

Modernisation Initiative

kidney disease

Improving local healthcare

Quick Guide

Gambro AK Machine

Quick Guide

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- This guide is intended to act as a reminder of procedures that you have already been taught.
- If you have any questions or are unsure of any of the procedures you should ask a member of the Nursing Staff

Preparing For Dialysis

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Prior to each dialysis session you should check and record your:

- **Weight**
- **Blood Pressure** – sitting and standing
- **Temperature**

Preparing the dialysis machine

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1. Start machine – Press On/Off switch
2. Press and hold the heat disinfect button until it lights up
3. Collect and check equipment needed for dialysis e.g. Lines, concentrate, saline, packs, needles, heparin etc (see picture 01)
4. Hang saline
5. Attach dialyser and blood lines
6. When rinse/drain light flashes – press and hold until light goes out – machine will then perform function check (F.Ch – see picture 02)

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01



02

Preparing the dialysis machine

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7. When FCH complete, inset "A" probe into concentrate (see picture 03)
8. When orange light shows, attach Bicart (see picture 04)
9. Draw up Heparin and attach to "A" blood line
10. When green light comes on & by-pass button flashes connect fluid tubes to dialyser
11. Prime blood lines with saline
12. When priming volume achieved re-circulate

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03



04

Programming the dialysis machine

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Programme the machine with your required:

- Dialysis time
- Total fluid loss/ultrafiltration volume/profile
- Heparin dose and stop time

Caring for your fistula

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1. Wash hands and fistula site thoroughly
2. Prepare “put-on” pack
3. Check fistula for any changes and assess needling sites
4. Clean hands
5. Clean fistula with antiseptic solution
6. Inject local anaesthetic if required
7. Insert arterial needle, check flow, flush and tape in place
8. Insert venous needle, check flow, flush and tape in place

Starting dialysis

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1. Stop re-circulation & clamp off saline
2. Attach arterial and venous lines to needles
3. Start blood flow at 100mls per minute
4. Tape needles and lines in place
5. Gradually increase blood flow (BFR) to desired rate
6. Give heparin bolus

Check and record:


- Arterial and venous pressure
- Check heparin:
 - is on
 - check hourly rate
 - check stop time
 - volume in syringe
- Time and U/F volume

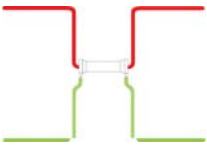
Starting dialysis

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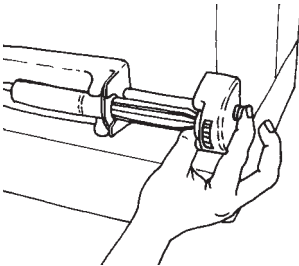
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1.  Press the **Blood pump** button to start the blood flow.

2.  When blood is detected in the priming detector, the blood side of the flow path lights up red.

The following buttons flash:

- START UF STOP
- Venous pressure
- Arterial pressure
- TMP

3.  If the heparin bolus is given from the syringe on machine, nip the lower ends of the syringe holder and the steel rod together and push forwards in order to deliver the prescribed dose.

4.  Start the fluid removal by pressing the flashing **START UF STOP** button.

Starting dialysis – machine check

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Six function keys should be on:

1. On/off
2. Volume control
3. Bicarbonate
4. Heparin
5. Blood pump
6. UF

Look for:

- Red blood flow light through dialyser
- Green dialysate light through dialyser






Machine check


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Once dialysis has been established it is important to check several factors:

-  Check that the blood path on the flow-diagram is lit and that the time clock has started to count down.
-  Check that there are no flashing lights. If so press them and check the displayed values.
-  Check that the **Attention** button is not lit. If so, press it to see what it is asking you to do (see attentions chapter 7:16-17).
-  Ensure the blood flow is at the correct speed and that there are no venous or arterial pressure alarms.
- Check that the values set are the same as your prescription.
The treatment is now established.
-  By pressing the **Select arrow** button when the information window is unlit.
- | | | | |
|------------------|----------------|-----------------|--------------|
| BL:ml/min | VP:mmHg | TMP:mmHg | UFV:l |
| 250 | 80 | 90 | 0.50 |

Blood flow, Venous pressure, TMP, and UF volume will be displayed in the window during treatment.
-  By pressing the **Hold button**, the information will remain during the treatment.

Stopping dialysis

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1. Flashing “time” button will indicate treatment finished
2. Reduce blood flow rate to 100mls per minute
3. Prepare Take Off pack
4. Disconnect saline from “A” line and attach re-circulation connector
5. Stop blood pump - clamp “A” line and needle and disconnect
6. Attach saline to the “A” line – wash back until clear

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7. Disconnect "V" line and attach to "A" port
8. Remove venous needle – apply pressure – when bleeding stops apply plaster
9. Remove arterial needle – apply pressure – when bleeding stops apply plaster
10. Record:
 - Blood pressure – sitting and standing
 - Weight
 - Temperature

After dialysis

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- Strip machine and dispose of all equipment into **yellow** bag
– needles **must** go into a **sharps** bin
- Disinfect machine – heat/chemical
- Clean external part of machine
- Dispose of soiled linen and clean chair