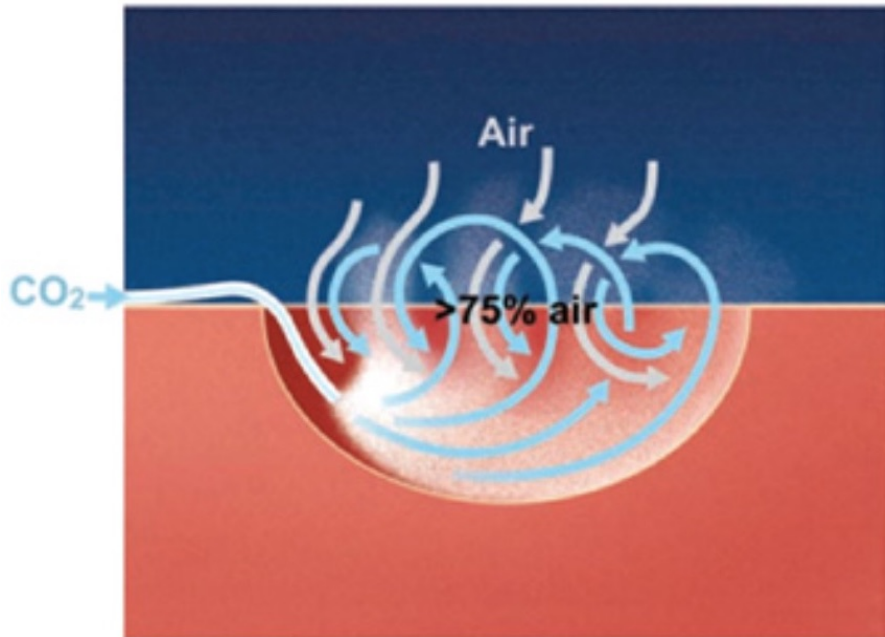


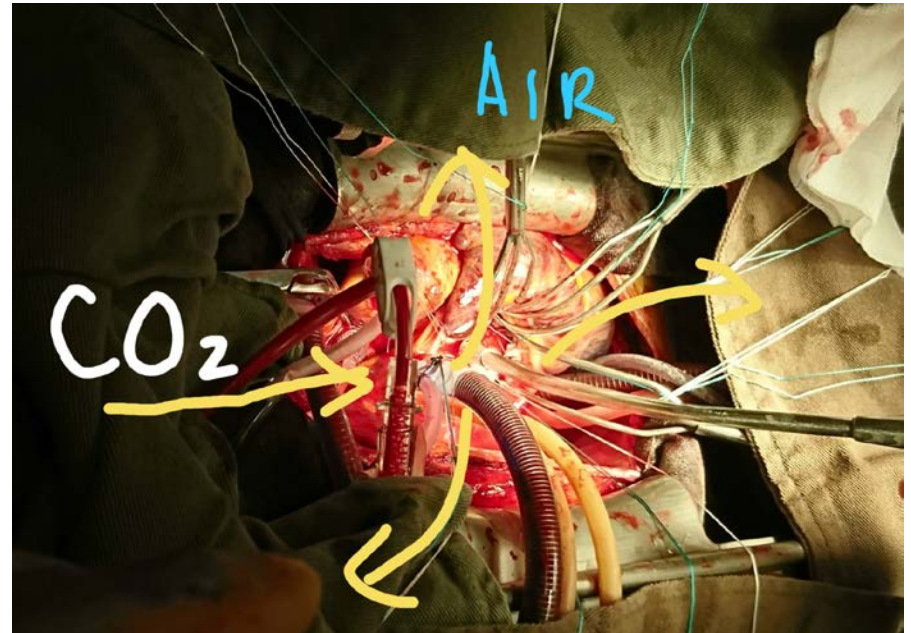


Early Prediction of Hypercarbia during Cardiopulmonary Bypass: A Complication of CO₂ Flooding in the Surgical Field

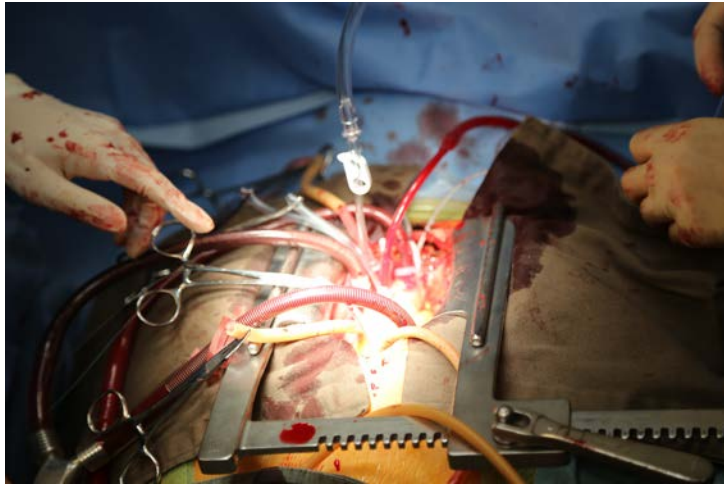
Pollina Yung
APN Perfusionist
Prince of Wales Hospital



Source: LeviBioTech



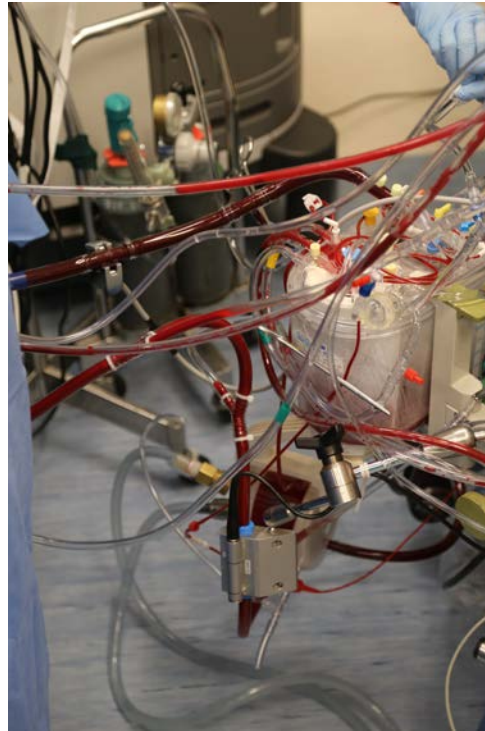
Operation
Field



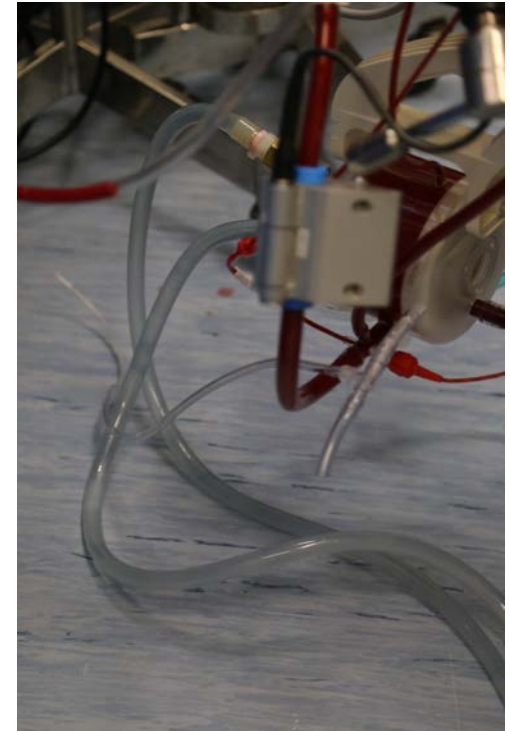
CO₂ flooding in the surgical field was aspirated via the cardiac sump into the left atrium or the field suction, then back to the hard shell venous reservoir.



Membrane
Oxygenator



Expiratory port of
oxygenator



The expiratory port of membrane oxygenator was connected to the end title carbon dioxide (ETCO₂) sampling line of the anesthetic machine.



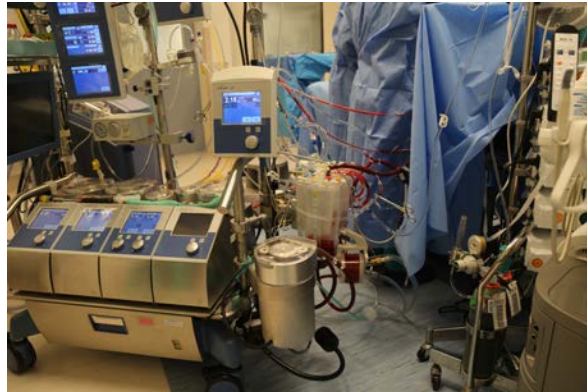
Anaesthesia machine



Air-oxygen blender



Correlation between PaCO_2 and ETCO_2 helps adjust the ratio between the sweep gases flow rate of the oxygenator.



Cardiopulmonary bypass machine

To prevent increase blood CO_2 content potentially create a steal phenomenon and divert blood flow away from cerebral with stenosis.



THANK YOU!

