## Pamidronate Newborn use only

Alert	Discuss with specialist before starting treatment.
	Contraindicated in Osteogenesis Imperfecta Type 2.
	Ensure neonates have normal vitamin D status and are adequately hydrated prior to administration.
	Serum calcium level should be closely monitored, particularly in the newborn period and with the first
	infusion.
	Flu like symptoms are common within 24 hours following first infusion and subside within 48-72 hours.
Indiantian	Symptoms are usually less likely with subsequent infusions.
Indication	Severe Osteogenesis Imperfecta (Contraindicated in OI type 2)
	abnormal lung development, neither of which is amenable to hisphosphonate therapy
	Severe hypercalcaemia.
Action	Pamidronate, a nitrogenous bisphosphonate, is a potent inhibitor of osteoclastic bone resorption. It
	adsorbs to calcium phosphate (hydroxyapatite) crystals and disrupts the cytoskeleton of osteoclasts,
	thereby increasing bone mass. Bisphosphonate increases thickness of the outer shell of long bones and
	trabecular number, significantly reducing the risk of bone fractures.
Drug type	Bisphosphonate. Active ingredient is disodium-3-amino-1-hydroxypropylidene-1,1-biphosphonate.
Trade name	Pamisol
Presentation	15 mg in 5 mL vial; 30 mg in 10 mL vial; 60 mg in 10 mL vial; 90 mg in 10 mL vial.
Dose	Severe Osteogenesis Imperfecta <sup>1</sup> :
	Dose in neonates and infancy
	<ul> <li>First infusion: 0.25 mg/kg - 0.5 mg/kg</li> </ul>
	<ul> <li>Subsequent doses: 1 to 1.5 mg/kg every 1 to 2 months.</li> </ul>
	Ensure neonates have normal vitamin D status (25-OH vitamin D ≥50 nmol/L) and are adequately hydrated
	prior to administration.
	Severe nypercaicaemia <sup>-,-</sup>
	Dose. 0.25 mg/kg = 1 mg/kg. May need to be repeated (depending on underlying condition) with minimum dosing interval of 48
	hours. <sup>1,2</sup>
Dose adjustment	Theraneutic hypothermia: Not applicable
bose aujustment	merapeutic hypotherma. Not applicable.
Dose aujustment	ECMO: Not applicable.
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Drug interactions	Aminoglycosides: May enhance the hypocalcaemic effect of bisphosphonates.
-	Nonsteroidal anti-inflammatory agents: May enhance the adverse effect of bisphosphonates including risk
	of gastrointestinal ulceration and nephrotoxicity.
	Proton Pump Inhibitors: May reduce therapeutic effect of bisphosphonates.
	Angiogenesis inhibitors (systemic): May increase the adverse effect of bisphosphonates, particularly
	osteonecrosis of the jaw (not reported in children).
	Deferasirox: Bisphosphonate derivatives may enhance the adverse effect of deferasirox. Specifically, the
	risk for gastrointestinal ulceration/irritation or bleeding may be increased.
Adverse reactions	Flu-like symptoms are common and usually occur within 24 hours following the first infusion and subside
	within 48-72 hours. Symptoms are usually less likely with subsequent infusions.
	Hypocalcaemia and hypophosphatemia are common side effects following the first infusion.
	Hypocalcaemic seizures have been reported following treatment.
	Acute respiratory distress in infants with pre-existing respiratory problems.
	Local reactions at the infusion site, headaches, abdominal pain, bone and muscle pain, irritation of eyes,
	burning sensation of hands and feet, rash and lymphopenia.
	Bisphosphonate-related osteonecrosis of the jaws (BRONJ) is reported in adults but there are no reports of
	BRONJ in children secondary to bisphosphonates. Nevertheless, all children with or without osteogenesis
	imperfecta who are treated with bisphosphonates, should be regularly reviewed by dental clinicians as a
	precaution.
	Partituronate may interfere with the bone healing in children with osteogenesis imperfecta. It may be
	is seen on the X-ray
Compatibility	Eluids: Sodium chloride 0.9% glucose 5%
compationity	Drugs: Consult the pharmacist for advice. It is recommended to administer as a separate infusion, separate
	from all other drugs.
Incompatibility	Fluids: Calcium containing solutions. e.g. Ringer's solution.
	Drugs: Calcium folinate, caspofungin.
Stability	Diluted solution should be infused immediately after preparation and any residual amount to be
	discarded. If the diluted product cannot be used immediately or as soon as practicable after preparation,
	store between 2° to 8°C for not more than 24 hours.
Storage	Store below 25°C.
Excipients	Mannitol, phosphoric acid, sodium hydroxide and water for injections.
	Phosphoric acid and sodium hydroxide are added to adjust pH.
Special comments	Ensure infants are adequately hydrated prior to administration.
	Pamidronate is not metabolised and is exclusively eliminated by renal excretion. Pamidronate is not
	recommended for patients with severe renal impairment.
	For infants with OI, measure vitamin D status prior to commencement of treatment. Ensure adequate
Fuidance	Vitamin D Intake.
Evidence	
Practice points	Australian Paediatric Endocrine Group consensus guidelines 2018 <sup>1</sup> :
	Osteogenesis imperfecta: intravenous bispnosphonates should be considered for use in children with
	severe of (e.g. type iii), children with vertebrar compression fractures of children who have had two of
	those with mild to moderate OL in the absence of vertebral compression fractures. [LOE II GOR B]
	Children should have a serum 25-bydroxy vitamin D level >50 nanomol/L before starting hisphosphonate
	and neonates should have daily serum calcium level monitoring for 3 days after the first infusion
	Severe hypercalcaemia:
	When hypercalcaemia is refractory to dietary manipulation and intravenous hydration. low-dose
	bisphosphonate can be considered (pamidronate at 0.25 mg/kg or zoledronate at 0.0125 mg/kg). with at
	least 48 hours between doses and serum calcium monitored closely for 72 hours. [LOE IV GOR C] However.
	higher doses of pamidronate (median of 1 mg/kg) have been used with good effect in infants and children
	with severe hypercalcaemia. <sup>2</sup> Hypocalcaemia is a risk with higher dosing.
	Generalised arterial calcification of infancy: Bisphosphonate therapy can be considered in severe cases of
	GACI. [LOE IV GOR D]
References	Refer to full version.

VERSION/NUMBER	DATE
Original	14/05/2020
REVIEW (5 years)	14/05/2025

## **Authors Contribution**

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