

Prescribing Protocol Template for New Drugs	
Title	Ravulizumab Prescribing Protocol
Areas where Protocol/Guideline applicable e.g. District, Hospital, ITU, Ward	Ambulatory Care Units and Haematology Oncology Day Centres within SESLHD
Areas where Protocol/Guideline not applicable	Areas other than those above
Authorised Prescribers	Haematology Consultants and Advanced Trainees
Indication for use	Ravulizumab is indicated for the treatment of adult patients with paroxysmal nocturnal haemoglobinuria (PNH).
Clinical condition	<p>Patients with a diagnosis of PNH by flow cytometry AND PNH Granulocyte clone size greater than or equal to 10% AND Lactate dehydrogenase (LDH) greater than or equal to 1.5 x Upper Limit of Normal (ULN) One of the following: Thrombosis requiring therapeutic anticoagulant therapy Anaemia where causes other than haemolysis have been excluded and demonstrated by more than one measure of less than or equal to 70g/L, or by more than one measure of less than or equal to 100g/L with concurrent symptoms of anaemia Pulmonary insufficiency with debilitating shortness of breath and/or chest pain resulting in limitation of normal activity and/or established diagnosis of pulmonary arterial hypertension where causes other than PNH have been excluded Renal insufficiency with eGFR less than or equal to 60mL/min/1.73m² where causes other than PNH have been excluded.</p>
Contra-indications	<p>Aplastic anaemia with two or more of:</p> <ul style="list-style-type: none"> - Neutrophil count <0.5 x 10⁹/L - Platelet count <20 x 10⁹/L - Reticulocytes <25 x 10⁹/L - Severe bone marrow hypocellularity <p>Presence of another life threatening disease or severe disease where the long term prognosis is unlikely to be influenced by therapy (e.g. acute myeloid leukaemia, high risk myelodysplastic syndrome)</p>
Precautions	Ravulizumab increases the risk of meningococcal infections. Patients must receive meningococcal vaccination prior to or at the time of initiating Ravulizumab. Patients who initiate Ravulizumab treatment less than 2 weeks after receiving a meningococcal vaccine must receive treatment with appropriate prophylactic antibiotics until 2 weeks after vaccination.
Place in Therapy	First line therapy

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If part of combination therapy, list other drugs	Nil
Dosage (Include dosage adjustment for specific patient groups)	Loading Dose (by patient's actual body weight): ≥ 40 to < 60kg - 2400mg ≥ 60 to < 100kg - 2700mg ≥ 100kg - 3000mg Maintenance doses should be administered at a once every 8-week interval, starting 2 weeks after loading dose administration Maintenance Dose (by patient's actual body weight): ≥ 40 to < 60kg - 3000mg ≥ 60 to < 100kg - 3300mg ≥ 100kg - 3600mg
Duration of therapy	Ongoing - PNH is a chronic disease and treatment with ravulizumab is recommended to continue for the patient's lifetime.
Important Drug Interactions	Live vaccines
Administration instructions	<p>Ravulizumab is administered IV, and must be diluted to a concentration of 5mg/mL with sodium chloride 0.9% prior to use. Please see appendix 1 for information regarding volume of diluent, total volume and infusion rate</p> <ul style="list-style-type: none"> • Ravulizumab should be prepared by a healthcare professional using aseptic technique. Prepare and administer in line with Work Health and Safety- Monoclonal Antibodies Safe Handling and Management SESLHDPR/368 • Ravulizumab must be diluted to a final concentration of 5 mg/mL. • The prescribed dose is determined based on the individual patient's weight (see above). • Each vial should be visually inspected; the solution should be free of any particulate matter or precipitation. Do not use if there is evidence of particulate matter or precipitation. • The calculated volume of should be withdrawn from the appropriate number of vials and diluted into required volume of sodium chloride 0.9% for infusion. • Mix gently, do not shake. <p>Administration-</p> <ul style="list-style-type: none"> • <i>For intravenous infusion <u>ONLY</u>, Do not administer as an intravenous push or bolus injection.</i> • The prepared solution should be administered immediately following preparation. If not used immediately after reconstitution, storage times must not exceed 24 hours at 2°C – 8°C or 6 hours at room temperature.

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	<p>any signs and symptoms of infusion reactions during the remainder of the infusion.</p> <p>Any patient experiencing an infusion reaction should be observed in the clinic until resolution of the reaction, or until the treating medical officer determines the patient is no longer at risk.</p>
<p>Basis of Protocol/Guideline (including sources of evidence, references)</p>	<p>Australian Product Information - Ultomiris (Ravulizumab RCH) concentrated solution for intravenous infusion</p>
<p>Groups consulted in development of this protocol</p>	<p>Haematology department, St George Hospital, Manufacturer, Ambulatory Care Unit, St George Hospital</p>

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GOVERNANCE	
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Chairperson, QUM Committee	Dr John Shephard
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Appendix 1 – Dosing and Administration Guide

Dose Type	Body Weight (kg)	Dose (mg)	Ravulizumab Volume (mL)	Sodium chloride 0.9% Volume (mL)	Total Volume (mL)	Minimum Infusion Duration minutes (hours)	Maximum Infusion Rate (mL/hour)
Loading	≥ 40 to < 60	2400	240	240	480	114 (1.9)	253
	≥ 60 to < 100	2700	270	270	540	102 (1.7)	318
	≥ 100	3000	300	300	600	108 (1.8)	333
Maintenance	≥ 40 to < 60	3000	300	300	600	140 (2.4)	250
	≥ 60 to < 100	3300	330	330	660	120 (2.0)	330
	≥ 100	3600	360	360	720	132 (2.2)	328