

Expiry date: Feb 2028

## - Less Invasive Surfactant Administration - Summary Clinical Guideline Derby & Burton

## Eligibility criteria: Less Invasive Surfactant Primary pathology is RDS AND: Administration ≥27/40 weeks gestation Surfactant deficient lung disease in FiO2≥0.3 Infant is <72h No contraindications Identify eligible baby Equipment list ■ LISA checklist ■ LISAcath Gather equipment □ IV extension Ensure CXR done if >32/40; ■ Blue 5ml leuer lock syringe if done more than 2h Videolaryngoscope ago, transilluminate chest ■ Surfactant ■ Environmental comfort measures Consider transwarmer/radiant heater. ■ Suction Prescribe medication (2 doses drawn up) → Refer to propofol monograph ☐ Intubation equipment (including ventilator) Do procedure 1. CPAP must be continued throughout 2. Continuous temperature monitoring Contraindications Maintain normothermia **Complete LISA checklist** • FiO2 >0.6 or pH <7.2 3. Aspirate NGT · Clinician feels intubation 4. Give Propofol 0.5mg/kg and ventilation is needed 5. Visualise cords with videolaryngoscope Maxillofacial, tracheal, or 6. Insert catheter so cords are at level of black pulmonary abnormalities marker such as pulmonary 7. Remove laryngoscope from mouth and hypoplasia operator to hold catheter in place Pneumothorax Apnoeas or irregular 8. Helper gives surfactant slowly over 2-3 breathing after caffeine minutes load 9. Keep baby's mouth closed throughout Inexperienced staff 10. Aspirate NGT half way through and at the end of surfactant administration 11. Remove catheter Debrief staff, update parents, documentation, ongoing intensive care



Failed procedure: Abandon, or prepare for intubation and ventilation