Octreotide

Newborn use only

	Isus group Octreotide	Page 1 of 5
Administration	IV: Continuous infusion.	
	SC injection: Give undiluted. SC continuous infusion: To discuss with paediatric endocrine tear	n on the preparation and dilution.
	1 mL/hour = 10 microgram/kg/hour.	
	volume of 50 mL with a final concentration of 10 microgram/kg/r	
	Draw up 1 mL/kg (500 microgram/kg) of octreotide and add sodiu	um chloride 0.9% to make a final
	IV preparation Use 500 microgram/1 mL ampoule to prepare IV infusion:	
	IV preparation	
Preparation	Allow solution to reach room temperature before use.	
Route	IV, SC	
Total cumulative dose		
T	Hyperinsulinaemic hypoglycaemia SC injection: 35 microgram/kg	/day.
Maximum dose	Large volume chylothorax IV infusion: 20 microgram/kg/hour.	/.
	Hepatic impairment – Half life may be increased in hepatic impair	rment. ⁽¹⁴⁾
	Renal impairment – No dose adjustment necessary. ⁽¹⁴⁾	
••••••	ECMO – No information.	
Dose adjustment	Therapeutic hypothermia – No information.	
	SC continuous infusion: Total daily SC dose can be given as a con requires an insulin pump. Discuss with Paediatric Endocrinologist	
	microgram/kg/day (ANMF consensus). ⁽¹¹⁻¹³⁾	tinuous 24 hour 50 infusion hut
	Dose may be increased by 3-5 microgram/kg/ day every 1-3 days	to a maximum of 35
	SC intermittent injection (recommended): Commence at 5 micro	
	Hyperinsulinaemic hypoglycaemia	
	Subcutaneous (SC) injection: 10-100 microgram/kg/day divided i	in 3-4 doses. ^(2, 3)
	be increased to a maximum of 20 microgram/kg/hour. ^(8, 9)	in Kennour (Annivir Consensus) and Can
	volume chylothorax. ^(8,9) *Large volume chylothorax: Starting dose may be 4-5 microgram	/kg/bour (ANIME conconsus) and can
	depending upon the response.* Doses up to 20 microgram/kg/hc	our have been used particularly in large
	Suggested regimen: Commence at 1-2 microgram/kg/hour, increa	
	Continuous IV Infusion (recommended): 1-10 microgram/kg/hou	
Dose	Chylothorax	. (2, 2, 6, 10)
	continuous IV infusion.	
	microgram/1 mL ampoules. 500 microgram/1 mL is the recomm	ended strength for preparation of
Presentation	Octreotide acetate solution for injection: 50 microgram/1 mL, 10	0 microgram/1 mL and 500
Trade name	Sandostatin solution for injection (Novartis), Octreotide GH, Octr	eotide Sun.
Drug type	Synthetic short-acting somatostatin analogue.	
	β-cells. ^(4, 5)	
	Hyperinsulinemic hypoglycaemia: Octreotide inhibits the release	-
	well as intestinal absorption. These mechanisms collectively redu	
	vasoconstriction of splanchnic vessels, including hepatic venous f pancreatic and intestinal secretions, inhibits gall bladder contract	
	Chylothorax: The mechanism of action is uncertain. Octreotide is	• •
	glucagon secretion. ⁽¹⁾	
Action	Octreotide is somatostatin analogue. It inhibits growth hormone	secretion, insulin secretion and
	2. Hyperinsulinaemic hypoglycaemia	
Indication	1. Congenital and acquired chylothorax	
	octreotide (LAR - modified release injection) are beyond the scop	
	Paediatric Endocrinologist. This formulary relates to short acting formulations of octreotide	• Long acting formulations of

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Evidence	Efficacy	
comments		
Special		
	Octreotide Sun: Glacial acetic acid, sodium acetate trihydrate, sodium chloride and water for injections	
-	Octreotide GH: Glycine, mannitol, dilute hydrochloric acid, water for injections.	
Excipients	Sandostatin: Lactic acid, mannitol, sodium bicarbonate, water for injections. ⁽¹⁴⁾	
	unused after this period out of the fridge should be discarded.	
	*Sandostatin and GH brand of octreotide is stable at room temperature for up to 2 weeks. Ampoules	
Storage	Refrigerate between 2 to 8°C.* Do not freeze. Protect from light.	
Stability	Infusion solutions in sodium chloride 0.9% are stable for 24 hours below 25°C	
Incompatibility	Y-site: Cyclizine, micafungin, phenytoin.	
Incompatibility	tobramycin, vancomycin, vasopressin, vecuronium, verapamil, voriconazole, zidovudine. Fluids: Lipid emulsion.	
	remifentanil, rocuronium, sodium bicarbonate, sulfamethoxazole-trimethoprim, tacrolimus, ticarcillin,	
	phenylephrine, piperacillin, piperacillin-tazobactam, potassium chloride, propranolol, ranitidine,	
	pamidronate, pancuronium, pentobarbital, phenobarbital (phenobarbitone), phentolamine,	
	morphine, naloxone, nicardipine, nitroglycerin, nitroprusside sodium, norepinephrine, ondansetron,	
	meropenem, methadone, methotrexate, methylprednisolone, metronidazole, midazolam, milrinone,	
	labetalol, leucovorin, levofloxacin, lidocaine (lignocaine), linezolid, lorazepam, magnesium sulfate,	
	glycopyrrolate, heparin, hydralazine, hydrocortisone, imipenem-cilastin, insulin regular, isoproterenol,	
	fentanyl, fluconazole, fluorouracil, foscarnet, fosphenytoin, furosemide, ganciclovir, gentamicin,	
	doxycycline, enalaprilat, ephedrine, adrenaline (epinephrine), erythromycin lactobionate, esmolol,	
	dexamethasone, dexmedetomidine, digoxin, diltiazem, diphenhydramine, dobutamine, dopamine,	
	cefotetan, cefoxitin, ceftazidime, ceftizoxime, ceftriaxone, cefuroxime, ciprofloxacin, clindamycin,	
	calcium chloride, calcium gluconate, capreomycin, caspofungin, cefazolin, cefepime, cefotaxime,	
	anidulafungin, atenolol, atracurium, azithromycin, aztreonam, bivalirudin, buprenorphine, busulfan,	
	B conventional colloidal, amphotericin B lipid complex, amphotericin B liposome, ampicillin,	
	Y-site: Aciclovir, alfentanil, allopurinol, amifostine, amikacin, aminophylline, amiodarone, amphotericin	
	release of insulin and affects blood glucose regulation.	
	Sodium chloride 0.9% is the preferred infusion fluid for most indications as octreotide inhibits the	
Compatibility	Fluids: Glucose 5%, sodium chloride 0.9%.	
	Thrombocytopenia.	
	Hypothyroidism or decreased thyroid stimulating hormone (TSH) with prolonged usage.	
	Cholelithiasis, cholecystitis with prolonged usage.	
	Hepatitis and deranged liver functions.	
	Pulmonary hypertension.	
	Hypotension (can be severe).	
	Necrotising enterocolitis.	
reactions	Hyperglycaemia. Abdominal distension.	
Adverse	Digoxin: Octreotide may decrease digoxin exposure.	
	Ciclosporin: Octreotide may reduce serum levels and effects of ciclosporin.	
	Octreotide may decrease the metabolic clearance of drugs metabolised by CYP450 enzymes.	
	ondansetron, tacrolimus, sodium phosphate, and voriconazole.	
	cotrimoxazole, erythromycin, fluconazole, foscarnet, phenothiazides, pentamadine, metronidazole,	
	torsades de pointes, cardiac arrest): Azithromycin, clarithromycin, chloral hydrate, ciprofloxacin,	
	Concurrent use of the following drugs may result in increased risk of cardiotoxicity (QT prolongation,	
Drug interactions	Drug classes: Antipsychotics, antiarrhythmic agents, QT prolonging agents, somatostatin analogues.	
	due to its effect on glucose regulation. ⁽¹⁴⁾	
Precautions	Dose adjustments to medications e.g. diazoxide and insulin may be required during octreotide therapy	
Contraindications	Hypersensitivity to octreotide or to any component of the formulation.	
Monitoring	injection: Rotate the site of injection. Blood glucose levels, vital signs, liver function tests, full blood count	
	SC: Injection or continuous infusion (discuss with Paediatric Endocrinologist). For intermittent SC	

dose of 5-25 microgram/kg/day. In 3 patients, a clinically meaningful rise in blood glucose was achieved and therapy was continued. The SCORCH registry included 19 patients treated by SC octreotide, by continuous infusion or multiple daily injections. No serious adverse effects were observed in either of the studies. ⁽⁵⁾ Demirbilek et al reported on the usage of octreotide in 28 congenital hyperinsulinism infants. Octreotide was commenced at 5 microgram/kg/day as a continuous SC infusion with an incremental increase of 5 microgram/kg/day every 3–5 days to the maximum dose of 30 microgram/kg/day. Before discharge from the hospital, the SC infusion was changed to an equivalent dose in SC injections at 6-hour intervals. ⁽¹¹⁾ Pan et al reported usage of octreotide in 7 small for gestational age neonates with HH who received octreotide at an initial dose of 5 microgram/kg/day through SC injections at 8-hour intervals; dose was increased in increments of 2–5 microgram/kg/day every 3–5 days to the maximum dose of 30 microgram/kg/day. ⁽¹⁶⁾ All patients had a glycaemic respons to octreotide, and no major adverse events were observed during the treatment. ⁽¹⁶⁾ McMahon et al	controlled trials and all the identified studies were case reports. ⁽²⁾ Of the 19 case reports of 20
neonates, 14 reported successful resolution of chylothorax. It was given either subcutaneously (ISC) or intravenously (IW). The dose ranged between 10 to 70 microgram/kg/day SC and between 0.3 and 10 microgram/kg/hours and IV infusion. The frequency of administration ranged from 6 to 24 hourly for SC and was mostly by continuous infusion for IV administration. The duration of administration varied between 4 and 21 days. Gastrointestinal intolerance, necrotising enterocolitis like illness and transient hypothyrolidism were reported as side effects. ¹⁰⁴ A systematic review by Bellini et al included 39 case reports. Octreotide was effective in 53% of congenital and 33% of acquired chylothorax. ¹⁰⁷ The median initial dose was 2 microgram/kg/hour. Side effects were reported in 14.3% of patients. A prospective observational study from New South Wales evaluated the standard octreotide protocol in neonates with congenital duration of 20 days (range 12–27). The starting dose was 0.5–1 microgram/kg/hour. Resolution of chylothorax was achieved in 5 patients, being resistant to treatment in the 6 th patient. None had adverse effects. ¹⁰¹ A 2018 Australian case series reported 11 neonates. ¹⁰¹ Ten out of 11 were preterm with gestation and birthweight ranging from 28 to 38 weeks and 908–320. grespectively. The median duration of treatment was 17.5 days (7–26 days). Octreotide was administered as a continuous IV infusion in 9 cases. Octreotide was started at 1 microgram/kg/hour, increased by 1 microgram/kg/hours. Sto effects. ¹⁰¹ A 2018 Australian case series reported 11 Meonates. ¹⁰¹ Ten out of 11 were preterm with gestation on octreotide (16 microgram/kg/hour). Scorteotide (11–117 microgram/kg/hour with a median of 8 microgram/kg/hour. Sc octreotide (11–117 microgram/kg/hour median d18 microgram/kg/hour). Scorteotide (11–117 microgram/kg/hour median to 80 microgram/kg/hour). Scorteotide (11–117 microgram/kg/hour median d18 microgram/kg/hour). Scorteotide (11–117 microgram/kg/hour median d18 microgram/kg/hour). Scorte	
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reported octreotide use in 103 infants and children with HH. Octreotide was given SC in 53 of them and	
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	IV in 45 of them. Median (range) octreotide daily dose among 103 patients was 8.96 microgram/kg/day
(1.33-96 microgram/kg/day). ⁽¹⁷⁾ Laje et al reported octreotide usage in 192 infants with HH. They	
suggested an initial dose of 1-2 microgram/kg/day, increasing the dose as needed up to 40	
	microgram/kg/day. They suggested daily dose can be divided every 6 or 12 hour intervals and either IV
or SC route can be used. ⁽¹⁸⁾ Efficacy, dosing and side effects are summarised by experts in the field in 2	
articles. ^{12, 13)}	articles. ^(12, 13)

	The expert consensus recommends a dose of 5 microgram/kg/day SC in 6-8 hour interval and		
	increasing to a maximum of 30-35 microgram/kg/day. ^(12, 13) The dose in this formulary is the consensus		
	recommendation of the paediatric endocrine expert group of ANMF.		
	Safety		
	Doses used for treatment of chylothorax are larger than the dose required for treatment of hyperinsulinism. A systematic review by Bellini et al reported side effects in 14.2% of neonates treated		
	with IV octreotide for chylothorax. ⁽⁷⁾ Adverse events were observed in term and preterm infants		
	regardless of chylothorax aetiology, with the most severe cases (NEC and severe hypotension)		
	occurring in the postoperative chylothorax. In addition, no association with octreotide dose and		
	duration was observed. In the congenital chylothorax group, the following adverse events were		
	reported: hyperglycaemia (1.7%), mild distended abdomen (1.7%), transient mild cholestasis (1.7%),		
	transient hypothyroidism (1.7%), bloody stools (1.7%) and pulmonary hypertension (7%). In		
	postoperative chylothorax, one case of necrotising enterocolitis (NEC), one case of hyperglycaemia and		
	elevation of liver enzymes and one case of severe hypotension were reported. No association with		
	octreotide dose and duration was observed. ⁽⁷⁾ There were other recent case reports of NEC with IV		
	octreotide. ⁽¹⁹⁾ Side effects have also been reported with octreotide for hyperinsulinism but most side		
	effects are mild and transient but there are case reports of hepatitis and NEC associated with the use of		
	octreotide for hyperinsulinism. ^(5, 11, 15, 17, 18, 20-26)		
	Pharmacokinetics		
	The elimination half-life of octreotide is approximately 1.5 hours after both intravenous and		
	subcutaneous administration. ⁽¹⁾ Subcutaneous octreotide usually peaks within 30 minutes, and has a		
	plasma duration of action of up to 12 hours. ⁽¹⁾		
Practice points	4 Octorectide Minergeneley enline Accessed on 22 March 2022		
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