

# Cardiohelp & the ELSA Monitor

The Cardiohelp System by Getinge (Maquet) is a compact, easy-to-use ECMO System. The system combines the pump and oxygenator into one device which distributes flow evenly across the membrane which, in theory, can reduce clotting, a critical problem with extracorporeal membrane oxygenation (ECMO).

Because of Cardiohelp's ease of use, its popularity has grown recently with the increase in adult ECMO worldwide. The Cardiohelp circuit eliminates several troubleshooting areas that standard ECMO systems use. This makes it easy to learn for new specialists and simple to fix if a problem arises.

## Why This Matters

The Cardiohelp system eliminates the option of changing out an oxygenator due to a clot. Also, the specialist is now unable to visualize the front venous side of the oxygenator to see any clots. They base the health of their oxygenator on pressure monitors and lab values. If they believe the oxygenator is failing, they must change out the entire circuit. The average cost is approximately \$15,000 each.

## How the ELSA Helps

Utilizing the ELSA Monitor to trend Oxygenator Blood Volume can help



Traditional Pump and Oxygenator Setup



Cardiohelp System: combines oxygenator and pump into one device.

extend the life of ECMO circuits by knowing exactly how much of the membrane is being perfused. For example, if the pressure difference has increased slightly but similar OXBV measurements are still being recorded, it is likely that there still is life left in that membrane/circuit.