

# ICU - Documentation - ICU Impella in iView



## 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.

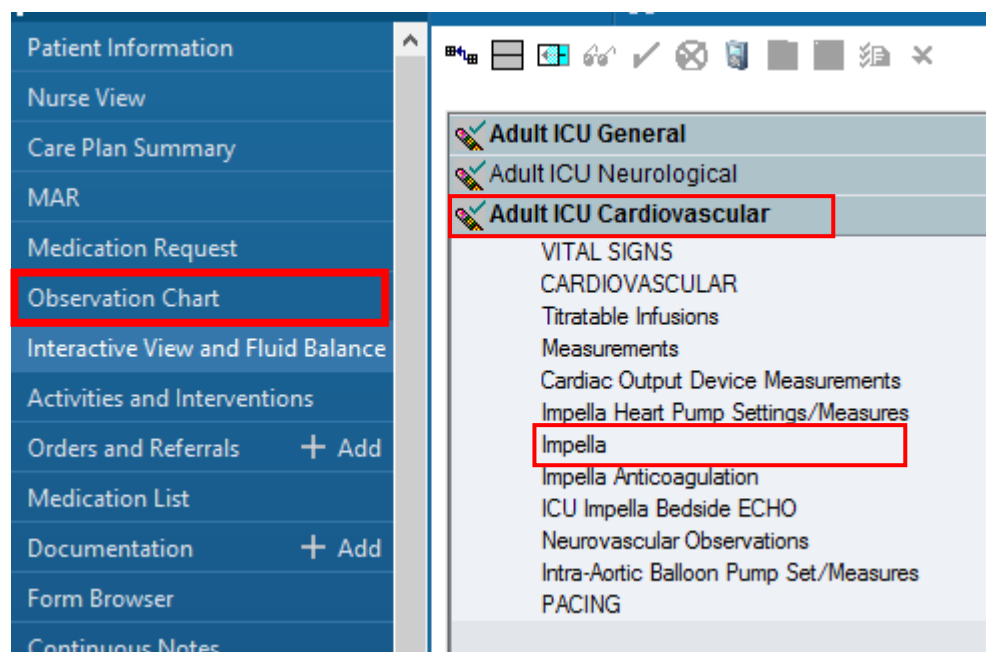
### Definitions:

**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**

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

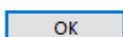


2. Commence documentation for the Impella device in the 'Impella' band.

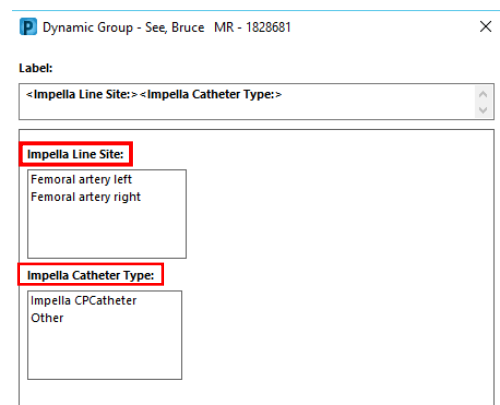
Click on the dynamic group icon




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



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





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

Impella	
< Femoral artery left Impella CPcatheter>	
Activity	Present on admission/transfer
Present On Admission Insert Date/Time	08/06/2023 10:31
Department Placing Line	ICU
Insertion level at hub (cm)	
Check-in Assessment	Baseline ECHO attended, CM marking ...
Site Care	Cleaned site, Observed
Drive Line Exit Site Condition	
Dressing Condition	Dry, Intact
Dressing Activity	Reinforced
Dressing Type	Tegaderm
Unexpected Events	
Patient Indicated Response	
Spare Console at Bedside	Yes
Spare Purge Set present	Yes
Secure Grey Cable Connections	Connection Secure
Console(s) plugged into AC power	Yes
Review APTT	Out of prescribed range, Doctor Aware
Review Heparin Log	Done
Review Dressing	Done
Review Radial Compression Device	Done
Purge Solution	Done
Purge Cassette Change	Done



### Handy Hint – Impella Check -in Assessment

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

Impella	
< Femoral artery left Impella CPcatheter>	
Activity	Present on admi...
Present On Admission Insert Date/Time	
Department Placing Line	
Insertion level at hub (cm)	cm
Check-in Assessment	Check-in Assessment
Site Care	<input type="checkbox"/> Baseline ECHO attended
Drive Line Exit Site Condition	<input type="checkbox"/> CM marking on Impella catheter nearest to sheath recorded
Dressing Condition	<input type="checkbox"/> Connections secured
Dressing Activity	<input type="checkbox"/> Limb position corrected
Dressing Type	<input type="checkbox"/> Tuohy- Borst valve is locked
Unexpected Events	<input type="checkbox"/> Unkinked
Patient Indicated Response	


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.

Cardiac Output Device Measurements
Impella Heart Pump Settings/Measures
Impella
Impella Anticoagulation
ICU Impella Bedside ECHO
Neurovascular Observations



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**

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	

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	



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

Neurovascular Observations	
Assessment/Procedure	
Left Upper Limb Neurovascular Obs	
Skin Colour	
Left Upper Limb Warmth	
Movement	
Sensation	
Swelling	
Pulse Type	
Pulses	
Capillary Refill	
Capillary Refill Comment	
Comments	
Right Upper Limb Neurovascular Obs	
Skin Colour	
Right Upper Limb Warmth	
Movement	
Sensation	
Swelling	
Pulse Type	
Pulses	
Capillary Refill	
Capillary Refill Comment	
Comments	
Left Lower Limb Neurovascular Obs	
Right Lower Limb Neurovascular Obs	

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**