

**ALBUMIN****This drug must be guardrailed**

<b>Trade Name</b>	Albumex
<b>Class</b>	Blood product
<b>Indications</b>	<p><b>Indication 1:</b> Hypovolaemia</p> <p><b>Indication 2:</b> Symptomatic hypoalbuminaemia Albumin &lt; 25g/L in preterm with oedema Congenital nephrotic syndrome</p> <p><b>Indication 3:</b> Pre-exchange transfusion for hyperbilirubinaemia</p>
<b>Contraindications</b>	<p>History of allergy to product.</p> <p>Patients with cardiac failure, pulmonary oedema or severe anaemia.</p> <p>Use with caution in patients with hepatic or renal impairment due to increased protein load.</p> <p>Lack of blood product consent.</p>
<b>Supplied As</b>	<p>Albumex <b>4%</b>      2g/50mL (40mg/mL)</p> <p>Albumex <b>20%</b>    2g/10mL (200mg/mL)</p>
<b>Dilution</b>	None
<b>Dosage</b> <b>*Must chart guardrail and use Alaris pump*</b>	<p><b>Indication 1:</b>      <b>4%</b> albumin    10-20 mL/kg    (400-800mg/kg)</p> <p><b>Indication 2/3:</b>    <b>20%</b> albumin    5mL/kg            (1000mg/kg)</p>
<b>Guardrails 4% Albumin</b>	<p>Concentration: 40mg/mL</p> <p>Soft Alert Min: 200mg/kg/hr    Hard Alert Max: 2000mg/kg/hr</p> <p>Soft Alert Max: 800mg/kg/hr    Default Setting: 400mg/kg/hr</p>
<b>Guardrails 20% Albumin</b>	<p>Concentration: 200mg/mL</p> <p>Soft Alert Min: 200mg/kg/hr    Hard Alert Max: 750mg/kg/hr</p> <p>Soft Alert Max: 500mg/kg/hr    Default Setting: 250mg/kg/hr</p>
<b>Administration</b>	<p><b>Indication 1:</b> Intravenous infusion Administer as fast as required for shock Over 1hr for mild hypotension</p> <p><b>Indication 2/3:</b> Intravenous infusion over 2-4 hours</p>
<b>Compatible With</b>	<p><b>Solutions:</b> glucose 5%, glucose 10%, glucose sodium chloride, 0.9% sodium chloride, 0.45% sodium chloride, Lactated Ringer's solution.</p> <p><b>Y-site:</b> diltiazem, meropenem</p>
<b>Incompatible With</b>	Amino acid solutions, labetalol, lipid, midazolam, solutions containing alcohol or drugs that bind albumin, vancomycin, verapamil.

<b>Monitoring</b>	HR, BP, sats, temperature monitoring
<b>Stability</b>	Discard 4 hours after opening. Do not use if cloudy or contains precipitate.
<b>Storage</b>	In fridge in blood bank. Expiry date on box. Protect from light.
<b>Adverse Reactions</b>	When given rapidly albumin infusions may cause chills, fever, flushing, fluid retention, hypotension, nausea and vomiting, neurological injury (cerebral oedema, intraventricular haemorrhage) pulmonary oedema and/or circulatory overload. Hypersensitivity reactions including urticaria may also occur
<b>Comments</b>	First line treatment in hypotension is 0.9% sodium chloride Duration of volume expansion 24hours Half life 21 days  Sodium content = 48-100 mmol/L in 20% albumin. Prepared from whole blood, contains soluble proteins and electrolytes but no clotting factors, blood group antibodies or plasma cholinesterases. These albumin preparations may be given without regard to blood group.
<b>References</b>	<ol style="list-style-type: none"> <li>1. BNF</li> <li>2. <a href="http://www.medsafe.govt.nz">www.medsafe.govt.nz</a></li> <li>3. Trissell Handbook of injectable Drugs 10th Edition.</li> <li>4. <a href="http://www.anmfonline.org">www.anmfonline.org</a></li> <li>5. Neofax in <a href="http://www.micromedexsolutions.com">www.micromedexsolutions.com</a></li> <li>6. <a href="http://www.micromedexsolutions.com">www.micromedexsolutions.com</a></li> </ol>
<b>Updated By</b>	<p>B Dixon July 2001</p> <p>P Schmidt, B Robertshawe May 2005</p> <p>A Lynn, B Robertshawe July 2009 (guardrails)</p> <p>A Lynn, B Robertshawe June 2012 (re-order profile)</p> <p>A Lynn, M Wallenstein, B Robertshawe, A Evison, May 2020 (re confirmed details with Blood Bank)</p> <p>A Lynn, B Robertshawe March 2023 (routine review)</p>