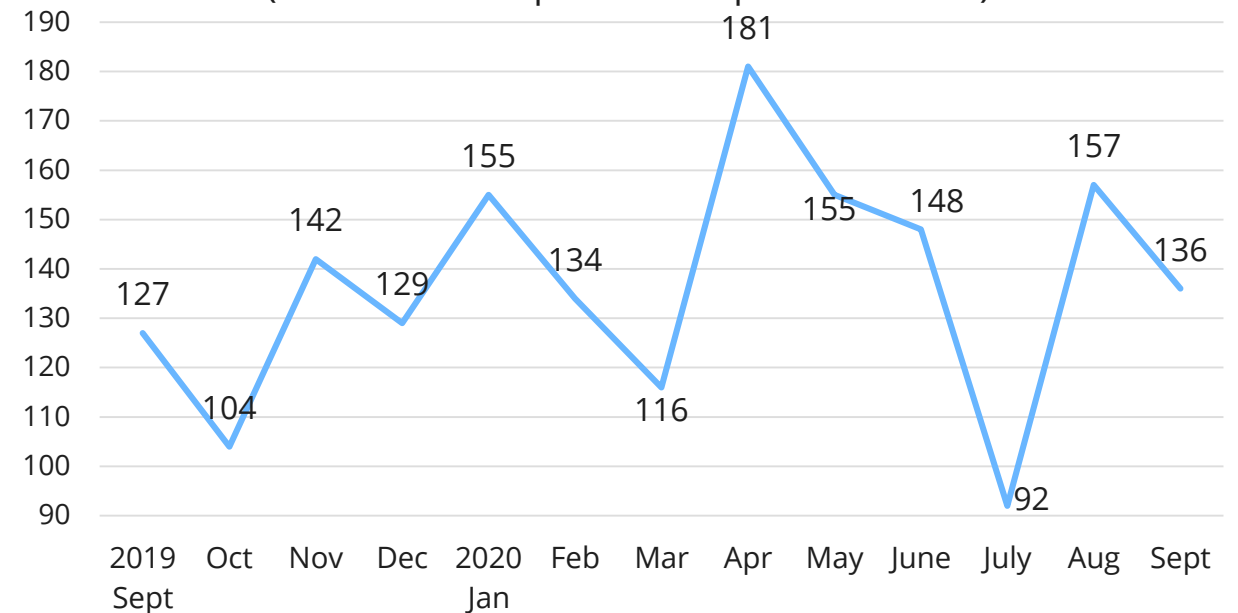
Develop education and communication strategies (peer education, e-learning, physicians portal and CMIO newsletter)

CMIO Monthly Newsletter (September 2019 onwards)



Content:
 -Initiatives updates
 -Interviews
 -EHR Tips & Tricks
 -EHR changes in 3 categories
 (Pharmacy, labs, health records)

Open Rates
 (Out of 500 recipients in September 2020)

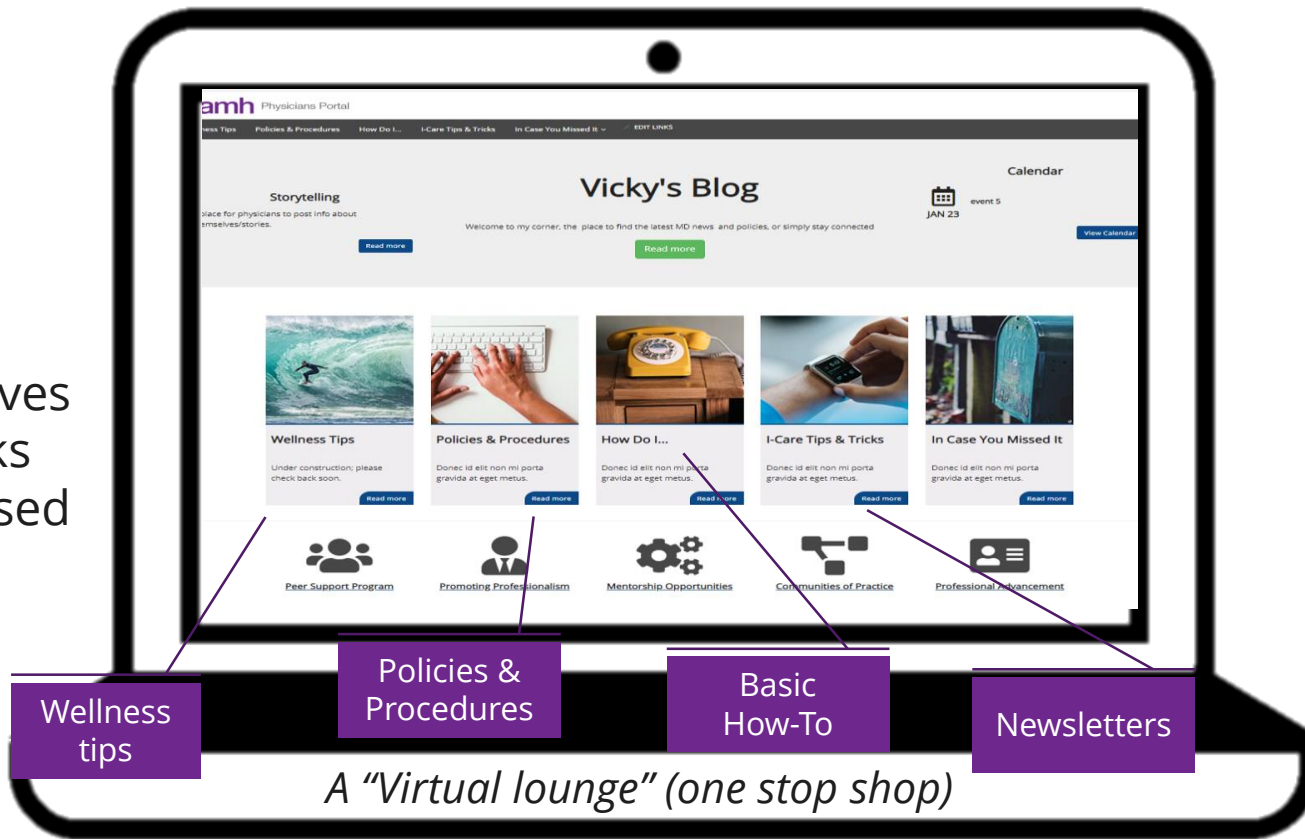


Performance metrics: Delivery rates, Open rates, Links clicked.


Develop education and communication strategies (peer education, e-learning, physicians portal and CMIO newsletter)

Physician Portal (March 2020)

- Content:
- Stories
 - Wellness initiatives
 - EHR Tips & Tricks
 - In case you missed



A "Virtual lounge" (one stop shop)



Leverage accessibility to system use data and metrics to measure outcomes (System Use Data Dashboards)

Physician Efficiency Profiles

Allowing physicians to view their own system use metrics:

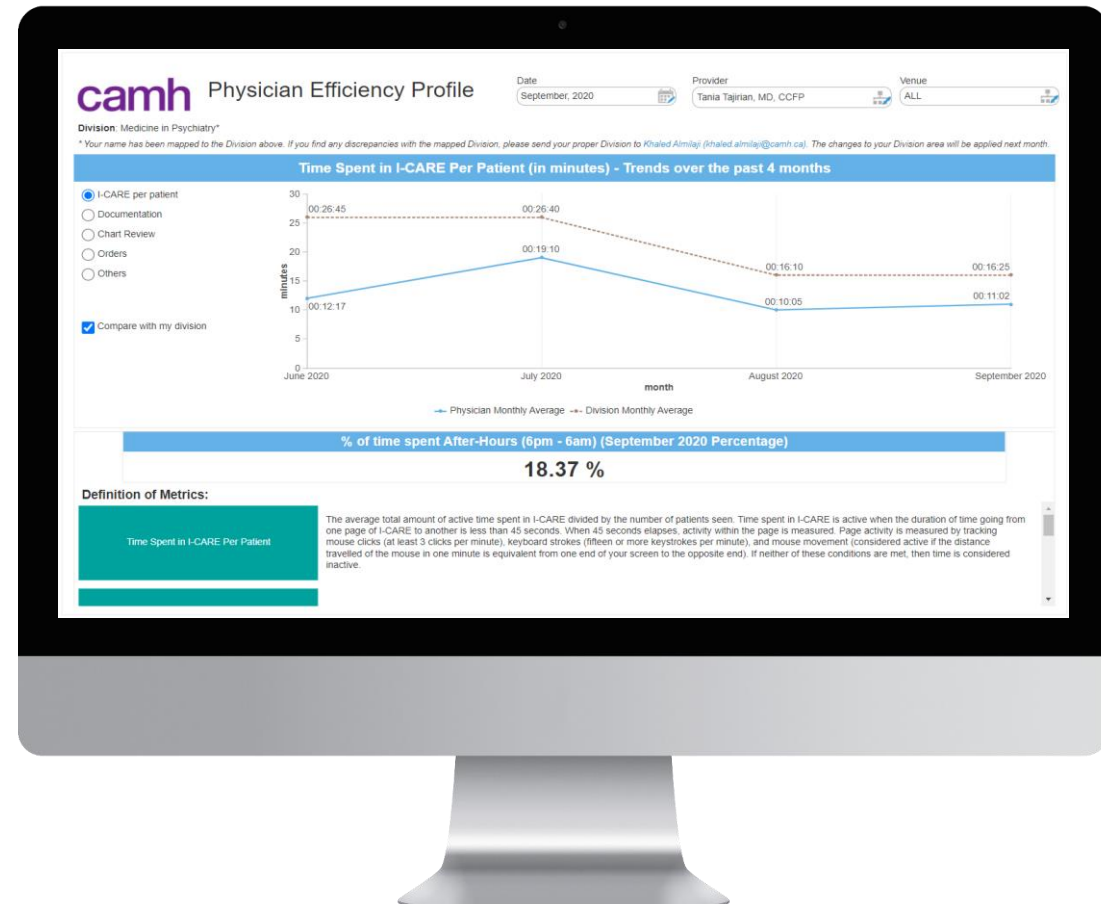


Time in EHR

- Total active time
- Time spent **per patient** including:
 - documentation
 - chart review
 - orders time
 - orders



Time Spent in EHR After Hours





Enhance physicians engagement and leadership (Physician Think Tank)

Physician Think Tank (Cross divisional lens)



Membership

CMIO (Chair)

Physicians 'Divisional Liaisons'

Clinical Informatics Nurses

Clinical Applications Team

Health Information Management

Pharmacy Informatics

Laboratory and Diagnostics

Professional Practice Office

Enterprise Project Management Office



Goals



- Discuss new topics/changes
- Lead the improvement of EHR

Benefits



- Part of the Change Control Governance
- Representation from all divisions and stakeholders

Improve Physicians' experience by rapid handling of EHR issues (SWAT)

SWAT



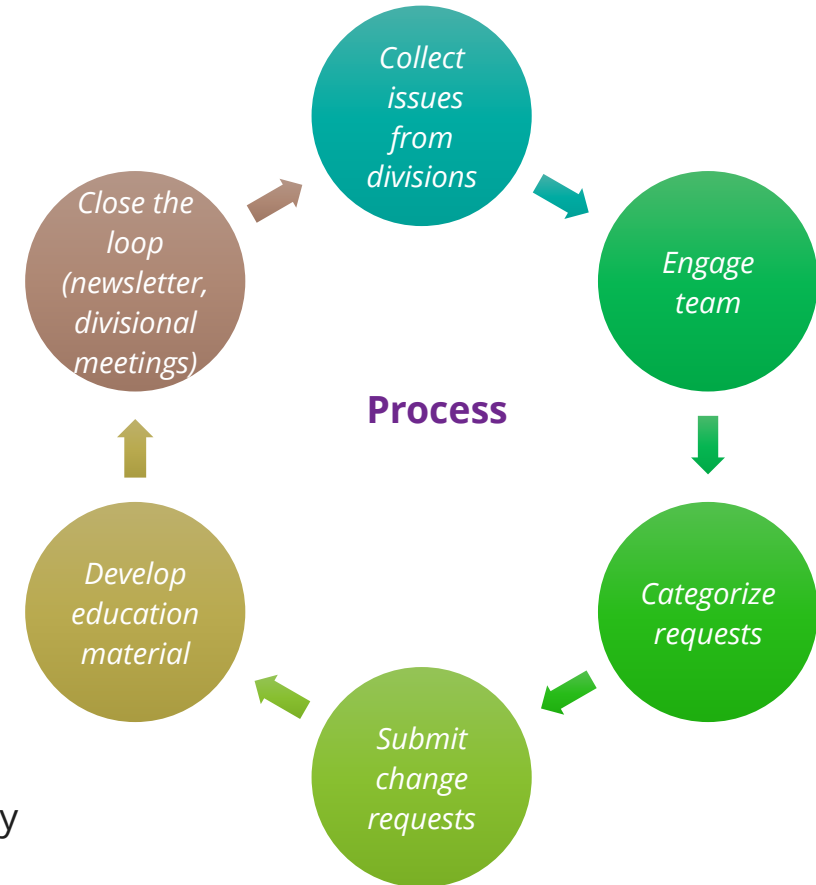
Goals

- Apply rapid changes and fix “the pebbles in your shoes”
- Fill the gaps in the physicians' EHR knowledge

Benefits



- Multi disciplinary team
- Follows agile methodology



SWAT: Request Categorization



Blue Requests

Needs more training



Green Requests

Fixes will be delivered within 6 weeks of submission to change control governance



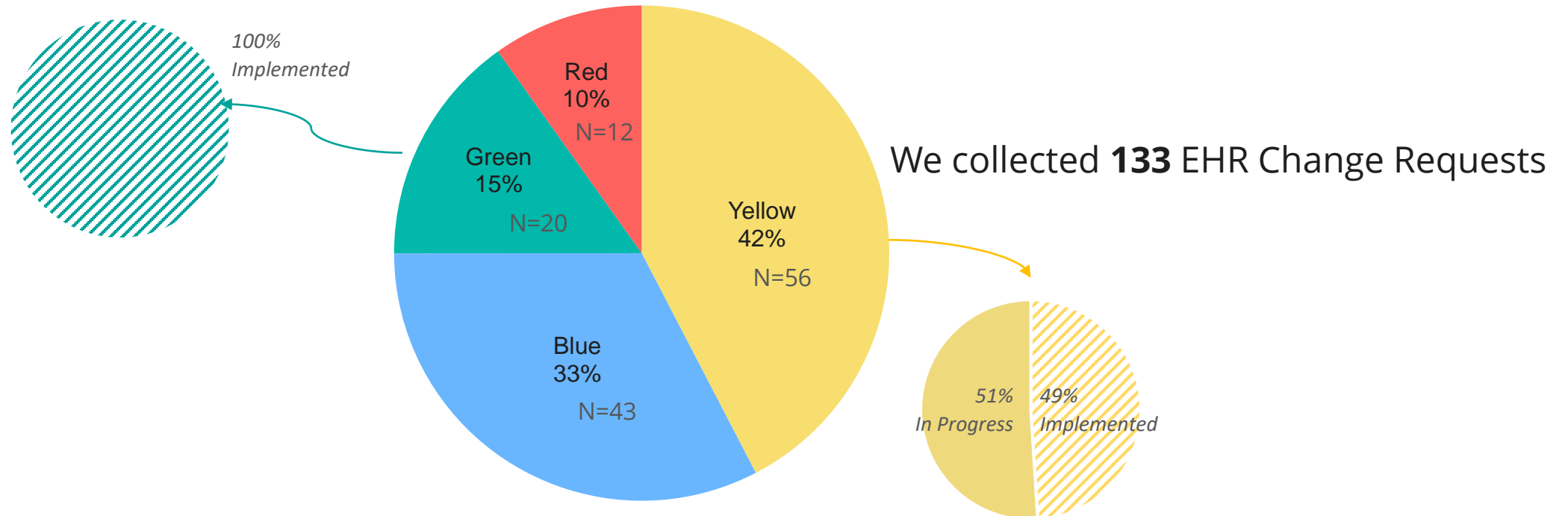
Yellow Requests

Request is applicable but needs time due to needed system upgrade or other requirement (On-Hold)



Red Requests

Change is not in scope, or not aligned with policies and regulations



SWAT: Divisional Dashboards

- Shareable interactive dashboard to monitor the status of all requests including:
 - Feedback for each request
 - Visualization by: Division, Status, Category
- Allows for real-time updates





SWAT: Lessons Learned from SWAT I

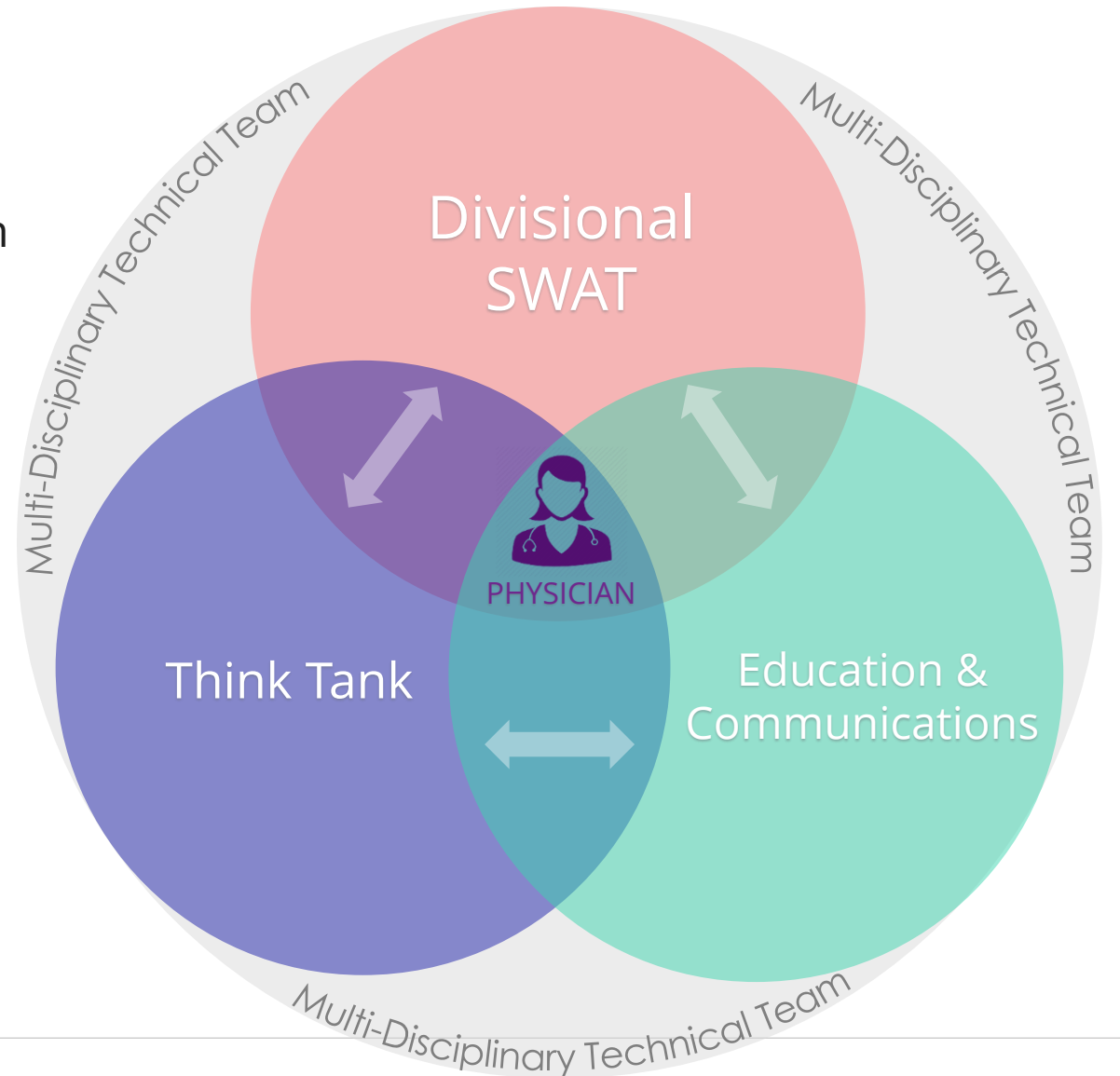
- ✓ Agile methodology
- ✓ Attending physician divisional meetings
- ✓ Engaging divisional leadership
- ✓ Multi disciplinary representation in the SWAT team
- ✓ Development of SWAT II (education focus)
- ✓ SWAT III (closing the loop) to maintain accountability

SWAT II:

- **EHR education sessions resumed in September 2020**

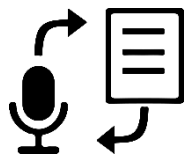
Multi-Pronged Physician Engagement Strategy: Lessons Learned

- Physicians are main stakeholders/decision makers in all initiatives of the strategy
- Multi-disciplinary team to be engaged in direct discussions with MDs
- Initiatives are connected and provide essential input to each other



Next Steps

- Continue to increase *satisfaction* through
Reducing inefficiencies and **improving education**



Speech
recognition
technology



Peer education, videos,
e-learning, super users

- **Measure impact** & continuously improve (PEPs)
- **Return to what EHR was intended to do:**
 - *Provide fast access to patient information*
 - *Support clinical decision making*
 - *Support the patient journey through transitions of care*
 - *Improve patient safety & quality of care*

Data rich
=
Data driven

Questions?



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