

# CytoSorb®



## Best practice flowchart Aortic surgery



### Therapy goal

Reduction of complications through:

- Stabilization of hemodynamics
- Reduction of bleeding risks
- Support lung function



### Patient selection

CytoSorb® Therapy may be considered during cardiac surgery in complex aortic surgery.

Additional criteria for intraoperative use of CytoSorb® intraoperatively in aortic surgery patients may be the following:

- High preoperative lactate
- Planned deep hypothermic circulatory arrest
- Planned cerebral perfusion
- Hemodynamic instability requiring high vasopressor support



### Timing

Start therapy with the start of cardiopulmonary bypass (CPB). CytoSorb® is easily integrated into the CPB circuit (post-pump to venous reservoir)



### Dosing

Consider postoperative continuation of CytoSorb® Therapy (with a new adsorber integrated into an extracorporeal circuit) in aortic surgery patients when the following signs are observed intraoperatively:

- Development of intraoperative oliguric / anuric renal failure
- Increased norepinephrine / vasopressin requirements
- Unexpected intraoperative findings e.g. significant visceral ischemia



**COMPLEX  
AORTIC  
SURGERY**

**Potential criteria  
to decide on CytoSorb®**  
*Combination of surgery procedure  
AND patient situation*

- High lactate preoperative
- Deep hypothermic circulatory arrest planned
- Cerebral perfusion planned
- Hemodynamic instability requiring high vasopressor support

**Recommended  
change intervals:**

12 hrs - 12 hrs - 24 hrs  
Follow flowchart  
septic/vasoplegic shock

**BEGIN**  
Surgery & CytoSorb®  
via integration  
into CPB

**During surgery till end of CPB**  
*(at least one criteria to be met)*

- Development of intraoperative oliguric / anuric renal failure
- increased norepinephrine / vasopressor requirements
- unexpected intraop. findings, significant visceral ischemia

**STOP  
CytoSorb®**

YES

YES

NO

\* Integration into CRRT, ECMO, Hemoperfusion

\*\* For details please see CytoSorb® flowchart septic/vasoplegic shock



Learn more in detail  
[cyto.zone/setup](https://cyto.zone/setup)



[cyto.zone/flow-sep/eng](https://cyto.zone/flow-sep/eng)