

# **Prior Authorization Review Panel**

# **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: 02/01/2021	
Policy Number: PA.CP.PHAR.97	Effective Date: 01/2018 Revision Date: 01/2021	
Policy Name: Eculizumab (Soliris)		
Type of Submission – <u>Check all that apply</u> :		
<ul><li>□ New Policy</li><li>✓ Revised Policy*</li></ul>		
<ul> <li>□ Annual Review - No Revisions</li> <li>□ Statewide PDL - Select this box when submitting policies fo when submitting policies for drug classes included on the Statement of th</li></ul>		
*All revisions to the policy <u>must</u> be highlighted using track chang	es throughout the document.	
Please provide any changes or clarifying information for the police	ey below:	
1Q 2021 annual review: for PNH and aHUS, added requirement against concurrent use with Ultomiris; for NMOSD, specified that Ruxience is the preferred rituximab product; references reviewed and updated.		
Name of Authorized Individual (Please type or print):	Signature of Authorized Individual:	
Auren Weinberg, MD	Sus	



# Clinical Policy: Eculizumab (Soliris)

Reference Number: PA.CP.PHAR.97

Effective Date: 01/2018 Last Review Date: 02/2021 Coding Implications
Revision Log

# **Description**

Eculizumab (Soliris®) is a complement inhibitor.

# **FDA Approved Indication(s)**

Soliris is indicated for the treatment of:

- Patients with paroxysmal nocturnal hemoglobinuria (PNH) to reduce hemolysis
- Patients 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
- Adult patients with neuromyelitis optica spectrum disorder (NMOSD) who are antiaquaporin-4 (AQP4) antibody positive.

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

# Policy/Criteria

It is the policy of health plans affiliated with Pennsylvania Health and Wellness that Soliris 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 GPI-deficient hematopoietic clones or ≥ 10% PNH cells:
- 5. Member meets one of the following (a or b):
  - a. History of  $\geq 1$  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 < 9 g/dL in members with anemia symptoms;
  - b. History of thrombosis;
- 6. Soliris is not prescribed concurrently with Ultomiris<sup>®</sup>;
- 7. Dose does not exceed 600 mg for the first 4 weeks, followed by 900 mg for the fifth dose 1 week later, then 900 mg every 2 weeks thereafter.

#### **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  $\geq$  2 months;
- 4. Member has signs of TMA as evidenced by all of the following (a, b, and c):
  - a. Platelet count  $< 150 \times 10^9/L$ ;
  - 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 thrombospondin type 1 motif, member 13 (ADAMTS13) deficiency;
  - b. STEC-HUS:
- 6. Soliris is not prescribed concurrently with Ultomiris®;
- 7. Dose does not exceed 900 mg for the first 4 weeks, followed by 1,200 mg for the fifth dose 1 week later, then 1,200 mg every 2 weeks thereafter.

## **Approval duration: 6 months**

# C. Generalized Myasthenia Gravis (must meet all):

- 1. Diagnosis of gMG;
- 2. Prescribed by or in in consultation with a neurologist;
- 3. Age  $\geq$  18 years;
- 4. Myasthenia Gravis-Activities of Daily Living (MG-ADL) score of 6 or more at baseline;
- 5. Myasthenia Gravis Foundation of America Clinical Classification (MGFA) Class II to IV:
- 6. Member has positive serologic 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 two immunosuppressive therapies (*see Appendix B*) unless clinically significant adverse effects are experienced or all are contraindicated;
- 10. Dose does not exceed 900 mg/week for the first 4 weeks, followed by 1,200 mg for the fifth dose 1 week later, then 1,200 mg every 2 weeks thereafter.

#### **Approval duration: 6 months**

### **D. Neuromyelitis Optica Spectrum Disorder** (must meet all):

- 1. Diagnosis of NMOSD;
- 2. Prescribed by or in in consultation with a neurologist;
- 3. Age  $\geq$  18 years;
- 4. Member has positive serologic test for anti-AQP4 antibodies;
- 5. Member has experienced at least one relapse within the previous 12 months;
- 6. Member meets one of the following (a or b):
  - a. History of at least two relapses during the previous 12 months;
  - b. History of three relapses during the previous 24 months;
- 7. Baseline expanded disability status scale (EDSS) score of  $\leq 7$ ;
- 8. Failure of rituximab\* (Ruxience is preferred) at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced; \*Prior authorization may be required for rituximab



- 9. Soliris is not prescribed concurrently with rituximab, Enspryng<sup>TM</sup>, or Uplizna<sup>®</sup>;
- 10. Dose does not exceed 900 mg per week for the first 4 weeks, followed by 1,200 mg for the fifth dose 1 week later, then 1,200 mg every 2 weeks thereafter.

**Approval duration: 6 months** 

E. Other diagnoses/indications: Refer to PA.CP.PMN.53

#### **II. Continued Approval**

- **A.** Paroxysmal nocturnal hemoglobinuria and Atypical hemolytic uremic syndrome (must meet all):
  - 1. Currently receiving medication via Pennsylvania Health and Wellness benefit or member has previously met all initial approval criteria 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);
    - c. Reduced need for dialysis;
  - 3. Soliris is not prescribed concurrently with Ultomiris;
  - 4. If request is for a dose increase, new dose does not exceed (a or b):
    - a. For PNH: 900 mg every 2 weeks;
    - b. For aHUS: 1,200 mg every 2 weeks.

**Approval duration: 12 months** 

#### **B.** Generalized Myasthenia Gravis (must meet all):

- 1. Currently receiving medication via Pennsylvania Health and Wellness benefit or member has previously met all initial approval criteria or the Continuity of Care Policy (PA.LTSS.PHAR.01) applies;
- 2. Member is responding positively to therapy as evidenced by a 2-point reduction in MG-ADL total score;
- 3. If request is for a dose increase, new dose does not exceed 1,200 mg every 2 weeks.

**Approval duration: 12 months** 

# C. Neuromyelitis Optica Spectrum Disorder (must meet all):



- 1. Currently receiving medication via Pennsylvania Health and Wellness benefit or member has previously met all initial approval criteria or the Continuity of Care Policy (PA.LTSS.PHAR.01) applies;
- 2. Member is responding positively to therapy including but not limited to improvement or stabilization in any of the following parameters:
  - a. Frequency of relapse;
  - b. EDSS:
  - c. Visual acuity;
- 3. Soliris is not prescribed concurrently with rituximab, Enspryng, or Uplizna;
- 4. If request is for a dose increase, new dose does not exceed 1,200 mg every 2 weeks.

# **Approval duration: 6 months**

#### **D. Other diagnoses/indications** (must meet 1 or 2):

- 1. Currently receiving medication via Pennsylvania Health and Wellness benefit and documentation supports positive response to therapy or the Continuity of Care Policy (PA.LTSS.PHAR.01) applies; or
- 2. Refer to PA.CP.PMN.53

#### 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 policies PA.CP.PMN.53
- B. STEC-HUS.
- C. Antiphospholipid syndrome (D68.61);
- **D.** Unspecified nephritic syndrome with other morphologic changes (N05.8).

#### IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

AchR: acetylcholine receptor

ADAMTS13: a disintegrin and

metalloproteinase with thrombospondin type 1 motif, member 13

aHUS: atypical hemolytic uremic

syndrome

AQP-4: Aquaporin-4

EDSS: Expanded Disability Status Scale

FDA: Food and Drug Administration

gMG: generalized myasthenia gravis

LDH: lactate dehydrogenase

MG-ADL: Myasthenia Gravis-Activities of

Daily Living

MGFA: Myasthenia Gravis Foundation of

America Clinical Classification

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	40 mg/day
	by 4 mg every 2-3 days until there is marked	
	clinical improvement or to a maximum of 40	
	mg/day	
prednisone	Oral: 15 mg/day to 20 mg/day; increase by 5 mg	60 mg/day
	every 2-3 days as needed. Maximum: 60 mg/day	
Cholinesterase Inhi		
pyridostigmine	Oral immediate-release: 600 mg daily in divided	See regimen
(Mestinon®,	doses (range, 60-1500 mg daily in divided doses)	
Regonol®)	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)	
T	IM or SC: 0.5 mg based on response to therapy	
Immunosuppressan		2 mg/kg/day
azathioprine	Oral: 50 mg QD for 1 week, then increase	3 mg/kg/day
(Imuran®)	gradually to 2 to 3 mg/kg/day	2 a/day
mycophenolate mofetil	Oral: Dosage not established. 1 gram BID has been used with adjunctive corticosteroids or	2 g/day
(Cellcept®)*	other non-steroidal immunosuppressive	
(Cencept*)	medications	
cyclosporine	Oral: initial dose of cyclosporine (Non-	5 mg/kg/day
(Sandimmune®)*	modified), 5 mg/kg/day in 2 divided doses	5 mg/kg/day
Rituxan®	IV: 375 mg/m <sup>2</sup> once a week for 4 weeks; an	See regimen
(rituximab),	additional 375 mg/m <sup>2</sup> dose may be given every 1	See regimen
Ruxience <sup>TM</sup>	to 3 months afterwards	
(rituximab-pvvr),		
Truxima®	NMOSD	
(rituximab-	IV: 375 mg/m <sup>2</sup> per week for 4 weeks as	
abbs)* <sup>†</sup> * <sup>†</sup>	induction, followed by 375 mg/m <sup>2</sup> biweekly	
/	every 6 to 12 months	

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

<sup>†</sup>Prior authorization is required for rituximab products

# CLINICAL POLICY Eculizumab



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

# Appendix D: General Information

- Soliris 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 Soliris 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.
- The Advisory Committee on Immunization Practices (ACIP)'s recommendations regarding the meningococcal vaccine are found here: <a href="http://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/mening.html">http://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/mening.html</a>
- Examples of positive response to therapy include:
  - PNH: improved measures of intravascular hemolysis (e.g., normalization of lactate dehydrogenase [LDH]), reduced need for red blood cell transfusions, less fatigue, improved health-related quality of life, fewer thrombotic events;
  - o aHUS: decreased need for plasma therapy (plasma exchange or plasma infusion), decreased need for dialysis, increased glomerular filtration rate, normalization of platelet counts and/or LDH levels;
  - gMG: A 2-point reduction in MG-ADL total score is considered a clinically meaningful improvement. The scale can be accessed here: <a href="https://myasthenia.org/Portals/0/ADL.pdf">https://myasthenia.org/Portals/0/ADL.pdf</a>
  - o NMOSD: Stabilization or reduction in EDSS total score. EDSS ranges from 0 (no disability) to 10 (death).
- 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.
- Aquaporin-4 (AQP-4): AQP-4-IgG-seroposotive status is confirmed with the use of commercially available cell-binding kit assay (Euroimmun).
- 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.
- Coverage is excluded for the following indications. The use of Soliris for these
  indications is considered investigational due to lack of conclusive, evidence-based data
  with randomized controlled trials. As such, alternative therapies for these indications
  include:
  - o Antiphospholipid syndrome: anticoagulation therapy (e.g., vitamin K antagonists)
  - o Unspecified nephritic syndrome with other morphologic changes: immunosuppression (e.g., prednisone, mycophenolate mofetil)

### V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Indication	Dasing Regimen	Maximiim Dase

# CLINICAL POLICY Eculizumab



PNH	IV infusion: 600 mg weekly for the first 4 weeks,	900 mg/dose
	followed by 900 mg for the fifth dose 1 week later,	
	then 900 mg every 2 weeks thereafter	
aHUS	IV infusion: 900 mg weekly for the first 4 weeks,	1,200 mg/dose
	followed by 1,200 mg for the fifth dose 1 week	
	later, then 1,200 mg every 2 weeks thereafter	
gMG,	IV infusion: 900 mg every 7 days for the first 4	1,200 mg/dose
NMOSD	weeks, followed by a single dose of 1,200 mg 7	
	days after the fourth dose, and then 1,200 mg	
	every 2 weeks thereafter	

#### VI. Product Availability

Single-dose vials: 300 mg/30 mL

#### VII. References

- 1. Soliris Prescribing Information. New Haven, CT: Alexion Pharmaceuticals, Inc.; June 2019. Available at: www.soliris.net. Accessed October 20, 2020.
- 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. Borowitz MJ, Craig FE, DiGiuseppe JA, et al. Guidelines for the diagnosis and monitoring of paroxysmal nocturnal hemoglobinuria and related disorders by flow cytometry. Cytometry Part B (Clinical Cytometry). 2010; 78B: 211–230.
- CDC. Meningococcal ACIP Vaccine Recommendations. Advisory Committee for Immunization Practices (ACIP). MMWR 2017. Available at <a href="http://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/mening.html">http://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/mening.html</a>. Accessed October 27, 2019.
- 5. 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.
- 6. Howard JF, et al. Safety and efficacy of eculizumab in anti-acetylcholine receptor antibody-positive refractory generalised myasthenia gravis (REGAIN): a phase 3, randomised, double-blind, placebo-controlled, multicenter study. Lancet Neurol. 2017; 16(12): 976-986.
- 7. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidelines for the management of myasthenia gravis. Neurology. 2016; 87: 419-425.
- 8. Muppidi S. The myasthenia gravis-specific activities of daily living profile. Ann N Y Acad Sci. 2012; 1274:114-119.
- **9.** Pittock SJ, et al. Eculizumab in aquaporin-4-postive neuromyelitis optica spectrum disorder. NEJM. May 2019. DOI:10.1056.
- 10. Canaud G, Kamar N, Anglicheau D, et al. Eculizumab improves posttransplant thrombotic microangiopathy due to antiphospholipid syndrome recurrence but fails to prevent chronic vascular changes. Am J Transplant. 2013;13(8):2179-2185.
- 11. Lebreton C, Bacchetta J, Dijoud F, et al. C3 glomerulopathy and eculizumab: A report on four paediatric cases. Pediatr Nephrol. 2017;32(6):1023-1028.
- 12. Sellner J, Boggild M, Clanet M, et al. EFNS guidelines on diagnosis and management of neuromyelitis optica. European Journal of Neurology. 2010; 17: 1019–1032.

# CLINICAL POLICY Eculizumab



# **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
J1300	Injection, eculizumab 10 mg

Reviews, Revisions, and Approvals	Date	Approval Date
No criteria changes	04/13	
Converted from SGM to Centene policy template	05/13	05/13
Removed pregnancy and dosing questions from Figure 1 Added clinical trial information for PNH and updated safety information	04/14	05/14
Corrected Figure 2 to say "Elevated LDH levels $\geq$ 1.5 x ULN" and not $\leq$ 1.5	03/15	04/15
Policy converted to new template.  Age, dosing, and monitoring criteria added per PI; diagnostic criteria edited as follows:  PNH: "type III red" is removed – does not have to be RBCs; thrombosis edited to be any thrombosis and not limited by PNH clonal size; specific LDH and Hgb levels deleted; App C - "disabling symptom ms" – is incorporated directly into the diagnostic criteria set. aHUS: the required clinical triad is edited to read AND rather than AND/OR.  Efficacy criteria on re-auth splits information from App E, which is a combo of efficacy criteria for the two disease states, and places it directly into the appropriate disease state criteria set.	03/16	04/16
Removed requirement of <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenza</i> type b (Hib) infections. Modified initial and approval duration to 6 months and 12 months respectively. Removed age requirements. Added max dose to continued approval criteria	03/17	04/17
For PNH, removed conditions constituting severe PNH that are not objective/specific. Modified requirement for 4 transfusions in last 12 months to 1 transfusion in the last 24 months per the inclusion criteria of the second pivotal trial for approval. For aHUS, removed requirements for specific clinical presentation as a specialist is required to be involved in the care. Removed requirement for causes of aHUS to be ruled out as this is non-specific and under the purview of the provider. For PNH and aHUS, removed contraindication for Neisseria meningitidis infection as this is covered by the REMS program. Added age requirements per prescribing information. Added	02/18	





Reviews, Revisions, and Approvals	Date	Approval Date
nephrologist as a prescriber option for aHUS. Removed criteria		
surrounding meningococcal vaccination as this is covered by the		
Soliris REMS program. Added STEC-HUS as an indication not		
covered. Modified all approval durations to 6 months. Added		
generalized myasthenia gravis indication and criteria for approval.		
References reviewed and updated.		
2Q 2019 annual review: Added note to appendix B that prior	04/19	
authorization is required for Rituxan; Aligned criteria with Ultomiris		
policy; for PNH, allowed documentation of detectable GPI-deficient		
hematopoietic clones for flow cytometry; specified examples of		
positive response to therapy in Section II.A; references reviewed and		
updated.		
1Q 2020 annual review: aHUS initial criteria and PNH/aHUS	01/20	
continued criteria updated to align with Ultomiris criteria; Criteria		
added for new FDA indication: neuromyelitis optica spectrum		
disorder; references reviewed and updated.		
For NMOSD added redirection to rituximab product and added	10/2020	
requirement against concurrent use with rituximab, Enspryng, or		
Uplizna; added antiphospholipid syndrome and unsp nephritic		
syndrome with other morphologic changes to Section III diagnoses		
not covered; references reviewed and updated		
1Q 2021 annual review: for PNH and aHUS, added requirement	01/2021	
against concurrent use with Ultomiris; for NMOSD, specified that		
Ruxience is the preferred rituximab product; references reviewed and		
updated.		