

Endocrine and Metabolic Agents – Elapegademase-lvlr (Revcovi)

Medical policy no. 30.90.20.30-1

Effective Date: July 1, 2020

Note: New-to-market drugs in this class are non-preferred and subject to this prior authorization (PA) policy. 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.

Background:

Adenosine deaminase (ADA) deficiency is an autosomal recessive genetic disorder caused by mutations in the ADA gene and a common cause of severe combined immune deficiency (SCID). Diagnosis of ADA-SCID may be suspected by newborn screening or confirmed by blood and genetic testing. Most patients with ADA-SCID experience complications such as pneumonia, chronic diarrhea, widespread skin rashes, slowed growth and developmental delay before 6 months of age. Patients with ADA-SCID are unable to fight off most types of bacterial, viral, and fungal infections. If undiagnosed, most patients do not survive past two years of age. The annual incidence of ADA-SCID is 1 in 200,000 livebirths affecting both males and females. Enzyme replacement therapy (ERT) is recommended for all patients newly diagnosed with ADA-SCID as an immediate stabilizing measure and as a bridge to curative therapy with hematopoietic stem cell transplant (HSCT). Elapegademase-lvlr (Revcovi) is a recombinant adenosine deaminase indicated for the treatment of ADA-SCID in pediatric and adult patients. Elapegademase-lvlr is an exogenous source of ADA enzyme that reduces levels of toxic adenosine and deoxyadenosine and increases lymphocytes.

Medical necessity

Drug	Medical Necessity
Elapegademase-lvlr (Revcovi)	Elapegademase-lvlr may be considered medically necessary when used for the treatment of:
	 Adenosine deaminase severe combined immune deficiency (ADA-SCID) in pediatric and adult clients

Clinical policy:

Drug	Clinical Criteria (Initial Approval)					
Elapegademase-lvlr (Revcovi)	Elapegademase-lvlr (Revcovi) may be considered medically necessary when ALL of the following criteria are met:					
	 Diagnosis of ADA-SCID confirmed by any ONE of the following: Genetic testing revealing bi-allelic mutations in the ADA gene; OR Absent or very low (< 1% of normal) ADA catalytic activity at baseline; AND 					
	2. Client does not have severe thrombocytopenia (<50,000/ μ L); AND					
	 Client is not a candidate for HSCT, has failed HSCT, or is using elapegademase-lvlr as a bridge to definitive therapy with HSCT; AND 					

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 Prescribed and administered by or in consultation with a physician who specializes in the treatment of ADA-SCID; AND Prescriber agrees to monitor ALL the following to ensure effectiveness and compliance: Trough plasma ADA activity (every 2 weeks for 8-12 weeks then every 3-6 months); AND Trough deoxyadenosine (dAXP) levels; AND Total lymphocyte counts; AND Neutralizing antibodies in client with trough ADA activity persistently less than 15 mmol/hr/L
If ALL criteria are met, the request will be approved for 12 months.
Criteria (Reauthorization)
Elapegademase-lvlr (Revcovi) may be reauthorized when ALL of the following criteria are met:
 Documentation of trough plasma ADA activity, trough dAXP levels, and total lymphocyte counts; AND Trough plasma ADA activity is at least 30 mmol/hr/L; AND Trough dAXP levels are below 0.02 mmol/L and monitored at least twice a year; AND Prescriber verifies client is still not an eligible candidate for HSCT

Dosage and quantity limits

Drug Name	Dose and Quantity Limits
Elapegademase-lvlr (Revcovi™)	Clients switching from pegademase bovine (Adagen®) to elapegademase- lvlr:•If Adagen® dose is unknown: 0.2 mg/kg intramuscularly once weekly•If client's weekly Adagen® dose is above 30U/kg: Elapegademase - lvlr dose $\left(\frac{mg}{kg}\right) = \frac{Adagen dose\left(\frac{U}{kg}\right)}{150}$ •If client's trough ADA activity is < 30 mmol/hr/L and trough dAXP > 0.02mmol/L: Subsequent doses may be increased by increments of 0.033 mg/kg weekly
	 Clients who are Adagen[®]-naïve: 0.2 mg/kg twice a week intramuscularly for a minimum of 12 to 24 weeks until immune reconstitution is achieved Maximum weekly dose: 0.4 mg/kg intramuscularly

Last Updated 03/19/2020

Coding:

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HCPCS-Code	Description
J3590	Unclassified biologics
C9399	Unclassified drugs or biologicals

History:

Date	Action and summary of changes
02/05/2020	New policy
02/17/2020	Added 0.2 mg/kg dosing for Adagen naïve
02/26/2020	Formatted Adagen dose equation and changed context of the term covered
03/09/2020	Changed approval date from 6 months to 12 months. Changed re-approval date to 6 months.
03/19/2020	Added note to the top of the policy.

References

- ADA deficiency Genetics Home Reference NIH. U.S. National Library of Medicine. https://ghr.nlm.nih.gov/condition/adenosine-deaminase-deficiency#diagnosis. Accessed February 5, 2020.
- Adenosine deaminase deficiency. Genetic and Rare Diseases Information Center. https://rarediseases.info.nih.gov/diseases/5748/adenosine-deaminase-deficiency. Accessed February 5, 2020.
- 3. Elapegademase-lvlr. Micromedex Solutions. Truven Health Analytics, Inc. Ann Arbor, MI. Available at: http://www.micromedexsolutions.com. Accessed February 5, 2020
- 4. Grunebaum E, Kohn DB. Adenosine deaminase deficiency: Treatment and prognosis. In: Post T, ed. *UpToDate*. Waltham, MA.: UpToDate; 2019. <u>www.uptodate.com</u>. Accessed February 5, 2020.
- Kohn DB, Hershfield MS, Puck JM, Aiuti A, Blincoe A, Gaspar HB, etal. Consensus approach for the management of severe combined immune deficiency caused by adenosine deaminase deficiency. J Allergy Clin Immunol. 2018;S0091- 6749(18):31268-5
- 6. Revcovi Prescribing Information. Gaithersburg, MD: Leadiant Biosciences Inc.; October 2018. Available at: www.revcovi.com. Accessed February 5, 2020.

Washington State Health Care Authority

Endrocrine and Metabolic:

Adenosine Deaminase SCID Treatment 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 #:	Reference #:		<u> </u>			
Patient	Date of birth	Date of birth		e ID			
Pharmacy name	Pharmacy NPI	Telephone nu		Fax number			
Prescriber	iber Prescriber NPI Telepho		one number	Fax number			
Medication and strength		Dire	ections for use Qty/Days			supply	
1. Is this request for a continuation of existing therapy?				Yes	🗌 No		
 Is patient's diagnosis adenosine deaminase severe combined immune deficiency (ADA-SCID)? Yes N 					🗌 No		
3. Does patient have severe	e thrombocytopenia (pla	itelets <	50,000/µL)?			Yes	🗌 No
4. Has patient failed, or is not a candidate for, hematopoietic stem cell transplantation (HSCT)?				Yes	🗌 No		
5. Is patient using elapegad	5. Is patient using elapegademase-lvlr as a bridge to definitive therapy with HSCT?					Yes	🗌 No
6. Is this prescribed and will be administered by or in consultation with a physician who specializes in the treatment of ADA-SCID?				Yes	🗌 No		
7. If approved, does prescriber agree to monitor trough plasma ADA activity, trough deoxyadenosine (dAXP) levels, total lymphocyte counts and neutralizing antibodies?				Ŷ	Yes	🗌 No	
8. Provide the following for Trough plasma A Trough dAXP level:	patient: DA activity: s:	_mmol/L	mmol/hr/	L Date taken: Date taken:			
9. Is patient pegademase be	ovine (Adagen) naïve?					Yes	🗌 No
If no, what was p 10. What is patient's current Actual: Ideal:	atient's dose? weight? lbkg lbkg	Date tak	mg/kg				
ALL OF THE FOLLOWING ARE RE	QUIRED WITH THIS REQ	UEST:					
 Genetic testing revealing activity at baseline confir Most recent CBC and labe Documentation of therag lymphocyte counts (for re- Chart notes 	bi-allelic mutations in t ming diagnosis s by monitoring measuring eauthorization requests	he ADA (g trough	gene or abse plasma ADA	ent or very low A activity, troug	(< 1% of no h dAXP leve	els, and/or	catalytic total
- charchotes							