

Prior Authorization Review Panel

CHC-MCO Policy Submission

A separate copy of this form must accompany each policy submitted for review. Policies submitted without this form will not be considered for review.

Plan: PA Health & Wellness	Submission Date: 11/01/2022
Policy Number: PA.CP.PHAR.415	Effective Date: 01/01/2018 Revision Date: 10/2022
Policy Name: Ravulizumab-cwvz (Ultomiris)	
Type of Submission – <u>Check all that apply</u> :	
☐ New Policy ✓ Revised Policy*	
☐ Annual Review - No Revisions	
Statewide PDL - Select this box when submitting policies when submitting policies for drug classes included on the	
*All revisions to the policy <u>must</u> be highlighted using track char	nges throughout the document.
Please provide any changes or clarifying information for the po	licy below:
RT4: criteria added for new FDA indication: gMG.	
Name of Authorized Individual (Please type or print):	Signature of Authorized Individual:
	Authorized individual:
Venkateswara R. Davuluri, MD	C Raulun
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CLINICAL POLICY

Ravulizumab-cwvz



Clinical Policy: Ravulizumab-cwvz (Ultomiris)

Reference Number: PA.CP.PHAR.415

Effective Date: 04/2019 Last Review Date: 10/2022

Coding Implications
Revision Log

Description

Ravulizumab-cwvz (Ultomiris $^{\text{\tiny TM}}$) is a complement inhibitor.

FDA Approved Indication(s)

Ultomiris is indicated for the treatment of:

- Adult and pediatric patients one month of age and older with paroxysmal nocturnal hemoglobinuria (PNH)
- Adult and pediatric patients one month of age and older with atypical hemolytic uremic syndrome (aHUS) to inhibit complement-mediated thrombotic microangiopathy (TMA)
- Adult patients with generalized myasthenia gravis (gMG) who are anti-acetylcholine receptor (AChR) antibody-positive

Limitation(s) of use: Ultomiris is not indicated for the treatment of patients with Shiga toxin E. coli related hemolytic uremic syndrome (STEC-HUS).

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of PA Health & Wellness® that Ultomiris is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Paroxysmal Nocturnal Hemoglobinuria (must meet all):
 - 1. Diagnosis of PNH;
 - 2. Prescribed by or in consultation with a hematologist;
 - 3. Age \geq 18 years;
 - 4. Flow cytometry shows detectable glycosylphosphatidylinositol (GPI)-deficient hematopoietic clones or \geq 5% PNH cells;
 - 5. Member meets one of the following (a or b):
 - a. History of ≥ 1 transfusion in the past 24 months and (i or ii):
 - i. Documentation of hemoglobin < 7 g/dL in members without anemia symptoms;
 - ii. Documentation of hemoglobin < 10 g/dL in members with anemia symptoms;
 - b. History of thrombosis;
 - 6. Ultomiris is not prescribed concurrently with Empaveli[™] or Soliris[®];
 - 7. Dose does not exceed the following (a, b, and c):
 - a. Loading dose on Day 1:
 - i. Weight \geq 5 to < 10 kg: 600 mg;
 - ii. Weight \geq 10 to \leq 20 kg: 600 mg;



- iii. Weight \geq 20 to \leq 30 kg: 900 mg;
- iv. Weight $\ge 30 \text{ to} < 40 \text{ kg}$: 1,200 mg;
- v. Weight ≥ 40 to < 60 kg: 2,400 mg;
- vi. Weight ≥ 60 to < 100 kg: 2,700 mg;
- vii. Weight $\ge 100 \text{ kg}$: 3,000 mg;
- b. If member is switching therapy from Soliris, administration of the loading dose should occur 2 weeks after the last Soliris infusion;
- c. Maintenance dose on Day 15 and at the specified frequency thereafter:
 - i. Weight \geq 5 to \leq 10 kg: 300 mg every 4 weeks;
 - ii. Weight \geq 10 to \leq 20 kg: 600 mg every 4 weeks;
 - iii. Weight \geq 20 to \leq 30 kg: 2,100 mg every 8 weeks;
 - iv. Weight \geq 30 to \leq 40 kg: 2,700 mg every 8 weeks;
 - v. Weight \geq 40 to < 60 kg: 3,000 mg every 8 weeks;
 - vi. Weight \geq 60 to < 100 kg: 3,300 mg every 8 weeks;
 - vii. Weight \geq 100 kg: 3,600 mg every 8 weeks.

Approval duration: 6 months

B. Atypical Hemolytic Uremic Syndrome (must meet all):

- 1. Diagnosis of aHUS (i.e., complement-mediated HUS);
- 2. Prescribed by or in consultation with a hematologist or nephrologist;
- 3. Age ≥ 1 month;
- 4. Member has signs of TMA as evidenced by all of the following (a, b, and c):
 - a. Platelet count $\leq 150 \times 10^9 / L$;
 - b. Hemolysis such as an elevation in serum lactate dehydrogenase (LDH);
 - c. Serum creatinine above the upper limits of normal or member requires dialysis;
- 5. Documentation that member does not have either of the following:
 - a. A disintegrin and metalloproteinase with thombospondin type 1 motif, member 13 (ADAMTS13) deficiency;
 - b. STEC-HUS;
- 6. Ultomiris is not prescribed concurrently with Soliris;
- 7. Dose does not exceed the following (a, b, and c):
 - a. Loading dose on Day 1:
 - i. Weight \geq 5 to < 10 kg: 600 mg;
 - ii. Weight \geq 10 to \leq 20 kg: 600 mg;
 - iii. Weight \geq 20 to < 30 kg: 900 mg;
 - iv. Weight $\ge 30 \text{ to} < 40 \text{ kg}$: 1,200 mg;
 - v. Weight $\ge 40 \text{ to} < 60 \text{ kg}$: 2,400 mg;
 - vi. Weight ≥ 60 to < 100 kg: 2,700 mg;
 - vii. Weight $\ge 100 \text{ kg}$: 3,000 mg;
 - b. If member is switching therapy from Soliris, administration of the loading dose should occur 2 weeks after the last Soliris infusion;
 - c. Maintenance dose on Day 15 and at the specified frequency thereafter:
 - i. Weight \geq 5 to \leq 10 kg: 300 mg every 4 weeks;
 - ii. Weight ≥ 10 to ≤ 20 kg: 600 mg every 4 weeks;
 - iii. Weight \geq 20 to < 30 kg: 2,100 mg every 8 weeks;
 - iv. Weight \geq 30 to \leq 40 kg: 2,700 mg every 8 weeks;



- v. Weight \geq 40 to \leq 60 kg: 3,000 mg every 8 weeks;
- vi. Weight \geq 60 to \leq 100 kg: 3,300 mg every 8 weeks;
- vii. Weight $\geq 100 \text{ kg}$: 3,600 mg every 8 weeks.

Approval duration: 6 months

C. Generalized Myasthenia Gravis (must meet all):

- 1. Diagnosis of gMG;
- 2. Prescribed by or in consultation with a neurologist;
- 3. Age \geq 18 years;
- 4. Myasthenia Gravis Activities of Daily Living (MG-ADL) score ≥ 6 at baseline;
- 5. Myasthenia Gravis Foundation of America (MGFA) clinical classification of Class II to IV;
- 6. Member has positive serological test for anti-AChR antibodies;
- 7. Failure of a corticosteroid (*see Appendix B*), unless contraindicated or clinically significant adverse effects are experienced;
- 8. Failure of a cholinesterase inhibitor (*see Appendix B*), unless contraindicated or clinically significant adverse effects are experienced;
- 9. Failure of at least one immunosuppressive therapy (*see Appendix B*), unless clinically significant adverse effects are experienced or all are contraindicated;
- 10. Ultomiris is not prescribed concurrently with Soliris or Vyvgart[™];
- 11. Dose does not exceed the following (a, b, and c):
 - a. Loading dose on Day 1:
 - i. Weight \geq 40 to < 60 kg: 2,400 mg;
 - ii. Weight \geq 60 to < 100 kg: 2,700 mg;
 - iii. Weight \geq 100 kg: 3,000 mg;
 - b. If member is switching therapy from Soliris, administration of the loading dose should occur 2 weeks after the last Soliris infusion;
 - c. Maintenance dose on Day 15 and at the specified frequency thereafter:
 - i. Weight \geq 40 to < 60 kg: 3,000 mg every 8 weeks;
 - ii. Weight \geq 60 to \leq 100 kg: 3,300 mg every 8 weeks;
 - iii. Weight > 100 kg: 3,600 mg every 8 weeks.

Approval duration: 6 months

D. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53 for Medicaid.

II. Continued Therapy

A. All Indications in Section I (must meet all):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
- 2. Member is responding positively to therapy as evidenced by, including but not limited to, improvement in any of the following parameters (a or b):
 - a. PNH:



- i. Improved measures of intravascular hemolysis (e.g., normalization of LDH);
- ii. Reduced need for red blood cell transfusions;
- iii. Increased or stabilization of hemoglobin levels;
- iv. Less fatigue;
- v. Improved health-related quality of life;
- vi. Fewer thrombotic events;
- b. aHUS:
 - i. Improved measures of intravascular hemolysis (e.g., normalization of LDH);
 - ii. Increased or stabilized platelet counts;
 - iii. Improved or stabilized serum creatinine or estimated glomerular filtration rate (eGFR);
 - iv. Reduced need for dialysis;
- c. gMG:
 - i. Improved MG-ADL total score as evidenced by a 2-point reduction from baseline:
- 3. Ultomiris is not prescribed concurrently with (a, b or c):
 - a. PNH: Empaveli or Soliris;
 - b. aHUS: Soliris;
 - c. gMG: Soliris or Vyvgart;
- 4. If request is for a dose increase, new dose does not exceed one of the following (a or b):
 - a. PNH/aHUS:
 - i. Weight \geq 5 to \leq 10 kg: 300 mg every 4 weeks;
 - ii. Weight ≥ 10 to ≤ 20 kg: 600 mg every 4 weeks;
 - iii. Weight \geq 20 to < 30 kg: 2,100 mg every 8 weeks;
 - iv. Weight \geq 30 to \leq 40 kg: 2,700 mg every 8 weeks;
 - v. Weight \geq 40 to \leq 60 kg: 3,000 mg every 8 weeks;
 - vi. Weight \geq 60 to \leq 100 kg: 3,300 mg every 8 weeks;
 - vii. Weight ≥ 100 kg: 3,600 mg every 8 weeks;
 - b. gMG:
 - i. Weight \geq 40 to \leq 60 kg: 3,000 mg every 8 weeks;
 - ii. Weight \geq 60 to \leq 100 kg: 3,300 mg every 8 weeks;
 - iii. Weight \geq 100 kg: 3,600 mg every 8 weeks.

Approval duration: 6 months

B. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53 for Medicaid.

III. Diagnoses/Indications for which coverage is NOT authorized:



- **A.** Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policY – PA.CP.PMN.53 for Medicaid or evidence of coverage documents.
- **B.** Amyotrophic lateral sclerosis.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

AChR: acetylcholine receptor ADAMTS13: a disintegrin and metalloproteinase with thombospondin

type 1 motif, member 13

aHUS: atypical hemolytic uremic

syndrome

FDA: Food and Drug Administration gMG: generalized myasthenia gravis GPI: glycosyl phosphatidylinositol

LDH: lactate dehydrogenase

MG-ADL: Myasthenia Gravis Activities of

Daily Living

MGFA: Myasthenia Gravis Foundation of

America

PNH: paroxysmal nocturnal hemoglobinuria

STEC-HUS: Shiga toxin E. coli related

hemolytic uremic syndrome

TMA: thrombotic microangiopathy

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business

and may require prior authorization

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Corticosteroids		
betamethasone	Oral: 0.6 to 7.2 mg PO per day	7.2 mg/day
dexamethasone	Oral: 0.75 to 9 mg/day PO	9 mg/day
methylprednisolone	Oral: 12 to 20 mg PO per day; increase as needed by 4 mg every 2-3 days until there is marked clinical improvement or to a maximum of 40 mg/day	40 mg/day
prednisone	Oral: 15 mg/day to 20 mg/day; increase by 5 mg every 2-3 days as needed. Maximum: 60 mg/day	60 mg/day
Cholinesterase Inhib	itors	
pyridostigmine	Oral immediate-release: 600 mg daily in	See regimen
(Mestinon®,	divided doses (range, 60-1500 mg daily in	
Regonol®)	divided doses)	
	Oral sustained release: 180-540 mg QD or BID	
	IV or IM: 2 mg every 2-3 hours	
neostigmine	Oral: 15 mg TID. The daily dosage should be	See regimen
(Bloxiverz®)	gradually increased at intervals of 1 or more	
	days. The usual maintenance dosage is 15-375	
	mg/day (average 150 mg)	
	IM or SC: 0.5 mg based on response to therapy	
Immunosuppressant	S	



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
azathioprine	Oral: 50 mg QD for 1 week, then increase	3 mg/kg/day
(Imuran [®])	gradually to 2 to 3 mg/kg/day	
mycophenolate	Oral: Dosage not established. 1 gram BID has	2 g/day
mofetil (Cellcept®)*	been used with adjunctive corticosteroids or	
	other non-steroidal immunosuppressive	
	medications	
cyclosporine	Oral: initial dose of cyclosporine (non-	5 mg/kg/day
(Sandimmune®)*	modified), 5 mg/kg/day in 2 divided doses	
Rituxan® (rituximab),	IV: 375 mg/m ² once a week for 4 weeks; an	See regimen
Riabni [™] (rituximab-	additional 375 mg/m ² dose may be given every	-
arrx), Ruxience [™]	1 to 3 months afterwards	
(rituximab-pvvr),		
Truxima® (rituximab-		
abbs)* [†]		

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.
*Off-label

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): patients with unresolved *Neisseria Meningitidis* infection; patients who are not currently vaccinated against Neisseria meningitidis, unless the risks of delaying Ultomiris treatment outweigh the risks of developing a meningococcal infection
- Boxed warning(s): serious meningococcal infections

Appendix D: General Information

- Ultomiris is only available through a REMS (Risk Evaluation and Mitigation Strategy) program due to the risk of life-threatening and fatal meningococcal infection. Patients should be vaccinated with a meningococcal vaccine at least 2 weeks prior to receiving the first dose of Ultomiris and revaccinated according to current medical guidelines for vaccine use. Patients should be monitored for early signs of meningococcal infections, evaluated immediately if infection is suspected, and treated with antibiotics if necessary.
- Examples of symptoms of anemia include but are not limited to: dizziness or lightheadedness, fatigue, pale or yellowish skin, shortness of breath, chest pain, cold hands and feet, and headache.
- Ultomiris is a humanized monoclonal antibody to complement component C5 that was engineered from Soliris. It is virtually identical to Soliris but has a longer half-life that allows for less frequent dosing intervals.
- In August 2021, Alexion announced it is discontinuing the global CHAMPION-ALS phase 3 clinical study of Ultomiris in adults with amyotrophic lateral sclerosis due to an interim data review showing a lack of efficacy.
- The MGFA classification has some subjectivity in it when it comes to distinguishing mild (Class II) from moderate (Class III) and moderate (Class III) from severe (Class IV). Furthermore, it is insensitive to change from one visit to the next.

[†]Prior authorization is required for rituximab products



• gMG: a 2-point reduction in MG-ADL total score is considered a clinically meaningful improvement. The scale can be accessed here: https://myasthenia.org/Portals/0/ADL.pdf

V. Dosage and Administration

Indication	Dosing Regimen*	:		Maximum Dose
PNH,	Body Weight	Loading	Maintenance	3,600 mg/
aHUS	Range (kg)	Dose (mg)	Dose (mg)	8 weeks
	\geq 5 to < 10	600	300 every 4 weeks	
	$\geq 10 \text{ to} < 20$	600	600 every 4 weeks	
	\geq 20 to < 30	900	2,100 every 8 weeks	
	\geq 30 to < 40	1,200	2,700 every 8 weeks	
	\geq 40 to < 60	2,400	3,000 every 8 weeks	
	\geq 60 to < 100	2,700	3,300 every 8 weeks	
	≥ 100	3,000	3,600 every 8 weeks	
	Day 1: Loading do	se IV		
	Day 15 and thereafter: Maintenance dose IV			
gMG	Body Weight	Loading	Maintenance	3,600 mg/
	Range (kg)	Dose (mg)	Dose (mg)	8 weeks
	\geq 40 to < 60	2,400	3,000 every 8 weeks	
	\geq 60 to < 100	2,700	3,300 every 8 weeks	
	≥ 100	3,000	3,600 every 8 weeks	
	Day 1: Loading dose IV			
	•		aintenance dose IV	

^{*}For patients switching from eculizumab to Ultomiris, administer the loading dose of Ultomiris IV 2 weeks after the last eculizumab infusion, and then administer maintenance doses IV once at the specified frequency, starting 2 weeks after loading dose administration.

VI. Product Availability

Single-dose vials: 300 mg/30 mL, 300 mg/3 mL, 1,100 mg/11 mL

VII. References

- 1. Ultomiris Prescribing Information. Boston, MA: Alexion Pharmaceuticals, Inc.; April 2022. Available at: www.ultomiris.com. Accessed June 09, 2022.
- 2. Parker C, Omine M, Richards S, et al. Diagnosis and management of paroxysmal nocturnal hemoglobinuria. Blood 2005; 106(12):3699-3709. doi:10.1182/blood-2005-04-1717.
- 3. Loirat C, Fakhouri F, Ariceta G, et al. An international consensus approach to the management of atypical hemolytic uremic syndrome in children. Pediatr Nephrol. 2016; 31: 15-39.
- 4. AstraZeneca. Update on CHAMPION-ALS Phase III trial of Ultomiris in amyotrophic lateral sclerosis. Press release published August 20, 2021. Available at: https://www.astrazeneca.com/media-centre/press-releases/2021/update-on-ultomiris-phase-iii-als-trial.html. Accessed September 15, 2021.
- 5. Narayanaswami P, Sanders DB, Wolfe G, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114-122.
- 6. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidelines for the management of myasthenia gravis. Neurology. 2016; 87: 419-425.



7. ClinicalTrials.gov. NCT03920293. Safety and efficacy study of ravulizumab in adults with generalized myasthenia gravis. Available at www.clinicaltrials.gov. Accessed June 09, 2022.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J1303	Injection, ravulizumab-cwvz, 300 mg

Reviews, Revisions, and Approvals	Date	P&T
		Approval
		Date
Policy created.	04/2019	
1Q 2020 annual review: added language to clarify timing of	01/2020	
loading dose when switching from Soliris; criteria added for new		
FDA indication: aHUS; references reviewed and updated.		
1Q 2021 annual review: added requirement against concurrent use	01/2021	
with Soliris; added new strength vials- 300 mg/3 mL and 1,100		
mg/11 mL; references reviewed and updated.		
1Q 2022 annual reviewed: RT4: updated age and dosing	01/2022	
requirements for PNH per FDA pediatric expansion (from age at		
least 18 years to age at least 1 month); for PNH, added requirement		
for no concurrent use with Empaveli; added amyotrophic lateral		
sclerosis to section III as an indication not covered due to lack of		
efficacy; references reviewed and updated.		
RT4: criteria added for new FDA indication: gMG.	10/2022	