Washington State Health Care Authority

Spinal Muscular Atrophy Agents – risdiplam (Evrysdi)

Medical policy no. 74.70.65.AA-1

Effective Date: TBD

Related medical policies:

• 74.70.00.AA - Spinal Muscular Atrophy Agents - Spinraza

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-health-preferred-drug-list.xlsx</u>

Background:

Spinal muscular atrophy (SMA) is a rare autosomal recessive disease characterized by loss of motor neurons in the spinal cord and lower brain stem resulting from the compound deletion or mutation of the survival motor neuron 1 (SMN1) gene. This results in severe and progressive muscular atrophy, hypotonia, diffuse symmetric weakness, and restrictive lung disease. Patients with the most severe types of SMA may be paralyzed, not able to sit or walk, and have difficulty breathing and swallowing due to bulbar muscle weakness (requiring mechanical ventilation, gastrostomy tube enteral feeding, and nursing care). Risdiplam (Evrysdi) was approved by the Food and Drug Administration (FDA) in August 2020 and is the first orally administered medication for the treatment of SMA. In the absence of a functioning SMN1 gene, risdiplam upregulates a similar gene (SMN2), resulting in improved maintenance of motor neurons.

Medical necessity

Drug	Medical Necessity
Evrysdi (risdiplam)	EVRYSDI may be considered medically necessary in patients who meet the criteria described in the clinical policy below.
	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 or reauthorization duration.
	Clients new to Apple Health or new to an MCO, who are requesting regimens for continuation of therapy should be reviewed following the reauthorization criteria listed below.

Clinical policy:

Clinical Criteria	
Spinal Muscular Atropy (SMA)	Evrysdi (risdiplam) may be approved if ALL of the following criteria are met:



Evrysdi (risdiplam)	 Confirmed diagnosis of spinal muscular atrophy (SMA) defined as ONE of the following genetic tests of 5q13 demonstrating: a. Homozygous SMN1 gene deletion; OR b. Homozygous SMN1 gene mutation; OR c. Compound heterozygous SMN1 gene mutation; AND Patient is two months of age or older; AND Not used simultaneously with Spinraza (nusinersen); AND Patient has not been treated with Zolgensma (onasemnogene abeparvovec); AND Completion of ONE or more of the following functional scales that is appropriate for patient age and motor function within the last 90 days:					
	Criteria (Reauthorization)					
	Evrysdi may be reauthorized if all the following criteria are met:					
	 Documentation of criteria listed in 5 and 6 above evaluated in the previous 90 days demonstrating ONE of the following: 					
	a. Disease improvement or stability ; OR					
	 Disease progression is slower than what would otherwise be expected 					
	If all the above criteria are met Evrysdi may be approved for 12 months					

If all the above criteria are met Evrysdi may be approved for **12 months.**

Dosage and quantity limits

Population	Dose	Quantity Limit	
2 months to less than 2 years	0.2 mg/kg orally once daily	160mL (2 bottles, 120 mg) per 24	
2 years or older (less than 20kg)	0.25 mg/kg orally once daily	days	
2 years or older (20kg or greater), including adults	5 mg orally once daily		

Expiration date after constitution: 64 days in refrigerator

Policy: Evrysdi (risdiplam)

Medical Policy No. 74.70.65.AA-1

Last Updated 11/30/2021



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 MFM32*: At least 3-point increase in score from pretreatment baseline GMWT (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 Evyrsdi and/or Spinraza clinical trials

Risdiplam (Evrysdi) was evaluated in infant-onset SMA (Type I) in a two-part clinical trial. In part one, 21 infants with a median age and disease onset of 6.7 and 2 months, respectively, were administered up to 2.2 mg/kg/day of risdiplam. After 12 months, 41% could sit upright without assistance for greater than 5 seconds. Further, 90% of patients were alive and did not require permanent ventilation at 12 months, and 81% at 23 months. Of note, it has been observed that approximately 25% of patients who do not obtain treatment survive without permanent ventilation through 14 months of age. In both parts of the trial, upper respiratory tract infection, pneumonia, constipation, and vomiting were the most frequently reports adverse reactions, occurring is greater than 10% of participants. Neither part of this trial has been published.

Risdiplam was also studied in a randomized, double-blind, placebo-controlled trial among patients 2 to 25 years old with SMA type II or III (n=180). Change from baseline in the Motor Function Measure 32 score (MFM32), a daily function assessment expressed as a percentage (0%-100%), was the primary outcome. Participants who received risdiplam experienced a 1.36 percentage increase in MFM32 compared to a 0.19 percentage decrease in those taking a placebo, achieving statistical significance (95% CI - 1.55 [0.3-2.81]). A greater proportion of participants using risdiplam also achieved a clinically meaningful improvement in MFM32 from baseline (defined as 3% or greater) relative to placebo (38.3% vs 23.7%, p 0.0469). Finally, a statistically significant increase from baseline in the Revised Upper Limb Module Test (RULM) was observed in those taking risdiplam compared with placebo. Notably, diarrhea, rash, mouth ulcers, arthralgia, and urinary tract infections were recorded more in the treatment group.

References

- 1. Evrysdi [Prescribing Information]. Genentech, Inc: San Francisco, CA. August 2020.
- Mercuri E, Finkel RS, Muntoni F et al. Diagnosis and management of spinal muscular atrophy Part 1: Recommendations for diagnosis, rehabilitation, orthopedic and nutritional care. Neuromuscular Disorders 2018:103-115. Available from: <u>https://www.nmd-journal.com/article/S0960-8966(17)31284-1/pdf</u>
- 3. Finkel RS, Mercuri E, Meyer OH et al. Diagnosis and management of spinal muscular atrophy Part 2: Pulmonary and acute care; medications, supplements and immunizations; other organ systems; and ethics.

Policy: Evrysdi (risdiplam)

Medical Policy No. 74.70.65.AA-1

Last Updated 11/30/2021



Neuromuscular Disorders 2018:197-207. Available from: <u>https://www.nmd-journal.com/article/S0960-8966(17)31290-7/pdf</u>

- 4. Food and Drug Administration (FDA). FDA Approves Oral Treatment for Spinal Muscular Atrophy. August 7, 2020. Available at: FDA Approves Oral Treatment for Spinal Muscular Atrophy | FDA
- Hoffmann-La Roche. A Two Part Seamless, Open-Label, Multicenter Study to Investigate the Safety, Tolerability, Pharmacokinetics, Pharmacodynamics and Efficacy of Ro7034067 in Infants with Type 1 Spinal Muscular Atrophy. Available from: https://clinicaltrials.gov/ct2/show/NCT02913482. NLM Identifier: NCT02913482. Accessed March 5, 2021.
- Hoffmann-La Roche. A Study to Investigate the Safety, Tolerability, Pharmacodynamics and Efficacy of Risdiplam (RO7034067) in Type 2 and 3 Spinal Muscular Atrophy (SMA) Participants (SUNFISH). Available from: <u>https://clinicaltrials.gov/ct2/show/NCT02908685</u>. NLM Identifier: NCT02908685. Accessed March 5, 2021.
- Biogen. A Phase 3, Randomized, Double-Blind, Sham-Procedure Controlled Study to Assess the Clinical Efficacy and Safety of Isis 396443 Administered Intrathecally in Patients with Infantile-Onset Spinal Muscular Atrophy. Available at: https://clinicaltrials.gov/ct2/show/NCT02193074.NLM Identifier: NCT02193074. Accessed March 5, 2021.
- Biogen. A Phase 3, Randomized, Double-Blind, Sham-Procedure Controlled Study to Assess the Clinical Efficacy and Safety of Isis 396443 Administered Intrathecally in Patients with Later-Onset Spinal Muscular Atrophy. Available at: https://clinicaltrials.gov/ct2/show/NCT02292537. NLM Identifier: NCT02292537. Accessed March 5, 2021.
- 9. Lavie M, Diamant N, Cahal M, et al. Nusinersen for spinal muscular atrophy type 1: Real-world respiratory experience. *Pediatr Pulmonol*. 2021;56(1):291-298.
- 10. De Vivo DC, Bertini E, Swoboda KJ, et al. Nusinersen initiated in infants during the presymptomatic stage of spinal muscular atrophy: Interim efficacy and safety results from the Phase 2 NURTURE study. *Neuromuscul Disord*. 2019;29(11):842-856.

History	
Date	Action and Summary of Changes
1/20/21	New Policy



Spinal Muscular Atrophy Agent

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.

P00001010		iout and information, we may	acity at	ie request in sever		/
Date of	request:	Reference #:		MAS:		
Patient		Date of birth		ProviderOne ID		
Pharma	cy name	Pharmacy NPI	Telep	hone number	Fax number	
Prescrib	er	Prescriber NPI	Telep	hone number	Fax number	
Medicat	ion and strength	-	D	irections for use		Qty/Days supply
	 1. Is this request for a continuation of existing therapy? Yes No If yes, is there documentation of annual functional scales and motor milestones that has been evaluated in the previous 90 days and show one of the following? (check all that apply): Disease improvement or stability Disease progression is slower than what would otherwise be expected None of the above 					
2.	For continuation of ther	apy request, what was th	ne star	t date for treat	tment?	
3.	 Indicate patient's diagnosis: Spinal muscular atrophy (SMA) Other. Specify:					
4.	of the following?	gene deletion		rophy (SMA) a	ind genetic tes	t 5q13 that demonstrates one
5.	Will this medication be Yes. Specify: No		other	Spinal Muscul	lar Atrophy Age	ents (i.e Evrysdi, Spinraza)?
6.	Has the patient previous	sly been treated with Zol	gensm	a (onasemnog	ene abeparvov	vec-xioi)? 🗌 Yes 📄 No
7.	Indicate which of the fol days) motor function?	-	were ι	used to docum	ent baseline ar	nd current (within the last 90
	Baseline:	Date taken:		Current:	Date taken	:
	Children's Hospital o	f Philadelphia Infant Test	t of Ne	uromuscular D	Disorders (CHO	P INTEND)
	—	Date taken:		Current:	Date taken	:
		t Neurological Exam (HIN	E) infa	-	nildhood	
		Date taken:		Current:	Date taken	:
	Hammersmith Funct	ional Motor Scale Expan	ded (H	FMSE)		
		Date taken:		Current:	Date taken	:
	Motor function measurement	sure (MFM32) – [Evrysdi	reque	sts only]		
	Baseline:	Date taken:		Current:	Date taken	:

Revised upper Limb Module (RULM) Test (non-ambulatory)					
Baseline: Date	e taken:	Current:	Date taken:		
Other. Specify:					
8. Does the patient have docur	-	owing (check	k all that apply)?		
Neurologic examination	Neurologic examination with				
Baseline: Date	e taken:	Current:	Date taken:		
Manual Muscle Test (MN	ИТ)				
Baseline: Date	e taken:	Current:	Date taken:		
Pulmonary Function Test	: (PFT), if appropriate				
Baseline: Date	e taken:	Current:	Date taken:		
None					
 9. Does the patient require permanent mechanical ventilation? Yes No 10. Indicate for the patient: Weight (kg): Date taken: 11. Is the medication prescribed by a provider specializing in treatment of SMA? Yes No 					
Required with this request:					
Neurologic examination					
Manual Muscle Test (MMT)					
Pulmonary Function Test (PFT)					
All motor function tests					
Chart notes					
Prescriber signature	Prescriber specialty		Date		