

Soliris® (eculizumab) (Intravenous)

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I. Length of Authorization

PNH and aHUS: Coverage will be provided for twelve months and may be renewed.

gMG: Initial coverage will be provided for 6 months and may be renewed annually thereafter.

II. Dosing Limits

A. Quantity Limit (max daily dose) [Pharmacy Benefit]:

Loading Doses:

3 vials Days 1, 8, 15, & 22; then 4 vials Day 29

Maintenance Dose:

4 vials every 14 days

B. Max Units (per dose and over time) [Medical Benefit]:

Indication	Loading Doses	Maintenance Dose
PNH	60 billable units Days 1, 8, 15, & 22; then 90 billable units Day 29	90 billable units every 14 days
aHUS, gMG	90 billable units Days 1, 8, 15, & 22; then 120 billable units Day 29	120 billable units every 14 days

III. Initial Approval Criteria

- Patient does not have a systemic infection; **AND**
- Patients must be administered a meningococcal vaccine at least two weeks prior to initiation of Soliris therapy and revaccinated according to current medical guidelines for vaccine use; **AND**
- Prescriber is enrolled in the Soliris Risk Evaluation and Mitigation Strategy (REMS) program; **AND**

Coverage is provided in the following conditions:

Paroxysmal Nocturnal Hemoglobinuria (PNH) †

- Patient is 18 years or older; **AND**
- Diagnosis must be accompanied by detection of PNH clones by flow cytometry diagnostic testing; **AND**
 - Demonstrate the presence of at least 2 different glycosylphosphatidylinositol (GPI) protein deficiencies (e.g. CD55, CD59, etc.) within at least 2 different cell lines (granulocytes, monocytes, erythrocytes); **AND**
- Patient has one of the following indications for therapy:
 - Presence of a thrombotic event
 - Presence of organ damage secondary to chronic hemolysis
 - Patient is pregnant and potential benefit outweighs potential fetal risk
 - Patient is transfusion dependent
 - Patient has high LDH activity (defined as $\geq 1.5 \times \text{ULN}$) with clinical symptoms
- Documented baseline values for one or more of the following (necessary for renewal): serum lactate dehydrogenase (LDH), hemoglobin level, and packed RBC transfusion requirement

Atypical Hemolytic Uremic Syndrome (aHUS) †

- Patient is 2 months or older; **AND**
- Thrombotic Thrombocytopenic Purpura (TTP) has been ruled out by evaluating ADAMTS-13 level (ADAMTS-13 activity level $> 10\%$); **AND**
- Shiga toxin *E. coli* related hemolytic uremic syndrome (STEC-HUS) has been ruled out; **AND**
- Other causes have been ruled out such as coexisting diseases or conditions (e.g. bone marrow transplantation, solid organ transplantation, malignancy, autoimmune disorder, drug-induced, malignant hypertension, HIV infection, etc.), *Streptococcus pneumoniae* or Influenza A (H1N1) infection, or cobalamin deficiency; **AND**
- Documented baseline values for one or more of the following (necessary for renewal): serum lactate dehydrogenase (LDH), serum creatinine/eGFR, platelet count, and plasma exchange/infusion requirement

Generalized Myasthenia Gravis (gMG) †

- Patient is 18 years or older; **AND**
- Patient has Myasthenia Gravis Foundation of America (MGFA) Clinical Classification of Class II to IV disease; **AND**
- Patient has a positive serologic test for anti-acetylcholine receptor (AChR) antibodies; **AND**
- Physician has assessed the baseline Quantitative Myasthenia Gravis (QMG) score; **AND**
- Patient has a MG-Activities of Daily Living (MG-ADL) total score of ≥ 6 ; **AND**

- Patient has failed treatment over at least 1 year with at least 2 immunosuppressive therapies (e.g. azathioprine, cyclosporine, mycophenolate, etc), or has failed at least 1 immunosuppressive therapy and required chronic plasmapheresis or plasma exchange (PE) or intravenous immunoglobulin (IVIG)

† FDA Approved Indication(s)

IV. Renewal Criteria

Coverage may be renewed based upon the following criteria:

- Patient continues to meet the criteria identified in section III; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include the following: serious meningococcal infections (septicemia and/or meningitis), infusion reactions, serious infections, thrombotic microangiopathy complications (TMA), etc.; **AND**
- Disease response indicated by one or more of the following:
 - PNH
 - Decrease in serum LDH from pretreatment baseline
 - Stabilization/improvement in hemoglobin level from pretreatment baseline
 - Decrease in packed RBC transfusion requirement from pretreatment baseline
 - aHUS
 - Decrease in serum LDH from pretreatment baseline
 - Stabilization/improvement in serum creatinine/eGFR from pretreatment baseline
 - Increase in platelet count from pretreatment baseline
 - Decrease in plasma exchange/infusion requirement from pretreatment baseline
 - gMG
 - Improvement of at least 3-points from baseline in the Myasthenia Gravis-Specific Activities of Daily Living scale (MG-ADL) total score
 - Improvement of at least 5-points from baseline in the Quantitative Myasthenia Gravis (QMG) total score

V. Dosage/Administration

Indication	Dose*
Paroxysmal nocturnal hemoglobinuria (PNH)	<u>Loading dose:</u> – 600 mg intravenously every 7 days for the first 4 weeks, followed by 900 mg intravenously for the fifth dose 7 days later <u>Maintenance dose:</u> – 900 mg intravenously every 14 days
Atypical hemolytic	Adults <u>Loading dose:</u>

uremic syndrome (aHUS)	<ul style="list-style-type: none"> – 900 mg intravenously every 7 days for the first 4 weeks, followed by 1,200 mg intravenously for the fifth dose 7 days later <p><u>Maintenance dose:</u></p> <ul style="list-style-type: none"> – 1200 mg intravenously every 14 days <p>Patients < 18 years</p> <p><u>5 kg - <10 kg:</u></p> <ul style="list-style-type: none"> – 300 mg weekly x 1 dose, 300 mg at week 2, then 300 mg every 3 weeks <p><u>10 kg - <20 kg:</u></p> <ul style="list-style-type: none"> – 600 mg weekly x 1 dose, 300 mg at week 2, then 300 mg every 2 weeks <p><u>20 kg - <30 kg:</u></p> <ul style="list-style-type: none"> – 600 mg weekly x 2 doses, 600 mg at week 3, then 600 mg every 2 weeks <p><u>30 kg - <40 kg:</u></p> <ul style="list-style-type: none"> – 600 mg weekly x 2 doses, 900 mg at week 3, then 900 mg every 2 weeks <p><u>≥ 40 kg:</u></p> <ul style="list-style-type: none"> – 900 mg weekly x 4 doses, 1200 mg at week 5, then 1200 mg every 2 weeks
Generalized Myasthenia Gravis (gMG)	<p><u>Loading dose:</u></p> <ul style="list-style-type: none"> – 900 mg intravenously every 7 days for the first 4 weeks, followed by 1,200 mg intravenously for the fifth dose 7 days later <p><u>Maintenance dose:</u></p> <ul style="list-style-type: none"> – 1200 mg intravenously every 14 days

Dose Adjustment for aHUS (adult and pediatric patients) and gMG (adult patients) in case of Plasmapheresis, Plasma Exchange or Fresh Frozen Plasma Infusion

<u>Type of Plasma Intervention</u>	<u>Most Recent Soliris Dose</u>	<u>Supplemental Soliris With Each Plasma Intervention</u>	<u>Timing of Supplemental Soliris Dose</u>
Plasmapheresis or plasma exchange (PE)	300 mg	300 mg per each plasmapheresis or PE	Within 60 minutes after each plasmapheresis or PE
	≥ 600 mg	600 mg per each plasmapheresis or PE	
Fresh frozen plasma infusion (FFP)	≥ 300 mg	300 mg per each infusion of FFP	60 minutes prior to each infusion of FFP

**Doses should be administered at the above intervals, or within two days of these time points.*

VI. Billing Code/Availability Information

Jcode:

J1300 – Injection, eculizumab, 10 mg; 1 billable unit = 10 mg

NDC:

Soliris 300 mg/30 mL single-use vials for injection: 25682-0001-xx

VII. References

1. Soliris [package insert]. New Haven, CT; Alexion Pharmaceuticals, Inc; July 2018. Accessed August 2018.
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3. Effect of eculizumab on hemolysis and transfusion requirements in patients with paroxysmal nocturnal hemoglobinuria. Hillmen P; Hall C; Marsh JC; Elebute M; Bombara MP; Petro BE; Cullen MJ; Richards SJ; Rollins SA; Mojcik CF; Rother RP. *N Engl J Med* 2004 Feb 5;350(6):552-9.
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13. Wisconsin Physicians Service Insurance Corporation. Local Coverage Determination (LCD): Drugs and Biologics (Non-chemotherapy) (L34741). Centers for Medicare & Medicaid Services, Inc. Updated on 05/24/2018 with effective date 06/01/2018. Accessed August 2018.
14. National Government Services, Inc. Local Coverage Article: Eculizumab (Soliris®) - Related to LCD L33394 (A54548). Centers for Medicare & Medicaid Services, Inc. Updated 11/22/2017 with effective dates 12/01/2017. Accessed August 2018.

Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
D59.3	Hemolytic-uremic syndrome
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]
G70.00	Myasthenia gravis without (acute) exacerbation
G70.01	Myasthenia gravis with (acute) exacerbation

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologics. In addition, National Coverage Determination (NCD) and Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. They can be found at: <http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx>. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD):

Jurisdiction(s): 5, 8	NCD/LCD Document (s): L34741 https://www.cms.gov/medicare-coverage-database/search/lcd-date-search.aspx?DocID=L34741&bc=gAAAAAAAAAAAAA
Jurisdiction(s): 6; K	NCD/LCD or Article Document (s): A54548 https://www.cms.gov/medicare-coverage-database/search/article-date-search.aspx?DocID=A54548&bc=gAAAAAAAAAAAAA

Medicare Part B Administrative Contractor (MAC) Jurisdictions

Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.

Medicare Part B Administrative Contractor (MAC) Jurisdictions

Jurisdiction	Applicable State/US Territory	Contractor
J (10)	TN, GA, AL	Palmetto GBA, LLC
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC