

New Drug Fact Blast

Clinical Services

Drug/Manufacturer:	Enspryng™ (satralizumab-mwge) [Roche]				
Dosage Formulations:	120mg/mL in a single-dose prefilled syringe				
FDA Approval Date: FDB File Date:	FDA: August 14, 2020 FDB: August 23, 2020				
Indication:	For the treatment of neuromyelitis optica spectrum disorder (NMOSD) in adult patients who are anti-aquaporin-4 (AQP4) antibody positive				
Mechanism of Action:	Interleukin-6 (IL-6) receptor antagonist – exact mechanism of action is unknown, but thought to involve inhibition of IL-6-mediated signaling through binding to soluble and membrane-bound IL-6 receptors				
Dose/ Administration:	 Initial Loading Dose: 120mg subcutaneous injection at weeks 0, 2, and 4. Maintenance Dose: 120mg subcutaneous injection every 4 weeks following completion of loading dose series. Prior to initiation screen for hepatitis B, tuberculosis, liver transaminases, and serum bilirubin. Intended for patient self-administration. The first injection should be performed under the guidance of a qualified health care professional. Administer subcutaneously in the thigh or abdomen. Rotate sites with each administration. Prefilled syringe should be removed from the refrigerator and its carton and allowed to sit at room temperature for 30 minutes prior to use. Unopened syringes can be removed from and returned to a refrigerator if necessary, but a combined total of 8 days at >30°C should not be exceeded. 				
Drug Clinical Highlights:	 FDA granted Orphan Drug designation. Inhibits IL-6, which increases dramatically in the blood and spinal fluid during autoimmune attacks. Contraindications: Known hypersensitivity to satralizumab or any of its inactive ingredients Active hepatitis B infection Active or untreated latent tuberculosis Warnings and Precautions: Mild to moderate elevations of liver enzymes Decreased neutrophil count and neutropenia Increased risk of infections Hepatitis B reactivation Tuberculosis Live or live-attenuated vaccines should not be given during treatment. The most common adverse reactions reported (≥15%) were nasopharyngitis, headache, upper respiratory tract infection, gastritis, rash, arthralgia, extremity pain, fatigue, and nausea. Consider risk versus benefit with use of Enspryng and immunosuppressant drugs due to potential increased risk of infection. Potential for immunogenicity. Clinical Trial 1 (NCT02073279) – randomized (2:1), placebo-controlled trial with 64 anti-AQP4+ and 31 anti-AQP4- NMOSD patients 18 years or older. 				

©2020 Conduent Business Services, LLC. All rights reserved. Conduent and Conduent Agile Star are trademarks of Conduent Business Services, LLC in the United States and/or other countries. Other company trademarks are also acknowledged.

Disclaimer: The clinical summary and criteria provided are for informational purposes only and not to be used to make decisions on treatment therapy, clinical decisions or a replacement for the advice of a medical professional.



©2020 Conduent Business Services, LLC. All rights reserved. Conduent and Conduent Agile Star are trademarks of Conduent Business Services, LLC in the United States and/or other countries. Other company trademarks are also acknowledged.

Disclaimer: The clinical summary and criteria provided are for informational purposes only and not to be used to make decisions on treatment therapy, clinical decisions or a replacement for the advice of a medical professional.



		Enspryng	Uplizna	Soliris		
	Mechanism of Action	IL-6 receptor	Anti-CD19 antibody	Monoclonal		
		antagonist	-	antibody		
	Indication					
		who are onti	who are anti AOD4	Who are anti AOD4		
		AQP4+	who are anti-AQP4+	who are anti-AQP4+		
	Dosage Forms	120mg/mL	100mg/10mL IV	300mg/30mL IV		
		prefilled syringe	infusion	infusion		
	Contraindications	 active hepatitis B infection 	- active hepatitis B	- unresolved serious		
		- active or	- active or untreated	infection		
		untreated latent	latent tuberculosis	- patients not		
		tuberculosis	- previous life-	currently		
			threatening	vaccinated against		
			reaction to infusion	N. meningitidis		
	Dose	120mg SC at	300mg IV day 1	900mg IV weekly x4		
		weeks 0, 2, 4	300mg IV two	weeks		
		120mg SC every	weeks later	1,200mg IV on		
		4 Weeks	300mg IV every 6	Week 5		
		liferediter		weeks thereafter		
	WAC	\$14.615.39 per	\$43.666.67 per vial	\$6.523 per vial		
		syringe		¢0,0_0 p0: 1:0.		
		- Annual Cost:	- Annual Cost:	- Annual Cost:		
		\$190,000	\$262,000	\$678,392		
Duine Antheninetice	Must meet the following	critoria:				
Prior Authorization	wust meet the following	cinteria.				
Approval Citteria.	Initial Therapy:					
	Prescribed by or in consultation with an immunologist, neurologist, or other specialist					
	within the treated disease state AND					
	Participants aged 18 years or older AND					
	 Documented diagnosis of neuromyelitis optica spectrum disorder (ICD10: G36.0) 					
	seropositive for anti-aquaporin-4 antibodies AND					
	Female participants must utilize concurrent birth control methods during and for 6					
	months post-treatment AND					
	Documented baseline number and frequency of acute attacks Initial therapy approved for 6 months					
	Continuation of Therapy:					
	Documented decrease or stabilization in number and frequency of acute attacks					
	Additional Browider Diagnostic/Menitoring Criteria if desired					
	Additional Provider Diagnostic/Monitoring Criteria, it desired:					
	• Screening for nepatitis b, tuberculosis, liver transaminases, and serum bilirubin prior to initiation					
	 Lack of live or live-attenuated vaccines 4 weeks prior to initiation 					
	Lack of inactivated vaccines 2 weeks prior to initiation					
	Documented EDSS score of 6.5 or less					
		-				
Implication to State	Adequate therapeutic	trials may include no	on-FDA approved gene	ric/biosimilar therapies		
Medicaid Program:	including rituximab, a	zathioprine, or myco	phenolate, which may le	ead to cost savings.		
	• LOE: 2036					

©2020 Conduent Business Services, LLC. All rights reserved. Conduent and Conduent Agile Star are trademarks of Conduent Business Services, LLC in the United States and/or other countries. Other company trademarks are also acknowledged.

Disclaimer: The clinical summary and criteria provided are for informational purposes only and not to be used to make decisions on treatment therapy, clinical decisions or a replacement for the advice of a medical professional.



- Currently there are 55 MO HealthNet patients with NMOSD with an approximated 80% being anti-AQP4 positive. The potential annual budget impact of Enspryng is \$8,360,000 compared to \$11,528,000 with Uplizna.
- Ravulizumab (Alexion), an intravenous long-acting C5 inhibitor administered every 8 weeks is currently in a Phase III study with expected completion in November 2021. A biosimilar of Soliris is not expected until 2025.

References:

- 1. Enspryng (satralizumab-mwge) [package insert]. San Francisco, CA: Roche, Inc; 2020.
- 2. Uplizna (inebilizumab-cdon) [package insert]. Gaithersburg, MD: Viela Bio; 2020.
- 3. Soliris (eculizumab) [package insert]. New Haven, CT: Alexion Pharmaceuticals Inc; 2019.
- 4. IPD Analytics. Enspryng New Drug Review.
- 5. National Organization for Rare Disorders (NORD). Neuromyelitis Optica Spectrum Disorder. <u>https://rarediseases.org/rare-diseases/neuromyelitis-optica/</u>. Accessed September 2, 2020.
- Traboulsee A, Greenberg BM, Bennett JL, et al. Safety and efficacy of satralizumab monotherapy in neuromyelitis optica spectrum disorder: a randomized, double-blind, multicenter, placebo-controlled phase 3 trial. *Lancet Neurol.* 2020;19(5):e1645-e1656. doi: 10.1016/S1474-4422(20)30078-8
- 7. Yamamura T, Kleiter I, Fujihara K, et al. Trial of satralizumab in neuromyelitis optica spectrum disorder. *N Engl J Med.* 2019;381(22):2114-2124. doi: 10.1056/NEJMoa1901747
- 8. Kessler RA, Mealy MA, Levy M. Treatment of neuromyelitis optica spectrum disorder: acute, preventative, and symptomatic. *Curr Treat Options Neurol.* 2016;18(1):2. doi: 10.1007/s11940-015-0387-9

©2020 Conduent Business Services, LLC. All rights reserved. Conduent and Conduent Agile Star are trademarks of Conduent Business Services, LLC in the United States and/or other countries. Other company trademarks are also acknowledged.