

Project Title

Blood Specimen Requirement Chart & Order of Draw to Ensure Safe Draw Upon Collection of **Blood Specimen**

Project Lead and Members

Project lead: Choy Qiyun Grace Project members: Terry Ann

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Nursing

Applicable Specialty or Discipline

Intensive Care Unit

Aims

For ICU/HD nurses to refer to the blood specimen bedside checklist reference guide when in doubt, and also to ensure correct patient specimen being dispatched and amount of blood in the specimen tube is adequate to eliminate errors from happening and thus, promoting safe delivery of patient care.

Background

See poster attached/ below

Methods

See poster attached/ below

Results

See poster attached/ below



Lessons Learnt

The bedside checklist and reference guide ultimately aims to promote overall patient safety and provide a safe environment for the patients and healthcare providers.

Conclusion

See poster attached/ below

Project Category

Care & Process Redesign, Quality Improvement, Value Based Care, Safe Care

Keywords

Blood Collection, Specimen Requirement

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BLOOD SPECIMEN REQUIREMENT CHART & ORDER OF DRAW TO ENSURE SAFE DRAW UPON COLLECTION OF BLOOD SPECIMEN

MEMBERS: CHOY QIYUN GRACE, TERRY ANN

SAFETY PRODUCTIVITY PATIENT EXPERIENCE QUALITY VALUE

Define Problem/Set Aim

The procedure of collecting blood from patient plays a vital role in the hands of nurses. There are several incidences where blood was taken from patient, however 2 patient identifier was not checked and wrong patient sticker was pasted and send to the laboratory. This resulted in the need for another blood collection from patient to re-send the specimen.

This could post serious adverse problem if the blood results were process for the wrong patient, as potential different treatment will be rendered to the patient depending on the blood results.

Beside that, in another situation of multi-tubes blood test. It is recommended to arrange the tubes in the standard order to avoid cross-contamination of additives between tubes and to maintain sterility so that patient's blood will not get clotted and thus, have accurate results. Currently, nurses not aware of sequence of blood tube draw and also the hassle to refer to intranet.

Select Changes

What are the probable solutions?

With errors occur and nurses will need to go into the intranet under laboratory manual to read the words and identify the sequence of draw as there is no pictorial guide.

Hence, a small pocket size bedside checklist & reference guide is implemented to create awareness for all nurses and to establish measures to prevent further errors from happening.

Aim

The ultimate aim is for ICU/HD nurses to refer to the blood specimen bedside checklist reference guide when in doubt, and also to ensure correct patient specimen being dispatched and amount of blood in the specimen tube is adequate to eliminate errors from happening and thus, promoting safe delivery of patient care.

Establish Measures

Blood specimen bedside checklist reference guide

Be Safe! Use the bedside checklist

PREPARATORY PHASE

ENSURE CORRECT PATIENT IS ASSIGNED UNDER YOUR CARE IN EPIC
 PRINT THE SPECIMEN STICKY LABEL AS ORDERED
 IDENTIFY THE CORRECT PATIENT FOR THE PROCEDURE USING 2 PATIENT IDENTIFIERS
 ENSURE CORRECT BLOOD COLLECTION TUBES/COLLECTION BOTTLES
 CHECK BLOOD COLLECTION TUBES/COLLECTION BOTTLES FOR EXPIRY DATE

PERFORMANCE PHASE

EXPLAIN THE PROCEDURE TO THE PATIENT
 OBTAIN SPECIMEN FROM THE CORRECT PATIENT
 ENSURE CORRECT SEQUENCE OF BLOOD TUBES UPON COLLECTION OF SPECIMEN

FOLLOW UP PHASE
 SPECIMEN ARE CORRECTLY LABELLED

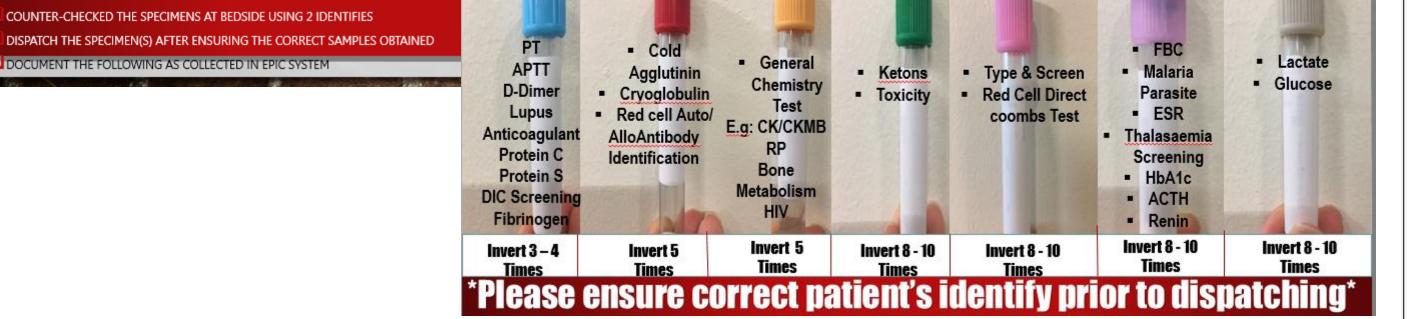


Specimen Requirement Chart Order of Draw

Test & Implement Changes

How do we pilot the changes? What are the initial results?

CYCLE	PLAN	DO	STUDY	ACT
1	To ensure that correct patient blood specimen was dispatched	Good Feedback on "Be safe: use bedside checklist" as it acts as a reminder.	Review of the usage of the bedside checklist & reference guide	No errors or cross contamination of blood taking sample
2	Blood tubes 'order of draw' chart	Pictorial guide shows clear information on the sequence and requirement	Review of the usage of the bedside checklist & reference	No errors or cross contamination of blood taking sample



Analyse Problem

What is your current process?

- 1. Once physician have ordered blood investigations in the system.
- 2. Nurses will verify the order in Epic.
- 3. The nurse will print the sticker out from epic followed by collectig the required blood tubes. Then, proceed with the blood collection followed by print lab sticker on Epic. OR collect the required blood tube, proceed with blood taking then print lab sticker from Epic.
- Once sticker is printed, verify patient name together with NRIC (patient able to verbalise) or with another nurse (for patient unable to verbalise name & NRIC) before dispatching blood.

(Some of this steps was missed resulting in errors.)

There are reference guide available in the intranet under laboratory manual to help nurses identify the standard of draw. However, there is no pictorial guide.
Nurses need to manually go to the intranet which take up majority of their time. of draw.

Sample

Spread Change/Learning Points

What are the strategies to spread change after implementation?

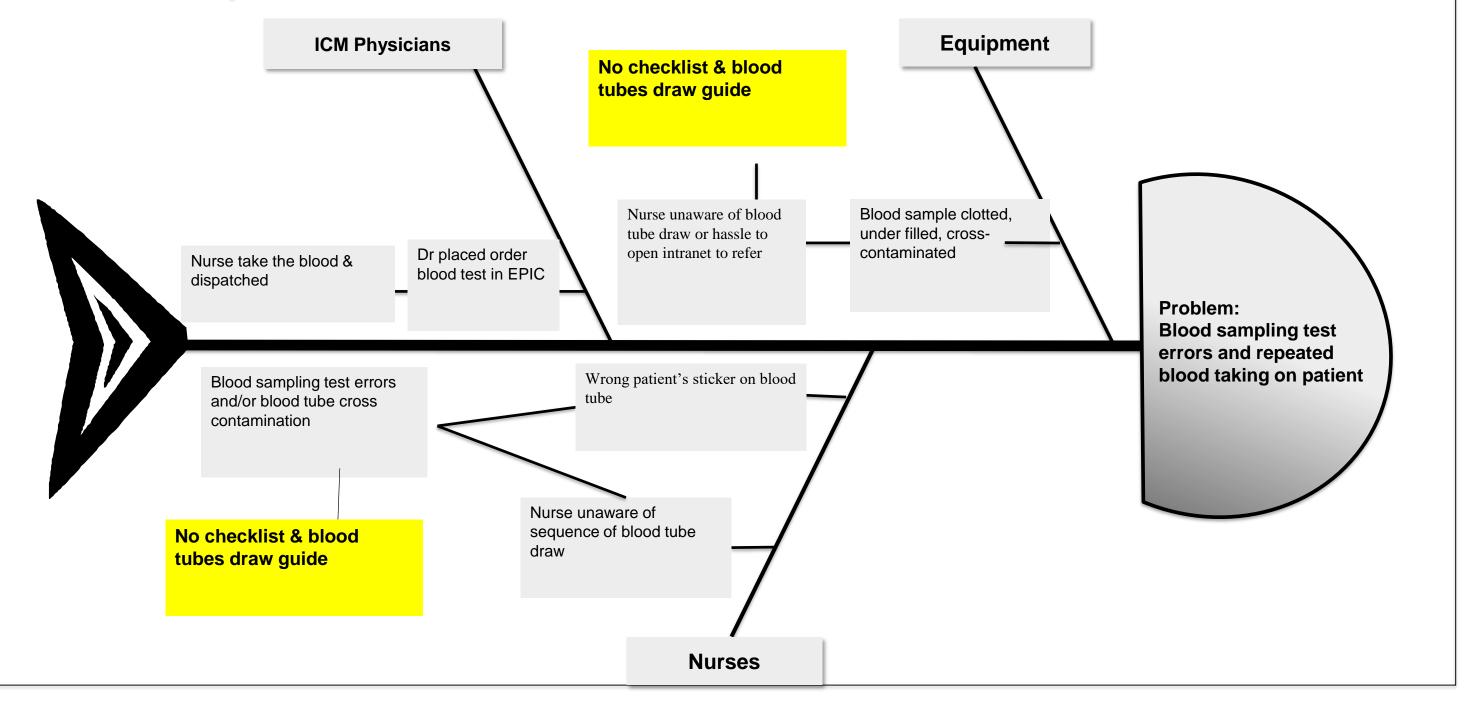
The small and easily accessible checklist attached to the side pendent was place in all individual rooms in POD 2, 3 & 5 to create awareness to all ICU/HD nurses on the importance of blood collection process.

After implementation of the bedside checklist , there is zero errors of blood specimen dispatched.

What are the key learnings?

This bedside checklist & reference guide ultimately aims to promote overall patient safely and also to conduct a safe environment for the both the patients and healthcare provider.

What are the probable root causes?



Ng Teng Fong General Hospital Jurong Community Hospital Jurong Medical Centre

Members of the NUHS