

Standard Operating Procedure

The operating procedure set out below must comply with the Data Quality Principles set out within Trust Data Quality Policy

Title:	Cath Lab Replacement: Modular Labs, flow and changes in practice during the construction of new cardiac catheter suite labs.
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Please refer to [Koha Policies and Guidelines Catalogue](#) for the most recent version.

SOP Document Controls:

Version Number	Date	Author	Reason for Revision
1.0.0	22/07/2024	Caroline Shereni/ Simon Rizzi	New to Koha

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1. Introduction

The cardiac catheter suite labs equipment is at end of life and requires to be replaced (risk on register 2039). This will happen placing two modular labs outside the female end of the cardiac catheter suite recovery area while the new labs are built. The two modular labs will be connected to recovery via a corridor, and this will impact on the following:

- Patients' flow.
- Patients' privacy and dignity.
- Patients' harm.
- Recovery capacity.

The standard operating procedure is required to describe the new processes the cardiac catheter suite team will follow.

The replacement and building of the third cardiac catheter lab are expected to last around 12 months. This SOP will be in place until the new labs become available.

2. Purpose

- To ensure safe flow for all Invasive procedures of all patients including Elective, Inpatients and Emergency Patients undergoing Coronary Intervention and Device Insertions.
- To ensure the correct steps Perioperative, intraoperative, and postoperative within the Catheter Suite and Modular Laboratories are taken.
- To Ensure Effective Communication is maintained throughout within Catheter Suite Recovery and Modular Laboratories
- To ensure all Safety measures are adhered to during the transfer of patients between units and the Modular Laboratories
- For Safety reasons and clinical priority and effective Communication with the Catheter Lab Coordinator and all Catheter Lab professional groups including Cardiologists, Cardiology Registrar, nurses, Physiologist and Radiographer and other departments.
- To ensure all safety measures are in place in emergency situations, in the event of a deteriorating and ventilated patient or emergency transfers to Intensive Care Unit.
- Ensure safety measures are adhered to with transportation of all drugs between the catheter suite recovery area and modular lab.
- Ensure the Controlled Drug policy is adhered to.
- Providers are responsible for ensuring that all patients as appropriate are aware of the guidance and are informed of any decision that may lead to a patient being placed in /or in a mixed sex accommodation.
- To ensure privacy and dignity is maintained in the event of a deceased patient in the Modular lab.

3. Scope

The data around the cardiac catheter suite replacement is shared with all the cardiology stakeholders and the Trust executive and board team.

Risks, incidents and investigations are also shared in line with Shared Governance.

4. Abbreviations and Definitions

MAU	Medical Assessment Unit
CCU	Coronary Care Unit
PPCI	Primary Percutaneous Coronary Intervention
HCA	Healthcare assistant
ACT	Automated Coagulation Timer machine
CD	Controlled Drugs
ED	Emergency Department
ITU	Intensive Therapy Unit
NIC	Nurse in Charge

5. Responsibilities

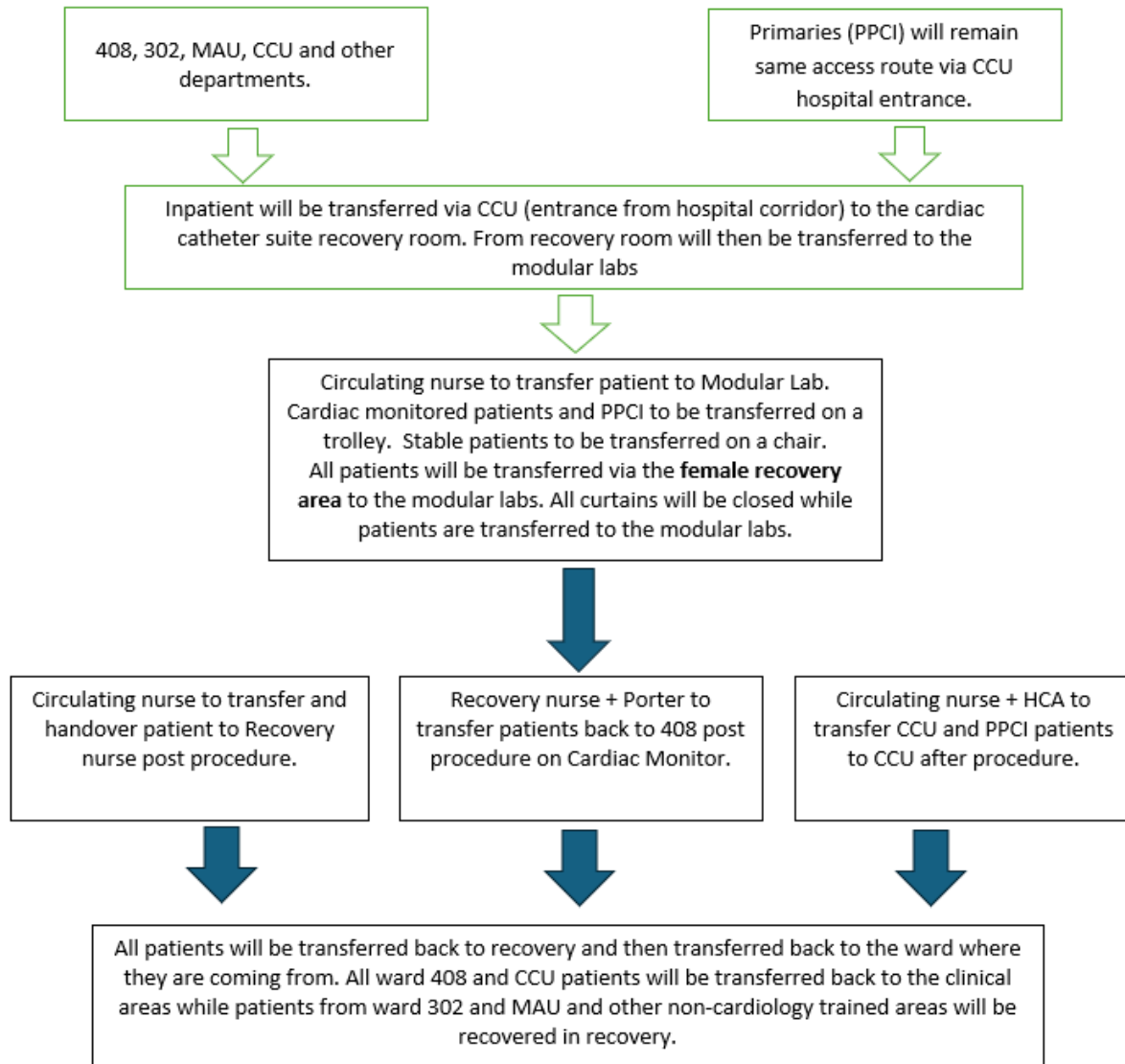
The Cath Lab replacement team are responsible for the management of the replacement process. A weekly newsletter is completed and sent out to all the interested parties.

The risk related to the building of the new laboratories will be completed by the Cath Lab Replacement Project Team, while the clinical risks will be completed by the medical and nursing workforce of the cardiac catheter suite.

Escalation to the Division in relation to the cardiac catheter suite replacement have happened via the Governance reports.

Incident reports have been regularly completed in relation to malfunctioning of the cardiac catheter suite equipment and attached to the appropriate risks on the Cardiology Risk Register.

6. Procedure



Co-Ordinator Role / Nurse In Charge during the replacement period

- The co-ordinator will ensure that patients are allocated to go to the Modular lab in the morning / afternoon.
- Nurse in charge to ensure that the Circulating and Scrub nurse are allocated to the Modular lab. The Modular Circulating nurse is responsible for the transfer of the patient from Recovery to the modular lab.
- **The nurse in charge will always allocate 2 Registered Nurses to each Modular lab for Patient Safety.**
- Coordinator is responsible for patient scheduling though the day. Communication is paramount to maintain patient safety both in recovery area and the Modular Laboratories. List changes should change for Clinical Priority or needs.
- Procedure lists need to be displayed in and deemed area for the safe care of patients.

- The management of flow of patients from recovery to the modular labs is the responsibility of the nurse in charge together with the management of break time.
- The nurse in charge will be responsible to inform the patients every day that due to the replacement of the lab there will be a risk of patients of opposite sex being transferred via the female side of the recovery room.
- In the event of no female bed spaces. Bed space will be allocated on the male side (bed 15) curtains to remain closed. Dignity to be maintained.

Team Briefing

Team brief is to be performed in the morning and afternoon before the procedure start times. The safety huddle should be attended by all MDT team Members including Cardiologist, Registrar, Radiographer, Physiologist, Circulating and Scrub Nurse. The Safety Huddle is led by the Co-ordinator this should place where patient's confidentiality is paramount and silent focus should be maintained at all times, this should be performed in the Modular Laboratories due to limited space in the control room in the modular buildings. Cardiologist will confirm and specify equipment required for each procedure. Any additional information that might affect the running of the lists should be communicated in a timely manner and may be requirement that increased communication may be essential during running of these sessions both morning / afternoon for patient flow between recovery and the modular Labs.

Patient Admission to the Catheter Suite

Patients will be transferred from the wards via the CCU entrance facing the main hospital corridor as the space between CCU main entrance and Cath Lab reception will be unavailable. They will be transferred by a registered nurse or picked up by the cardiac catheter suite registered nurse and healthcare assistant / porter.

The outpatients will be welcomed to the department via the Cardiac Catheter Suite main Entrance and transferred immediately to the recovery room by the welcoming staff member.

The Registered nurse will ensure safe admission of patients is performed in the recovery area. All Information must be documented in the Care pathways. The Following information must be recorded in the integrated care pathway pre-procedure:

- Patients name, Date of Birth
- Identification Number
- Past Medical History
- Allergies
- Blood Tests (If not performed before the procedure)
- Falls Risk Assessment
- Check Height and Weight
- Record of Current Medication
- Check Blood Pressure, Pulse, Temperature, Respiratory Rate, Blood Glucose
- Check Consent Form

Modular Lab Safety Checks

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It is everybody's responsibility to make sure that safety is maintained across the modular labs and clear Lab safety checks are completed. The nurse in charge will be accountable that the following checks are completed:

- Lab Nurses to check ACT Machine is functioning and clean.
- Ensure the Controlled Drugs are checked in the morning and afternoon.
- Ensure that the Resuscitation Trolley checks have been completed and suction machine, oxygen, X-ray equipment, monitoring systems including OCT/IVUS Pressure Wire, Echo Machine, Temp pacing / Pericardial Drain equipment and Nitrogen gas bottle are intact and functioning appropriately.
- Ensure that all Drugs which are required in the Labs have been checked and are available from the Drug Cupboard in Recovery area which will be used as the main top up cupboard, due to limited storage space. This will be required to be topped up frequently throughout the day whilst the labs are running. It is the nurse in charge responsibility to make sure this is achieved. CDs will be stocked in the modular labs; this has already been checked by pharmacy. Although the stock remains low compared to previous labs, the nurse in charge will be responsible all medications are always available.
- Ensure all necessary paperwork and drug charts are available for staff to access and complete.
- Between each patient –Modular Lab must be appropriately cleaned after completion of each case. All stock levels need to be replenished between each case.
- Cardiac Catheter Suite consumables will be managed by the cath lab team including the modern housekeeper. The modular lab stock (internal to the labs which includes catheters and stents and so on) is managed by All the staff members.
- Due to Limited space constraints students and visitor-s may not be able to be accommodated while the construction work is ongoing.

Mixed-Sex Breach / Loss of Recovery bed spaces

- A Breach Occurs at the point a patient is admitted to a mixed – sex accommodation outside the Trust guidance.
- Patients should not have to walk through an area occupied by patient of the opposite sex to reach a specialist area, however, in this situation, while the labs are replaced, patients will need to move through the female side of the recovery area to enter the modular labs.
- Protecting patients' privacy and dignity is integral to good quality patient care
- On occasions every effort must be made to make the situation right as possible. Staff must take care to ensure privacy and dignity are maintained where patients are cared for in the Catheter Suite Recovery Area.
- Ensure the privacy and dignity are maintained and curtains are drawn in the female bay of the recovery area when male patients are been wheeled though the area to the modular lab both pre and post procedure.
- Ensure all providers are responsible for ensuring all staff are aware of the guidance and requirements.
- This must be reviewed regularly, and risk completed on the register as this might affect the Trust reputation.
- Patients must be informed of the reasons this has occurred and information needs to be given first thing in the morning to all patients by the nurse in charge.

- All Staff members are responsible for ensuring their attitudes actions and communication are consistently in line with the principles policy ensuring Patients privacy, dignity and respect is maintained at all times.
- The Recovery area will lose bed spaces 3,4 and 5 on the Female side. This is because these bed spaces will be required to stock the Lab equipment. The Female side will only accommodate 4 female patients during the construction period.

Transfer of the patient to the Modular Lab from recovery area

- Modular nursing team to ensure that the Modular lab is clean and ready for the use of the patient.
- Circulating nurse to transfer the patient by chair from recovery to modular labs. The space in the corridor between recovery and modular labs is tight and chairs and trolleys should always be the preferred way of transfer.
- Unstable patients being monitored via cardiac monitor must be transferred to the modular Lab on a trolley only due to space limitations in the Modular laboratories.
- All patients will be transferred through the female side of the recovery area to the modular labs.
- Patients are required to wear dressing gown / blanket round to maintain patient's dignity whilst in the chair / trolley.
- Chair / Trolley to move back to recovery after procedure been performed due to space limitation.

The Role of the Circulating Nurse

- The Circulating Nurse must lead the STOP Moment in the modular lab as there is not enough space in the control room for this to be completed.
- Circulating Nurse will ensure long line is attached on the patients' cannula.
- Ensure safe transfer of the patient in the Modular lab from the Chair/ Trolley to the Table.
- Attach the saturation probe and Blood Pressure cuff to the patient.
- The Circulating nurse prepares the Catheters required by the Operator and passes then to the Operator/scrub nurse when requested to.
- If assistance is required emergency button to be activated by the circulating nurses or anybody in proximity of the button.
- The Circulating nurse to administer medications requested by the Operator during procedure.

Post Procedure-Transfer back to Recovery

- To ensure safe transfer back to the recovery area all patients are required to be transferred back always on a trolley.
- Team member will activate the call system at the end of the procedure.
- HCA or nurse from recovery will move the trolley to the modular lab from recovery area to help with the patients transfer back to recovery.
- Staff Members to ensure Female Patients dignity is maintained. Curtains to be drawn round the bed spaces in the female spaces if Male patients are transferred back to recovery.

Transfer of Inpatients to Catheter Suite

While the construction work is ongoing, the main corridor between CCU door (where Ambulatory Heart Failure - AHF - is placed) and cardiac catheter suite will be closed. Therefore, all inpatients must transfer using CCU Corridor entrance (near AHF). While the work is being carried essential and effective communication are paramount between each department. Ensuring Privacy and Dignity is maintained while patients are transferred through the CCU Department Pre/ Post Procedure.

This also includes potentially severely unwell patients from ED / ITU however they might require to be transferred to the lab on a trolley and not bed.

PPCI Service Provision

The PPCI Service will continue in the modular labs. Access to the cath lab recover for PPCI patients has not changed, they will continue to access the department via CCU main entrance as direct admission from the Ambulance Service.

Event of the Deteriorating patient / Emergency situation in the Modular Lab

- In the event of patients becoming unwell and deteriorating while in the modular labs, any staff member in the modular lab will require to contact 2222 to ask for the resuscitation team support the Catheter Suite Department in the Temporary labs through the Recovery Female side. Out of Hours Azurion Phillips Temporary modular Lab (Cath Lab 1) will be used.
- The circulating nurse will need to pull the emergency buzzer three times to ask for support which will be provided by the nursing team in recovery.
- The space in the modular labs is more limited and therefore might not be able to welcome too many people during an emergency. This might also cause delay to provide efficient resuscitation. This will be part of one of the clinical risks related to the modular labs.
- To Ensure effective Communication is delivered, a nurse will be allocated, and name placed on the Recovery area board who is responsible if these should arise.
- In the event of a Cardiac arrest during procedure, duties will be allocated as follows: Consultant will lead the Resuscitation process, Physiologist – Defibrillator, circulating nurse – administer emergency drugs, Scrub nurse – Maintain the airway, Radiographer – Chest compressions and another nurse from the Recovery will be required to assess until the Resuscitation team arrives.
- Resuscitation Team will be directed to the Modular Labs by the Recovery Allocated Nurse, which is identified during the safety huddles in the Morning/ Afternoon
- Allocated name Nurse will attend and support /assist with the emergency situations in the Modular Laboratories.
- Staff attending should remain in a calm manner when walking through the Female side of the Recovery area.
- Smaller resuscitation trolleys will be placed in the modular labs, the resuscitation team have been informed and will provide the department with the new trolleys.
- Anaesthetic trolley (Blue Trolley) the Oxylog Anaesthetic machine will be stored on top of the anaesthetic trolley.
- 3 Oxygen cylinders will be stored next to the Anaesthetic Machine. In the unnecessary event 4 extra Oxygen cylinders will be stored in the Recovery area Bed 5.

Event of a Deceased patient in the Modular Labs

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In the event of a patient dying during a procedure in the lab, communication must be made between the Cath Lab NIC and Coronary care unit NIC. The PPCI bed in CCU will need to be allocated to the deceased patient until they can be transferred to the mortuary. Staff must ensure that all the patients' recovery curtains (including male side in this case) in recovery area have been closed before the deceased patient is transferred.

Staff must also ensure that there are no patients in the toilets before the deceased patient is moved from the Cath Lab to CCU.

Waste Disposal

- To ensure waste is safely moved from the Modular lab to the Disposal hold – This includes Yellow, clear and linen bags.
- Bags to be placed in covered trolley and transferred through the female recovery side ensuring clinical waste is not exposed to patients.
- Waste needs to be covered at all times. The Cath lab team will be responsible to make sure all the waste is appropriately disposed using the dirty utility.

Fire Exists

3 Fire exists are Identified - Locations are CCU, Catheter Suite Entrance 7 and off the Modular Lab Ramp.

7. Information Governance

The department will need to share information about this SOP with all the cardiology users and make sure that they are able to understand the changes required to maintain patient and staff safety.

Notes around the cardiology procedure are going to be shared with all the individuals involved in the care of the patients requiring the surgical procedure.

Central monitoring is placed on the nursing station in recovery and will allow to monitor the patients' vital parameters. Patient track, electronic patient record to measure patients' vital parameters is also in use in the cardiac catheter suite recovery room.

8. References and Associated/Linked Documents

< *Applicable regulations, national guidelines, local clinical guidelines or policies this sits under, resources, SOP/Template/Form links* >

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