



2024  
**APLUS**  
CONFERENCE

# Less Invasive Surfactant Administration Workshop

## *Procedural Walkthrough*

### Personnel Required

- Nurse
- Respiratory therapist
- Provider X 2

### Supplies

- 5 ml syringe
- LISA catheter (16 Gauge Angiocath, 5.5 inch) x1
- Sterile marking pen
- Sterile tape measure
- Laryngoscope size 00/0
- Bag and mask equipment or T-piece resuscitation device
- Sterile gloves and sterile drape.

## Step-by-Step Instructions

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1. Order Poractant alfa (Curosurf) 2.5cc/kg (200mg/kg lipid content) (repeat dose 1.25ml/kg/dose)
2. Draw up surfactant in a syringe and 0.5ml air
3. Position the infant as for intubation
4. Try not to disconnect CPAP. If has to be removed, provide CPAP by mask
5. Provider # 1 trained in the LISA procedure will create a sterile field with the drape and drop the catheter and marker pen in the sterile area.
6. Provider # 1 will now wear sterile gloves and will open the catheter from the sterile pack and safely throw away the needle.
7. **Then, using the black end of the sterile marker pen and tape mark the insertion depth:**

**1 cm for  $\leq 26$  week GA**

**1.5 cm for 27-28 week GA**

**2 cm for  $\geq 29$  week GA**

8. Provider #1, using laryngoscope (or video laryngoscope), will pass the catheter to the insertion depth and hold it in place at the lips
9. Provider # 2 will connect the syringe and push surfactant in 4 aliquots over 30 sec-1 min. followed by 0.5cc air.
10. Remove catheter and continue CPAP. Improvement in oxygenation will be seen within minutes after surfactant confirming successful administration.
11. Provide PPV if infant is having desaturation/bradycardia after instillation.
12. Aspirate stomach and check for surfactant reflux

## Instructional Video

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<https://youtu.be/do2fWksTrv4?si=crZA5fbUoc6Nqdat>