

ALTERNATIVE CVVHDF setup record (HEPARIN or NO ANTICOAGULATION)



Step 1 – Gather consumables, ONLY THE FLUIDS OUTLINED BELOW MAY BE USED FOR THIS PROCESS* maintain **IPC** precautions throughout

Alternative CRRT Prescription	2 X 5 ml - Heparin 1000 units / ml (2 X 5000 units), one for syringe, one for prime	1 X 50 ml BD syringe
1 X ST 150 kit	3 X 5L bags HEMOSOL B0* +/- Potassium Phosphate (or Potassium Chloride)	2 X 20 ml syringe
2 X 5 ml syringe	1 X 1L 0.9% - NaCl - 1 st Prime bag 1 X 1L 0.9% - NaCl with 5000 units heparin in 2 nd	2 X 10 ml – 0.9% NaCl

1. Baseline Bloods: ABG, FBC, Coag, U&E checked ----- **INITIAL**

2. **Prepare the heparin syringe** – as per **Alternative CRRT Prescription**

- 5000 units heparin to total volume of 50 ml with 0.9% NaCl -----
- **OR if NO heparin prescribed** use 50ml of 0.9% NaCl **only** & set rate to zero -----

3. Follow on screen instructions: **ALWAYS** select **NEW** patient for every new set &
when asked select: **CRRT → CVVHDF** -----

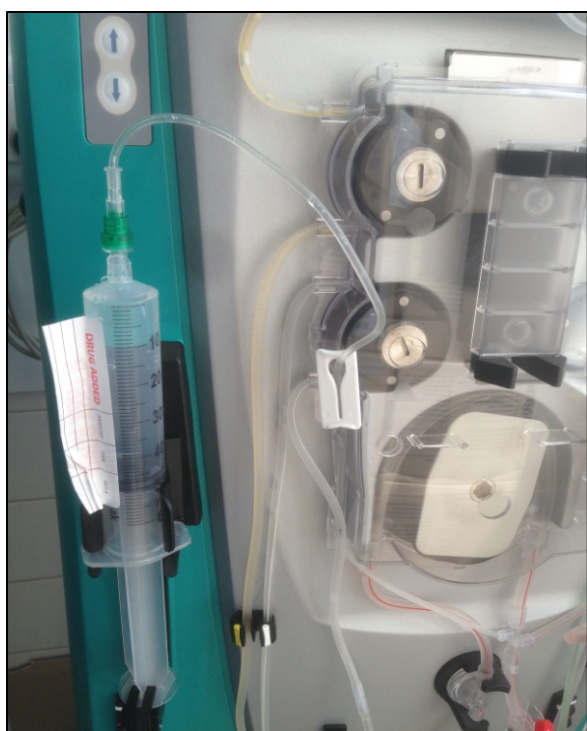
4. Choose **Systemic Heparin via Prismaflex syringe pump** choose in this mode
even if heparin is not required and use a saline syringe (see point 2) -----

5. **Follow on screen instructions** to load set and fluids

Fluid	Install to	Circuit location	Signatures
HEMOSOL B0 +/- Potassium	WHITE Scale Δ	Pre-Blood Pump (PBP)	Nurse 1 / Nurse 2
HEMOSOL B0 +/- Potassium	GREEN Scale	Dialysate	Nurse 1 / Nurse 2
HEMOSOL B0 +/- Potassium	PURPLE Scale O	Replacement (POST)	Nurse 1 / Nurse 2

6. Load Heparin / Saline syringe:

INITIAL



ENSURE SYRINGE IS CONNECTED TO THE GREEN-TIPPED SYRINGE LINE INTEGRATED INTO THE LEFT SIDE OF THE FILTER SET:

As shown on screen diagram -----

(Unlike the setup of Citrate anticoagulation, **NO** additional Calcium line or Y-connector is required)

7. Once prime complete **leave filter on Prime Test Pass screen** until the Vascath has been assessed.

- Use 5ml syringe to **remove heparin and/or clots & safely dispose.**
- Withdraw 20ml blood and then replace (<6 seconds for each) this equates to 200ml/min flow

8. **ADJUST FLUID CHAMBER** to mark shown in on screen instructions -----

9. Re-prime if filter remains static for longer than 30 mins (500ml NaCl 0.9% Manual prime) -----

10. Follow programming instructions: **Refer to prescription** based on patient's ACTUAL body weight
(See Fig 1)

- programme prescribed fluid removal
- leave blood flow at **100 ml/min** until the filter is fully primed with blood
- **Leave Pre/Post setting as POST** -----

11. Set heparin rate to protocol if required (or set to **0ml/hr** for **no anticoagulation**) -----
(Check syringe and amount of heparin delivered hourly, **but do not add to fluid balance chart**)

12. **Two Nurse check of prescription:** Flow rates & Anticoagulation Rate -----

Fig 1.

Patient's ACTUAL Weight Kg	Blood flow ml/min	PBP Pre blood pump ml/hr	Dialysate MI/hr	Replacement post filter ml/hr	Treatment dose obtained ml/kg/hr
50	Achieve speeds of 200-250 To Filtration fraction	350	700	350	28
60		400	800	400	27
70		450	900	450	26
80		500	1000	500	25
90		550	1100	550	24
100		600	1200	600	24
110		650	1300	650	26
120		700	1400	700	23
130		750	1500	750	23

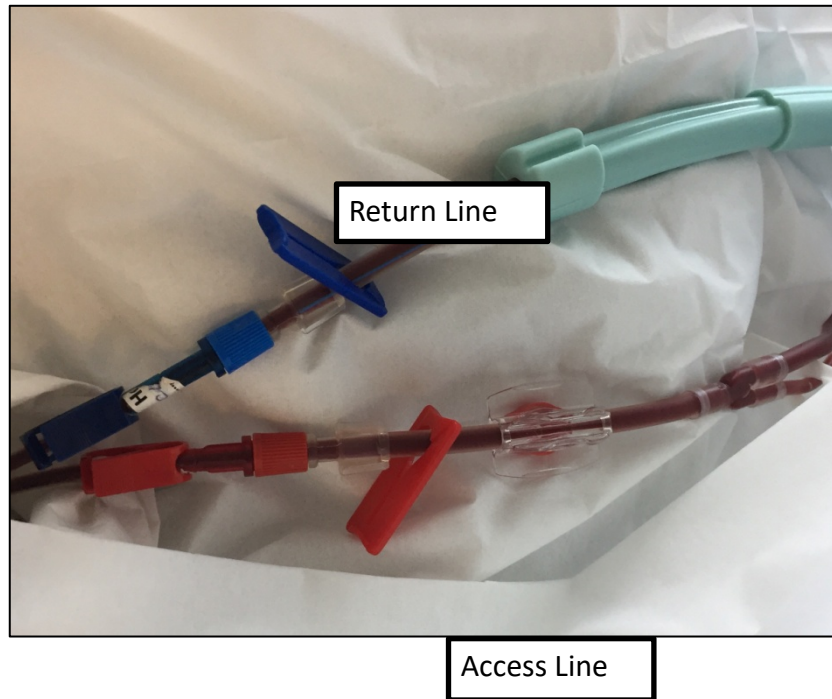
13. **Wrap filter return** line in heater element: INITIAL

Select Appropriate Channel 1 OR 2 → Turn heater on to **43°C** -----

14. Connect patient: Follow on screen instructions and **2 Nurse Check** as per **Fig 2** -----

(**NO** Y-connector is required)

Fig 2.



15. Start blood pump and fill circuit with blood to start treatment:

- Check patient stability & **increase pump speed** accordingly to target **200 - 250 ml/min**
- Filtration fraction not to exceed **45%** (Min ACCESS PRESSURE -10 / Min RETURN PRESSURE + 10)

16. **ADJUST FLUID CHAMBER** to mark shown in on screen instructions:
(Check and adjust fluid level minimum of every hour) -----

All stages of set up have been completed to protocol: Sign.....Date.....Time.....
Heparin Protocol - Do Not Use If Systemically Heparinised

