QUALITY IMPROVEMENT TOOLS FOR EPIC USERS

Todd J. Stanhope, MD

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Disclosures

- I will be discussing one commercially-available electronic medical record (EMR) product (Epic). Discussion of this product does not represent an endorsement.

- I have a **Physician Builder certificate** through Epic and use this to augment my quality improvement work. I have no present or past financial or contractual connection to this company.

- If able, please open Epic on your computers.
  - Follow along and share what you find!

- I do not claim expertise. Comments/suggestions welcome!

Privacy

- Kindly ask for no recording or screening capture during this presentation.

- Slides will be shared at the conclusion.

'Typical' bundle implementation process

Multidisciplinary QI team creates amazing new workflow

Lit review, pathway creation

Stakeholders engaged (providers, nursing, pharmacies)

Education/rollout plan created

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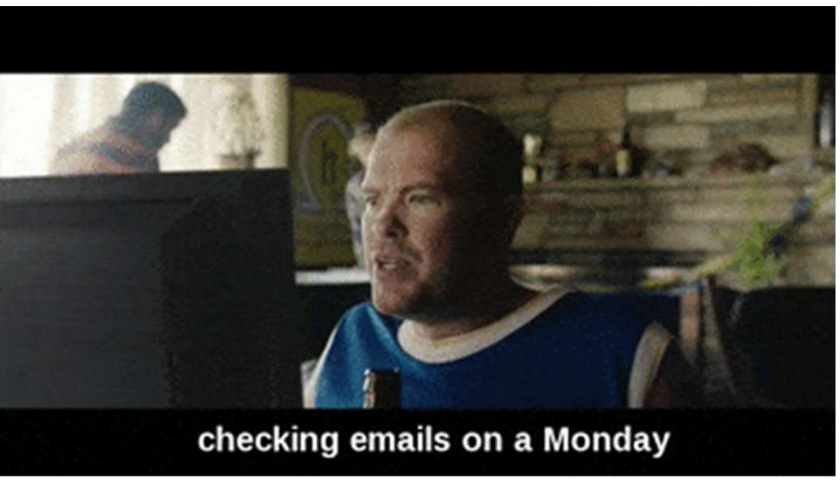
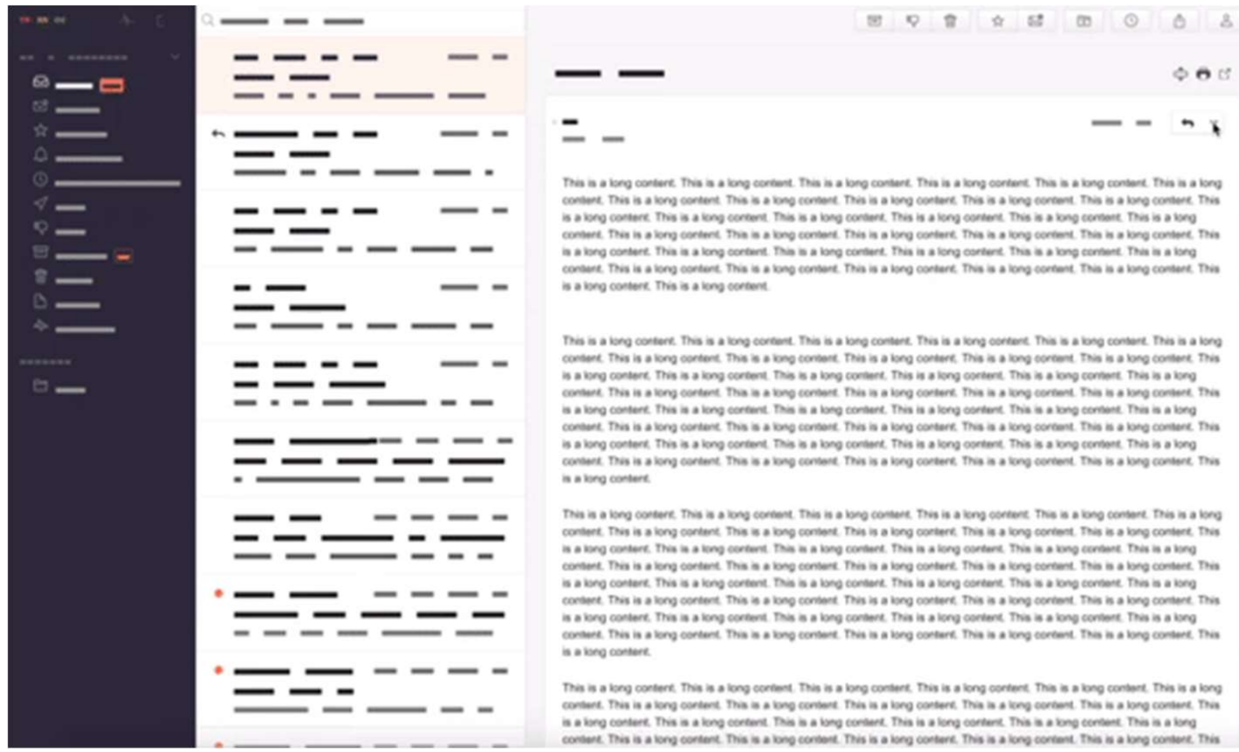
Information Technology

What comes out isn't exactly what you expected





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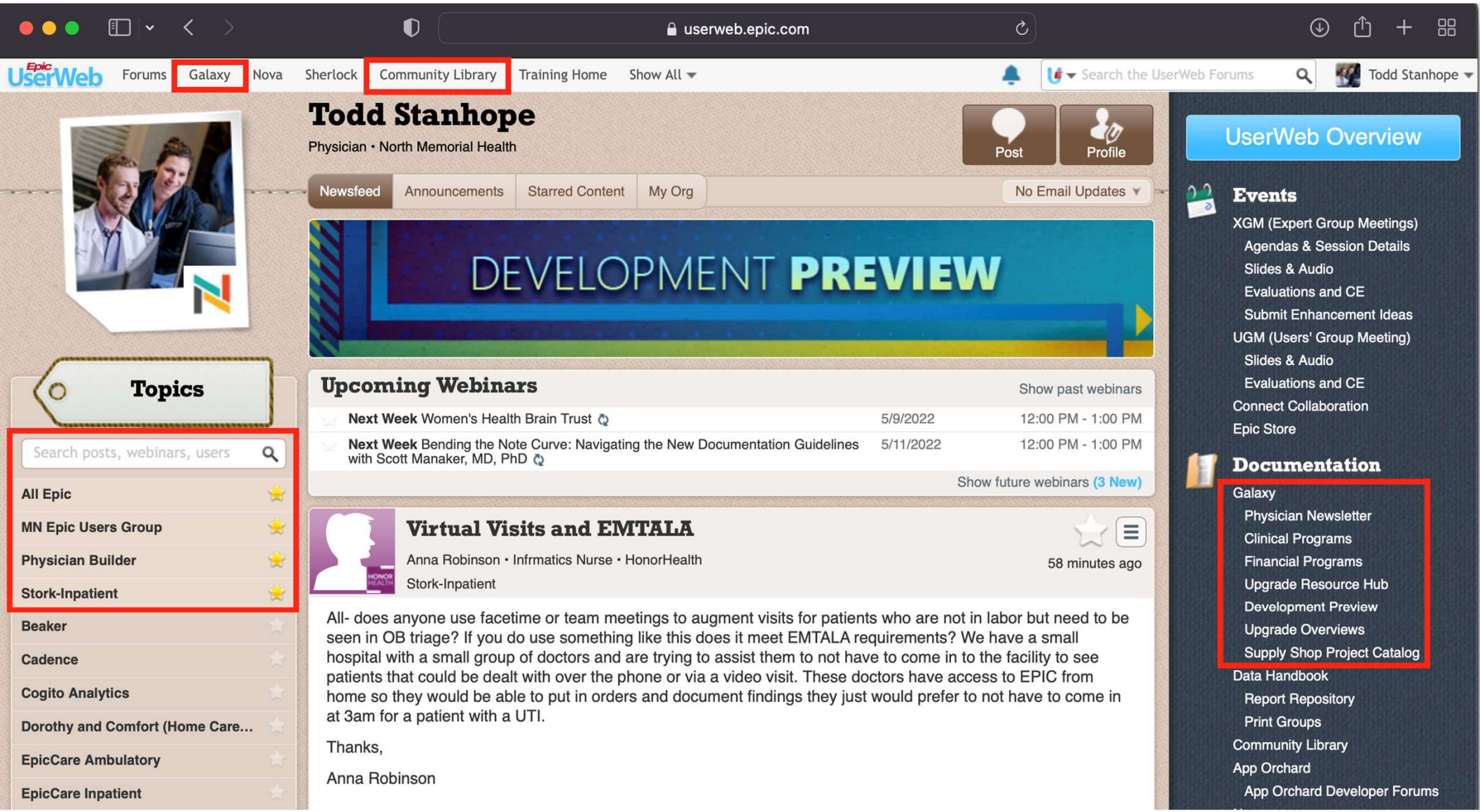
Key points

- SlicerDicer is a great tool for data
- Help to know available tools and/or “what’s possible”
- Use of EHR tools should be like any other QI process.
  - Continue to use PDSA cycles
- EHR is one of many QI/PI tools, albeit an important one.
  - Don't shortcut the other stuff.
- Steal (borrow) shamelessly, share seamlessly



Userweb.epic.com

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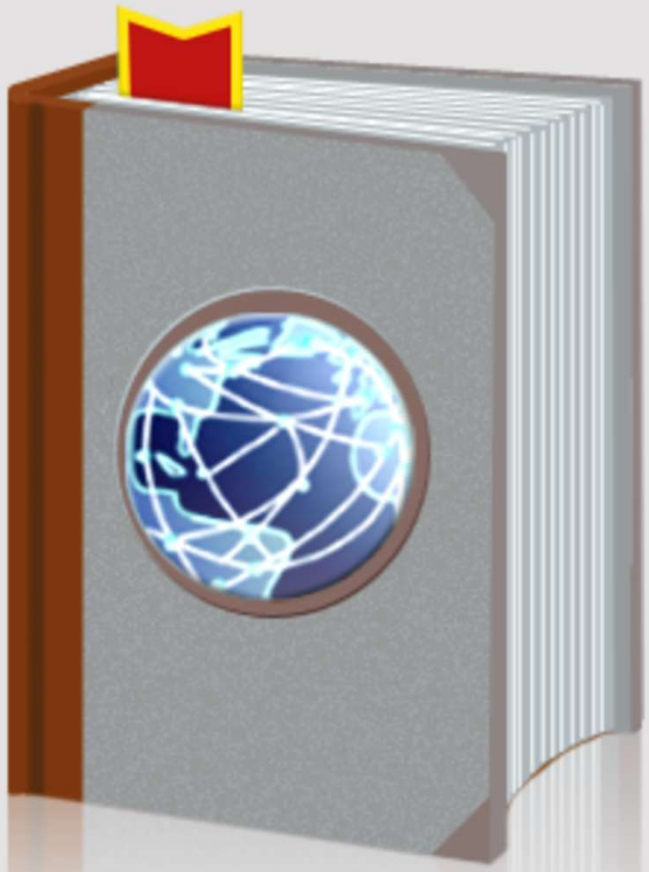
Community Library

The Community Library is Epic's tool for sharing custom user-created content. SmartTexts, SmartSets, Flowsheets, Hyperspace Reports, SmartForms, BPAs, Questionnaires, and other miscellaneous content are available to view. Currently, 436 organizations are sharing their content. Select a content type above and enter a search query above to find what you need.

Learn more about using the Community Library effectively.

Enhancement Ideas

What improvements would you most like to see to the Community Library? We're always making updates and ideas for anything from small interface improvements to completely new features are always appreciated. Use the feedback link below to contact the Community Library team.



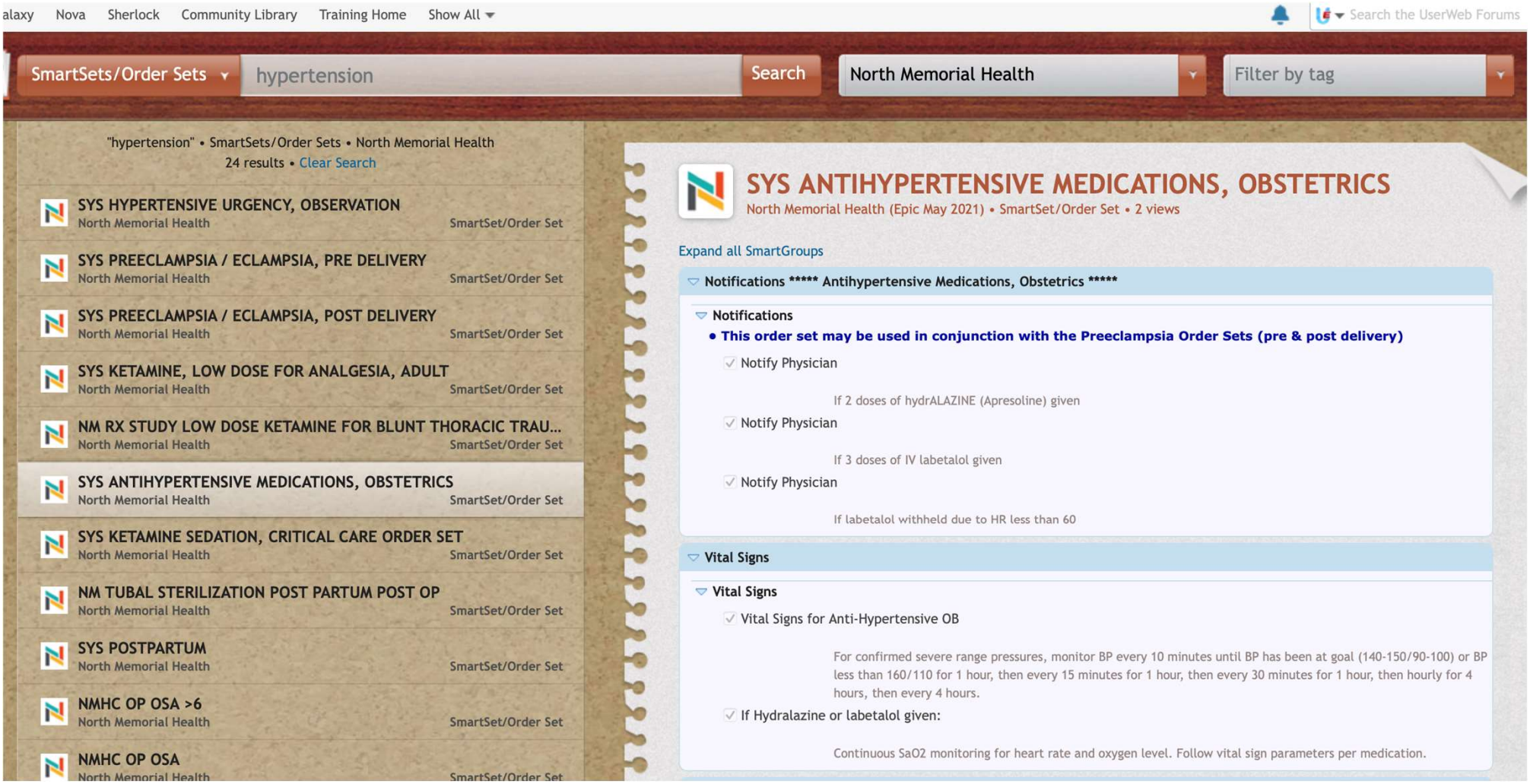
Most recent updates

DaVita Corporation (04/25/2022)
Rush University Medical Center (04/21/2022)
Mohawk Valley Health System (04/18/2022)
Mercy Health Services (MD) (04/15/2022)
Memorial Health Services (MemorialCare) (04/14/2022)

Your organization's updates

North Memorial Health (12/15/2021)

Community Library



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Galaxy

Saving Mommies
Improving Maternal Health and Safety

Improving Maternal Health with Epic

Safeguarding maternal health means reducing risks throughout pregnancy, during labor and delivery, and during the postpartum and interpartum periods. How you plan your strategy for implementing the available tools depends on your organization and your patient population.

At the heart of our maternal safety initiative are our Maternal Safety Bundles, which each address a specific area:


Hemorrhage


Reduce C-Sections


Postpartum Care


Mental Health


Cardiovascular Disease


Preeclampsia and Hypertension


Venous Thromboembolism


Sepsis and Infection


Tobacco and Substance Use


Reduce Racial, Ethnic, and Other Disparities

Epic also provides General Maternal Health and Safety tools provide a foundation for using Epic to improve care with support for communication, care coordination, and patient empowerment. You can use our reporting tools to Assess Needs and Track Quality Improvement to better understand your specific patient population and determine a strategy for areas you want to address.

Check out the Community Resources for stories from Epic Community Members

galaxy.epic.com

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Preeclampsia and Hypertension

Clinicians can monitor higher-risk patients who aren't in the hospital, track symptoms, and respond quickly when they are alerted that a patient might have preeclampsia.

Use the Preeclampsia and Hypertension Bundle Sherlock checklist to implement this entire bundle in one project!

Reporting

Track your progress using Foundation System Reporting Workbench report 9960-OB My Patients with Hypertension/Preeclampsia—Past 2 Months.

Starting in May 2020, a suite of hypertension metrics tracks patients with elevated blood pressures and clinicians' responses, including rates of re-checking a patient's blood pressure after an initial elevated reading, and how long it takes to deliver medication when indicated. These metrics appear automatically on dashboards 59001-OB Provider Metrics and 59002-OB Nurse Manager Metrics.

Monitor Patients' Blood Pressure from Home

Build It Today

Send patients diagnosed with hypertension home with a blood pressure cuff so they can share their blood pressure readings with providers without taking a trip to the clinic.[1] Telemonitoring of hypertension in pregnant patients has been shown to increase patient engagement and satisfaction with their care and reduce anxiety, especially when combined with digital education and symptom checklist tools.[2]

A MyChart Care Companion care plan for gestational hypertension and preeclampsia risk is available in the Foundation System. Refer to release note 732223-Home Monitoring for Gestational Diabetes, Hypertension, and Preeclampsia Risk for more information.

Sources

(1) Kalafat E, Leslie K, Bhide A, Thilaganathan B, Khalil A. Pregnancy outcomes following home blood pressure monitoring in gestational hypertension. Pregnancy Hypertension. 2019;18:14-20.

(2) Rivera-Romero O, Olmo A, Muñoz R, Stiefel P, Miranda ML, Beltrán LM. Mobile Health Solutions for Hypertensive Disorders in Pregnancy: Scoping Literature Review. JMIR Mhealth Uhealth. 2018;6(5):e130. Published 2018 May 30.

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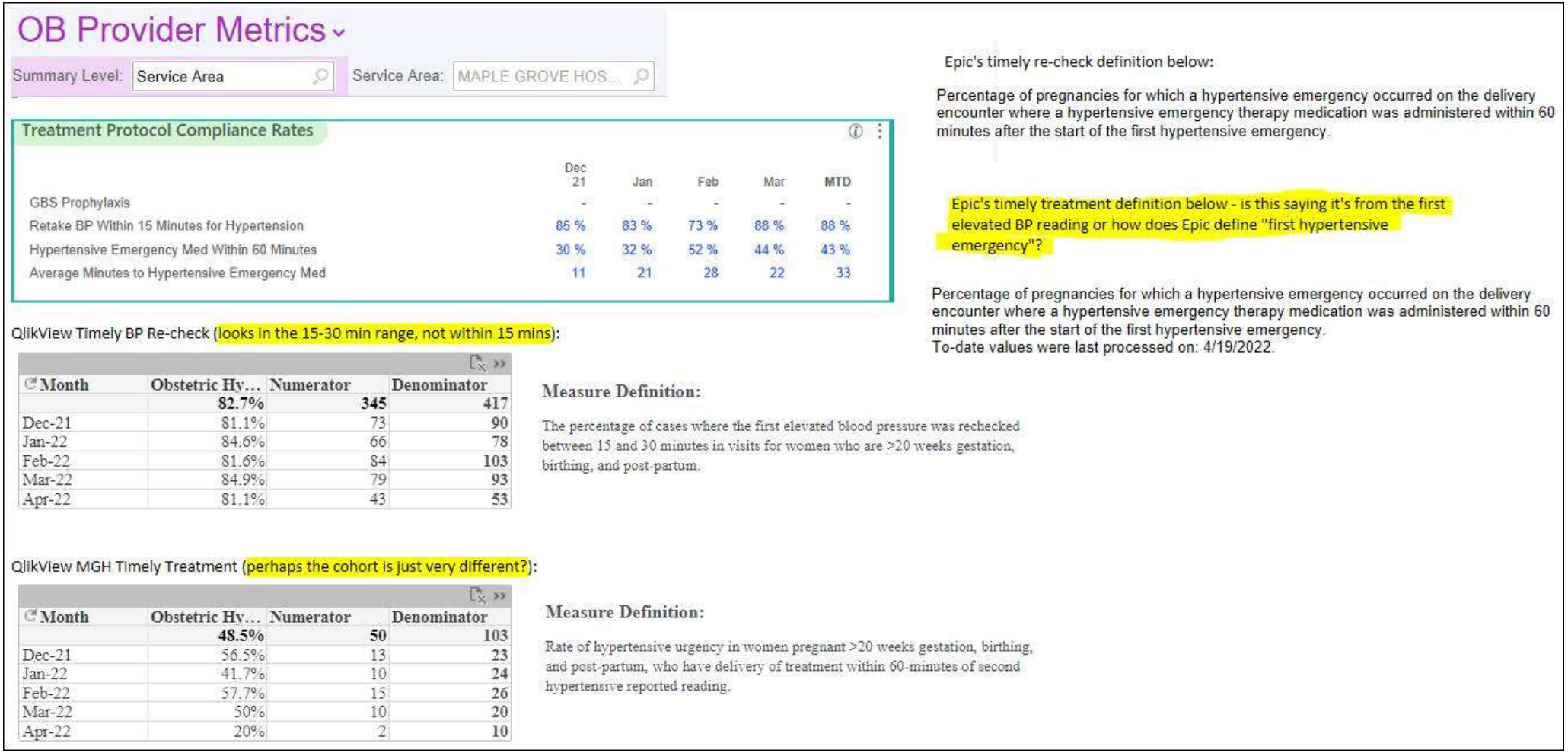
HTN reporting:
EMR Dashboard comparison with NMH build



OB Provider Metrics

Summary Level: Service Area Service Area: MAPLE GROVE HOS...

Treatment Protocol Compliance Rates

	Dec 21	Jan	Feb	Mar	MTD
GBS Prophylaxis	-	-	-	-	-
Retake BP Within 15 Minutes for Hypertension	85 %	83 %	73 %	88 %	88 %
Hypertensive Emergency Med Within 60 Minutes	30 %	32 %	52 %	44 %	43 %
Average Minutes to Hypertensive Emergency Med	11	21	28	22	33

Epic's timely re-check definition below:

Percentage of pregnancies for which a hypertensive emergency occurred on the delivery encounter where a hypertensive emergency therapy medication was administered within 60 minutes after the start of the first hypertensive emergency.

Epic's timely treatment definition below - is this saying it's from the first elevated BP reading or how does Epic define "first hypertensive emergency"?

Percentage of pregnancies for which a hypertensive emergency occurred on the delivery encounter where a hypertensive emergency therapy medication was administered within 60 minutes after the start of the first hypertensive emergency.
To-date values were last processed on: 4/19/2022.

QlikView Timely BP Re-check (looks in the 15-30 min range, not within 15 mins):

Month	Obstetric Hy...	Numerator	Denominator
	82.7%	**345**	**417**
Dec-21	81.1%	73	90
Jan-22	84.6%	66	78
Feb-22	81.6%	84	103
Mar-22	84.9%	79	93
Apr-22	81.1%	43	53

Measure Definition:

The percentage of cases where the first elevated blood pressure was rechecked between 15 and 30 minutes in visits for women who are >20 weeks gestation, birthing, and post-partum.

QlikView MGH Timely Treatment (perhaps the cohort is just very different?):

Month	Obstetric Hy...	Numerator	Denominator
	48.5%	**50**	**103**
Dec-21	56.5%	13	23
Jan-22	41.7%	10	24
Feb-22	57.7%	15	26
Mar-22	50%	10	20
Apr-22	20%	2	10

Measure Definition:

Rate of hypertensive urgency in women pregnant >20 weeks gestation, birthing, and post-partum, who have delivery of treatment within 60-minutes of second hypertensive reported reading.

Credit: Katelyn Kruse and Alex Drake

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Discussion

- What are others' experiences with SlicerDicer and/or available tools in Epic?

- What does IT partnership look like in your facilities?

THANK YOU!

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