

Approved Sample Type/s: ONLY heparinised whole blood is suitable

Device Limitations



- ❖ Accuracy of results is dependent on pre-analytical quality of the sample, e.g. spurious haemoglobin concentrations resulting from inadequately mixed samples. False positive Troponin results due to inadequately filling heparinised green top tubes (over or under filling).
- ❖ For instances where results do not upload to eMR, ensure printed results are photocopied before filing.
- ❖ Propofol, Thiopental sodium & Hydroxyurea cause interference.

Cartridges must be at room temperature for at least 5 minutes before use.

Triage patient and choose the correct cartridge(s) for the test(s) required. Check expiry, both refrigerated and/or room temperature.

Recommended order of testing:

Cartridge	Analytes	Time to test after collection	Analysis time
CG4+	Blood acid/base including lactate & pO ₂	Immediately (<15min for valid lactate)	3 minutes
Chem8+	Basic chemistries: EUC, iCa, Glucose, Haemoglobin	30 minutes (<10min for valid iCa)	3 minutes
cTnl	Cardiac Troponin I	30 minutes	10 minutes

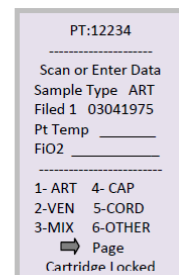
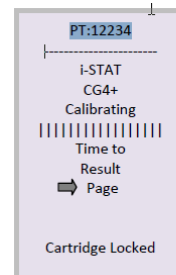
Collect venous sample, large vein of anterior cubital fossa preferred, via vacuum tube system or needle and syringe. Or perform an "arterial stab" for arterial blood gases –specialized collection.

Test Procedure

- a) Remove the i-STAT from DRC (cradle) and place on a flat surface.
- b) Turn the device on by pressing the power button.
- c) From the Test Menu select:
 - i. 2 – iSTAT cartridge
 - ii. Scan or enter Operator ID (stafflink number)
 - iii. Scan or enter Patient ID (**unknown ID, see below**)
 - iv. Scan cartridge barcode

From **Insert Cartridge** screen, you have 15 minutes to insert your loaded cartridge.

- d) Carefully dispense cartridge onto clean flat surface taking care to only hold by the sides.
- e) Gently mix sample by inverting and rolling.
- f) Dispense blood into cartridge well. Ensure sample fills to the indicator mark.
- g) Close the cap and insert into the i-STAT.
- h) When the countdown display appears press the arrow, page key to go to next screen.
- i) Enter additional information:
 - i. Sample type (ART = arterial, VEN = venous, etc.)
 - ii. Enter patient's DOB in Field 1 in the format DDMMYYYY.
- j) Press the arrow key to return to previous page.
- k) Results will display when complete.
- l) Press "1 – Test Option" to safely remove the cartridge.



If patient ID is **UNKNOWN** follow Positive Patient Identification Procedure.

Scan the Unknown Patient barcode or enter 999999999 ("nine nines") as patient ID. Ensure DOB is entered as per instructions above.

Fill out an **Unknown or Incorrect Patients – Reconciliation Form** & return to PoCT Coordinator.