

Pharmacy Benefit Determination Policy

Policy Subject: Soliris & Ultomiris	Dates:
Policy Number: SHS PBD 19	Effective Date: April 25, 2018
Category: Monoclonal Antibody	Revision Date: March 6, 2019
Policy Type: 🛛 Medical 🗌 Pharmacy	Approval Date: February 27, 2019
Department: Pharmacy	Next Review Date: June 2020
Product (check all that apply):	Clinical Approval By:
<u>Product</u> (check all that apply): ⊠ Group HMO/POS	<u>Clinical Approval By</u> : Medical Directors
、	
	Medical Directors

Policy Statement:

Physicians Health Plan, PHP Insurance & Service Company, and Sparrow PHP will cover Soliris through the Medical Benefit based on approval by the Clinical Pharmacist or Medical Director using the following determination guidelines

Drugs and Applicable Coding:

J-code: Soliris J1300 (10mg/unit)

Clinical Determination Guidelines:

Document the following with chart notes

- A. Paroxysmal Nocturnal Hemoglobinuria (PNH)
 - 1. Age: > 18 years
 - 2. Prescriber: Hematologist or Nephrologist
 - 3. Diagnosis and severity (all below)
 - a. Flow cytometry: > 2 different GPI protein deficiencies within 2 different cell lines from granulocytes, monocytes, or erythrocytes
 - b. Transfusion dependent (1 below)
 - Hemoglobin (Hgb) ≤ 7 g/dL
 - Hemoglobin (Hgb) \leq 9 g/dL and experiencing symptoms of anemia
 - c. Lactate dehydrogenase (LDH) level: 1.5x the upper limit of normal range
 - 4. Dosage Regimen: See Appendix I
 - 5. Approval
 - a. Initial: 6 months
 - b. Re-approval: 6 months;
 - LDH level shows reduction from baseline (within 3 months)
 - Hgb stabilized: Did not required a transfusion and hgb 7-9g/dL (depending on baseline)



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- B. Atypical Hemolytic Uremic Syndrome (aHUS)
 - 1. Age: <u>></u>2 months
 - 2. Prescriber: Hematologist or nephrologist
 - 3. Diagnosis and severity: both below
 - a. Signs and symptoms: Microangiopathic hemolytic anemia, thrombocytopenia and acute kidney injury
 - b. Rule out: Shiga Toxin E. Coli-related Hemolytic Uremic Syndrome (STEC-HUS)
 - a. Dosage regimen: See Appendix I
 - 4. Approval
 - a. Initial: 6 months
 - b. Re-approval: 6 months (1 below)
 - Increase in platelet count from baseline
 - Maintenance of normal platelet count and LDH levels for > 4 weeks
 - 25% reduction in serum creatinine for <u>></u> 4 weeks
 - Lack of decrease platelets >25% from baseline (for <u>>12</u> weeks), plasma exchange or infusion <u>and</u> new dialysis requirement
- C. Generalized Myasthenia Gravis (MG)
 - 1. Prescriber: Neurologist
 - 2. Diagnosis and severity
 - a. Anti-AChR antibodies: Positive serologic test
 - b. Severity (both below): See Appendix II/III
 - GFA Clinical Classification of class: II, III, or IV
 - MG-ADL: Total score \geq 6 at initiation of therapy;
 - 3. Other therapies: Failed or had significant adverse effects (both below)
 - a. Immunosuppressive therapy: 2 below
 - Azathioprine, methotrexate, cyclosporine, mycophenolate for 4-6 weeks each over 1year time-period
 - b. Alternative treatment (1 below)
 - IVIG over 1 year
 - Plasmapheresis or plasma exchange x 2 over 1 year
 - 4. Dosage regimen: See Appendix 1
 - 5. Approval:
 - a. Initial: 1 month in combination with a stable regimen of immunosuppressive treatment
 - b. Re-approval: 2 months (usually treat total of 12 weeks)
 - Baseline immunosuppressive therapy (prior to starting Soliris): Maintenance, decrease, or discontinue
 - MG-ADL: 3-point improvement and/or maintenance of score from baseline
 - c. Treatment failure: No improvement in 4 weeks (e.g. add-on treatment, increased dose of immunosuppressive treatment, or additional MG rescue therapy from baseline)

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Appendix I: Dosage Regimens per Diagnosis				
Agent	Loading Dose	Maintenance Dose		
Soliris IV (eculi	zumab)			
PNH	600mg weekly x 4	900mg week 5, then 900mg every 2 weeks		
aHUS	900mg weekly x 4	1,200mg week 5, then 1,200mg every 2 weeks.		
		PPH: Last dose ≥ 600mg - 600mg; 300mg - 300mg @ 1 hr post		
Pediatric aHUS				
5 - <10Kg	300mg weekly x1	300mg @ week 2, then 300mg q 3 weeks.		
10 - <20Kg	600mg weekly x1	300mg @ week 2, then 300mg q 2 weeks.		
20 - <30Kg 30 - <u><</u> 40Kg	600mg weekly x 2 600mg weekly x 2	600mg @ week 3, then 600mg q 2 weeks. 900mg @ week 3, then 900mg q 2 weeks.		
<u>></u> 40Kg	900mg weekly x 4	1200mg @ week 5, then 1200mg q 2 weeks		
MG	900mg weekly x 4	1,200mg week 5, then 1,200mg every 2 weeks.		
1010	Sooning weekiy x 4	PPH: Last dose \geq 600mg - 600mg; 300mg - 300mg @ 1hr post		
Ultomiris IV (ra	vulizunab-cwvz)			
PNH				
<u>></u> 40 to <60Kg	2,400 mg	3,000 mg every 8 weeks, 2 weeks after the load		
≥60 kg to <100 kg		3,300 mg every 8 weeks, 2 weeks after the load		
≥100 kg	3,000 mg	3,600 mg every 8 weeks, 2 weeks after the load uria; PPH - plasmapheresis or plasma exchange.		
		ome; MG - Generalized Myasthenia Gravis		
	Clinical Classification	& MG-ADL ave weakness of eye closure. All other muscle strength is normal.		
Class II: Mild weaknes severity.	ss affecting muscles oth	er than ocular muscles; may also have ocular muscle weakness of any		
A. IIa. Predom orophar	yngeal muscles.	tial muscles, or both. May also have lesser involvement of		
	inantly affecting oropha nent of limb, axial musc	ryngeal, respiratory muscles, or both. May also have lesser or equal les, or both.		
Class III: Moderate we of any sever		es other than ocular muscles; may also have ocular muscle weakness		
A. IIIa. Predom		xial muscles, or both. May also have lesser nuscles.		
		ryngeal, respiratory muscles, or both. May also have mb, axial muscles, or both.		
any severity.		other than ocular muscles; may also have ocular muscle weakness of		
	inantly affecting limb, and nent of oropharyngeal m	xial muscles, or both. May also have lesser nuscles.		
	inantly affecting oropha nent of limb, axial musc	ryngeal, respiratory muscles, or both. May also have lesser or equal les, or both.		
Class V : Defined as intubation, with or without mechanical ventilation, except when employed during routine postoperative management. The use of a feeding tube without intubation places the patient in class IVb.				

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Appendix III

MG Activities of Daily Living (MG-ADL)

Grade	0	1	2	3	Score
Talking	Normal	Intermittent slurring or nasal speech	Constant slurring or nasal, but can be understood	Difficult to understand speech	
Chewing	Normal	Fatigue with solid food	Fatigue with soft food	Gastric tube	
Swallowing	Normal	Rare episode of choking	Frequent choking necessitating changes in diet	Gastric tube	
Breathing	Normal	Shortness of breath with exertion	Shortness of breath at rest	Ventilator dependence	
Impairment of ability to prush teeth or comb hair	None	Extra effort, but no rest periods needed	Rest periods needed	Cannot do one of these functions	
Impairment of ability to arise from a chair	None	Mild, sometimes uses arms	Moderate, always uses arms	Severe, requires assistance	
Double vision	None	Occurs, but not daily	Daily, but not constant	Constant	
Eyelid droop	None	Occurs, but not daily	Daily, but not constant	Constant	
				Total score	

Appendix IV: Patient Safety and Monitoring

Drug	Adverse Reactions	Monitoring	REMS
Soliris IV Eculizu- mab IV	 CV: Tachycardia (20-40%), Peripheral edema (8-29%), hypotension (12-20%) CNS: HA (17-50%), insomnia (10-24%), fatigue (7-20%) Derm: Rash (12-20%), pruritis (6-15%) Endo/met: Hypokalemia (10-18%) GI: Diarrhea (20-47%), vomiting (10-47%), nausea (12-40%), ad. pain (8-33%), gastroenteritis (5-20%) GU: UTI (15-35%), uropathy (17%), proteinuria (12-24%) Hem/Onc: Anemia (17-35%), neoplasm (6-30%), leukopenia (12-24%) MSCK: Weakness (15-20%), back pain (5-19%), arthralgia (6-17%), msck pain, muscle spasm Opth: Eye disease (10-29%) Renal: Renal insufficiency (15-29%) Respiratory: Cough (20-60%), nasopharyngitis (6-17%) nasal congestion (20-40%), URI (5-40%), rhinitis (22%), bronchitis (10-18%) Misc.: Infection (24%), catheter infection (17%), fever (7-80%) 	 Labs: CBC w dif., LDH, Sr Cr, AST, urinalysis S & Sx: meningococcal in- fection, infusion rx aHUS (after D/C) TMA complications (angina, dyspnea, mental status change, seizure or thrombosis), Sr Cr, LDH, Plts PNH (after D/C): S & Sx of intravascular hemolysis (anemia, fatigue, pain, dark urine, dyspnea, thrombosis 	Mening- ococcal infection awareness Prescriber enrollment in Soliris REMS program



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References and Resources:

- 1. Lexicomp Online®, Lexi-Drugs®, Hudson, Ohio: Lexi-Comp, Inc.; Soliris, Ultomiris accessed March 2019.
- Safety and efficacy of eculizumab in anti-acetylcholine receptor antibody-positive refractory generalized myasthenia gravis (REGAN): a phase 3, randomized, double-blind, placebo-controlled, multicenter study. Lancet Neurol 2017;16:976-86
- 3. Myasthenia gravis: new developments in research and treatment. Curr Opin Neurol 2017,30:464-470.
- 4. Can eculizumab be discontinued in aHUS? Medicine 2016;95:31

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