ZEROING IN ON HAI: ENHANCING STRATEGIES THROUGH DATA VISUALIZATION METHODOLOGY

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Introduction

Infection Prevention data is routinely shared to various committees and workgroups. During 2021, shared data included NHSN and CMS-reported numbers, SIR, and a brief summary of our trended observations. A drilldown dashboard was created to look deeper into individual cases to identify opportunities for improvement. Specific graphs and tables were used internally to more easily identify trends and opportunities.

In 2022, we noticed that catheter-associated urinary tract infections (CAUTI) and central line-associated bloodstream infections (CLABSI) infections had been increasing over the past few years. A workgroup was created and tasked to identify opportunities and formulate solutions.

Methods

Microsoft Excel was utilized to create dashboards that are designed in a way that users of any proficiency can add and update data.

When a CAUTI or CLABSI is identified, the IP enters all of the patient, event, and bundle information into the line list.

The dashboard utilizes pivot charts and graphs which are refreshed after each new entry.

Results

CLABSI-specific data was shared with stakeholders committee key via meetings and workgroup touchbases.

CLABSI Reduction of 14%

- 2021 36 infections \bullet
- 2022 31 infections

References & Acknowledgements

I would like to acknowledge the JPS Infection Prevention Team and JPS Zero CAUTI/CLABSI Committee for their dedication and commitment to reducing HAIs.

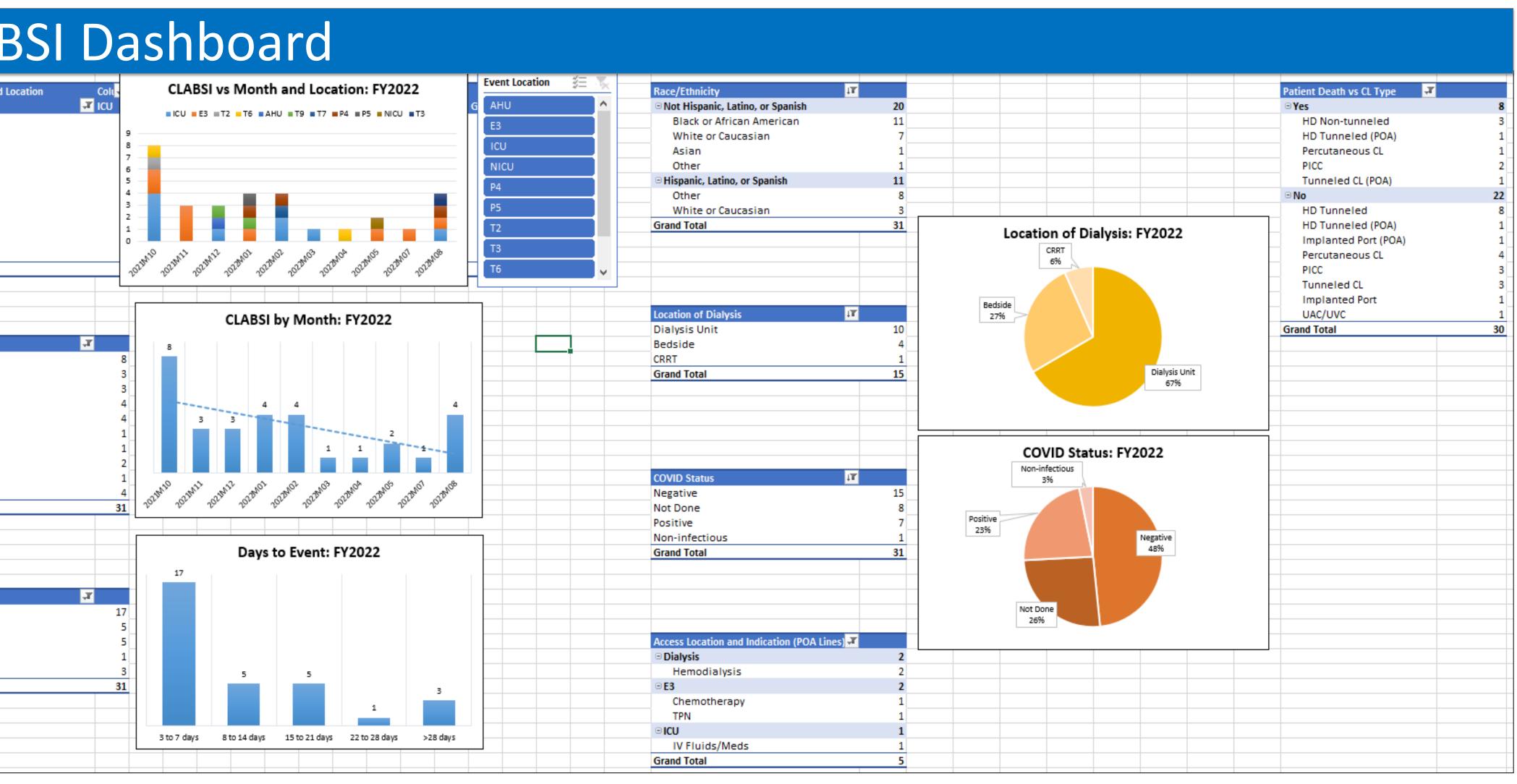
CAUTI-specific data was shared with key stakeholders via committee meetings and workgroup touchbases.

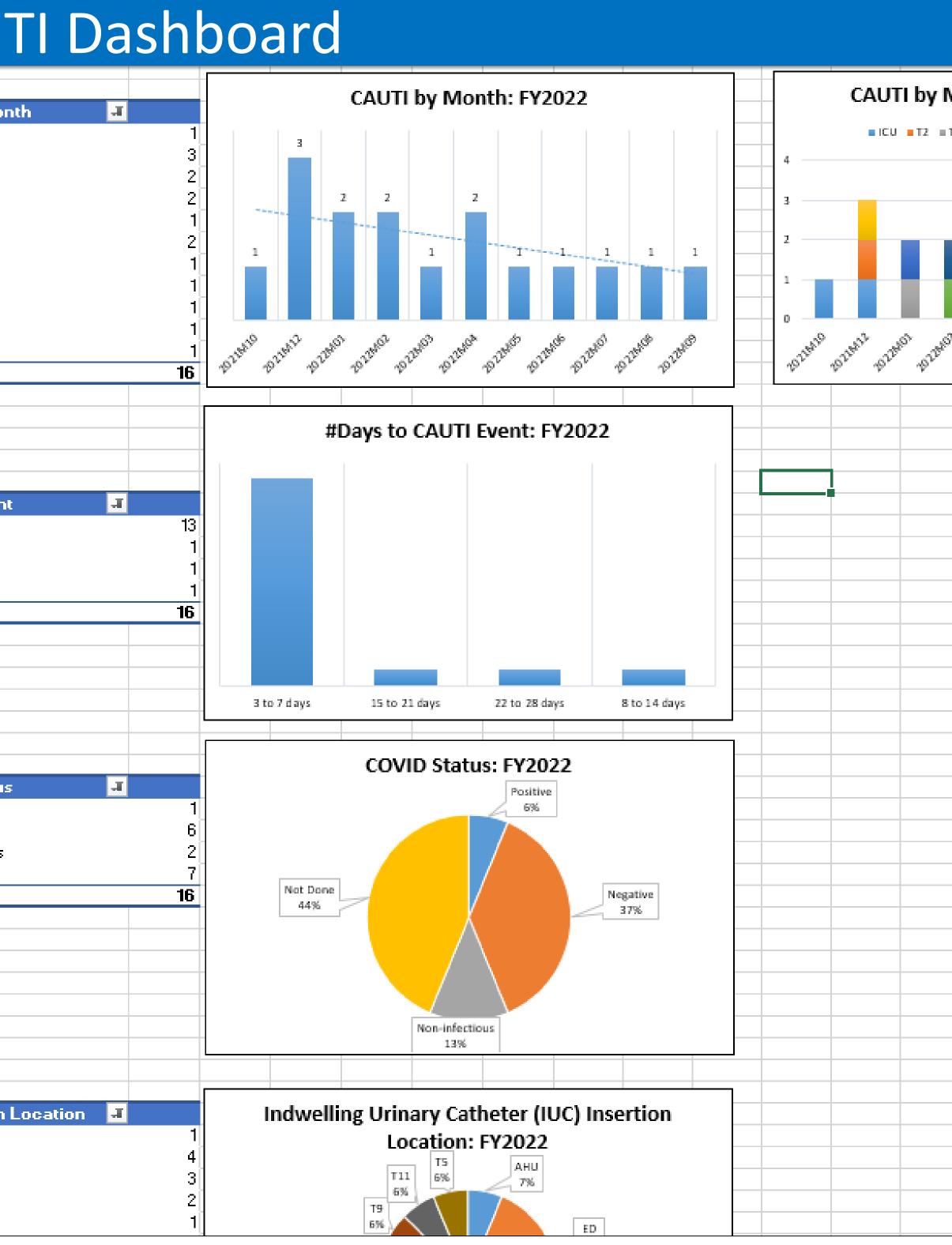
CAUTI Reduction of 24%

- 2021 21 infections
- 2022 16 infections



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CLABSI Row La 2021M 2021M 2022M 2022M 2022M 2022M 2022M 2022M 2022M 2022M 2022M	10 11 12 01 02 03 04 05 07 08	th an	d L
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2021 2022 2022 2022 2022 2022 2022 2022	M12 M01 M02 M03 M04 M05 M05 M06 M07 M08		
3 to 7 15 to 22 to 8 to 1	s to l 7 days 21 da 28 da 28 da 4 day	; ys ays Is	
Posit Nega Non- Not E	ative ·infec	tiou	s
AHU ED	Insei	tio	
ICU P5 T2			







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	⊙ No	11
■ T5 ■ P5 ■ ZSO ■ P4 ■ T9 ■ T8 ■ T11	3 to 7 days	9
	15 to 21 days	1
	8 to 14 days	1
	• Yes	5
	3 to 7 days	4
	22 to 28 days	1
	Grand Total	16
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	Organism Identified 🚽	
	Enterobacter aerogenes	2
	Eschericia coli	4
	Klebsiella oxytoca	1
	Klebsiella pneumoniae	2
	Staphylococcus epidermidis	1
	Enterococcus faecalis	3
	Klebsiella pneumoniae ssp pneum	1
	Proteus mirabilis	1
	Pseudomonas aeruginosa	1
	Grand Total	16
	Ordering Provider Role 📑	
	Intensive Care	3
	Resident	3
	 Sound 	6
	APRN	1
	Attending	4
	Provider	1
	 Surgery 	3
	APRN	2
	Resident	1
	• Women's Services	1
	Resident	1
	o Trauma	2
	APRN	1
	Resident	-
	 Medicine 	1
	Resident	1
	Grand Total	16