ICU - Documentation - ICU Impella in iView

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Digital Health Quick Reference Guide

This Quick Reference Guide will explain how to:

Document Impella device management, safety checks, measurements and observations within Interactive View and Fluid Balance (iView) in conjunction with Impella guidelines and policies.
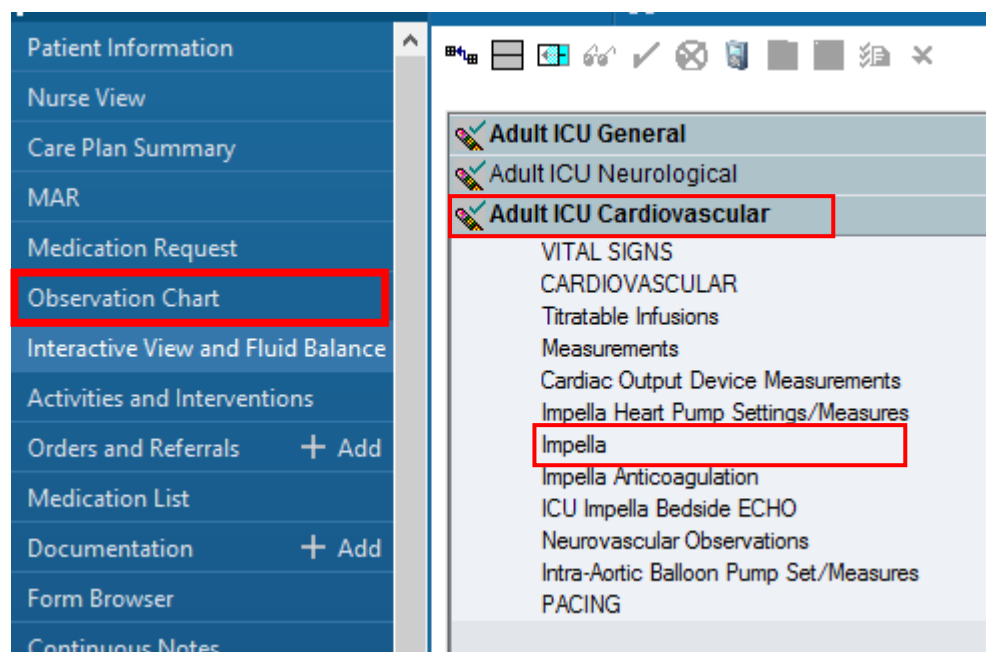
Definitions:

Impella – Impella is a percutaneous left ventricular assist device used in intensive care settings to provide temporary ventricular support in patients with depressed heart function.

For more information, refer to
- *QRG: BMDI Device Association, Recording Observations and Disassociation*
- *QRG: Documentation- ICU Cardiac Output Devices*
- *Policy and procedures: Impella CP with Smart Assist Guidelines*

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1. Go to the 'Adult ICU Cardiovascular' band within iView
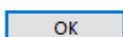

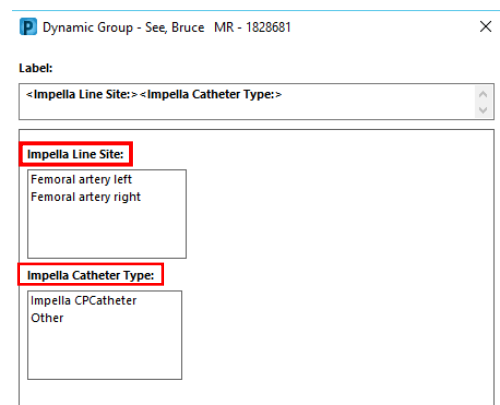2. Commence documentation for the Impella device in the 'Impella' band.

Click on the dynamic group icon

Select the appropriate Impella Line Site and Impella Catheter Type and click

OK

Note: this device can also be added and managed from within **'Adult ICU Lines-Devices' band**

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3. Document appropriate observations and safety checklist for the Impella device and click on the ✔ to finalise

Handy Hint – Impella Check -in Assessment

Sections to complete the initial Impella Check-in Assessment will be on view when the 'Activity' selected is se to 'Insert New Site or Present on Admission/ Transfer'. Check all boxes accordingly.

4. Refer to *QRG: Documentation- ICU Cardiac Output Devices* for documentation of pulmonary artery catheters and associated observations from the bedside monitor, HemoSphere monitor and/or Impella AIC screen accordingly.

Noting manual entry of observations will be required from all monitors/devices external to the bedside monitoring.

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5. Document hourly measurements in the **'Impella Heart Pump Settings/Measures'** by double clicking on relevant cells and manually inputting observations

⊿ Impella Heart Pump Settings/Measures	
Impella Flow	L/min
Placement Signal Sys/Dia	mmHg
Motor Current Sys/Dia (mA)	mA
P-Level	
SvO2	%
Purge Flow Rate (ml/hr)	mL/hr
Purge Pressure (mmHg)	mmHg
CPO (4 hrly)	
PaP Index	
Catheter Marking at Hub (cm)	cm
Brain Tissue Oxygenation	%
Limb Tissue Oxygenation (%)	%

Sign by clicking on ✔ to finalise the documentation

❗ Important – Calculations and Observation results

- iView will not calculate and provide the results for fields that rely on calculations
- Any observations that rely on a calculated result to be entered where the calculation is **NOT** undertaken and provided by a monitor/ device as the source of truth, must be calculated manually
- PaP Index must be manually calculated and result entered into the cell

Pulmonary Artery Pulsatility Index (PAPI): **sPAP – dPAP**

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6. Review/ enter Anticoagulation Results from 'Impella Anticoagulation'. This section will pull in APTT results once generated by Pathology. Activated Clotting Time can be entered manually when undertaken.

⊿ Impella Anticoagulation	
Activated Clotting Time	
APTT	

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7. Impella Echocardiogram (ECHO) results can be reviewed within iView amongst all Impella observations within **'ICU Impella Bedside ECHO'**

Note: **These must be manually entered by the ICU Medical Officer**

⊿ ICU Impella Bedside ECHO	
ICU Name of MO undertaking ECHO	
LV end diastolic diameter	cm
Impella position to AV	cm
LV Ejection Fraction (%)	%
Mitral lateral S	
TAPSE	mm
TV S	
Aortic VTI	cm
AoV Ejection Time	msec
ECHO Results Comments	
Assessment and Procedure	

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8. Additional Neurovascular Observations can be manually entered within **'Neurovascular Observations'** as required. Complete fields as needed and sign by clicking on the ✔ to finalise

9. Review Medication Administration Window for medications and infusions, including Impella Purge fluids.
Also refer to

-   *QRG: Medications – Medication Administration Wizard (MAW) – Access & Administration*

QRG: Infusions- Commencing a Truly Continuous Infusion - Nursing & Midwifery