

Spinal Muscular Atrophy Agents – nusinersen (Spinraza)

Medical policy no. 74.70.00-2

Effective Date: August 1, 2018

Note: New-to-market drugs included in this class based on the Apple Health Preferred Drug List are non-preferred and subject to this prior authorization (PA) criteria. Non-preferred agents in this class require an inadequate response or documented intolerance due to severe adverse reaction or contraindication to at least TWO preferred agents. If there is only one preferred agent in the class documentation of inadequate response to ONE preferred agent is needed. If a drug within this policy receives a new indication approved by the Food and Drug Administration (FDA), medical necessity for the new indication will be determined on a case-by-case basis following FDA labeling.

To see the list of the current Apple Health Preferred Drug List (AHPDL), please visit: <u>https://www.hca.wa.gov/assets/billers-and-providers/apple-</u> health-preferred-drug-list.xlsx

Related medical policies:

• 74.70.65 - Spinal Muscular Atrophy Agents – Evrysdi (risdiplam)

Background:

Spinal muscular atrophy (SMA) is a rare, hereditary disease characterized by loss of motor neurons in the spinal cord and lower brain stem, and results in severe and progressive muscular atrophy, hypotonia, diffuse symmetric weakness, and restrictive lung disease. Patients with the most severe type of SMA can become paralyzed, never sit or walk, and have difficulty breathing and swallowing due to bulbar muscle weakness (requiring mechanical ventilation, gastrostomy tube enteral feeding, and nursing care).

Medical necessity

Drug	Medical Necessity				
nusinersen (Spinraza®)	 Nusinersen (Spinraza[®]) will be considered medically necessary for the treatment of: Spinal muscular atrophy (SMA) 				

Clinical policy:

Clinical Criteria						
Initial Approval Criteria	Nusinersen (Spinraza [®]) may be covered when ALL of the following are met:					
	 Patient must have documentation of a confirmed diagnosis of spinal muscular atrophy (SMA) defined as ONE of the following (either 1a, 1b, or 1c) genetic tests of 5q13 demonstrating: a. Homozygous SMN1 gene deletion; OR b. Homozygous SMN1 gene mutation; OR c. Compound heterozygous SMN1 gene mutation; AND 					

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	2. Patient is symptomatic with a phenotype of SMA I, SMA II, or SMA III;
	AND
	3. Not used simultaneously with Evrysdi (risdiplam); AND
	4. Patient has not been previously treated with Zolgensma
	(onasemnogene abeparvovec-xioi); AND
	 5. Documentation of at least ONE of the following baseline motor exams appropriate for patient age and motor function within the last 90 days: a. Six-Minute Walk Test (6MWT); OR b. Children's Hospital of Philadelphia Infant Test of
	Neuromuscular Disorders (CHOP INTEND); OR c. Hammersmith Infant Neurological Exam (HINE) – infant and
	early childhood; OR
	 d. Hammersmith Functional Motor Scale Expanded (HFMSE); OR e. Revised Upper Limb Module (RULM) test (non-ambulatory); AND
	6. Baseline documentation of ALL of the following:
	a. Neurologic examination; AND
	b. Manual Muscle Test (MMT); AND
	c. Pulmonary Function Test (PFT), if able
	7. Patient does not require tracheostomy or invasive ventilation; AND
	 Prescribed by a provider with expertise in treating and managing SMA
	Upon review of the submitted documentation from the patient's chart and demonstration of meeting the above initial approval criteria, nusinersen will be approved for 5 doses to be administered in a 6 month period. The first 3 doses must be administered 14 days apart, the fourth dose must be 30 days after the third dose, and the fifth dose must be four months after the fourth dose. Continued approval will be required every 8 months for doses to be administered every 4 months.
	If all criteria are not met, but there are documented medically necessary or situational circumstances, based on the professional judgement of the clinical reviewer, requests may be approved on a case-by-case basis up to the initial authorization duration.
Continuation Approval Criteria	Continued use Nusinersen (Spinraza [®]) may be authorized when ALL of the following are met:
	1. Documentation of ONE of the following:
	 a. Disease improvement or stability as demonstrated by at least one of the functional scales or motor milestones listed above evaluated in the previous 90 days; OR b. Disease progression is slower than what would otherwise be expected
	Upon review of the submitted documentation from the patient's chart and demonstration of meeting the above continuation criteria, nusinersen will

	be approved for an additional 8-month period. Continued approval will be required every 8 months for doses to be administered every 4 months.
	If all criteria are not met, but there are documented medically necessary or situational circumstances, based on the professional judgement of the clinical reviewer, requests may be approved on a case-by-case basis up to the reauthorization duration.
Exclusion Criteria	Nusinersen is considered not medically necessary for the treatment of SMA without 5q mutations or deletions or in pre-symptomatic patients with greater than (>) three (3) copies of the SMN2 gene.

Dosage and quantity limits

Dose and Quantity Limits					
Maximum dose	12mg (5mL) per administration				
Initiation	 Four loading doses: The first three loading doses should be administered at 14-day intervals. The 4th loading dose should be administered 30 days after the 3rd dose. 				
Maintenance	One dose every 4 months				

Definitions:

Definition	
Improvement	 HFMSE*: At least 3 points increase in score from pretreatment baseline HINE*: More motor milestones have improved than have worsened. Improvement is defined as a 2-point increase in ability to kick OR at least 1 point ability increase in motor milestones of head control, rolling, sitting, crawling, standing or walking. CHOP-INTEND*: At least a 4-point increase in score from the pretreatment baseline 6MWT (ambulatory): At least a 30-meter increase from pretreatment baseline RULM (non-ambulatory): At least a 2-point increase in score from the pretreatment baseline
Stability	The functional scale score did not worsen from baseline

*Improvement is based on minimal clinically important difference in Sprinraza clinical trials

Coding:

Billing Code	Description
J2326	Injection, nusinersen, 0.1 mg

References

- 1. Spinraza[™] (nusinersen) injection for intrathecal use [package insert]. Cambridge, MA: Biogen, Inc; June 2020
- Prior TW, Finanger E. Spinal Muscular Atrophy. 2000 Feb 24 [Updated 2016 Dec 22]. In: Pagon RA, Adam MP, Ardinger HH, et al., editors. GeneReviews[®] [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2017. [cited 1/24/2017] Available from: https://www.ncbi.nlm.nih.gov/books/NBK1352/
- 3. Bodamer, OA. Spinal muscular atrophy (SMA). Last updated Dec. 13, 2016. . In: Nordli DR, Firth, H.V., Martin, R. UpToDate, Waltham, MA, 2016.
- 4. Product dossier: Spinraza[™] (nusinersen) April 13, 2017. Cambridge, MA: Biogen; Data reviewed May 2017.
- FDA Center for Drug Evaluation and Research (CDER). Medical Review. NDA 209531; Spinraza (nusinersen). 12/23/2016. [cited 1/25/2017]; Available from:
 - http://www.accessdata.fda.gov/drugsatfda_docs/nda/2016/209531Orig1s000TOC.cfm
- 6. Wang, CH, Finkel, RS, Bertini, ES, et al. Consensus statement for standard of care in spinal muscular atrophy. Journal of child neurology. 2007 Aug;22(8):1027-49. PMID: 17761659
- 7. Medical information [data on file]. May 5, 2017. Cambridge, MA: Biogen; Data reviewed May 2017
- 8. Hwu W, De D, Bertini E, et al. Outcomes after 1-year in presymptomatic infants with genetically diagnosed spinal muscular atrophy (SMA) treated with nusinersen: interim results from the NURTURE study. Neuromuscul Disord. 2017;27(Supplement 2):S212.
- 9. Finkel RS, Mercuri E, Darras BT, et al. Nusinersen versus Sham Control in Infantile-Onset Spinal Muscular Atrophy. N Engl J Med. 2017 Nov 2;377(18):1723-1732.

History

Date	Action and Summary of Changes			
02/12/2021	Annual policy update			



Spinal Muscular Atrophy Agents

Please provide the information below, please print your answer, attach supporting documentation, sign, date, and return to our office as soon as possible to expedite this request. Without this information, we may deny the request in seven (7) working days.

Date of	request:	Reference #:	,	MAS:		
Patient		Date of birth		ProviderOne	ProviderOne ID	
Pharmacy name		Pharmacy NPI	Teleph	ione number	Fax number	
Prescriber		Prescriber NPI	Teleph	ione number	Fax number	
Medicat	ion and strength		Dir	Directions for use		Qty/Days supply
1.	 1. Is this request for a continuation of existing therapy? Yes No If yes, is there documentation of disease improvement or stability demonstrated by one of the following? At least one of the functional scales or motor milestones evaluated in the previous 90 days Disease progression is slower than what would otherwise be expected None of the above 					
2.	 Indicate patient's diagnosis: Spinal muscular atrophy (SMA) Other. Specify: 					
3.	 3. Does the patient have a diagnosis of Spinal muscular atrophy (SMA) and genetic test 5q13 that demonstrates one of the following? Homozygous SMN1 gene deletion Homozygous SMN1 gene mutation Compound heterozygous SMN1 gene mutation None of the above 					
4.	Is patient symptomatic w	ith a phenotype of SMA	I, SMA	II OR SMA III	? 🗌 Yes 🗌	No
5.	 Will this medication be used in combination with other Spinal Muscular Atrophy Agents (i.e Evrysdi, Spinraza)? Yes. Specify: No 					
6.	Has the patient previousl	y been treated with Zolg	gensma	ı (onasemnog	ene abeparvov	vec-xioi)? 🗌 Yes 📄 No
7.	days) motor function?	6MWT)	were u			nd current (within the last 90
	Children's Hospital of Baseline:	Date taken: Philadelphia Infant Test Date taken: Neurological Exam (HINI Date taken:		Current:	Date taken:	P INTEND) :
		onal Motor Scale Expand Date taken: ure (MEM32)	led (HF	MSE) Current:	Date taken:	:
		Date taken:		Current:	Date taken:	:

	Revised upper Limb Module (RULM) Test (non-ambulatory)					
		e taken:	Current:	Date taken:		
	Other. Specify:					
-						
8.	8. Does the patient have documentation of any of the following (check all that apply)?					
	Neurologic examination		. .			
		e taken:	Current:	Date taken:		
	Manual Muscle Test (MM	-	Cumant	Data takan		
		e taken:	Current:	Date taken:		
	Pulmonary Function Test Baseline: Dat	e taken:	Current:	Date taken:		
	None Date	e laken.	current.	Date taken.		
9.	Is the patient ambulatory?					
5.	Yes					
		nt lose the ability to walk?				
10.	Does the patient require tra	cheostomy or invasive vent	ilation? 🗌 Y	′es 🗌 No		
11.	11. Indicate for the patient:					
	Weight (kg):	Date taken:				
12. Is the medication prescribed by a provider with expertise in treating and managing SMA?						
	🔄 Yes 🔄 No					
-	ed with this request:					
Neurologic examination						
Manual Muscle Test (MMT)						
Pulmunary Function Test (PFT)						
•	All motor function tests					
•	Chart notes					
Prescrib	er signature	Prescriber specialty		Date		