

Ophthalmic Agents: Gene Therapy – Voretigene neparvovec-rzyl (Luxturna[®])

Medical policy no. 86.37.00-1

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:

Retinitis pigmentosa (RP) are a complex group of inherited retinal dystrophies characterized by progressive dysfunction and degeneration of the retina affecting photoreceptor and pigment epithelial function. One of the causes of these retinal dystrophies is due to a mutation in the gene encoding retinal pigment epithelium-specific protein 65 kDa (RPE65). Symptoms of RP often begin in childhood and include decreased vision at night or in low light and loss of side vision. Current investigational therapies include gene therapy, cell therapy and retinal prostheses. Although there is no cure for these retinal dystrophies, the use of gene therapy is intended to negate the effects of mutations in the RPE65 gene. Voretigene neparvovec-rzyl (Luxturna) is an adeno-associated virus vector-based gene therapy used for the treatment of patients with confirmed biallelic RPE65 mutation-associated retinal dystrophy. Voretigene naparvovec-rzyl delivers a normal copy of the RPE65 protein to retinal cells augmenting reduced or absent levels of biologically active RPE65 leading to normal production of the protein that converts light to an electrical signal in the retina to restore patients' vision loss.

Medical necessity

Drug	Medical Necessity		
Voretigene neparvovec-rzyl (Luxturna)	 Voretigene neparvovec-rzyl may be considered medically necessary when used for the treatment of: Confirmed biallelic RPE65 mutation-associated retinal dystrophy when patients have viable retinal cells as determined by optical coherence tomography (OCT) or ophthalmoscopy 		

Clinical policy:

Drug	Clinical Criteria (Initial Approval)			
Voretigene neparvovec-rzyl (Luxturna)	Voretigene neparvovec-rzyl may be covered when ALL of the following criteria are met:			
	 Patient is 1 to 64 years of age with a confirmed diagnosis of biallelic RPE65 mutation associated-retinal dystrophy via gen testing; AND Patient has visual acuity worse than 20/60 in both eyes or vis field less than 20 degrees in any meridian; AND 			

 Patient has viable retinal cells and verification must be documented by at least ONE of the following: An area of the retina within the posterior pole of >100 um thickness shown on optical coherence tomography; OR Three or more disc areas of retina without atrophy or pigmentary degeneration within the posterior pole; OR Remaining visual field within 30 degrees of fixation as measured by a III4e isopter or equivalent; AND Patient has not previously received RPE65 gene therapy in the intended eye(s); AND Patient has not had intraocular surgery within six months in the intended eye(s) ; AND Prescribed and administered by an ophthalmologist or retinal surgeon who specializes in performing intraocular surgery If ALL criteria are met, the request will be approved for one dose per eye, per lifetime. If both eyes are to be treated, injections must be administered at least six days apart. 		
Criteria (Reauthorization)		
Repeat administration of voretigene neparvovec-rzyl has not been studied in clinical trials, and is therefore not considered medically necessary.		

Dosage and quantity limits

Drug Name	Dose and Quantity Limits	
Voretigene neparvovec-rzyl (Luxturna ®)	 <u>Dosing:</u> One injection per eye: 1.5 x 10¹¹ vg (vector genomes) per eye administered by subretinal injection in a total volume of 0.3 mL <u>Quantity Limit:</u> One dose per eye per lifetime 	

Coding:

HCPCS Code	Description
J3398	Injection, voretigene neparvovec-rzyl, 1 billion vector genomes

History:

Date	Action and summary of changes		
02/04/2020	New policy		
02/17/2020	General formatting updates		
02/26/2020	Added HCPCS code, less than 65 years old age limit		
03/09/2020	Formatting updates		



References

- 1. Garg S. Retinitis pigmentosa: Treatment. In: Post T, ed. *UpToDate*. Waltham, MA.: UpToDate; 2018. <u>www.uptodate.com</u>. Accessed February 5, 2020.
- 2. Luxturna [package insert]. Philadelphia, PA; Spark Therapeutics, Inc., December 2017. Accessed February 2020.
- 3. Russell S, Bennett J, Wellman JA, et al. Efficacy and safety of voretigene neparvovec(AAV2-hRPE65v2) in patients with RPE65-mediated inherited retinal dystrophy: a randomised, controlled, open-label, phase 3 trial. Lancet. 2017 Aug 26;390(10097):849-860
- 4. Voretigene neparvovec-rzyl. Micromedex Solutions. Truven Health Analytics, Inc. Ann Arbor, MI. Available at: <u>http://www.micromedexsolutions.com</u>. Accessed February 4, 2020



Ophthalmic Agents: Gene Therapy

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 30 days.**

A typed and completed <i>General Authorization for Information</i> form (13-835) must be attached to your request and
must be the first page (no cover sheet). Fax to: 1-866-668-1214

DATE OF REQUEST	PATIENT	DATE OF BIRTH	PROVIDERONE CLIENT ID			
PRESCRIBER	BILLING PROVIDER NPI	I NUMBER TELEPHONE NUMBER	FAX NUMBER			
DRUG/STRENGTH/DOSE/FREQUENCY						
1. Is patient's diagnosis	biallelic RPE65 mutation associat	ted-retinal dystrophy confirmed				
by genetic testing?			🗌 Yes 🗌 No			
If no, specify	liagnosis:					
	N					
	 intended for treatment: Will the initial eye and second execution 	Right Left Both				
at least 6 day	•	eye injections be administered	Yes No			
	apare.					
3. Is patient's visual acu						
is less than 20 degree	🗌 Yes 🗌 No					
4. Does patient have do	Yes No					
If yes, verifie						
	ea of the retina within the poste					
	shown on optical coherence tomography (OCT)					
	ree or more disc areas of retina					
	degeneration within the posterior pole Remaining visual field within 30 degrees of fixation as measured by a					
	4e isopter or equivalent		y u			
5. Has patient previous	5. Has patient previously received RPE65 gene therapy for the eye(s) intended for treatment?					
6 Has nations had intra	ocular curgony within the last 6 n	aantha far tha ava(s) intandad				
6. Has patient had intraocular surgery within the last 6 months for the eye(s) intended for treatment?			Yes No			
7. Is this prescribed and	will be administered by an ophtl	halmologist				
or retinal surgeon wh	or retinal surgeon who specializes in performing intraocular surgery?					
ALL THE FOLLOWING ARE RE	UIRED WITH THIS REQUEST:					
Genetic testing/documentation confirming diagnosis						
 Results of optical coherence tomography (OCT) imaging and/or ophthalmoscopy 						
Chart notes						
PRESCRIBER'S SIGNATURE	PRESC	RIBER'S SPECIALTY	DATE			