

 NATIONAL ORTHOPAEDIC HOSPITAL CAPPAGH	Document Number:	WI-BIO-4
	Revision Number:	5
	Issue Date:	26/09/2024
	Next Review:	See Q-Pulse Record
NATIONAL ORTHOPAEDIC HOSPITAL CAPPAGH, FINGLAS, DUBLIN 11.		OPERATION OF THE RADIOMETER ABL90 FLEX PLUS FOR USERS


Sampling procedure with *safePICO*




Prepare the puncture site according to local standards.
Preset the plunger to the desired volume (0.7mL - 1.5mL).




Expose the needle shaft by holding on to the barrel with one hand and pulling the needle sheath straight off without twisting with the other hand.
Perform and terminate the puncture according to your standard procedures.



Still holding the sampler in one hand, place your thumb on the thumb plate. Without pressing the plate down, push gently to slide the protective shield over the exposed needle until a click is heard. The click signifies that the protective shield is safely locked.





Remove the needle and the needle shield device by holding on to the syringe-barrel finger grips while twisting the needle shield device with the other hand.
Discard the needle shield device and needle in a sharps container.



Holding on to the syringe barrel, firmly place the *safeTIPCAP* on the syringe luer tip.
Tap the syringe to move the bubbles to the top of the sampler.
Press the plunger gently until the blood comes into contact with the vent material inside the *safeTIPCAP* or until resistance indicates that the *safeTIPCAP* is sealed.
Mix the sample thoroughly by inverting the sampler several times and rolling it between the palms of your hands.

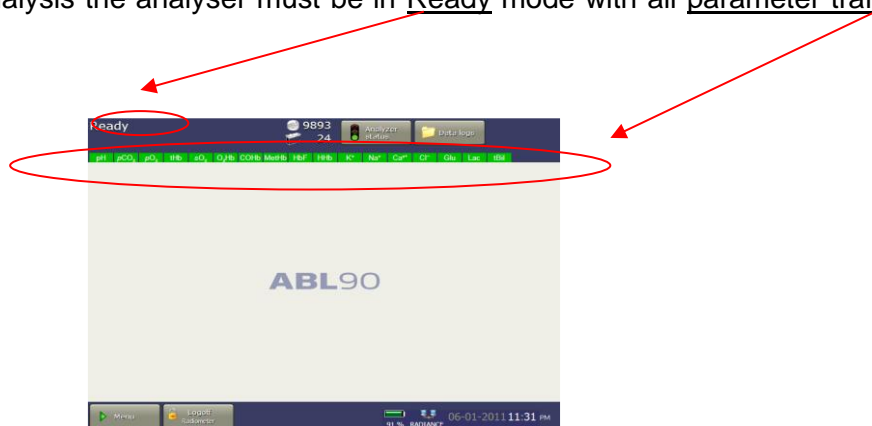
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1. Check Analyser status

- To proceed with analysis the analyser must be in Ready mode with all parameter traffic lights green.




Red traffic lights indicate that parameters are not available and that there is a problem with the analyser. Results will not be obtainable for any parameter with a Red traffic light however all other parameters with a Green indication are available and sample analysis may be carried out if desired. Please report any issues to the Biochemistry department Ext.2472

- If analyser is busy the information window in the top left-hand corner of the screen will indicate time to completion of current task. You must not interrupt the progress of the task being performed.

2. Log on to the analyser


- Log-On** by using the in-built barcode scanner on the analyser to enter your operator password, (located on your CNOH id badge). The scanner is located beneath the Radiometer logo below the screen.
- Note*** only staff trained as competent to use the Analyser will be allowed an operator password for access.

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In-built barcode scanner



3. Sample Preparation




Holding on to the syringe barrel, firmly place the safeTIPCAP on the syringe luer tip.
 Tap the syringe to move the bubbles to the top of the sampler.
 Press the plunger gently until the blood comes into contact with the vent material inside the safeTIPCAP or until resistance indicates that the safeTIPCAP is sealed.
 Mix the sample thoroughly by inverting the sampler several times and rolling it between the palms of your hands.

4. Place sample in the mixing port



- Mixing is complete when the light begins to flash (approximately 5 seconds).

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5. Analyse Sample


- Check that the sample port traffic light is green before performing analysis – you must wait if the light is not green. The information window in the top left-hand corner of the screen will indicate time to completion of current task. You must not interrupt the progress of the task being performed.

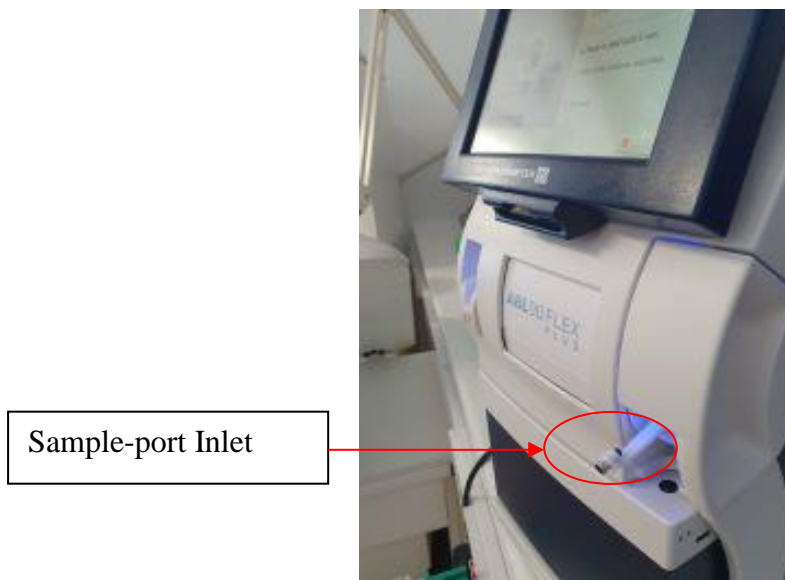
NOTE* DO NOT TRY TO INJECT THE SAMPLE FROM THE SYRINGE AS THIS WILL DAMAGE THE GAS MACHINE.



ABL90 Flex Plus

- From the main screen select syringe when testing with the Safe Pico syringe. This will automatically extend the inlet probe outwards.
- Place the sample on the inlet gasket and push in the sample which will extend the probe in to the syringe. Hold the sample for 5 seconds and follow the on-screen instructions. The analyser will prompt when to remove the sample.

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- When prompted by the analyser enter patient's MRN by scanning the patient barcode (if available), or entering manually.
- Patient demographics appear on screen. If the patient has not been tested on the analyser previously all their details will need to be entered manually. **Results will not be reported until the patients MRN, Name and DOB have been entered. Operators should also enter the sex and sample type.**
- Confirm that these demographics are correct. If incorrect, re-enter the correct hospital number into the patient ID line and press the request touch-key.
- The result screen appears when the analyser has finished measuring. Verify that patient name and hospital number are correct.
- These results are automatically printed.
- Press the Log Off button in the bottom left hand corner of the screen.
- Clean any blood spillages that may have occurred in the sample port area, on the analyser or the surrounding bench area (taking appropriate safety precautions).
- Dispose of the patient sample in the sharps bin provided as per hospital policy.

Associated SOP's

- PP-BIO-10 Operation of the ABL90 Flex Plus Blood Gas Analyser.