

Clinical Policy: Eladocogene Exuparvovec-tneq (Kebilidi)

Reference Number: LA.PHAR.595

Effective Date:

Last Review Date: 03.04.25

Line of Business: Medicaid

[Coding Implications](#)

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

****Please note: This policy is for medical benefit****

Description

Eladocogene exuparvovec-tneq (Kebilidi™) is a recombinant serotype 2 adeno-associated virus (rAAV2) based gene therapy designed to deliver a copy of the dopa decarboxylase (*DDC*) gene which encodes the aromatic L-amino acid decarboxylase (AADC) enzyme.

FDA Approved Indication(s)

Kebilidi is indicated for the treatment of adults and pediatric patients with AADC deficiency.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

All requests reviewed under this policy **require medical director review**.

It is the policy of Louisiana Healthcare Connections that Kebilidi is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. AADC Deficiency (must meet all):

1. Diagnosis of AADC deficiency as evidenced by documentation of positive testing from two of the following core diagnostic tests (see *Appendix E*):
 - a. Cerebrospinal fluid (CSF) neurotransmitter metabolite panel;
 - b. Single gene or genetic panel testing;
 - c. Plasma enzyme assay;
2. Prescribed by or in consultation with a geneticist or neurologist;
3. Age \geq 16 months;
4. Evidence of classic clinical symptoms of AADC deficiency (e.g., hypotonia, dystonia, oculogyric crisis, unable to stand, developmental retardation, see *Appendix D*);
5. Documentation that member has achieved skull maturity by neuroimaging;
6. Documentation of baseline laboratory tests demonstrating anti-AAV2 neutralizing antibody titer $< 1,200$ fold or ELISA optical density (OD) > 1 ;
7. Dose does not exceed 1.8×10^{11} vg (0.32 mL total volume).

Approval duration: 3 months (one-time dose per lifetime)

B. Other diagnoses/indications (must meet 1 or 2):

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy LA.PMN.53.

II. Continued Therapy

A. AADC Deficiency

1. Continued therapy will not be authorized as Kebilidi is indicated to be dosed one time only.

Approval duration: Not applicable

B. Other diagnoses/indications (must meet 1 or 2):

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy LA.PMN.53.

III. Diagnoses/Indications for which coverage is NOT authorized:

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off-label use policy – LA.PMN.53.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

AADC: aromatic L-amino acid
decarboxylase

CSF: cerebrospinal fluid

DDC: dopa decarboxylase

FDA: Food and Drug Administration

hAADC: human cDNA encoding the AADC
enzyme

MAO: monoamine oxidase

OD: optical density

rAAV2: recombinant serotype 2 adeno-
associated virus

Appendix B: Therapeutic Alternatives

Not applicable

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): patients who have not achieved skull maturity assessed by neuroimaging
- Boxed warning(s): none reported

Appendix D: General Information

- Classic clinical symptoms of AADC deficiency from 2017 Consensus guidelines for the diagnosis and treatment of AADC deficiency and AADC-010/AADC-011 inclusion criteria:
 - Movement disorders: hypotonia, dystonia, dyskinesia, tremor, myoclonus, oculogyric crisis, hypokinesia)
 - Developmental delay: delayed motor development, delayed cognitive development, delayed speech development
 - Tone regulation: floppy infant, hypotonia, hypertonia, poor head control

Appendix E: Diagnostic Information

- Per 2017 consensus guideline for the diagnosis and treatment of AADC deficiency, there are three core diagnostic tools for identifying AADC deficiency. When feasible, it is recommended to conduct all three key diagnostic tests for patients:
 - Low CSF levels of 5-hydroxyindoleacetic acid (5-HIAA), homovanillic acid (HVA), and 3-methoxy-4-hydroxyphenylglycol (MHPG), with normal CSF pterins, and increased CSF levels of L-dopa, 3-O-methyldopa (3-OMD), and 5-OH tryptophan (5-HTP)
 - Genetic diagnosis showing compounding heterozygous or homozygous disease causing variants in the *DDC* gene
 - Decreased AADC enzyme activity in plasma
- PTC Therapeutics' PTC Pinpoint Program has partnered with two companies, Invitae and MNG Laboratories, to offer no-cost testing.
 - The Invitae Neurotransmitter Disorders panel analyzes the *DDC* gene and analyzes for AADC deficiency. More information can be found on the Invitae website: <https://www.invitae.com/us/providers/test-catalog/test-06203>.
 - MNG Laboratories offers blood testing for elevated levels of the neurotransmitter metabolite 3-OMD. If elevated levels of 3-OMD are present, more diagnostic tests will be completed, including AADC enzyme activity assessment and *DDC* gene sequencing. More information can be found on the website: <https://aadcsinsights.com/no-cost-testing/>.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
AADC deficiency	Administer a total dose of 1.8×10^{11} vg (0.32 mL total volume) delivered as four 0.08 mL (0.45×10^{11} vg) intraputaminial infusions (two sites per putamen-anterior and posterior) at a rate of 0.003 mL/minute (0.18 mL/hour) for a total of 27 minutes per site	1.8×10^{11} vg (0.32 mL total volume)

VI. Product Availability

Single-dose vial for intraputaminial infusion: 2.8×10^{11} vg/0.5 mL (nominal concentration of 5.6×10^{11} vg/mL) of eladocagene exuparvovec-tneq and each 2 mL vial contains an extractable volume of 0.5 mL

VII. References

1. Kebilidi Prescriber Information. Warren, NJ. PTC Therapeutics, Inc; November 2024. Available at: <https://www.ptcbio.com/wp-content/uploads/sites/2/2024/11/Kebilidi-Prescribing-Information.pdf>. Accessed December 12, 2024.
2. Wassenberg T, Molero-Luis M, Jeltsch K, et al. Consensus guideline for the diagnosis and treatment of aromatic l-amino acid decarboxylase (AADC) deficiency. Orphanet J Rare Dis. 2017 Jan 18;12(1):12.
3. ClinicalTrials.gov. A clinical trial for treatment of aromatic L-amino acid decarboxylase (AADC) deficiency using AAV2-hAADC- an expansion. Available at: <https://clinicaltrials.gov/ct2/show/NCT02926066>. Accessed August 19, 2024.
4. ClinicalTrials.gov. A phase I/II clinical trial for treatment of aromatic L-amino acid decarboxylase (AADC) deficiency using AAV2-hAADC (AADC). Available at: <https://clinicaltrials.gov/ct2/show/NCT01395641>. Accessed July 19, 2024.
5. Clinical and economic data supporting formulary consideration of eladocagene exuparvovec. South Plainfield, NJ. PTC Therapeutics, Inc. September 2020.
6. Upstaza (eladocagene exuparvovec): Clinical trial data. PTC Therapeutics, Inc. July 2022.
7. Upstaza Product Information. Dublin, Ireland. PTC Therapeutics International Ltd. September 2022. Available at: <https://www.ema.europa.eu/en/medicines/human/EPAR/upstaza>. Accessed August 19, 2024.
8. Golikeri A and Yi S. BLA clinical and clinical pharmacology review memorandum – Kebilidi. PTC Therapeutics, Inc. March 2024. Accessed January 6, 2025.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPSC Codes	Description
J3590	Unclassified biologics
C9399	Unclassified drugs or biologicals

Reviews, Revisions, and Approvals	Date	LDH Approval Date
Converted to local policy.	03.04.25	

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved

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