

CHI Learning & Development (CHILD) System

Project Title

Registered Nurses' Competency in Collecting Blood Cultures and Educational Intervention to Reduce the Contamination Rate

Project Lead and Members

Project lead: Siti Zainah Mohamed Rian

Project members: Ambrose Tan Keng Leong

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Nursing

Applicable Specialty or Discipline

Phlebotomy

Project Period

Start date: July 2020

Completed date: December 2020

Aims

The aim of the project is to train nurses on collecting blood sample for blood culture with the intent to reduce blood culture contamination rate to less than 3%.

Background

See poster appended/below

Methods

See poster appended/below



CHI Learning & Development (CHILD) System

Results

See poster appended/ below

Lessons Learnt

Continuous reinforcement by supervisors at the clinical setting will help to sustain the reduced contamination rate.

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Risk Management, Preventive Approach

Keywords

Contamination Rate, Blood Sample Collection for Blood Culture, Elearning

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[Restricted, Non-sensitive]

REGISTERED NURSES' COMPETENCY IN COLLECTING BLOOD CULTURES AND EDUCATIONAL INTERVENTION TO REDUCE THE CONTAMINATION RATE

	SAFETY	PRODUCTIVITY
	QUALITY	COST
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SITI ZAINAH MD RIAN, AMBROSE TAN YL

Introduction

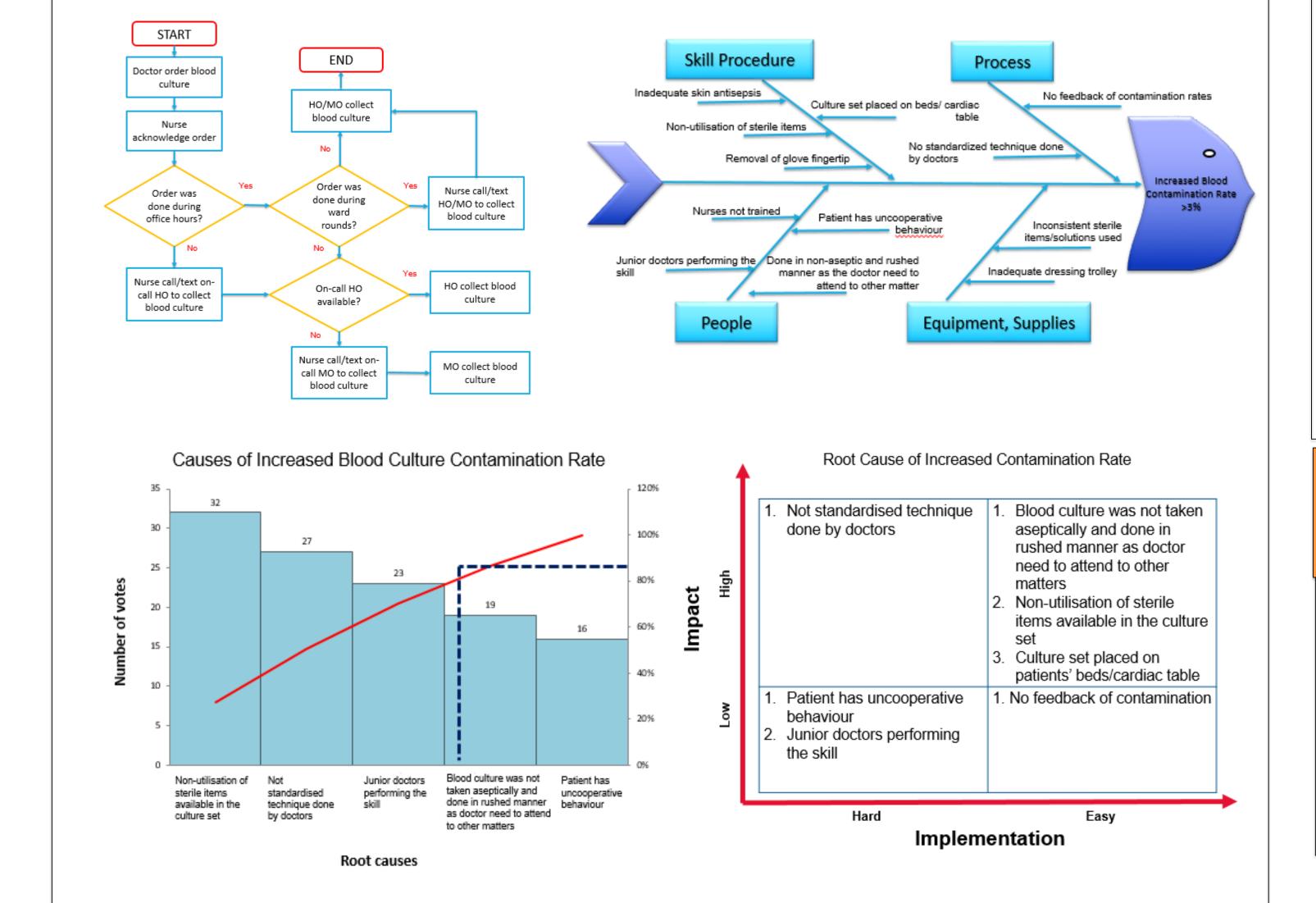
BACKGROUND:

False positive blood culture results due to contaminated samples have shown to increase patient's length of stay, increased healthcare cost and unnecessary usage of antibiotics. Blood cultures were primarily taken by doctors and the target rates for blood culture contamination had been set as 3%. However, contamination rate in some departments were shown to be above 3%. Thus, the decision to train nurses in collecting blood sample for blood culture was made to achieve a reduction in the contamination rate

AIM:

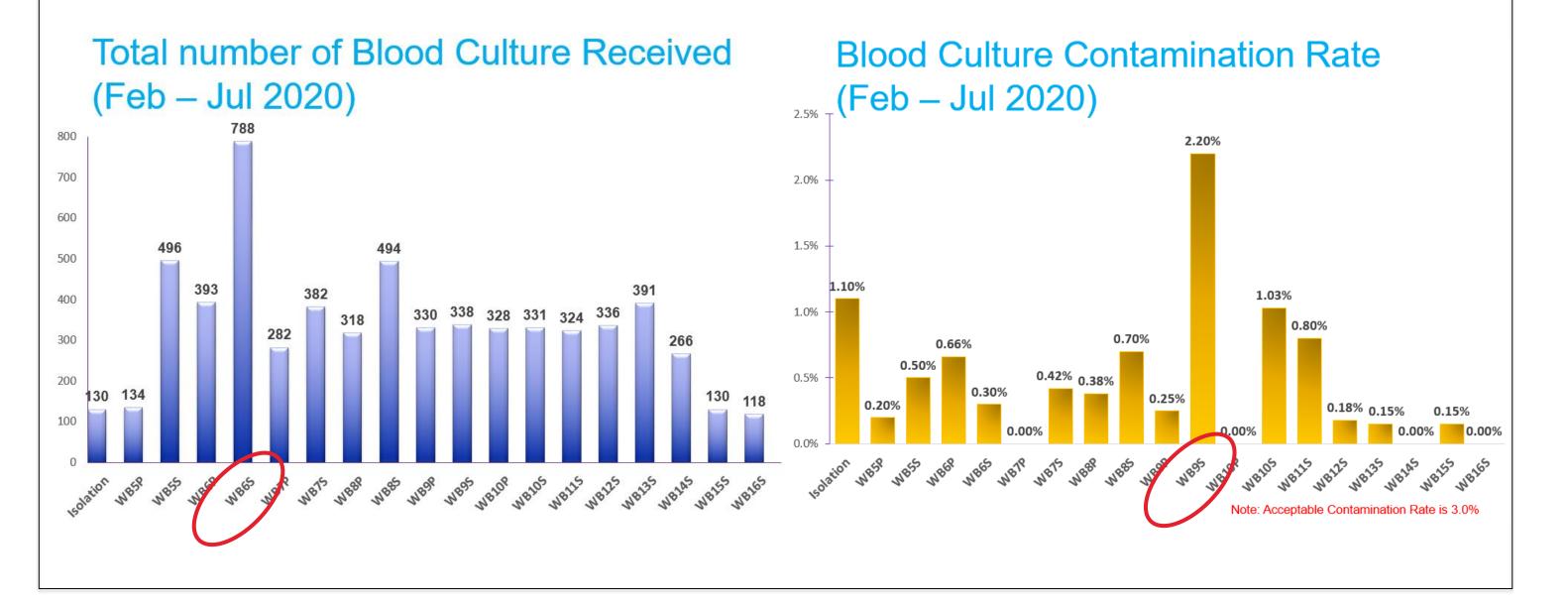
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Problem Analysis



Measures

The project was targeted at two piloted wards that had the most number of blood culture collection (WB6 Subsidised) and high contamination rate (WB9 Subsidised).



Methods

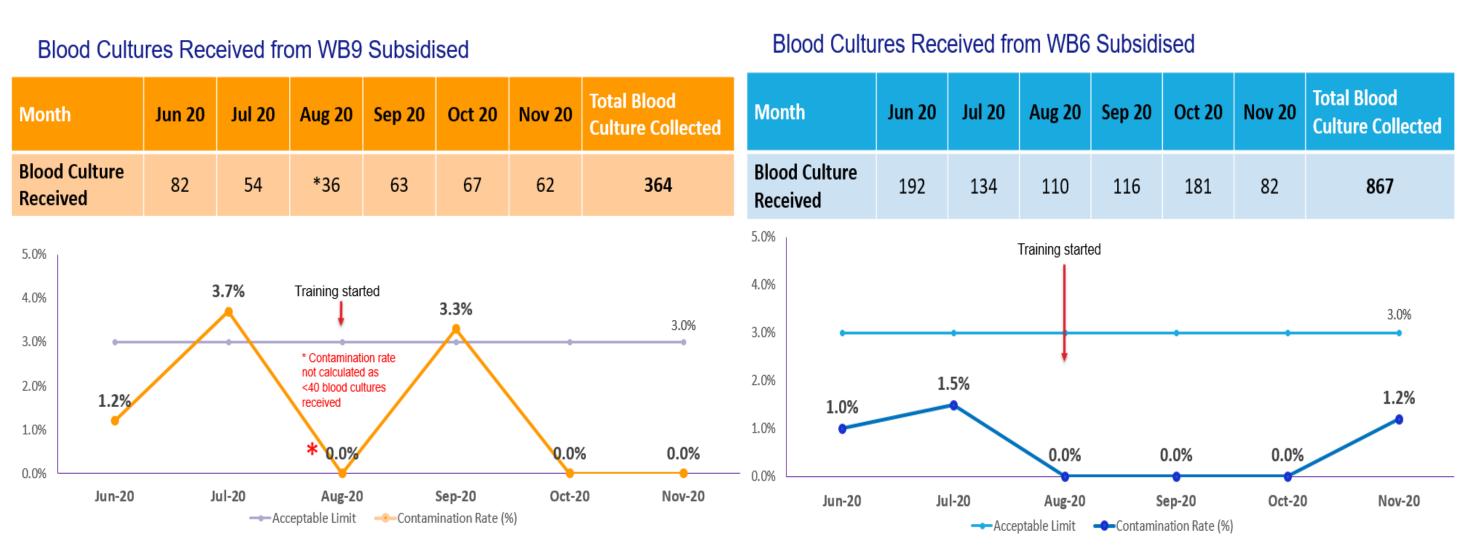
EXPERIENCE

Trainings were provided to the nurses and blood culture results and error rates were investigated prospectively.



Results

Results have shown a decrease in contamination rate post training.



Follow-up

- The training was extended to all Registered Nurses at JurongHealth Campus by 2021.
- Continuous reinforcement by supervisors at the clinical setting will helped to sustain the reduced contamination rate.



