

Implementation of a Focused Quiet Time (QT) on an Oncology Unit

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Background

- Hospitals get noisy with alarms, phones, hallway conversations, frequent interruptions by staff etc.
- Noise is known to cause sleep disturbances, increase pain perception, and increase the incidence of rehospitalization (Maidl et al., 2014).
- Patients report that noise is the most common interruption to sleep. (Applebaum et al., 2016).
- According to World Health Organization (WHO), hospital noise levels should not exceed 40 decibels (dB) during daytime
- This unit has been scoring less than the benchmark for the question "quietness of the hospital environment" greater than 50% of the time for each of the calendar years 2019 2023

Aim of the Project

To implement and evaluate the effectiveness of a Quiet Time (QT) intervention in a telemetry oncology population with a goal of established noise reduction

- o<u>Leading Process Measure</u> QT protocol implementation within the agreed upon time (1400-1600) 100% of the time
- Leading Outcome Measure Observed noise level
 decibels (db) during QT protocol implementation
 of the time

Development

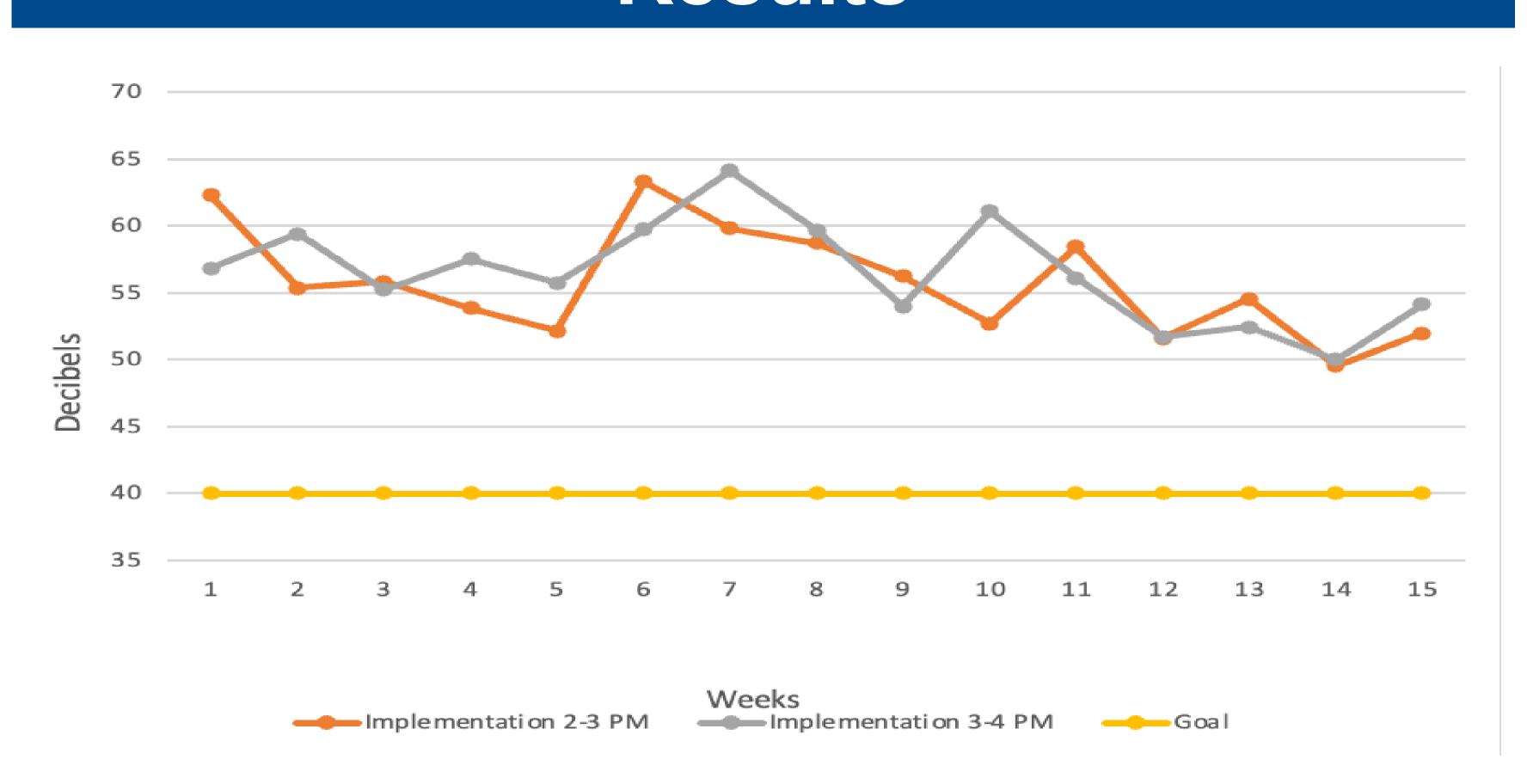
Setting: 15-bed oncology telemetry unit in a large teaching hospital with an expectation for evidenced based practice

Pre-Implementation: Various contributors to noise including (1) a lacking established QT protocol, (2) staff noise, (3) and an opportunity to improve care clustering **Perceived Problem:** Variation in interruption frequency up to 24 hours per day.

Methods

- QT was implemented for two hours in the afternoon (2 4 pm)
- The QT bundle includes a set of standardized measures to include (1) dimming the lights in the patient room and the unit (2) offering of a sleep menu with inclusion of eye mask, ear plugs, pillow, and warm blankets.
- Process drivers to implementation of the QT bundle included (1) dimming unit lights as a visual cue, shutting doors when appropriate, clustering care, customized telemetry alarms, and scripted rounding prior to the onset of QT.

Results



Noise level was collected as a data point pre and post implementation at specific intervals:

QT (1400-1500)

Mean Pre-Implementation: 62.28 decibels Mean Post-Implementation: 55.90 decibels

QT (1400-1500)

Mean Pre-Implementation: 56.80 decibels Mean Post-Implementation: 57.09 decibels

Conclusions

- There was a decrease in the noise levels on the unit from 2-3pm but there was a slight increase in noise levels during the 3-4pm.
- Findings suggests that the QT implementation could lead to decreased noise levels on the unit to some extent.
- Staff showed some hesitation in implementing all the measures in the QT bundle. In hindsight, reducing the number of measures could have eased the implementation for the staff.

References



Text Box

Notes

- Thank you to the multidisciplinary team for participating in the implementation of this initiative.
- A special thanks to Katie Falato, MSN, RN for ensuring all resources were readily available for the implementation of this initiative.
- Access the QT bundle here

