



Singapore Healthcare Management 2018

Bedside Clock on Blood Pressure Machine

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Introduction

Background

Respiration Rate is one of the important vital signs to be taken.

Problem

1. Nurses were having problem using their 2nd hand watch for performing respiration rate when they were wearing personal protection equipment.
2. They had to hold the 2nd hand watch using their gloved hand and there was a lot of coordination need to be done when performing this task. At times the nurses might compromise the infection control measures due to this coordination.
3. Nurses would forget to clean their 2nd hand watch before they proceed to another patient.
4. The clocks in the ward are too far and not visible enough to see the 2nd needle.



Objectives

- ✓ To implement the bedside clock on the blood pressure machine .
- ✓ It will facilitate the process on checking the respiration rate.
- ✓ To minimize the Infection Control contamination between patient and staff.
- ✓ To embrace 5 moments of Hand Hygiene

Methodology

- A small clock was placed on the Blood Pressure Machine.
- It was shared to the nurses on the use of the clock and the cleaning of the equipment after each use. It was piloted for 3 months in Ward 29.



PDSA1

- Select the appropriate size of clock to be attached to the Blood Pressure Machine.
- Shared the implementation with other nurses during the huddle.
- Synchronized the entire clock at the same time.
- Clock kept detached from the machine.
- Monitor the nurses using the bedside clock.

PDSA2

- Relook on the way the clock was attached to the Blood Pressure Machine.
- Get another size of clock to be attached to the Blood Pressure Machine.
- Majority of the nurses prefer to use the bedside clock.
- Visibility was very poor at night.

PDSA3

- Relook for another clock which comes with background light.
- Nurses gave positive feedback.

Result

- Pre and Post Survey were conducted during the pilot period.
- There were 21 surveys collected.

Pre-survey result

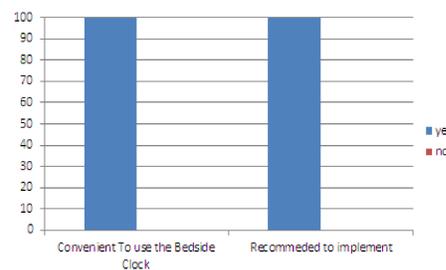


Challenges

- The devices were covered by PPE/staff ID card
- It is far to see the wall clock
- It is too small to see the 2nd hand watch
- Not hygienic to use out of PPE
- Unable to check patient's respiratory rate and look up to the wall clock at the same time
- Wall clock was covered by curtain
- Time consuming



Post-survey result



Advantages on the implementation:

- Accessible
- Convenient
- Visible in a dark place, especially in night time
- Clock is stable to sit on the BP machine
- Able to get all vitals at one glance
- Time saving
- Infection Control Measures
- View patient and count the respiratory rate at the same time

Conclusion

Learning Lessons

- It reduces the risk of contamination.
- It smoothen the process on checking respiration rate for patient.
- It increases the accuracy of the assessment of the patient.

Impact

- It increases the staff satisfaction on the implementation of the bedside clock.
- It promotes staff creativity on ideas to have a seamless process.
- The nurses are also able to use for other purpose such as to time immediately when patient threw a fits or emergency situations.

Challenges

To maintain the equipment to ensure the equipment is in good condition.

Next Step

To maintain good practices in the ward.
To spread to other departments.