## Poractant alfa

## Newborn use only

Indication Treatment and prophylaxis of respiratory distress syndrome (ROS). Treatment for meconium aspiration syndrome (MAS). Action Lowers surface tension on alveolar surfaces during respiration and stabilises the alveoli against collapse a resting trans pulmonary pressures. Drug type Pulmonary surfactant Trade name Curosurf Presentation Suspension for intra-tracheal use 120mg/1.5mL or 240mg/3mL vials Dose Curosurf Repeat dose of 120mg/kg when required every 6–12 hours. Maximum of 3 doses. Meconium aspiration syndrome Single dose: 200mg/kg Further doses can be given as below if required: 2 <sup>nd</sup> dose: 200mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 1 <sup>nd</sup> these doses can be given as below if required: 2 <sup>nd</sup> dose: 200mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 1 <sup>nd</sup> these doses can be given as below if required. 2 <sup>nd</sup> dose: 200mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 4 <sup>nd</sup> dose: 100mg/kg 1 <sup>nd</sup> these doses can be diministered at 6 hour interval. Dose adjustment 1 <sup>nd</sup> these doses can be administered at 6 hour interval. 1 <sup>nd</sup> these doses can be administered by a medical officer or nurse practitioner. Hepatic impairment – No dose adjustment. Hepatic impairment – No dose adjustment. 1 <sup>nd</sup> the dual the dose dose dose dose adjustment. 1 <sup>nd</sup> these doses dose dose dose dose dose dose	Alert	This medication should only be administered by a medical officer or nurse practitioner.
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Total cumulative dose           Route         Intra-tracheal           Preparation         Not applicable           Administration         This medication should only be administered by a medical officer or nurse practitioner.           Inspect product visually for discolouration prior to administration (suspension should be white to creamy white). Before use, the vial should be slowly warmed to room temperature (can be warmed in hand or stood at room temperature) and gently turned upside down in order to obtain a uniform suspension. DO NOT SHAKE.           Poractant alfa is administered via the endotracheal route using an endotracheal tube (ETT) or thin catheter.           ETT administration: Assess patency and position of ETT prior to administration. Clear the trachea of secretions if required. Shorten a 5 French end-hole catheter so that the length of the catheter is 1 cm shorter than the ET tube. Slowly withdraw entire contents of vial(s) into a syringe through a needle (≥ 20 gauge). Do not shake.           Attach shortened catheter to syringe. Fill catheter with surfactant.           May administer in 1 to 2 aliquots as tolerated with the neonate in neutral supine position. If the infant is on a ventilator, the catheter can be inserted into the infant's ET tube without interrupting ventilation by passing the catheter through a neonatal suction valve attached to the ET tube. This is especially useful in high-frequency ventilation to minimise de-recruitment. Alternatively, surfactant can be instilled through the catheter by briefly disconnecting the ETT from the ventilator. Approximately 1.5 cm above one end. Connect a syringe and catheter prefilled with surfactant preparation. While the infant is breathing vi nasal CPAP, introduce laryngoscope and inser	Maximum dose	
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Administration       This medication should only be administered by a medical officer or nurse practitioner.         Inspect product visually for discolouration prior to administration (suspension should be white to creamy white). Before use, the vial should be slowly warmed to room temperature (can be warmed in hand or stood at room temperature) and gently turned upside down in order to obtain a uniform suspension. DO NOT SHAKE.         Poractant alfa is administered via the endotracheal route using an endotracheal tube (ETT) or thin catheter.         ETT administration: Assess patency and position of ETT prior to administration. Clear the trachea of secretions if required. Shorten a 5 French end-hole catheter so that the length of the catheter is 1 cm shorter than the ET tube. Slowly withdraw entire contents of vial(s) into a syringe through a needle (≥ 20 gauge). Do not shake.         Attach shortened catheter to syringe. Fill catheter with surfactant.       May administer in 1 to 2 aliquots as tolerated with the neonate in neutral supine position. If the infant is on a ventilator, the catheter can be inserted into the infant's ET tube without interrupting ventilation by passing the catheter through a neonatal suction valve attached to the ET tube. This is especially useful in high-frequency ventilation to minimise de-recruitment. Alternatively, surfactant can be instilled through the catheter administration: Use a 4 French end-hole catheter marked approximately 1.5 cm above one end. Connect a syringe and catheter prefiled with surfactant preparation. While the infant is breathing vin nasal CPAP, introduce laryngoscope and insert catheter using Magill forceps up to the mark on the catheter.         Charteer administration: Use a 4 French end-hole catheter marked approximately 1.5 cm above one end. Connect a syringe and catheter pre	Route	Intra-tracheal
Administration       This medication should only be administered by a medical officer or nurse practitioner.         Inspect product visually for discolouration prior to administration (suspension should be white to creamy white). Before use, the vial should be slowly warmed to room temperature (can be warmed in hand or stood at room temperature) and gently turned upside down in order to obtain a uniform suspension. DO NOT SHAKE.         Poractant alfa is administered via the endotracheal route using an endotracheal tube (ETT) or thin catheter.         ETT administration: Assess patency and position of ETT prior to administration. Clear the trachea of secretions if required. Shorten a 5 French end-hole catheter so that the length of the catheter is 1 cm shorter than the ET tube. Slowly withdraw entire contents of vial(s) into a syringe through a needle (≥ 20 gauge). Do not shake.         Attach shortened catheter to syringe. Fill catheter with surfactant.       May administer in 1 to 2 aliquots as tolerated with the neonate in neutral supine position. If the infant is on a ventilator, the catheter can be inserted into the infant's ET tube without interrupting ventilation by passing the catheter through a neonatal suction valve attached to the ET tube. This is especially useful in high-frequency ventilation to minimise de-recruitment. Alternatively, surfactant can be instilled through the catheter administration: Use a 4 French end-hole catheter marked approximately 1.5 cm above one end. Connect a syringe and catheter prefiled with surfactant preparation. While the infant is breathing vin nasal CPAP, introduce laryngoscope and insert catheter using Magill forceps up to the mark on the catheter.         Charteer administration: Use a 4 French end-hole catheter marked approximately 1.5 cm above one end. Connect a syringe and catheter pre	Preparation	Not applicable
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		Thin catheter administration: Use a 4 French end-hole catheter marked approximately 1.5 cm above one end. Connect a syringe and catheter prefilled with surfactant preparation. While the infant is breathing via nasal CPAP, introduce laryngoscope and insert catheter using Magill forceps up to the mark on the catheter. Secure tube position and remove laryngoscope. With the infant's mouth closed, instil surfactant during 30 to 120 seconds by mini-boluses. In cases of apnoea or bradycardia, perform positive pressure

## Poractant alfa

Newborn use only

Monitoring	Continuous oxygen saturation and cardiorespiratory monitoring.	
Contraindications	None known	
Precautions	Correction of acidosis, hypotension, anaemia, hypoglycaemia and hypothermia is recommended by the manufacturer prior to poractant alfa administration but this is not always possible in practice.	
Drug interactions	Not applicable	
Adverse reactions	Transient: Bradycardia, hypotension, endotracheal tube blockage and oxygen desaturation. These events require stopping poractant alfa administration and taking appropriate measures to alleviate the condition. After the patient is stable, dosing may proceed with appropriate monitoring. Ventilator settings may need to be adjusted post-surfactant to accommodate increased lung compliance.	
Compatibility	Should not be mixed with any other medications or fluids.	
Incompatibility	Not applicable	
Stability	Vials are for single use only. DO NOT SHAKE. Unopened, unused vials that have warmed to room temperature can be returned to refrigerated storage within 24 hours for future use. Document on the packaging the date and time the product was removed from the fridge. Notify Pharmacy Department/NICU Pharmacist if this occurs. Do not warm to room temperature and return to refrigerated storage more than once.	
Storage	Store at 2–8°C. Protect from light.	
Excipients		
Special	Surfactant may alter amplitude-integrated electroencephalography (aEEG) recordings after administration.	
comments		
Evidence	<b>Early versus delayed surfactant treatment</b> Early selective surfactant administration given to infants with RDS requiring assisted ventilation leads to a decreased risk of acute pulmonary injury (decreased risk of pneumothorax and pulmonary interstitial emphysema) and a decreased risk of neonatal mortality and chronic lung disease compared to delaying treatment of such infants until they develop worsening RDS <sup>4, 5</sup> (LOE I, A).	
	<b>Prophylaxis versus rescue treatment</b> There does not appear to be additional benefit from prophylactic surfactant compared to nasal CPAP and early rescue surfactant <sup>4, 6</sup> (LOE I, GOR B).	
	Method of administration Post-ventilatory surfactant (after resuscitation) reduces mortality and chronic lung disease 36-40 weeks <sup>7</sup> (LOE II, GOR B).	
	Nasal continuous positive airway pressure (nCPAP) with rescue thin catheter surfactant versus nCPAP with rescue intubation and surfactant reduces the risk of intubation and pneumothorax and reduces the incidence of chronic lung disease <sup>8-12</sup> (LOE I, GOR B).	
	Nasal CPAP with rescue thin catheter surfactant is better tolerated than nCPAP with rescue intubation and surfactant and immediate extubation (InSurE) with no difference in other clinical outcomes <sup>10-12</sup> (LOE I, GOR B).	
	<b>Dose</b> Higher first dose poractant (200 mg/kg compared to 100 mg/kg) reduces need for re-dosing without proven clinical benefit <sup>13,14</sup> (LOE 1, GOR B). Higher dose poractant 200 mg/kg compared to lower dose beractant 100 mg/kg reduces mortality and need for re-dosing <sup>15-17</sup> (LOE 1, GOR B).	
	Multiple doses of surfactant (up to 4) given to infants with ongoing respiratory insufficiency leads to improved clinical outcomes <sup>18</sup> (LOE 1, GOR A).	
	Meconium aspiration syndrome: Surfactant replacement therapy for meconium aspiration syndrome reduces the incidence of respiratory failure <sup>19</sup> (LOE 1, GOR B). Trials used surfactant 100–200 mg/kg every 6 hours up to a maximum 4 doses. Trials reported response from earlier (before 6 hours) and frequent surfactant replacement (every 6 hours for 3–4 doses) <sup>20, 21</sup> .	
Practice points		
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