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LUNG RETRIEVAL AND PRESERVATION FOR EVLP

Perfadex™ Plus or equivalent 8L

Prep two syringes: 500 µg Prostaglandin E₁ (alprostadil; PGE₁) diluted with 10 ml normal saline.

Add one of the PGE₁ syringes to 4L of Perfadex Plus.

Keep prepped Perfadex Plus on ice until ready for flush.

Bag Preparation

Line an empty basin with 3 preservation bags

Sterilely pour 2L Perfadex™ Plus in last bag.

Note: No slush should be placed in the bag containing the lungs or any of the outer sterile bags

Pre-Recovery

Bronchoscopy: Examine airways and clear secretions

Lung recruitment to 25 cmH₂O:

Performed by anesthesiologist

Questions? Call 1-844-367-3857

MED-GEN-US-0180

Lung Preservation

Hang flush bags **30cm** above table.

DO NOT use a pressure bag

Inject a prepped PGE₁ (500 µg) syringe directly into the PA and wait 10-12 heart beats before cross clamp.

Flush lungs with 4L Perfadex™ Plus + PGE₁

Ventilate: FiO₂ 50%, PEEP 5 cmH₂O, and V_T 10mL/kg.

Procurement: leave as much main PA cuff and LA cuff as possible.

Retrograde flush: 250 mL of Perfadex™ Plus into each pulmonary vein sequentially using a foley catheter attached to flush tubing, while continuing ventilation

Recruitment:

- FiO₂ of 50%
- Sustained airway pressure of 15-20 cmH₂O
- Inflate to about 60-70% total volume and examine lungs to confirm recruitment (do NOT over inflate - should not be tense).

Staple and transect trachea as close to the larynx as possible.

Remove lung bloc and place in prepped bags floating in Perfadex™ Plus.

Tie bags closed and place into a cooler or shipper surrounded by ice.

Do not place the lungs in direct contact with ice.