

Sepsis Bundle Completion & Reduction in Sepsis Mortality

Background

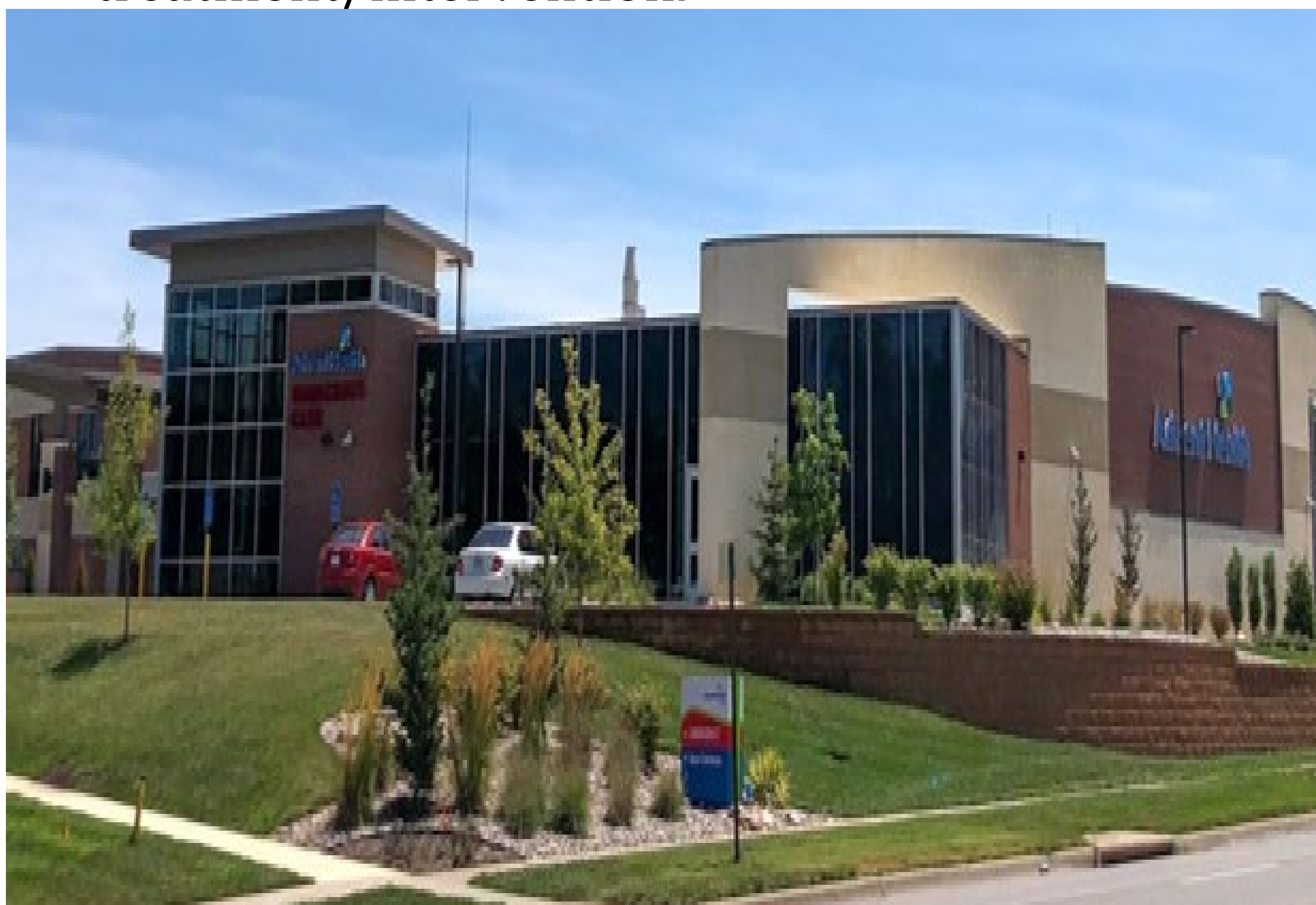
AdventHealth (AH) Ottawa has worked on improving completion of the CMS Sepsis bundle over time, however we were trending down, so in 2024 we committed to a hospital-wide Code Sepsis activation.

- The team responds to support completing all elements of the 3-hour bundle
- Goals: 1) Heighten staff awareness to Sepsis as a time sensitive diagnosis 2) Increase physician utilization of Sepsis evidence-based order set, and 3) Increase Sepsis 3-hour bundle completion to a rate of 80% by June 2024.

Changes Tested

Initiated Code Sepsis activation to improve the 3-hour bundle completion rates and positively impact sepsis mortality.

- Use EMR tools to document the response to Code Sepsis alerts including response times, fluid resuscitation and IV antibiotic administration.
- Use of the Sepsis tool in EPIC to document all treatment/intervention.

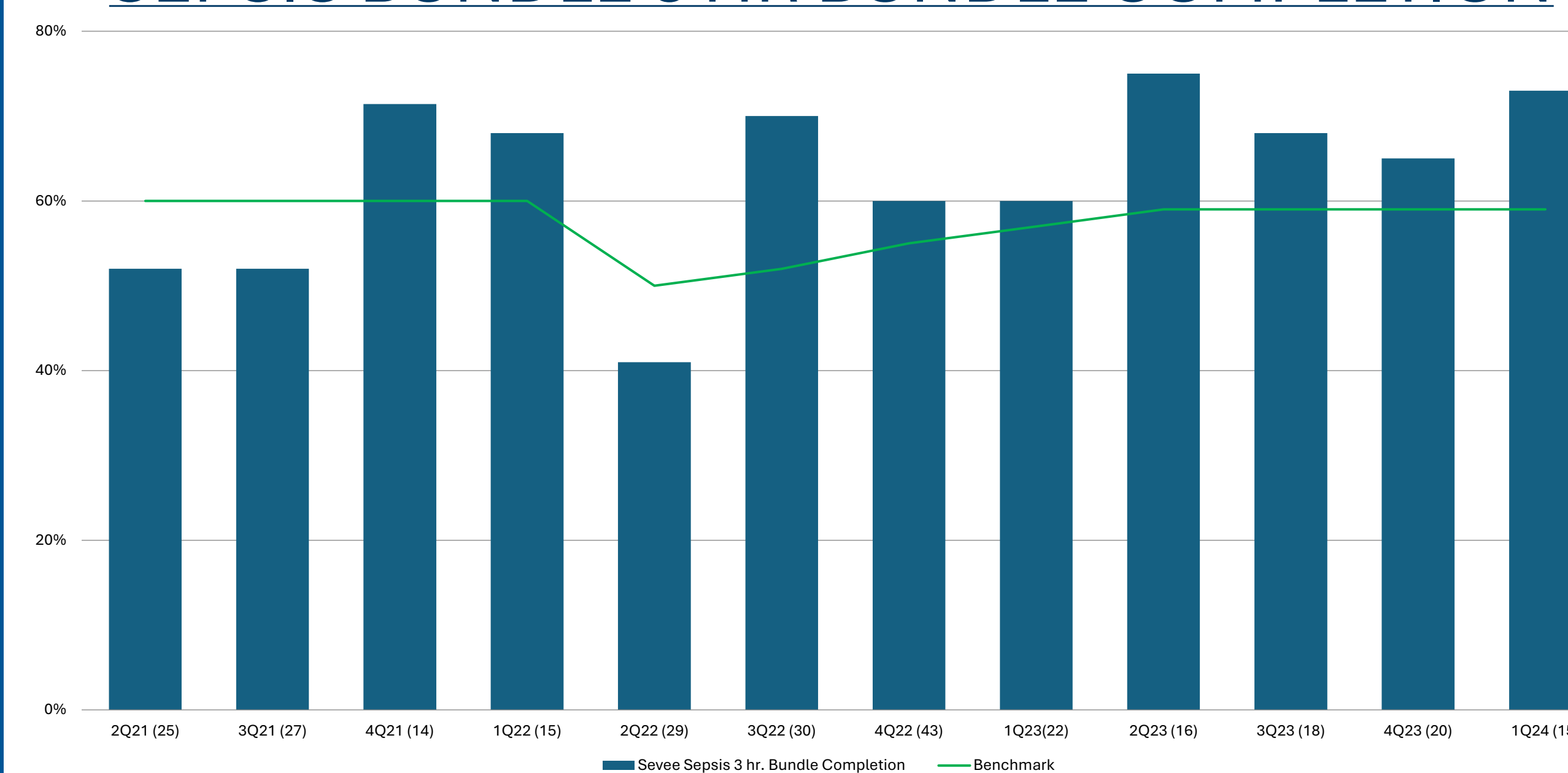


Results

Sepsis 3-hour bundle completion rate was 90% as of 1Q24:

- National benchmark is 69%.
- The 6-hour bundle increased to 90%
- Mortality sepsis rate decreased to 0%

SEPSIS BUNDLE 3 HR BUNDLE COMPLETION

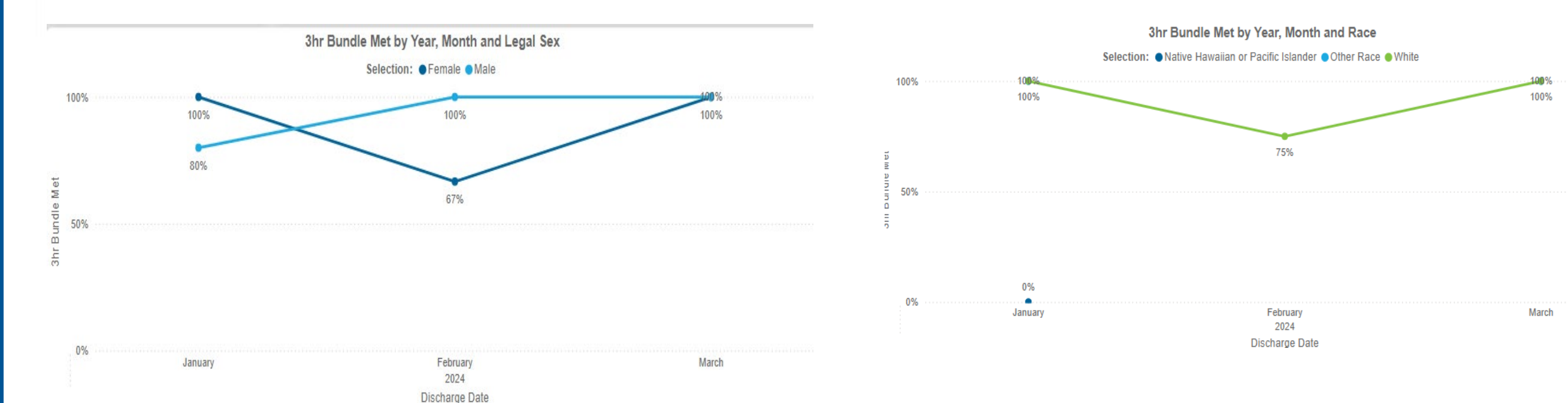


The 3-hr. bundle completion:

- 90% completion rate
- 100% for IV antibiotics given
- 67% for full completion of IVFs
- Sepsis Mortality was 0%

3 Hour Sepsis Bundle

Sepsis Severity	Encounters	3hr Bundle Met	Blood Culture Met	Lactate Met	ABX Met	Fluids Met	Order Set Usage	Mortality Rate	Premier Mortality O/E	Length of Stay
Sepsis	8	100%	100%	100%	100%		38%	0.0%	0.00	3.4
Severe	12	83%	83%	100%	100%	67%	50%	0.0%	0.00	3.7
Total	20	90%	90%	100%	100%	67%	45%	0.0%	0.00	3.6



Lessons Learned

Key takeaway is that TEAMWORK makes a positive impact on patient safety and outcomes.

- IP Charge Nurse and Supervisor respond to activations to assist in timely administration of IVFs and IV antibiotics.
- Nursing/Lab assist in timely lab draw and blood cultures before antibiotics are given.
- ED Physician/Nursing assist in timely call out of Code Sepsis.
- EPIC Sepsis narrator is used to initiate orders and to document completion.

Next Steps

Continue the journey to improve patient safety and quality of care through improving Sepsis bundle completion and decreased mortality

- Improve handoff to include remaining IVF balance to complete resuscitation
- Monitor sepsis bundle completion rate
- Reduce readmissions r/t sepsis
- Decrease sepsis mortality rate
- Continue our Code Sepsis activation & response

Team Members:

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