Reduce Rejected Specimen Rate

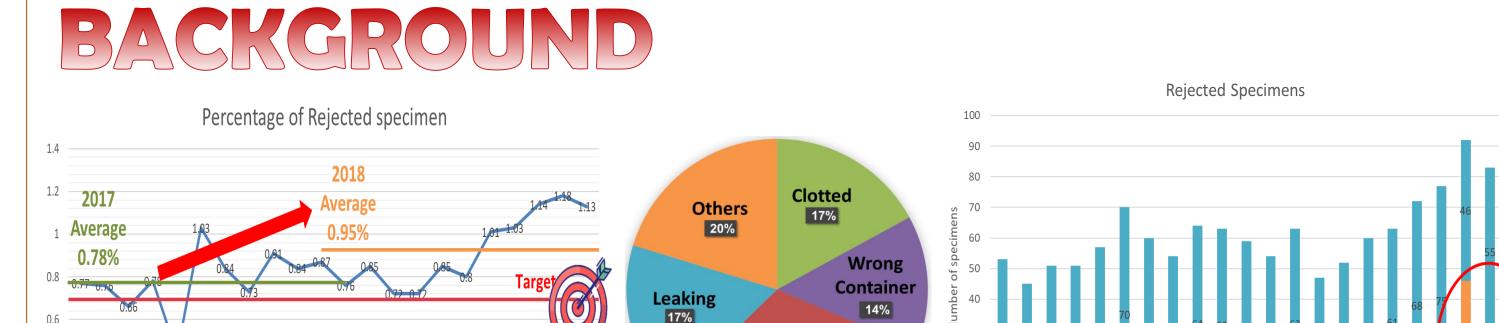
Singapore Healthcare

Management 2021 Wo

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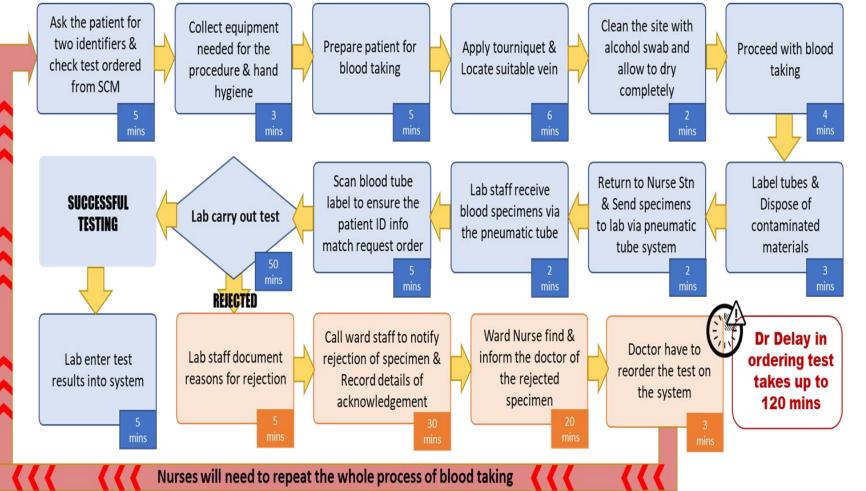


National Heart Centre Singapore SingHealth



On average, the blood specimen collection process takes 92 minutes to complete. In event of a rejected specimen, an additional 145

Current Blood Draw Process





The number of specimen rejected by the laboratory is an area of concern. 32% of the total rejected specimen was due to insufficient specimen. 17% was due to leaking and another 17% was due to clotted specimen. The impact of rejected specimen is severe as it delays treatment, discharge time and caused unnecessary additional venepuncture for patient. The repeated blood taking process is chargeable to both the organization and patients.

minutes is required to reorder and recollect the same specimen. This excludes an unforeseen delay of 2 hours for

Doctor to reorder. This will further prolong the blood test result and delay treatment. Hence, this project targets to reduce the specimen rejection rate to 0.7%.

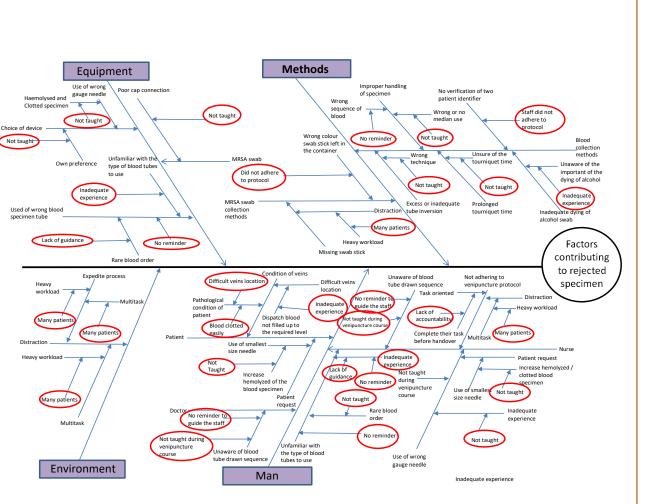


METHODOLOGY

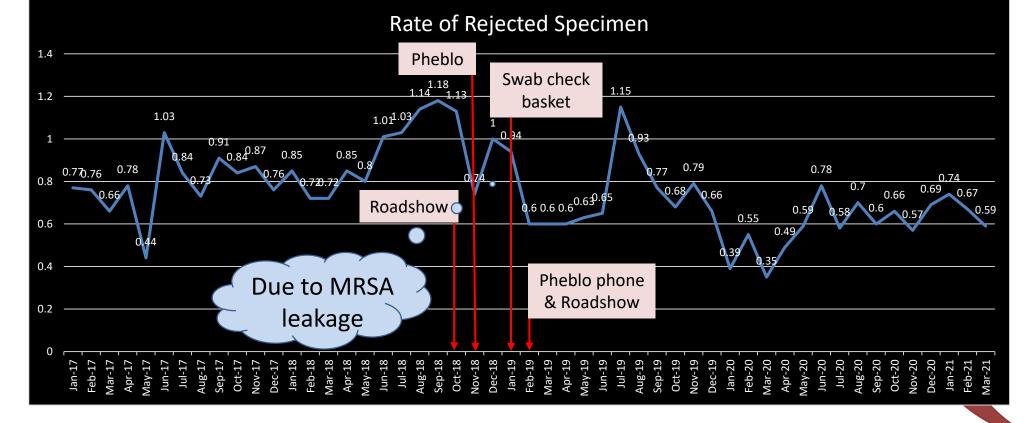
The final root causes were identified using a Cause and effect diagram and further ^a analysed to determine the final root causes: **1) Inadequate experience**,

- 2) Lack of guidance and
- 3) Insufficient teaching during venipuncture course resulted in knowledge deficit.

Solutions were brainstormed and discussed before going through a selection using the tree diagram.



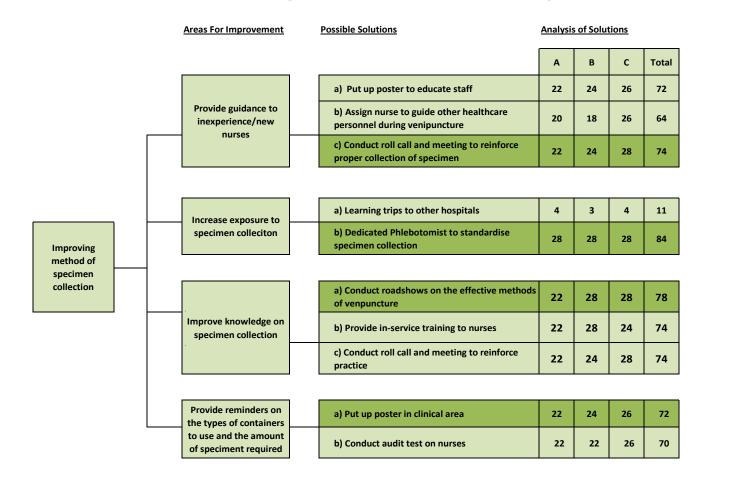


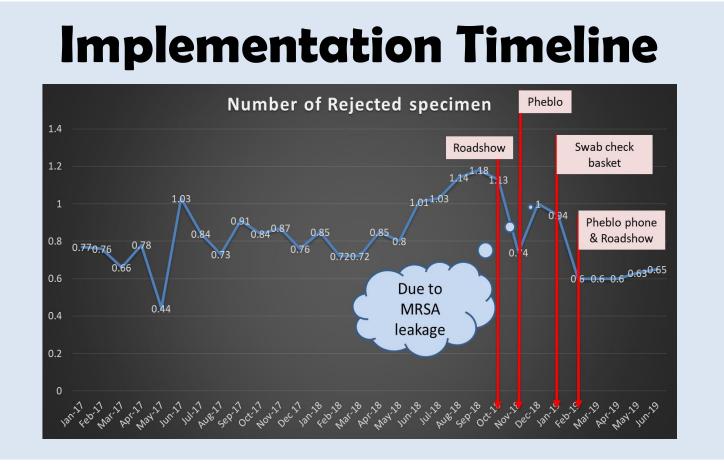




Average Mean After Implementation







A multi-prong approach was used to improve the efficiency in specimen collection.

Roll call and meeting to reinforce proper collection of specimen





Posters were put up on Computers on Wheels to reinforce staff on the sequence of blood taking.

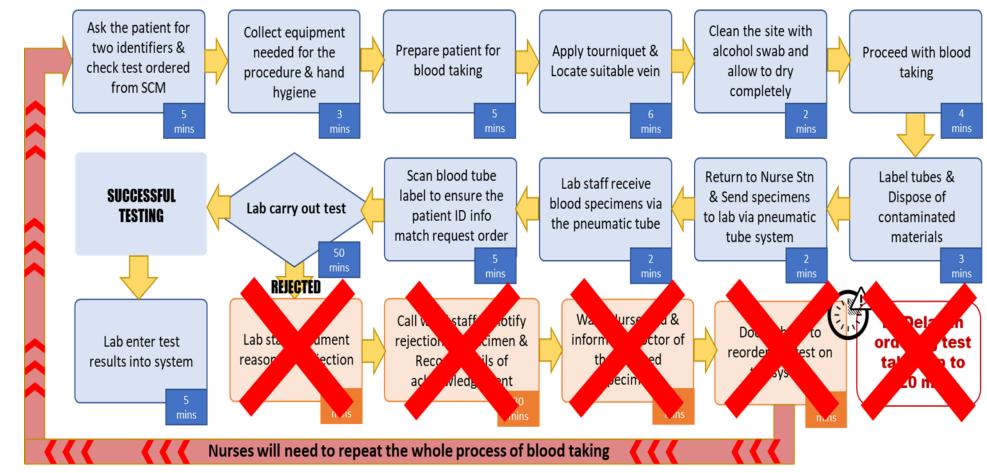
Conduct Roadshow to reeducate on the



Standardizing specimen taking Up-skill Patient



2. Time Saved with New Process





Time Saved from 1 less Rejected Specimen = 145min Average Improvement in Number of Rejected Specimen = 310/ Annum

3. Cost Savings with the Reduction in Rejected Specimen

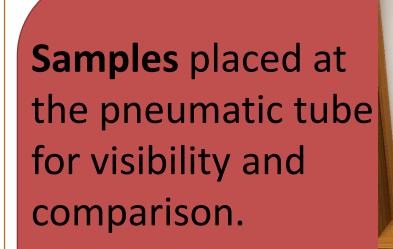


Total Cost Savings Per Annum = \$7672

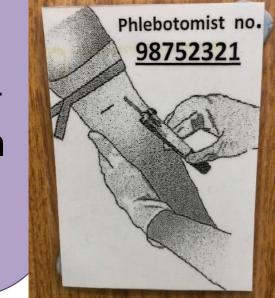
Intangible Benefits

process of specimen collection.

Assistant as designated phlebotomist







Weekly data collection & sharing during roll call to determine any trend of the rejected specimens





Nurses.



- Improved Hospital Experience for Patients
- Timely Treatment and Appropriate Care for Patients
- Enhanced Teamwork for Holistic Patient Care
- Improved Patient Satisfaction
- Reduced Unnecessary Complaints and Potential Lawsuits
- Maintain Professional Image of Hospital

SUSTENANCE

- Monthly data provided by the laboratory to monitor the specimen rejection rate
- Roll call and ward meeting to reinforce the calling of phlebotomist for blood taking
- Rejected specimen reported in monthly Management meeting
- Regular feedback from stakeholders