

CUROSURF (Poractant alfa)

Drug group	Pulmonary Surfactant	Natural-Porcine
Indications for use	Prophylaxis against RDS Established RDS due to surfactant deficiency (hyaline membrane disease)	
Presentation	Vial 1.5 ml and 3 ml containing 80 mg/mL of phospholipids.	
Reconstitution & dilution	None required. Do not shake or filter. Slowly warm to room temperature before administration by placing on a bench or in hand. Do not place in incubator or under radiant warmer.	
Stability	Vials warmed to room temperature can be re-cooled once only, for future use. Label with date warmed.	
Dosage	100-200 mg/kg. (1.25-2.5 mL/kg) Initial dose 200 mg/kg. Up to 2 follow up doses of 100 mg/kg if required at 6-12 hour interval	
	23-25 ⁺⁶ weeks	26-28 ⁺⁶ weeks
	Surfactant for all infants (within 30 minutes of birth)	Surfactant if FiO ₂ > 25% at 2 hours of age (i.e. after at least 1 hour of effective CPAP)
		Surfactant if FiO ₂ > 30% up to 48 hours age
	Surfactant if intubated in the first 48 hours after birth	>29 weeks
	Surfactant if FiO ₂ ≥ 40% up to 48 hours age and X-ray consistent with HMD	
	Repeat dose to be considered from 6 to 48 hours after 1 st dose if FiO ₂ requirements are >21%. Consult with neonatologist before giving a second dose.	
Administration	As a sterile procedure into lower end of endotracheal tube. Give rapidly through 5Fr feeding tube cut 1 cm shorter than the end of the endotracheal tube. Prime the feeding tube so whole dose is in syringe. For detailed instructions on administration see Nursery Guideline JHCH_NICU_12.03	
Monitoring	Monitoring of oxygenation and ventilation required through continuous monitoring of oxygen saturation and blood gas analysis as required.	
Adverse effects	Tube blocking, bradycardia, hypotension, desaturation Need for increased ventilation briefly	
Other comments	Tube placement in the trachea should be confirmed by use of Pedicap before administration. Be aware of rapid changes in compliance requiring rapid changes in ventilation settings. Very rapid improvement in lung compliance. Monitor for changes in tidal volume on ventilator closely. Consider using volume-targeted ventilation.	
Storage & stability	Store in refrigerator and protect from light Discard unused portion Vials warmed to room temperature for less than 24 hours can be returned to the fridge for reuse once only	
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References	Neofax 2011 MIMS online
Groups consulted in development of this guideline	NICU medical staff NICU nursing staff JHCH Pharmacy staff