

Notes prior to treatment start

- Preparation and use of CytoSorb® must always be carried out under hygienic conditions.
- Before connecting CytoSorb® the supply tubing system must be airlessly primed with sterile isotonic saline solution.
- **Under no circumstances should air enter the CytoSorb® adsorber.**
- Always pay attention to the running direction indicated on the label when installing CytoSorb®.
- The recommended blood flow rate should be between 150 - 700 mL/min, with a minimum of 100 mL/min.
- The maximum duration of usage of a CytoSorb® adsorber should not exceed 24 hours.
- It may be advisable to change the adsorber sooner if there is evidence of an exhausted elimination capacity.
- Check the extracorporeal circuit at regular intervals for signs of blood clots, the secure fit of the connections and air within the circuit.

Anticoagulation

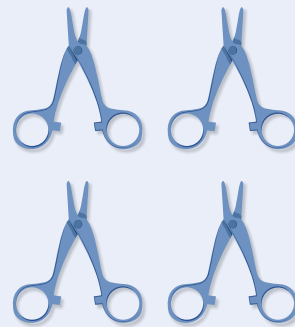
- Anticoagulation must be effective at the start of treatment.
- In general, no special adaptations of the protocols for CytoSorb® are necessary. The specifications of the device manufacturer must be observed.
- Systemic heparinization:
 - An aPTT of 60-80 s or an ACT of 160-210 s is usually sufficient for CytoSorb®. The aPTT or ACT should be checked regularly.
- Any decision on dosage and target values is the responsibility of the treating physician.
- Regional citrate anticoagulation:
 - The manufacturer's instructions of the blood pump system must be followed regarding a possible regional citrate anticoagulation in a hemoadsorption setup.
 - If no hemofilter is used to remove citrate-calcium complexes, only a time-limited treatment of 2 hours maximum is possible.
 - Monitoring of systemic Ca⁺⁺ levels and metabolic status of the patient at regular intervals is recommended.

Materials required

Mounting option
for CytoSorb®



Plastic scissor clamps, x 4



Normal saline
NaCl 0.9%, 2 liters, sterile



Tubing set for
hemoperfusion
according to blood
pump manufacturer's
specifications

Adsorber



Set-up

1. Set-up the device according to the manufacturer's instructions (dry).
2. Mount CytoSorb® H vertically into holder.
3. Start blood pump and deaerate **arterial tubing system** (Inbound line to adsorber must be refilled and air-free).
4. Stop blood pump and clamp **arterial tubing system** at **i** by using **scissor clamp**.
5. Only remove the port plug on the CytoSorb® inlet H (bottom).
6. Connect CytoSorb® H bubble-free with **arterial tubing system**. Observe flow direction!

Caution: Never remove both caps at the same time

7. Now remove the blood outlet port plug (top) and connect CytoSorb® H with **venous tubing system**.
8. Remove scissor clamp from **arterial tubing system**.
9. Start blood pump (approx. 100 mL/min) and rinse system with 2 liters of saline solution.
10. Remove CytoSorb® H from the holder and deaerate it by tapping.
11. Start patient treatment as prescribed.

