

## HYDROXYCOBALAMIN (Vitamin B12)

<b>Trade Name</b>	Neo-B12 (Hospira), Hydroxocobalamin (Mercury Pharma) Hydroxocobalamin (Panpharma) Vita-B12 (Boucher & Muir NZ).
<b>Class</b>	Water soluble vitamin
<b>Mechanism of Action</b>	Hydroxocobalamin (Vitamin B <sub>12a</sub> ) is required for various metabolic functions, including fat and carbohydrate metabolism and protein synthesis, used in cell replication and haematopoiesis  Transcobalamin transports hydroxycobalamin (Vitamin B12) into cells for cell growth and division
<b>Indications</b>	<b>Indication 1:</b> Disorders of cobalamin metabolism <b>Indication 2:</b> Transcobalamin deficiency
	<b>Cobalamin deficiency</b> has a variable phenotype and age of presentation – hydrops, IUGR, microcephaly, poor feeding, encephalopathy, failure to thrive, developmental delay, hypotonia, seizures, megaloblastic anaemia  <b>Transcobalamin deficiency</b> presents over weeks to months with vomiting, diarrhoea, failure to thrive, mouth ulcers, weakness, myoclonus, megaloblastic anaemia and neutropenia
<b>Contraindications</b>	Hypersensitivity to hydroxocobalamin or excipients of the injection.  Known sensitivity to cobalt
<b>Supplied As</b>	<b>IM:</b> 1mg / mL, clear red solution in a clear glass ampoule.
<b>Dilution</b>	<b>IM:</b> Do not dilute.  Check that solution is clear and doesn't contain any particles
<b>Dosage / Interval</b>	<b>Indication 1: Disorders of cobalamin metabolism</b> <b>IM:</b> 1-2 mg once daily with further dosing to be advised by the Metabolic Specialist  <b>Indication 2: Transcobalamin deficiencies</b> <b>IM:</b> 1 mg three times a week with further dosing to be advised by the Metabolic Specialist
<b>Administration</b>	For <b>IM</b> injection only. <b>Do not give intravenously</b>
<b>Compatible With</b>	Do not mix with any other medication
<b>Incompatible With</b>	Do not mix with any other medication
<b>Interactions...</b>	Therapeutic response to hydroxocobalamin may be impaired by concurrent infection, uraemia, folic acid or iron deficiency.

