Early Prediction of Hypercarbia during Cardiopulmonary Bypass: A Complication of CO$_2$ Flooding in the Surgical Field

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CO₂ flooding in the surgical field was aspirated via the cardiac sump into the left atrium or the field suction, then back to the hard shell venous reservoir.

The expiratory port of membrane oxygenator was connected to the end title carbon dioxide (ETCO₂) sampling line of the anesthetic machine.
Correlation between $\text{PaCO}_2$ and $\text{ETCO}_2$ helps adjust the ratio between the sweep gases flow rate of the oxygenator.

To prevent increase blood CO2 content potentially create a steal phenomenon and divert blood flow away from cerebral with stenosis.
THANK YOU!