

# CLABSI 2021: CHALLENGES AND OPPORTUNITIES

Bonnie J. Decker, MPH, BSN, RN

Infection Preventionist

Harborview Medical Center

## United States:

Nationally, among acute care hospitals, the 2020 annual highlights in this report include:

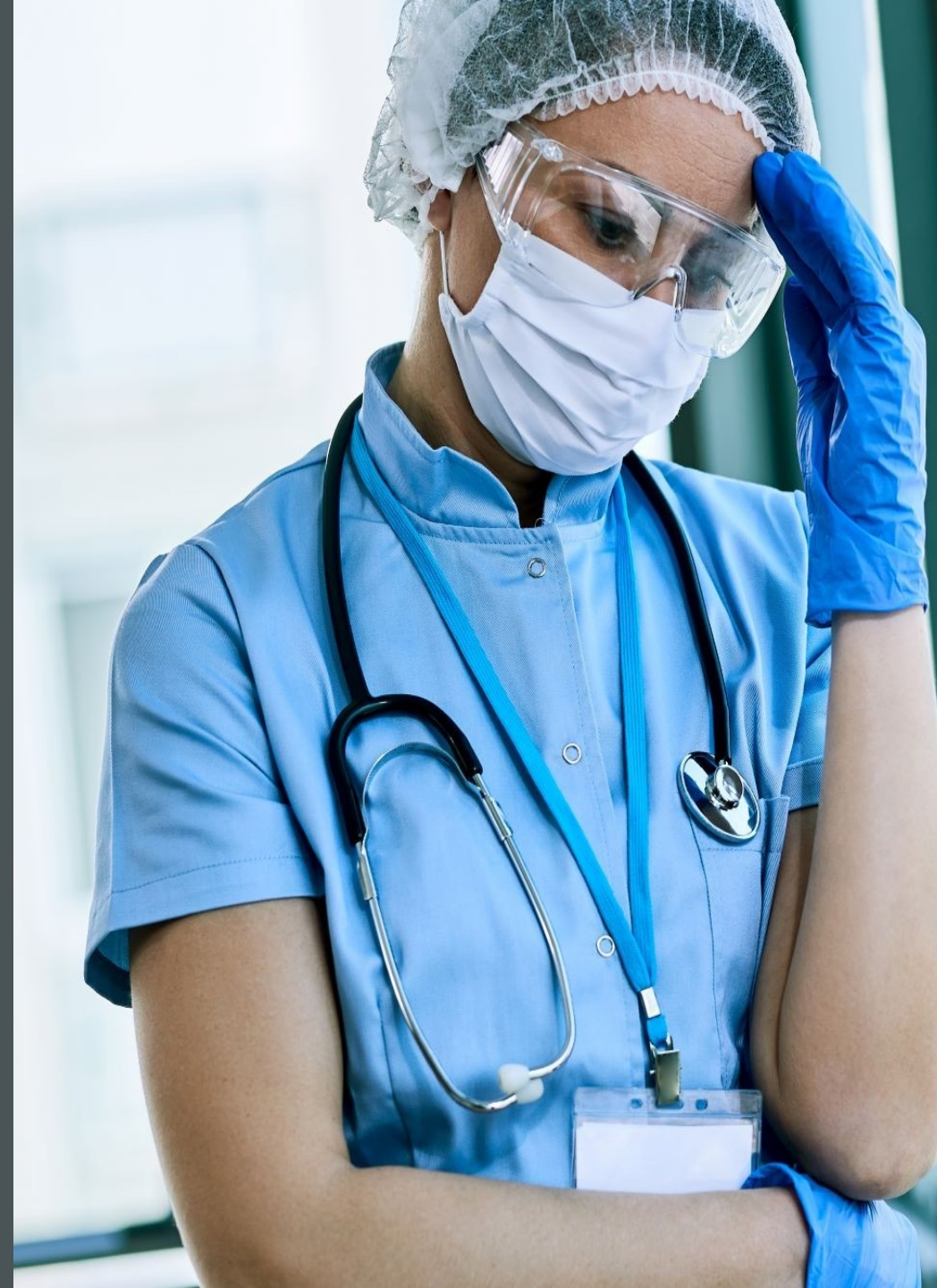
- Overall, about 24% increase in CLABSI between 2019 and 2020
  - Largest increase in ICU (50%)

## Harborview:

Metric	2018	2019	2020	2021 (TD, Oct)
HH	95.5%	95.1%	96.5%	96.5%
CLABSI	0.98/1000 Catheter Days	1.07/1000 Catheter Days	1.96/1000 Catheter Days	1.58/1000 Catheter days

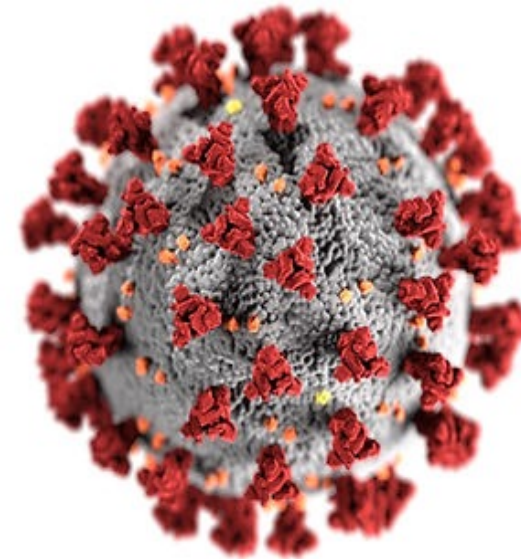
# CHALLENGES

- IP Bandwidth
- Staffing shortages
- High census
- High acuity
- Access to CL
- Continuity of projects during COVID or high census surges
- EMR change; BC bottle changes
- COVID-19

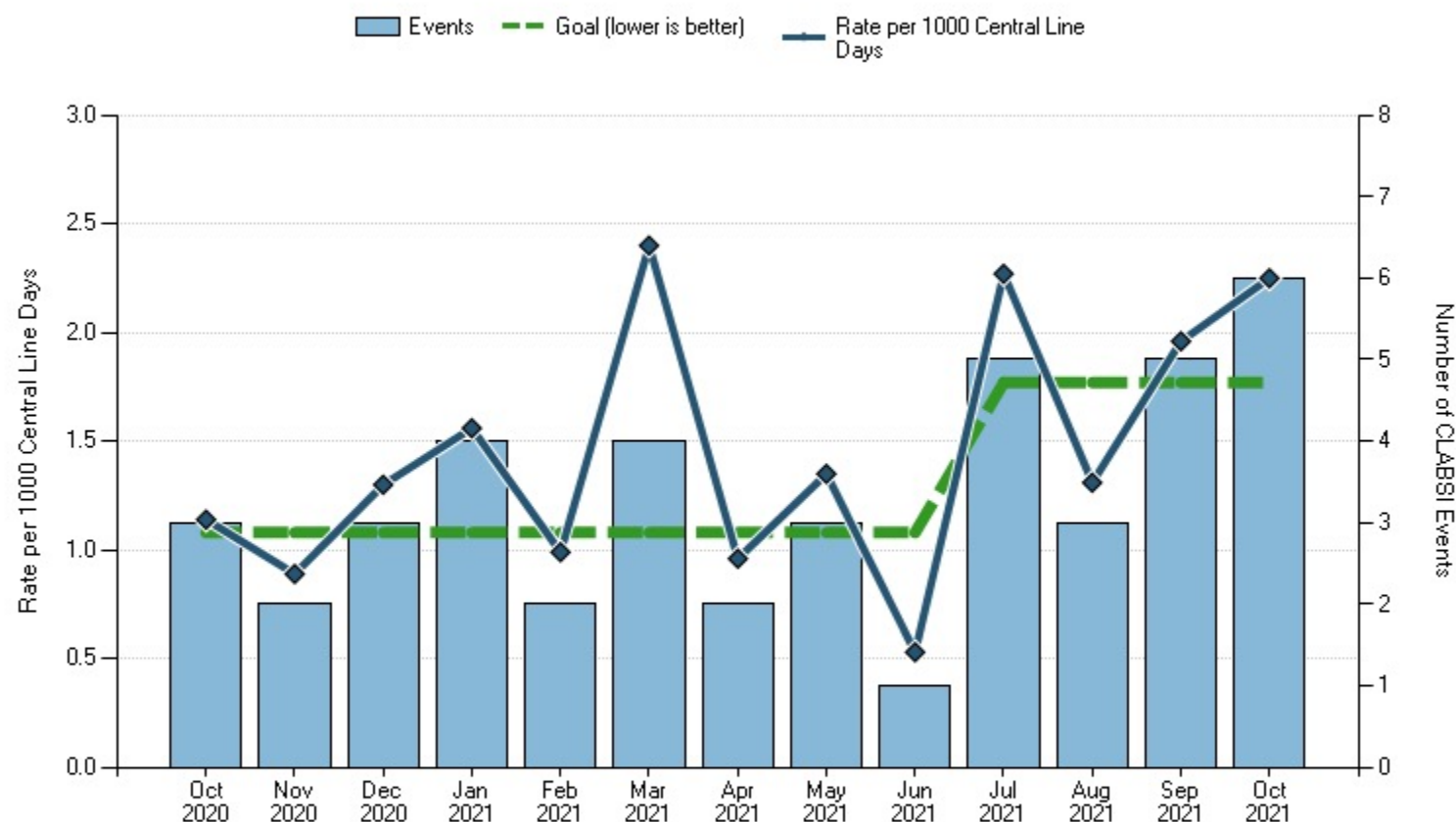


## CURRENT TRENDS AT HMC

- ICU > Acute Care
- Maintenance > Insertion
- Early Pulls vs Late Pulls
- Burden of COVID? when COVID cases are clustered on a unit, we have seen an increase of infections on that unit, including in non-COVID patients

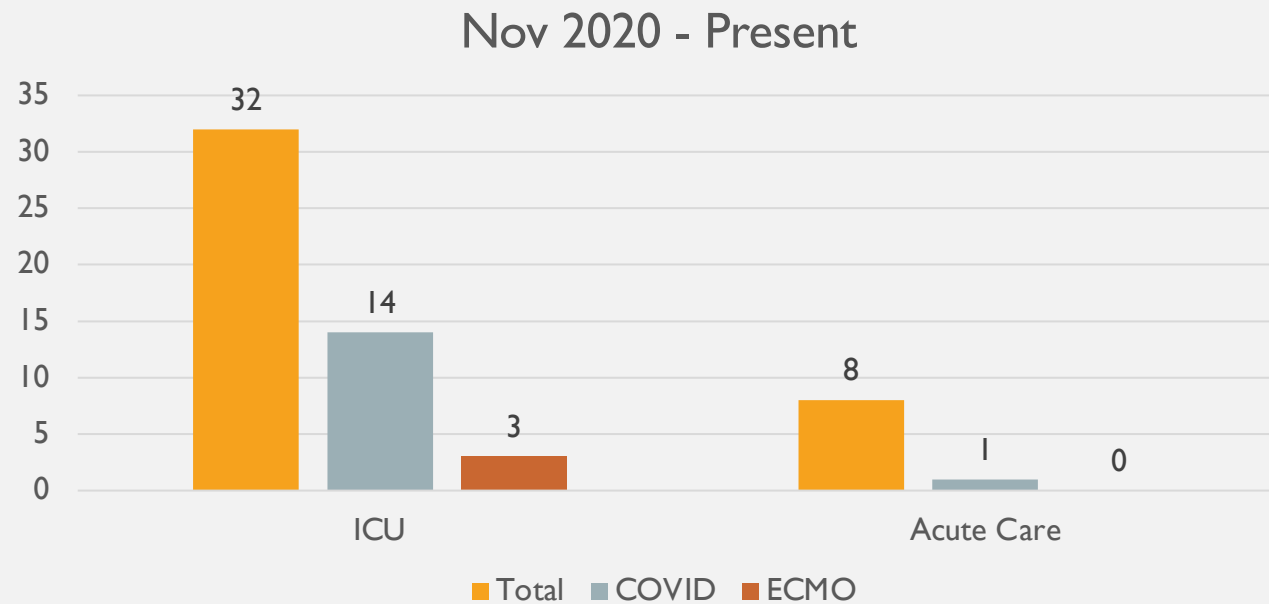


# HMC Central Line Associated Bloodstream Infections (CLABSI) (per 1000 cath days) [CLABSI] - Monthly



	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Goal (lower is better)	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.77	1.77	1.77	1.77
Rate per 1000 Central Line Days	1.14	0.89	1.30	1.56	0.99	2.40	0.96	1.35	0.53	2.27	1.31	1.96	2.25
Events	3	2	3	4	2	4	2	3	1	5	3	5	6
Central Line Days	2,634	2,253	2,306	2,572	2,013	1,667	2,080	2,224	1,878	2,205	2,285	2,547	2,672

## CLABSI DISTRIBUTION AT HMC\*



\*this graph includes ECMO cases, which are excluded from the overall SIR per NHSN definitions



## MITIGATION

- Finding allies
  - Unit leaders
  - Clinical educators
- Think creatively with use of staff
  - Light duty
  - Practicum projects
  - Existing practices
- Narrowing Focus



# CURRENT PROJECTS

HMC HAI COOL Campaign (on pause)

MCICU ITCOP Project

Ninth Floor CLABSI Campaign

Dialysis Auditing Project

Vascular Access Reorganization

## Ninth Floor CLABSI Campaign/NFCC

A Campaign to Eliminate Central Line Associated Blood-Stream Infections on the BPICU & TSICU at HMC

### BACKGROUND

The intent of this project is to reinforce standard aseptic methods that are part of the HMC Critical Care Standards of Care.

The incidence of Central Line-Associated Bloodstream Infections, (CLABSI), in both the BPICU and the TSICU has shown an increase in recent months.

Nationally in the United States, CLABSIs cost, on average, \$34,441 for each incident. [1]

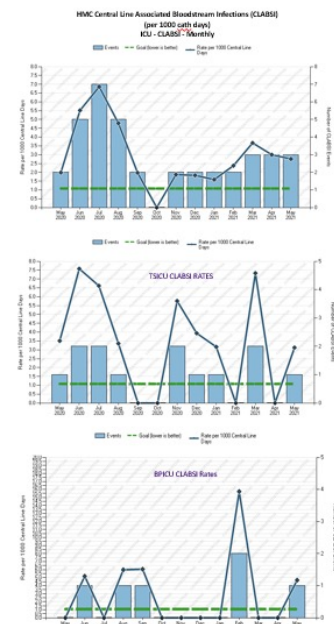
This project utilizes the HMC MCICU model (ITCoP) that has previously demonstrated efficacy in eliminating CLABSIs on that unit.

Compliance to these types of Infection Control measures is associated with lower CLABSI rates. [2]

#### Sources

1. Stone PW, Braccio D, Larsen E. Systematic review of economic analyses of health care-associated infections. *Am J Infect Control* 2005;33:525-530.
2. Patel P, Weiner-Lazinger L, Duback M, Flay L, Kuter D, Edwards J, et al. (2022). Impact of COVID-19 pandemic on central line-associated bloodstream infections during the early months of 2020. *National Healthcare Safety Network. Infection Control & Hospital Epidemiology*, 1-4. doi:10.1017/hce.2021.108
3. Information taken from latest available Access to Excellence HMC Critical Care Council data

### CLABSI Incidence [3]



- 1.
- 2.
- 3.
- 4.
- 5.

Date line was changed

- 6.
- 7.
- 8.



# OPPORTUNITIES

IPC Restructure + Hire

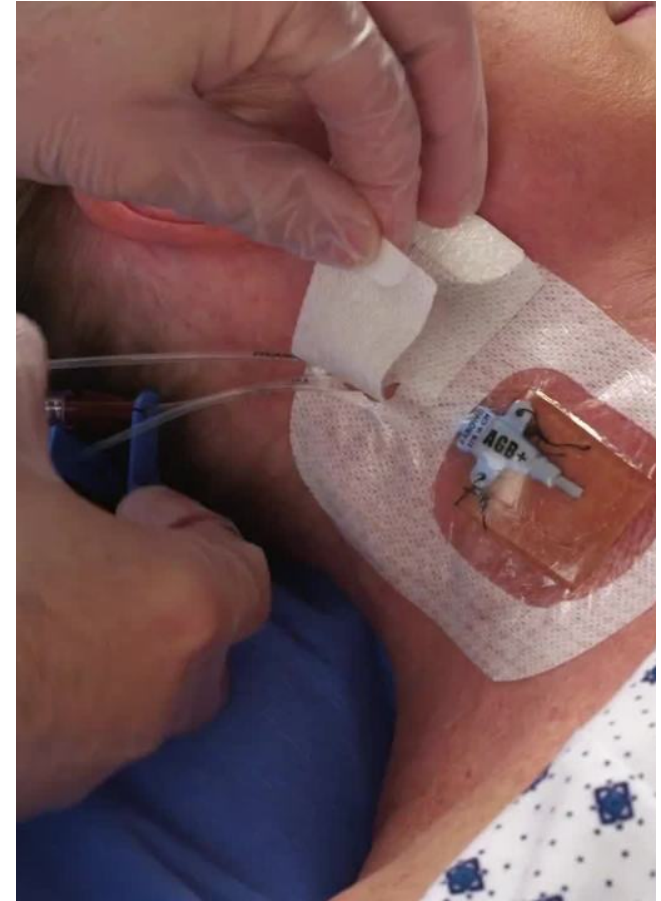
EMR Optimization

Independent Case Review & Feedback

Unit Rounding Evaluation

Multidisciplinary Focus

CLABSI toolkit



# THANK YOU

- Questions?
- Comments?
- ....Suggestions? 😊

Bonnie J. Decker, Infection Preventionist

[mrbonnie@uw.edu](mailto:mrbonnie@uw.edu)