

Digital Health Quick Reference Guide

14:00

ICU - Documentation - ICU Cardiac Output Devices in iView

This Quick Reference Guide will explain how to:

Document observations accurately in relation to invasive Cardiac Output Devices including Pulse Contour Cardiac Output (PiCCO) and Pulmonary Artery Catheters within EMR.

Definitions:

Cardiac output Devices - Refers to pulmonary artery catheters or Pulse Contour Cardiac Output (PiCCOs). **Device Association** - Refers to the bedside monitor being associated to the patient's chart to allow the observations to be pulled directly into interactive view and fluid balance (iView).

1. Associate the bedside monitor to the patient's chart *For more information, see QRG: BMDI – Device Association, recording observations and Disassociation*

2. Go to the 'Adult ICU Cardiovascular' in Interactive View and Fluid balance

Interactive View and Fluid Balance

3. Go to 'Cardiac Output Device Measurements'	Cardiac Output Device Measurements Impella Heart Pump Settings/Measures Impella Impella Anticoagulation ICU Impella Bedside ECHO Neurovascular Observations Intra-Aortic Balloon Pump Set/Measures PACING	Cardiac Output Device Measurements	
		Cardiac Output Device	
		Cardiac Output	L/min
		Cardiac Index	L/min/m2
		Continuous Cardiac Output	L/min
		Continuous Cardiac Index	L/min/m2

4. Depending on which Cardiac Output Device is selected, the observations and measurements specific to that device will appear

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Cardiac Output Device Measurements		Cardiac Output Device Measurements	
Cardiac Output Device	Pulmonary Artery Cat	Cardiac Output Device	Pulse Contour (PiCCO)
Cardiac Output L/min		Cardiac Output L/min	
Cardiac Index L/min/m2	2	Cardiac Index L/min/m2	
Continuous Cardiac Output L/min		Continuous Cardiac Output L/min	
Continuous Cardiac Index L/min/m2		Continuous Cardiac Index L/min/m2	
Stroke Volume mL/beat		Stroke Volume mL/beat	
Stroke Volume Index mL/m2/beat		Stroke Volume Index mL/m2/beat	
Systemic Vascular Resistance dyne-sec/cm5		Systemic Vascular Resistance dyne-sec/cm5	
Systemic Vascular Resistance Index dyne-sec/cm5		Systemic Vascular Resistance Index dyne-sec/cm5	
Stroke Volume Variation %		Stroke Volume Variation %	
Cardiac Function Index		Cardiac Function Index	
Global Ejection Fraction		Global Ejection Fraction	
SvO2 %	6	SvO2 %	
SBP/DBP Invasive mmHg		SBP/DBP Invasive mmHg	
📾 Mean Arterial Pressure, Invasive Calc 🛛 mmHg		Mean Arterial Pressure, Invasive Calc mmHg	
Pulse Pressure Difference mmHg		Pulse Pressure Difference mmHg	
PASP/PADP mmHg		PASP/PADP mmHg	
Pulmonary Artery Mean Pressure mmHg		Pulmonany Arteny Mean Pressure mmHg	
Right Atrial Pressure mmHg	\diamond	Extravascular Lung Water Index mL/kg	\diamond
Pulmonary Artery Wedge Pressure	\diamond	Extravascular Lung Water mL	\diamond
Pulmonary Vascular Resistance		Intrathoracic Blood Volume Index mL/m2	\diamond
Index dyne-sec/cm5	\diamond	Intrathoracic Blood Volume mL	\diamond
Pulmonary Vascular Resistancedyne-sec/cm5	\diamond	Global End Diastolic Volume Index mL/m2	\diamond
Left Ventricular Stroke Work g-m	\diamond	Global End Diastolic Volume mL	\diamond
Left Ventricular Stroke Work Index g-m/m2	\diamond	Pulse Pressure Variation	\diamond
Right Ventricular Stroke Work g-m	\diamond	🗘 dPmax	\diamond
Right Ventricular Stroke Work Index g-m/m2	\diamond		
Left Cardiac Work kg-m	\diamond		
Left Cardiac Work Index kg-m/m2	\diamond		
Right Cardiac Work kg-m	\diamond		
Right Cardiac Work Index kg-m/m2	\diamond		
Left Ventricular End Diastolic Pressure mmHg	\diamond		
Right Ventricular Ejection Fraction %	\diamond		
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5. If the device has been associated, double click on the blue header cell below the selected time. A tick box will appear prompting a selection for Cardiac Output Device. Re-select device.

Observations from the monitor begin to auto populate the required fields accordingly within this section in purple.

NOTE: If the device has **not** been associated, double click into the relevant, individual cells and manually enter observations

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Cardiac Output Device Measu	rements				
🐼 Cardiac Output Device		Cardiac Ou	tput Device	X	
Cardiac Output	L/min	Pulse Cont	our (PiCCO)		
Cardiac Index	L/min/m2	Pulmonary	Artery Cath	eter	
Continuous Cardiac Output	L/min				
Continuous Cardiac Index	L/min/m2				
Stroke Volume	mL/beat				
Stroke Volume Index	mL/m2/beat				
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Handy Hint - Capturing Observations with Device Association when Hemodynamic Calculations have been generated

 iView is *hourly* view by default – Right click the date time header and select Actual to capture these results once calculated at the monitor

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	Actual	

- There is a **5 minute lookback** period This means that within 5 minutes of generating these results post **"RUN"** there can be a delay in bringing through new observations
- Refresh Powerchart to update Actual time and allow for 5 minute lookback period or consider manual entry

6. Review all data prior to finalising observations. All unverified observations in purple will save to the patient's chart when finalised. Modify/ enter/ delete observations manually if required by double clicking into the cell.

Important – Additional Device Association Information

External Devices/monitors that are **not directly** connected to the bedside monitor will **NOT** be Associated to the patient chart and will not populate sections with observations

Eg. HemoSphere, Impella Smart Assist device and Intra-aortic Balloon Pump Devices.

- These external devices will require manual entry of observations into the patient's chart
- For more information, see QRG: ICU Documentation ICU Impella in iView

7. Sign and finalise observations by clicking on the green tick

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8. Add/ manage the Lines as per current policies within iView by creating a dynamic group. Complete observations for the relevant lines and devices in the 'Adult ICU Lines – Devices' tab of **iView**.

For more information, see QRG: Clinical Care – ICU Lines & Devices, QRG: Clinical Care Lines and Devices

