

ECMO Circuit Checklist: Assessed at shift change with oncoming/offgoing nurse; with primary nurse and perfusion; and when patient has transported/mobilized outside room

PERFUSION: 615-418-0418

- Trace circuit from drainage cannula through pump components and back to return cannula to ensure no kinks present
- Circuit tubing lines secured (attached with clamps to sheets under patient in bed, chair, etc..)
- Cannula(e) secure (either with tegaderm or immobilizing device)
- Insertion site clean/dry/intact; CHG dressing current/dated/occlusive (changed per your unit's CVC protocol frequency)
- Visually inspect with flashlight for clots in circuit and oxygenator
- Connections tie-banded (**See fig. C attached**)
- Confirm proper blood flow range
- Confirm proper sweep and FdO2
- Battery charging (**See fig. B attached**)
- Both ECMO pump and heater plugged into RED outlets. *During generator checks the heater will shut off and not automatically restart – notify perfusion to come re-start*
- Hand crank available and able to freely rotate
- 3 sets of clamps available (**See fig. E attached**)
- Back up primed circuit and pump available
- Oxygen tank available as back up and full (2000 psi)
- No free-flow IV tubing connected to patient; infusions run via IV pump to minimize risk of air entrainment
- Heater on and set appropriately** for patient; vigilant temperature monitoring (core temp preferred; alarm parameters set on Phillips monitor or Q1H oral temps when core measurement not available)
- Confirm oxygen source (**See fig. A attached**)

- If patient is mobile/transporting (outside of ICU room):

green filter tubing (**see fig. D attached**) connecting O2 tank to oxygenator; no kinks in tubing; O2 tank full (2000psi); Sweep ON and positive color change

- If patient is stationary in ICU (inside of ICU room):

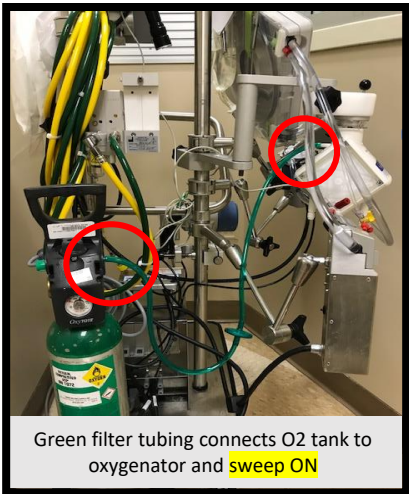
green filter tubing (**see fig. D attached**) connecting blender to oxygenator; no kinks in tubing; green and yellow gas lines attached to wall outlets; Sweep ON and positive color change

Perfusion-Specific ECMO Circuit Checklist: Assessed at shift change with bedside RN and before departure and upon arrival of mobility/transports outside patient room. Nurse will document and perfusion co-sign in EPIC.

- ECMO Alarm Module for Bubble Detector Activated
- ECMO Alarm Module for Bubble Detector Audible
- ECMO Alarm Module for ERC Activated
- ERC positioned on post-ox circuitry
- Low flow alarm parameter appropriately set for patient
- High flow alarm parameter appropriately set for patient

Fig. A
Confirm
oxygen
source

Mobile/transporting
(outside ICU room)



Stationary
(inside ICU room)

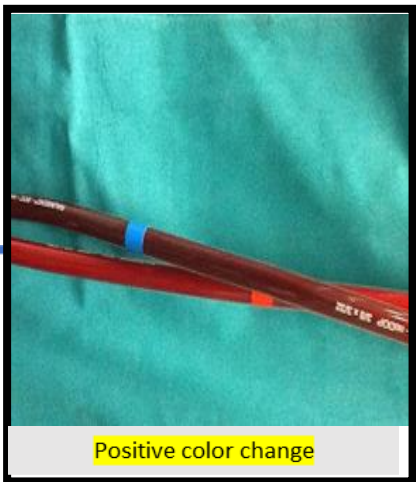
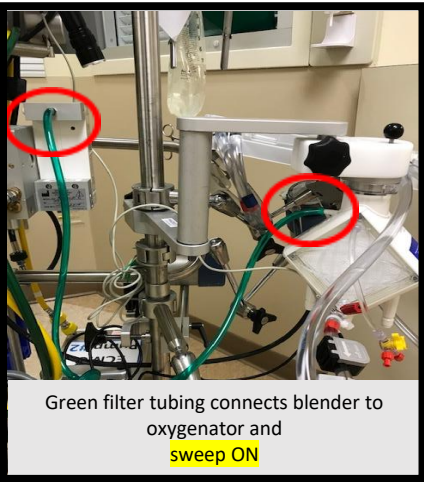
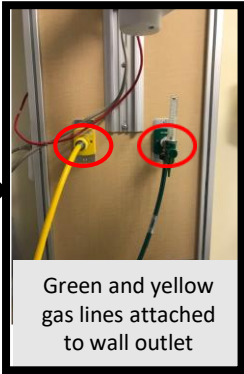
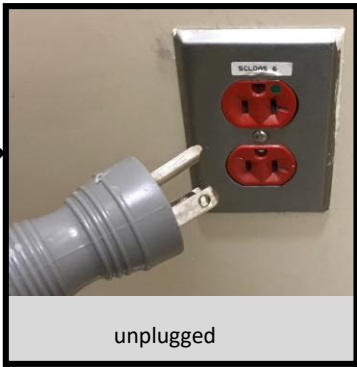
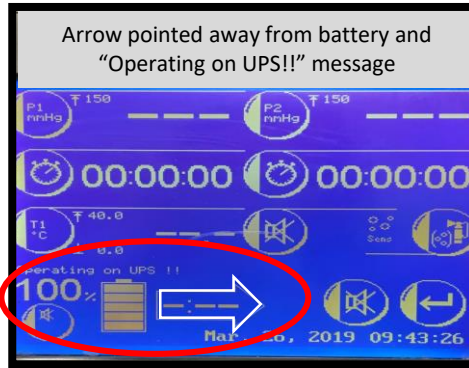


Fig. B
Confirm
power
source

Battery
Power



+



Wall Power
and battery
charging



+



Fig. C
Connections tie-banded
(anywhere 2 pieces of circuit are
attached)

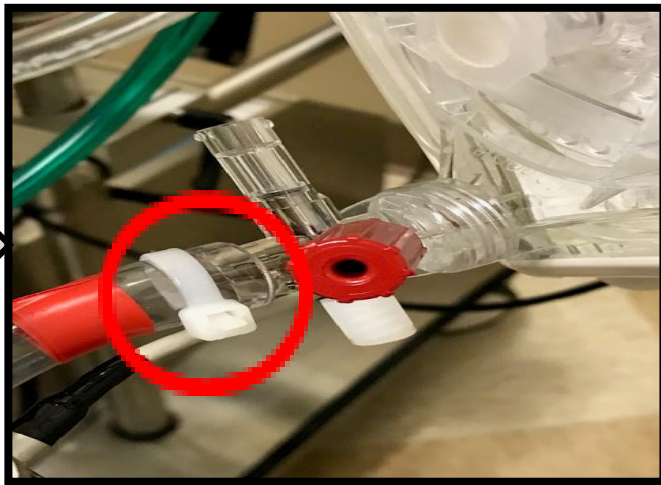


Fig. D
Green filter
tubing

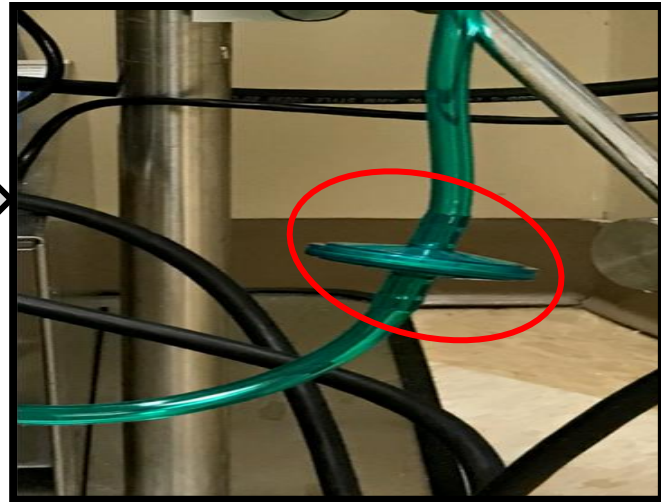


Fig. E
3 sets of
clamps

