


Title of Document ABL90 FLEX Plus Blood Gas Analyser Information guide			 MAKING EVERY TEST MATTER
Version Number 5.0	Q Pulse Reference Number POC-PINS-4	Author Haval Ozgun	

ABL90 FLEX Plus Blood Gas Analyser

Information Guide

Any issues concerning access to analysers, changes in barcodes, training requirements or troubleshooting/breakdown

Contact POCT Team:

Monday to Friday 9am to 5pm

St. George's (SGH): 0208 725 4450 poct@stgeorges.nhs.uk

Kingston (KH): 0208 934 3299 khft.poct@nhs.net


Croydon (CUH): 0208 401 3000 x 4759 Blp: 213 Ch-tr.cuhpoc@nhs.net

Royal National Orthopaedic Hospital (RNOH): 0208 909 5613 rnoh.poct@nhs.net

THERE IS NO POCT COVER OUT OF HOURS

- Only replace consumables ONCE (if trained to do so)
- In the event of a breakdown, speak to your ward Key Operator for this device
- Or call Radiometer for advice out-of-hours on 01293 517599
- Report any issues to POCT the next working day via email as listed above.






Thank you – POCT

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How to run a blood gas sample

Short form instructions


Radiometer **ABL90 FLEX PLUS** with syringe samples

	1. If using safePICO syringe: <i>If not, then go to step 2</i> Place syringe into the automatic sample mixer		2. Ensure analyser is in Ready mode and desired parameters are in green
3. Logon to the analyser 4. Tap the Syringe button and inlet will open		5. Align syringe with inlet gasket 6. Push the syringe onto the inlet	
7. Hold syringe in place while the sample is aspirated 8. When prompted gently remove the syringe , the inlet will close automatically		9. Enter appropriate patient information when prompted Wait for results	<h1>Done!</h1>

1. Use Radiometer *safePICO* Aspirator syringe, remove the cap and expel the air from the syringe.
2. Aspirate minimum 1 mL of blood sample to balance ratio between heparin and blood in the syringe and put safety cap on straightaway.
3. Gently tap the syringe to raise the remaining air bubbles and quickly push the plunch in order to remove the remaining air.
4. Gently invert the syringe horizontally and vertically to properly mix the sample avoiding haemolyses until you reach the analyser.
5. Place the syringe in the analyser mixing area until the blue light stop flashing.

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- 6. Log onto the blood gas analyser using the barcode from your ID card (PLEASE DO NOT SHARE BARCODES).**
- 7. Press the “Syringe” button.**
- 8. Introduce syringe to the inlet and gently push forward until you feel a resistance.**
- 9. Hold syringe in place for 5 seconds until it aspirates the sample.**
- 10. When “Remove” is highlighted, count 2 seconds and then remove sample.**
- 11. Fill in all patient demographics.**
- 12. Results will be printed automatically in 35 seconds.**
- 13. Tap “Back” and “Log off”.**

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How to run a capillary blood sample

Short form instructions

Radiometer **ABL90 FLEX PLUS** with capillary samples

	1. After drawing sample, insert mixing wire and attach end caps	2. Using the magnet gently mix the sample. Draw mixing wire to one end of the tube	3. Ensure analyser is in Ready mode and parameters are in green	4. Logon to the analyser with your password
	5. Remove end caps Attach clot catcher to Opposite END of capillary tube away from mixing wire		6. Tap the Capillary button on screen. The analyser opens the inlet	
7. Holding onto the clot catcher, align capillary tube with inlet gasket and gently press inwards		8. Hold tube in place while the sample is aspirated 9. Gently remove the tube when prompted & the inlet will close automatically		10. Enter appropriate patient information when prompted Wait for results
Done!				

1. Fill the capillary tube with patient sample and ensure there are **NO AIR BUBBLES**.
2. Add mixing wire inside the capillary tube and put the caps on both ends.
3. Sample size of 45 microliters which is the full capillary tube after the mixing wire is added is required for analysis.
4. Use magnet to mix patient sample and heparin within the capillary tube 10 to 12 times.
5. Once mixing is complete remove caps from both ends of the capillary tube. (Metal wire remains inside the capillary tube).
6. Use clot-catcher on one end of the capillary tube.

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7. Log onto the blood gas analyser using the barcode from your ID card (PLEASE DO NOT SHARE BARCODES).

8. Press the “Capillary” button.

9. Introduce sample with the clot-catcher to the inlet and push 2 millimetres.

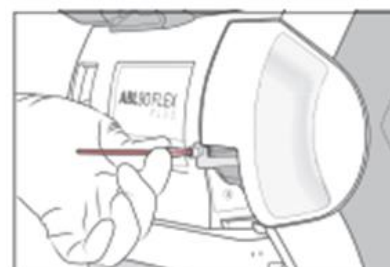
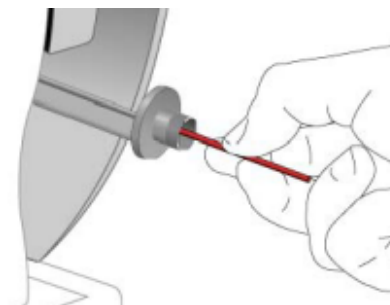
10. Hold capillary sample in place for 5 seconds until the sample is aspirated.


11. When “Remove” is highlighted, remove sample.

12. Fill in all patient demographics.

13. Results will be printed automatically in 35 seconds.

14. Finally go “Back” and “Log off”.



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How to replace solution pack

- 1. Start video guidance OR tap Menu>Analyser status>Consumables>Replace>Solution pack**
Press to start video guidance and follow the instructions on the screen.
- 2. Activate the new solution pack by pulling out the red plastic from the side of the solution pack.**



- 3. Then firmly press down evenly with both hands until you stop hearing the clicking noise.**
- 4. Once activated insert solution pack into its compartment on the analyser by pushing firmly with both hands until it clicks in place.**
- 5. Tap the OK button.**
- 6. Start-up will take up to 10 minutes.**




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How to replace sensor cassette

- 1. Start video guidance OR tap Menu>Analyser status>Consumables>Replace>Sensor Cassette
Press to start video guidance and follow the instructions on the screen.**
- 2. Remove old sensor cassette from the analyser when the doorway opens.**
- 3. Open a new sensor cassette pack.**
- 4. Replace the new sensor cassette.**
- 5. Tap the OK button.**
- 6. Start-up will take up to 45 to 50 minutes.**




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Interpretation of abnormal results

ALWAYS discuss any abnormal results with a member of your Clinical Team before initiating patient treatment.

*******Internal studies have shown that:

1. **Potassium** - ABG potassium results will be slightly lower than the laboratory potassium.
2. **Bilirubin** - Send a confirmatory sample to the laboratory before initiating phototherapy.

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Location of the Blood Gas Analysers

SGH

Atkinson Morley Wing

1st Floor: Cardiac ICU, CTICU-A and Cardiac Theatres

2nd Floor: Neuro ICU, Neuro Theatres, Day Unit Neuro Theatres and GICU Brodie

St. James Wing

Ground Floor: ED RAT (*does bilirubin*), ED Urgent Care, ED Resus (*does creatinine*) and Chest Clinic

1st Floor: GICU and HDU

3rd Floor: Marnham


Lanesborough Wing

1st Floor: NNU, Delivery Suite and PICU (*bilirubin on all*)

4th Floor: Gwillim (*does bilirubin*) and Champney's

Jenner Wing

Basement POCT office: POC Spare 2

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CUH

BLUE ZONE

Ground Floor: AE Resus (*does bilirubin*), AE Majors (*does bilirubin*), AE Majors Isolation, AE-Urgent Care, ITU, HDU

1st Floor: AMU


2nd Floor: Theatres

GREEN ZONE

Ground Floor: SCBU (*does bilirubin*), Labour (*does bilirubin*)

ORANGE ZONE

Ground Floor: Day Surgery Unit, Heathfield 2

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KH

Kingston Surgical Centre

3rd Floor: AAU

4th Floor: Alex

Esher Wing

Ground Floor: ITU, Recovery

6th Floor: Hamble

Maternity Wing

**3rd Floor: NNU (*does bilirubin*), Maternity Theatres
(*does bilirubin*)**

RNOH

Ground Floor: ICU, CHDU, Theatres