

High Utilizer Smart Alert

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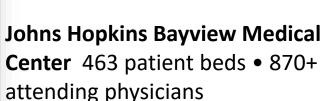
Johns Hopkins Health System



Johns Hopkins Medicine



The Johns Hopkins Hospital 1,162 patient beds • 2,590+ full-time attending physicians



Howard County General Hospital 243 patient beds • 420+ active medical staff

Suburban Hospital 228 patient beds • 330+ active medical staff

Johns Hopkins Community
Physicians 503 active medical staff



Agenda

- Describe Use Case
- Review Workflows
- Discuss Impact
- Share Lessons Learned



Improve early identification of vulnerable populations



Lack of statewide data to identify high utilizers at point of care



Improve identification of people with complex health and social needs across care settings; reduce avoidable re-hospitalizations

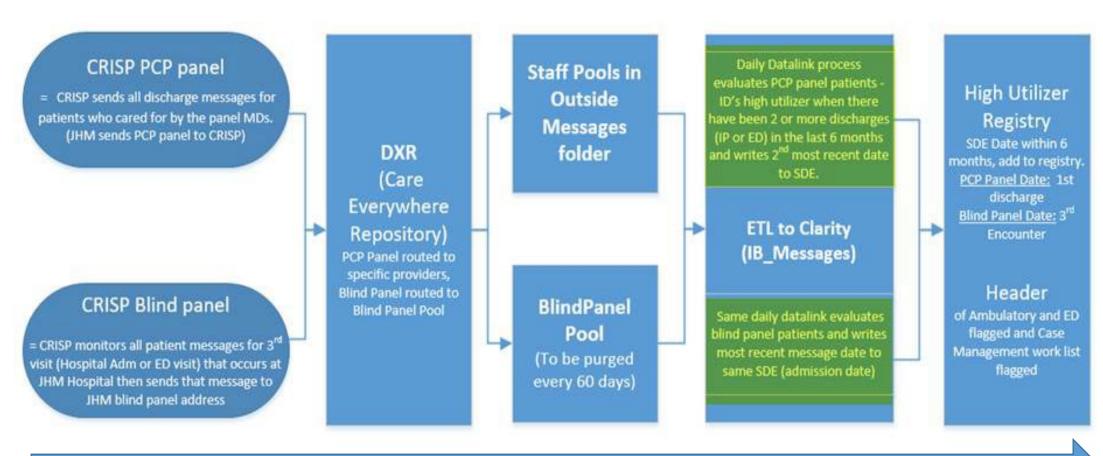


Partner with CRISP to explore Blind Panel/ Smart Alert capabilities



Technical Workflow

9/2018



10-11/2018 1/2019

JUHNS HOPKINS

Clinical Workflow

Emergency Department

Admission

Ambulatory

Transitional Care Programs

 Add "High Utilization" flag to JHM ED track boards

Triggers proactive CM assessment/care plans

- Add "High Utilization" flag to Epic EHR header
- Added to case management Epic daily census reporting
- Triggers proactive CM assessment/care plans

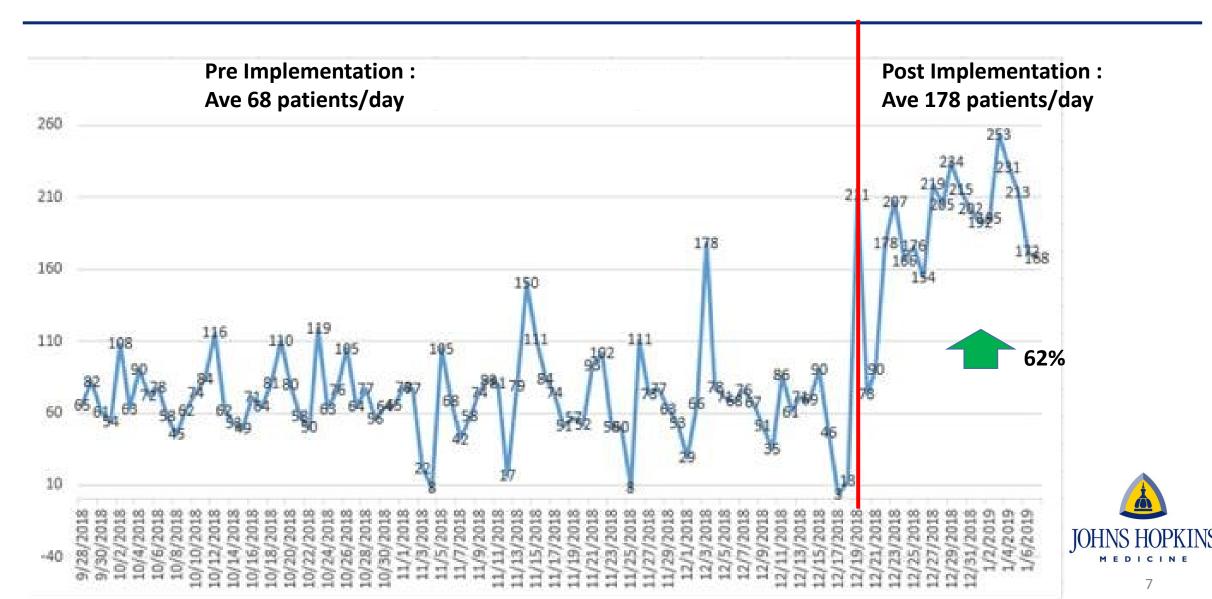
- Add "High Utilization" flag to Epic EHR header
- "High Utilizer" flag added to CRISP Encounter Notification System (ENS) Messages in Epic EHR
- "High Utilizer"
 information displayed
 in Ambulatory
 Utilization Tableau
 Dashboards

Add "High Utilizer" flag to program dashboards

• Triggers case finding for enrollment into care management programs



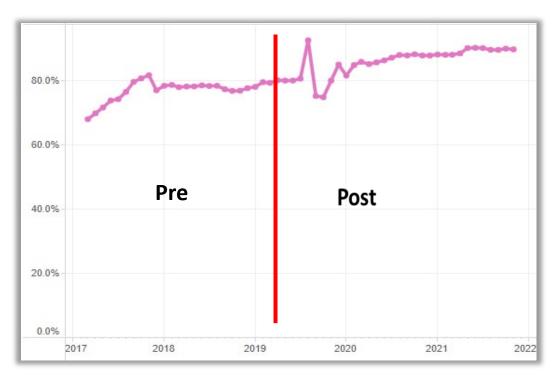
Identifying populations using hospital services at high frequencies

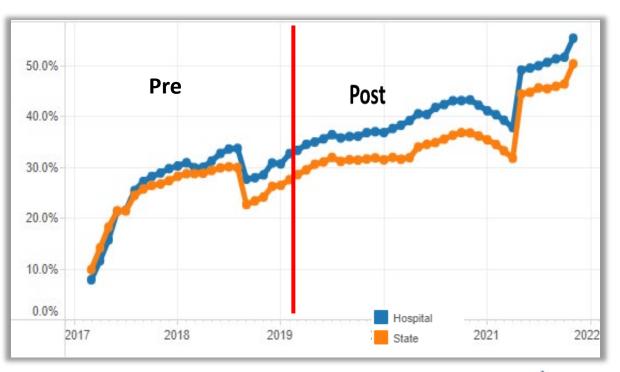


Blind Panel impact: Acute Care

JHH High Needs: Percentage in Care Coordination



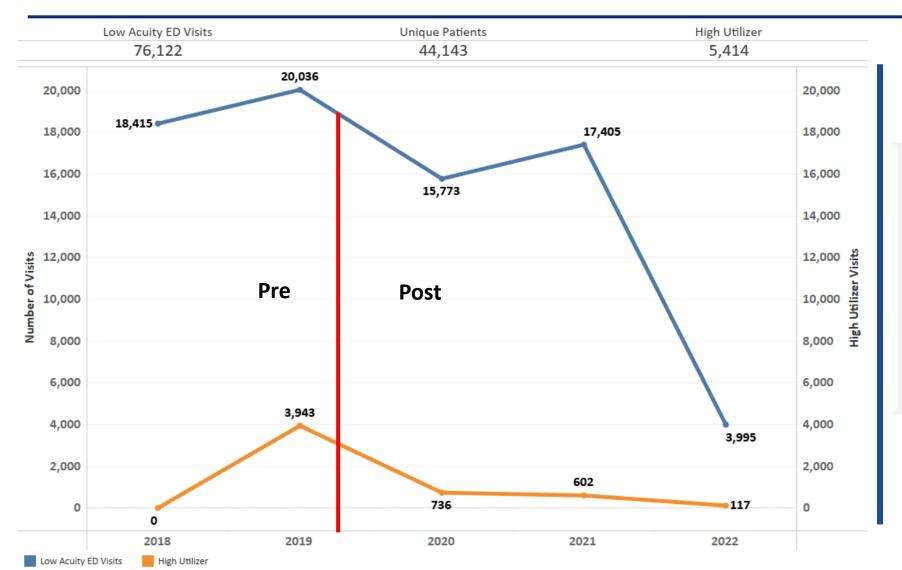




10% increase in Care Coordination; 20% increase in Care Plans and Care Alerts



Reducing ED high utilizer low acuity ED visits



- 84% relative reduction in JHH high utilizer ED low acuity visits for 2019 2021; 3,943-602/yr.
- 85% relative reduction in high utilizer low acuity ED visits at JHH YTD; 20%- 3%.



Impact: Ambulatory

- EHR High Utilizer flag facilitates timely scheduling
- CRISP ENS High Utilizer flag facilitates priority of transitional care management calls and follow up appointments
- Clinical Decision Support alerts providers of high utilizers and prompts Care Management referral
- Data used for routine ED High Utilizer mail outreach





Lessons Learned

- Engage an interdisciplinary project team
- Secure an EHR project champion
- Select common data definitions across care settings
- Create a robust communication and onboarding plan
- Measure impact pre/post implementation



A special thank you to our collaborators



- Anja Fries
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- Suzanna Munoz
- Deborah Shoup
- Amy O'Neil

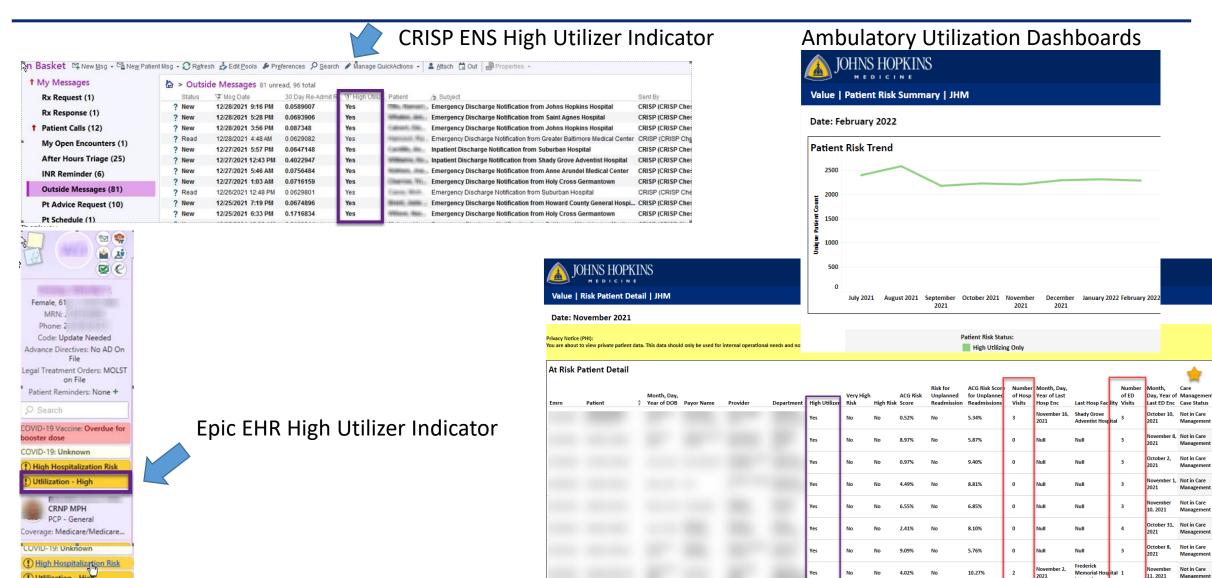
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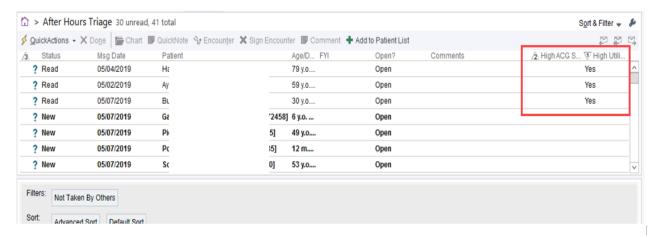
Appendix



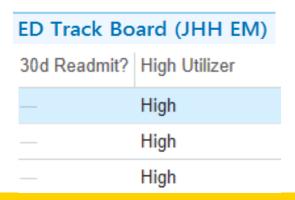
Appendix

CRISP High Utilizer Indicator: patient advice/triage

Two new columns have been created to indicate if a patient has a high risk of hospitalization and if the patient is a high user. The High ACG Score and High Utilizer Columns will be found in the in the Patient Calls, Pt Advice Request and After Hours Triage folders.



CRISP High Utilizer Indicator: JHM Emergency Departments



CRISP High Utilizer Indicator: provider scheduling

New Utilization Level Column Added to Schedule

[All Ambulatory Locations – All] A column for Utilization Level has been added to the multi-provider schedule. Previously this information was only available from the patient header, which meant that the provider had to be in the chart to see it. Now providers can add this column to their schedule and see those patients who are identified as high utilizers. This change is already in Production.

