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Ψ.	Understand the components of the CEASE bundle and its effectiveness in reducing non-actionable alarms and alarm fatigue in clinical settings.
2	Implement evidence-based alarm reduction strategies with a replicable pilot plan.
3	Evaluate alarm reduction impact on patient safety, staff satisfaction, and efficiency using real-time examples and data.
9	Explore the barriers and solutions in integrating alarm reduction strategies into nursing workflows.





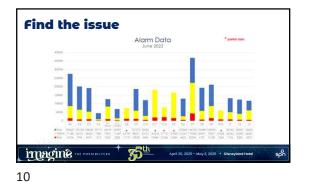




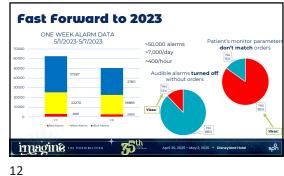
Why does it matter? More Alarms = Slower Responses (Bonafide et al., 2017) Frequent Alarms Reduce Trust (Lewandowska et al., 2020) 80-99% of Alarms Are Non-Actionable (Bach et al., 2018) Alarm Fatigue Harms Patients & Healthcare Providers (Dee et al., 2022) imagine เหตุ ครรมแนงและ **35**' April 30, 2025 - Moy 2, 2025 + Disneyland Hol spin







2022 Baseline survey Utilized Healthcare Technology Foundation Clinical Alarms Survey 348 respondents across settings and disciplines Non-actionable alarms occur frequently Families turn off the monitor or remove medical devices due to al Strongly Age strongly A
Agree
Neutral
Disagree Select the top three most important aspects of mo ors and alarms • Eas Strongly disa; imagine 🚥 🕬 🗤 **35**t spin 11





PICO

In a pediatric intensive care unit, will implementing a nurseled alarm management bundle, compared to the current practice, affect perceived alarm fatigue and overall alarm burden?





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CEASE BUNDLE	Communication
An Innovative, Nurse-Driven, Evidence-Based, Patient- Customized Monitoring Bundle	Electrodes
Decrease Alarm Fatigue in	Appropriateness
(Lewis & Oster, 2019)	👃 Set up Customized Alarms
	🗧 Education



 Pre-Pilot Data Survey Themes

 "You get numb—it's like the boy who cried wolf when 90% of alarms aren't real." –PICU RN

 ALARM FATICUE IN THEIR WORDS

 • Bi% of responses described tuning out alarms – eq. "gnore," "block it background."

 • D0% of responses mentioned parameters



 CEASES Bunches Emplementation

 Were you able to colleagues about suspending patient care tak may providing care that may providing care that may providing care tak may providing placement? 97% VES
 Did you discuss the developed care to placement? 97% VES

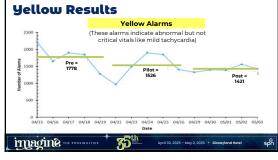
 Did you need to set cost to condition? 23% VES
 Doyou have any further educational needs regarding the CEASE Management? 10% VES
 Image: CEASE Management? 10% VES

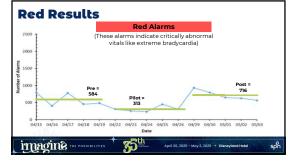
 Did you set of set to the patient's verses
 Doyou have any further educational needs regarding the CEASE Management? 10% VES
 Image: CEASE Management? 10% VES

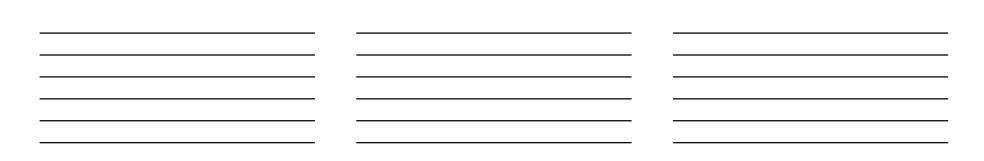
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SPO Extrements 44% reduction in overall alarms 52% reduction in blue alarms 14% reduction in yellow alarms 46% reduction in red alarms 5000+ alarms → ~3000 alarms

25

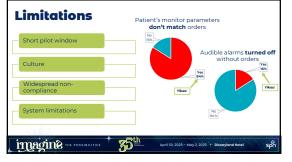
Pre/Post Alarm Fatigue Survey
Subset of SPSS data analysis software
questions taken

from Healthcare Technology Foundation Clinical Alarms	Utilized Shapiro-Wilk test of normality
Survey	Then non-parametric Mann-Whitney U test
	April 30, 2025 - May 2, 2025 + Disneyland Hotel S

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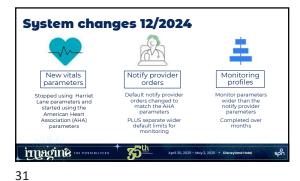
Question	Median		Mean Rank		v	z	p-value
		Post	7re	Post	<u> </u>	~	p-vanue
Non-actionable alarms occur frequently		5	51-44	41.55	898	-1.68	0.93
Patient care is being disrupted by non-actionable alarms	4	4	49.58	47-25	834	-358	0.713
Non-actionable alarms reduce trust in alarms	5	5	49.21	48-35	860.5	-144	0.885
There have been frequent instances where alarms could not be heard and missed	4	3	49-59	47.29	835	-343	0.717
Families often complain about alarms going off that are not quickly addressed	4	4	51-45	41.55	997-5	-1.599	0.110
There have been instances where families turn off, silence the monitor, or remove medical devices due to alarms	4	4	51.79	40.50	672	-1.890	0.059
In our current state, I experience alarm fatigue in the patient care setting	4	4	49.34	47.96	851	-226	0.821





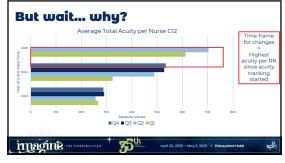


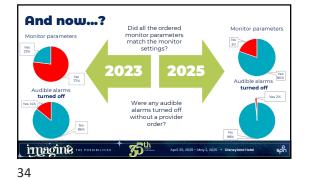
PILOT REPEATED ON INPAT		TPU					9/20)24
Question	Pre	Past	Pre	Past	U	z	p-value	
I'm aware of the policies and procedures within the facility to regulate alarms			19.42	18.13	129.5	-0.43	0.667	
The purpose of clinical alarms is to alert staff of a potentially life- threatening change in pt. condition	5	5	18.04	19.33	146.0	.0.16	0.875	
Non-actionable alarms occur frequently	5		20.22	16.46	119.5	-1.11	0.268	
Patient care is being disrupted by non-actionable alarms	4	4	19.86	17.21	128.5	.0.75	0.454	
Non-actionable alarms reduce trust in alarms	5	5	18.98	19.04	149.5	-0.02	0.985	
There have been frequent instances where alarms could not be heard and missed	4	25	20.90	15.04	102.5	-1.61	0.105	
Families often complain about alarms going off that are not quickly addressed			17.94	21.21	123.5	-0.92	0.356	
There have been instances where families turn off, silence the monitor, or remove medical devices due to alarma	4	4	20:00	16.75	123.0	.1.04	0.299	
In our current state, I experience alarm fatigue in the patient care setting		45	16.88	19.25	147.0	.011	0.912	

















4/22/2025

