

# Survanta (Beractant)

## Newborn use only

2020

<b>Alert</b>	This medication should only be administered by a medical officer or nurse practitioner.
<b>Indication</b>	Treatment and prophylaxis of respiratory distress syndrome (RDS). Treatment of meconium aspiration syndrome (MAS).
<b>Action</b>	Lowers surface tension on alveolar surfaces during respiration and stabilises the alveoli against collapse at resting transpulmonary pressures.
<b>Drug type</b>	Pulmonary surfactant
<b>Trade name</b>	Survanta
<b>Presentation</b>	Suspension for intra-tracheal use 200 mg/8 mL
<b>Dose</b>	<p><b>Respiratory distress syndrome</b> Single dose of 100 mg/kg Dose may be repeated every 6 hours if required Maximum 4 doses in first 48 hours of life</p> <p><b>Meconium aspiration syndrome</b> Single dose of 150 mg/kg Dose may be repeated every 6 hours if required Maximum of 4 doses</p> <p>Studies have used doses in the range 100–150 mg/kg/dose.</p>
<b>Dose adjustment</b>	Therapeutic hypothermia – Not applicable. ECMO – Not applicable Renal impairment – No dose adjustment. Hepatic impairment – No dose adjustment.
<b>Maximum dose</b>	RDS: 400 mg/kg/day MAS: 600 mg/kg/day
<b>Total cumulative dose</b>	
<b>Route</b>	Intra-tracheal
<b>Preparation</b>	Not applicable
<b>Administration</b>	<p>This medication should only be administered by a medical officer or nurse practitioner.</p> <p>Inspect product visually for discolouration prior to administration (suspension should be white to light brown).</p> <p>Before use, the vial should be slowly warmed to room temperature (can be warmed in hand for at least 8 minutes or stood at room temperature for at least 20 minutes) and gently turned upside down in order to obtain a uniform suspension. DO NOT SHAKE.</p> <p>Assess patency and position of endotracheal tube (ETT) prior to administration.</p> <p>Clear the trachea of secretions. Shorten a 5 French end-hole catheter so that the length of the catheter is 1 cm shorter than the ETT tube. Slowly withdraw the contents of the vial(s) into a syringe through a needle (<math>\geq 20</math> gauge). Do not shake.</p> <p>Attach shortened catheter to syringe. Fill catheter with surfactant.</p> <p>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 ETT without interrupting ventilation by passing the catheter through a neonatal suction valve attached to the ETT. This is especially useful in high-frequency ventilation when it potentially minimises de-recruitment.</p> <p>Alternatively, surfactant can be instilled through the catheter by briefly disconnecting the ETT from the ventilator.</p> <p>Approximately 2 mL of air should be used to push any remaining surfactant in the catheter into the lungs.</p> <p>Please note: there are other administration methods available which are beyond the scope of this protocol.</p>
<b>Monitoring</b>	Continuous oxygen saturation and cardiorespiratory monitoring.
<b>Contraindications</b>	None known
<b>Precautions</b>	Beractant can rapidly affect oxygenation and lung compliance. Therefore, its use should be restricted to a highly supervised clinical setting with immediate availability of clinicians experienced with intubation, ventilator management and general care of premature infants.

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<b>Drug interactions</b>	Not applicable
<b>Adverse reactions</b>	Transient: Bradycardia, hypotension, endotracheal tube blockage and oxygen desaturation (these events require stopping beractant 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.
<b>Compatibility</b>	Beractant should not be mixed with any other medications or fluids.
<b>Incompatibility</b>	No information.
<b>Stability</b>	Vials are for single use only. DO NOT SHAKE. Unopened, unused vials of beractant that have warmed to room temperature can be returned to refrigerated storage within 8 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.
<b>Storage</b>	Store at 2–8°C. Protect from light.
<b>Excipients</b>	
<b>Special comments</b>	Surfactant may alter amplitude-integrated electroencephalography (aEEG) recordings after administration.
<b>Evidence</b>	Refer to full version.
<b>Practice points</b>	Refer to full version.
<b>References</b>	Refer to full version.

VERSION/NUMBER	DATE
Original 1	27/10/2015
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### Authors Contribution

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