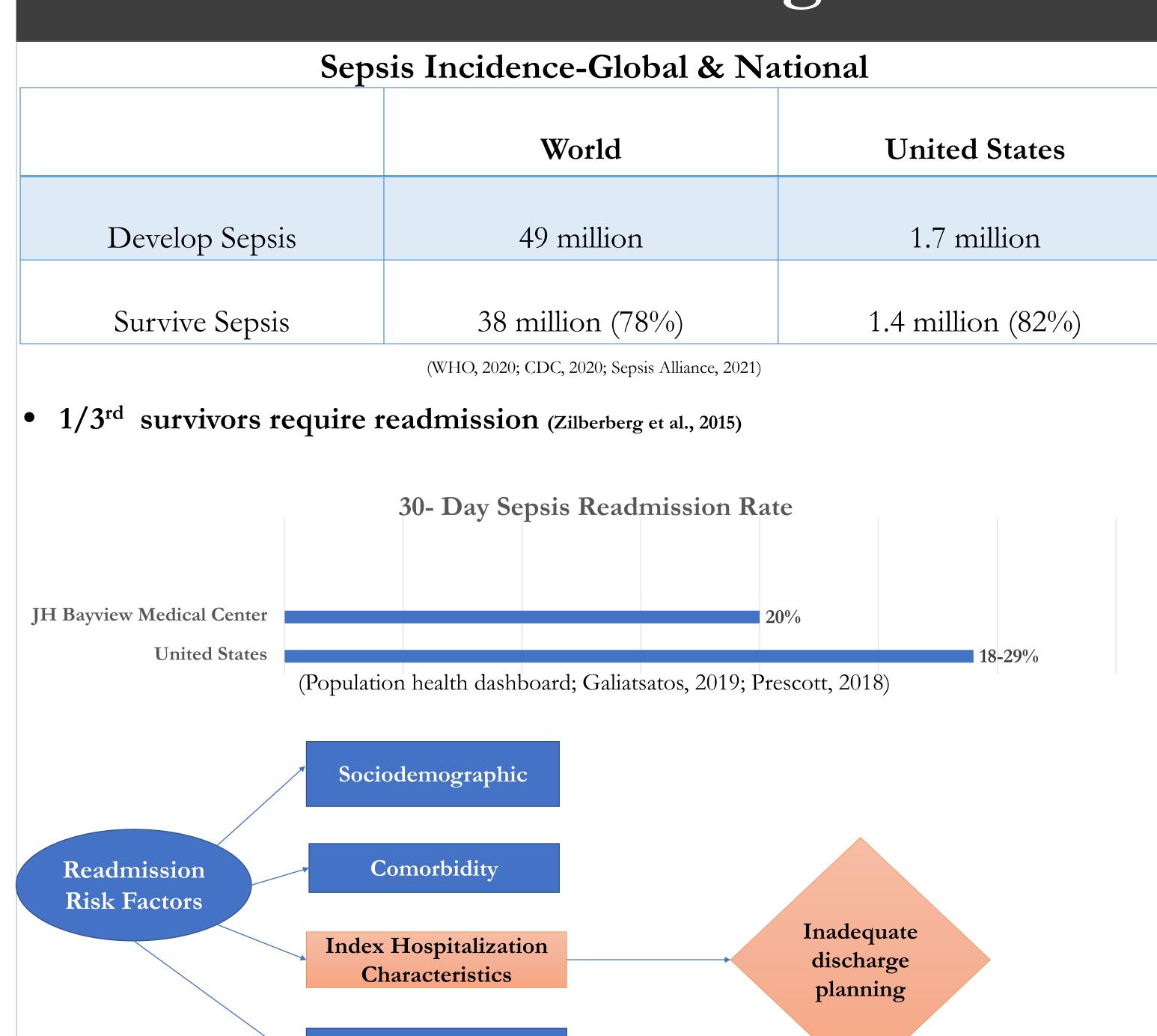
# Decreasing the 30-Day Sepsis Readmission Rate through Nurse Education in a Medical Surgical Unit

Prasuna Thomas, BSN, RN-BC; Mojgan Azadi, Ph.D/DNP, MSN, RNC

# Introduction & Background



-Sepsis readmissions are preventable (Prescott, 2018)

Literature Findings:

Post Discharge Care

Co-ordination

-Survivorship education reduces readmissions (Chen et al., 2020; DiPalo et al., 2017; Krumholtz et al., 2002; Rice et al., 2018)

Problem Statement: No standardized education on sepsis survivorship for nurses. **Purpose:** 

Decrease the 30- day sepsis readmission rate of a single adult inpatient acute care medical surgical unit by increasing nurses' knowledge on the challenges of sepsis survivorship.

### Methods

**Participants**: 21 RNs of Bridgeview Unit of JHBMC with all employment status including new hires.

Intervention: 50- minute online educational module on sepsis survivorship

Access: Hospital or personal computers or smart phones to register and complete the course

#### Measurements:

- pre/post test assessment of knowledge using knowledge questionnaire by Sepsis Alliance Institute.
- 30-day sepsis readmission rate from Population health dashboard **Analysis**: Descriptive statistics; Wilcoxon Signed Rank Test

## Results

#### Aim 1

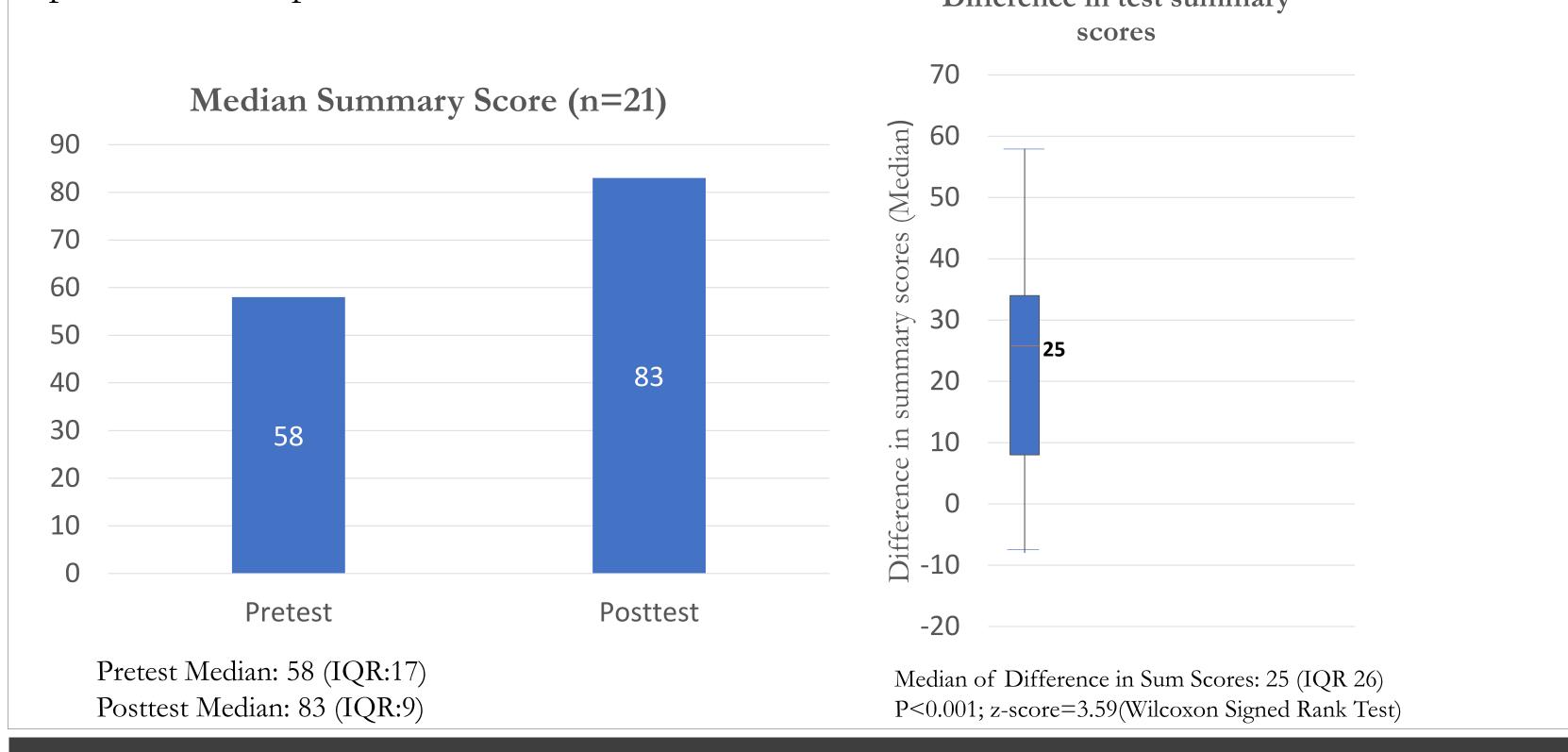
Aim 1: Determine the baseline 30-day sepsis readmission rate of the unit

	May-July- 2020 (3 months)	May-July 2019 (3 months)
No of discharges with primary diagnosis sepsis/ severe sepsis/ septic shock	28	21
Readmitted within 30 days of discharge	2	7
30-day sepsis readmission rate	7.1%	33.3%

#### Aim 2 & 3

**Aim 2:** Determine the baseline knowledge of the nurses of the unit on the challenges of sepsis survivorship and provide online educational course on survivorship over an 8- week period. **Aim 3:** Measure the effects of educational intervention on nurses' knowledge on the challenges of sepsis survivorship.

Difference in test summary



#### Aim 4

**Aim 4:** Measure the effects of educational intervention on 30-day sepsis readmission rate of the unit.

	May- July 2020 (3 months)	October- December 2020 (3 months)
No of discharges with primary diagnosis sepsis/sever sepsis/septic shock	28	26
Readmitted within 30- days of discharge	2	5
30-day sepsis readmission rate	7.1%	19.2%

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# Conclusion, Dissemination & Sustainability

- Online educational module improved nurses' knowledge on the challenges of sepsis survivorship
- Benefits of online educational module:
  - Time- efficient
  - Cost- effective
  - Unbiased
- Possible to view multiple times
- Can be finished at own convenience
- Due to the influence of COVID-19 pandemic on the readmission rate, the effect of the intervention on 30- day sepsis readmission is inconclusive.
- Nurses being the primary health care members involved in discharge education, improvement in nurse knowledge could be suggested to have clinical significance in reducing readmission.
- Additional studies including patient education over prolonged time span are needed to determine statistical significance.
- Next Steps
- Sustainability: Implementation as Unit's
  - New Hire Orientation Competency
  - Annual Competency
- Dissemination through project presentation at
  - Hospital Sepsis Readmission work group
  - Project site in unit staff meeting
  - Sepsis Alliance Webinar
  - Submission of the intervention to relevant peer reviewed journals

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#### References

