Cases: Where it can go wrong during CPB

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Cases

- Same diameter of the arterial- and venous line
- Air lock
- No gas supply
- In line monitor
- No Heparin
- Air in the circuit
- Communication
Diameter of the lines

- 1/4”- 1/4” on venous and arterial line
- 3/8”-3/8” on venous and arterial line
- 3/8”-1/2” on ECMO lines
Air lock

- Does the perfusionist see the air?
- VAVD
- Who is doing what and when?
- Who is in command?
No gas supply

- Spare oxygen flask
- Ventilation
- New flask
- New gas mixer
- Oxygen from ventilator
In-line monitor

- No oxygen
- High pCO$_2$
- New oxygenator
No Heparin

- Change of routine
- Not ordered
- Not given
- Not checked
- New HLM
Air in circuit

- Periodically pressure alarm
- Transducer changed
- Bypass without problems
- Negative pressure alarm during MUF
- Override alarm
- Air in circuit
Other causes

- High pressure
- Low level
- What is the cause
- Overriding of alarms
- Flow direction
- Tubing diameter
Communication

- An order is never received unless repeated!
- Double check
- Who is in command?
- Who is doing what and when?
- Talk, listen and answer
Definition

Communication is a process of transferring information from one entity to another. Communication processes are sign-mediated interactions between at least two agents which share a repertoire of signs and semiotic rules. Communication is commonly defined as "the imparting or interchange of thoughts, opinions, or information by speech, writing, or signs". Although there is such a thing as one-way communication, communication can be perceived better as a two-way process in which there is an exchange and progression of thoughts, feelings or ideas (energy) towards a mutually accepted goal or direction (information).
...AND THAT IS WHY WE LIFT ON THREE...