

# **Clinical Policy: Nadofaragene Firadenovec-vncg (Adstiladrin)**

Reference Number: PA.CP.PHAR.461 Effective Date: 08/2023 Last Review Date: 01/2024

### Description

Nadofaragene firadenovec-vncg (Adstiladrin<sup>®</sup>) is a gene therapy via a non-replicating adenovirus vector harboring the human interferon alpha2b gene.

# FDA Approved Indication(s)

Adstiladrin is indicated for the treatment of adult patients with high-risk, Bacillus Calmette-Guerin (BCG)-unresponsive, non-muscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors.

# **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.* 

It is the policy of PA Health & Wellness<sup>®</sup> that Adstiladrin is **medically necessary** when the following criteria are met:

# I. Initial Approval Criteria

- A. Non-Muscle Invasive Bladder Cancer (must meet all):
  - 1. Diagnosis of NMIBC characterized as one of the following (a , b, or c) (*see Appendix D*):
    - a. CIS only;
    - b. Ta/T1 high-grade disease with concomitant CIS;\
    - c. Ta/T1 high-grade without concomitant CIS;
  - 2. Prescribed by or in consultation with an oncologist;
  - 3. Age  $\geq$  18 years;
  - 4. Member is refractory to BCG treatment (*see Appendix D*); \**Prior authorization may be required for BCG immunotherapy*
  - 5. For members who are not candidates for cystectomy, failure of intravesical chemotherapy, unless contraindicated or clinically significant adverse effects are experienced;
  - 6. Dose does not exceed one of the following (a or b):
    - a. Dose does not exceed 75 mL (4 vials) of  $3 \times 10^{11}$  viral particles (vp)/mL;
    - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### Approval duration: 3 months (1 dose only)

### B. Other diagnoses/indications

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53



# **II.** Continued Therapy

- A. Non-Muscle Invasive Bladder Cancer (must meet all):
  - 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
  - 2. Member is responding positively to therapy as evidenced by freedom from high-grade disease recurrence, as evaluated by cytology, cystoscopy, and/or biopsy;
  - 3. If request is for a dose increase, request meets one of the following (a or b):
    - a. New dose does not exceed 75 mL (4 vials) of  $3 \times 10^{11}$  vp/mL every 3 months;
    - b. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

# Approval duration: 3 months (1 dose only)

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

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies.

Approval duration: Duration of request or 12 months (whichever is less); or

 Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.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 policies – PA.CP.PMN.53

### **IV. Appendices/General Information**

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Appendix A: Abbreviation/Acronym Key	
BCG: bacillus Calmette-Guerin	Ta tumors are "papillary tumors",
CIS: carcinoma in-situ	T1 tumors have grown into the connective
FDA: Food and Drug Administration	tissue of the bladder wall, but not into the
NMIBC: non-muscle invasive bladder	muscle layer
cancer	vp: viral particles
Ta/T1: description of tumor growth	

### Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Bacillus Calmette-Guerin vaccine (TICE BCG <sup>®</sup> )	1 to $8 \times 10^8$ CFU (a vial) intravesical instillation once per week for 6 weeks	1 to $8 \times 10^8$ CFU per week
gemcitabine	varies	varies
mitomycin	varies	varies

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Therapeutic alternatives are listed as Brand name<sup>®</sup> (generic) when the drug is available by brand name only and generic (Brand name<sup>®</sup>) when the drug is available by both brand and generic.

### Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): hypersensitivity to interferon alfa or any component of the product
- Boxed warning(s): none

#### Appendix D: General Information

- Refractory or "BCG unresponsive" is defined as being at least one of the following:
  - 1. Persistent or recurrent CIS alone or with recurrent Ta/T1 disease within 12 months of completion of adequate BCG therapy, defined as at least one of the following:
    - a. At least 5 of 6 doses of an initial induction course plus at least 2 of 3 doses of maintenance therapy;
    - b. At least 5 of 6 doses of an initial induction course plus at least 2 of 6 doses of the second induction course;
  - 2. Recurrent high-grade Ta/T1 disease within 6 months of completion of adequate BCG therapy;
  - 3. T1 high-grade disease at the first evaluation following an induction BCG course.

#### V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
High grade, BCG	Initial dose: $1 \ge 10^{11} \text{ vp/mL OR } 3 \ge 10^{11}$	75 mL (4 vials) of 3 x
unresponsive	vp/mL	$10^{11}$ vp/mL for a total
NMIBC	Retreatment at months 4, 7, and 10	of four doses

### VI. Product Availability

Single-use vial:  $3 \times 10^{11}$  vp/mL; four single-dose vials per carton

#### **VII. References**

- Adstiladrin Prescribing Information. Kuopio, Finland. Ferring Pharmaceuticals. September 2023. Available at https://www.adstiladrinhcp.com/. Accessed October 27, 2023.
- Boorjian SA, Alemozaffar M, Bad Konety BR, et al. Intravesical nadofaragene firadenovec gene therapy for BCG-unresponsive non-muscle-invasive bladder cancer: a single-arm, open-label, repeat-dose clinical trial [published online November 27, 2020]. Lancet Oncol. doi: 10.1016/S1470-2045(20)30540-4.
- 3. FKD Therapies Oy. A study to evaluate Instiladrin in patients with high-grade, Bacillus Calmette-Guerin (BCG) unresponsive NMIBC. Available at: https://clinicaltrials.gov/ct2/show/study/NCT02773849. Accessed September 27, 2021.
- Shore ND, Boorjian SA, Canter DJ, et al. Intravesical rAD-IFNα/Syn3 for patients with high-grade, Bacillus Calmette-Guerin refractory or relapsed nonmuscle-invasive bladder cancer: a phase II randomized study. Journal of Clinical Oncology. August 2017; 35(30): 3410-3416.
- 5. National Comprehensive Cancer Network. Bladder Cancer Version 3.2023. Available at https://www.nccn.org/professionals/physician\_gls/pdf/bladder.pdf. Accessed October 27, 2023.

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# **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-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J9029	Injection, nadofaragene firadenovec-vncg, per therapeutic dose

Reviews, Revisions, and Approvals	Date
Policy created	07/2023
1Q 2024 annual review: removed initial criteria requirement for clinically	01/2024
significant elevated liver or renal function tests per prescribing	
information; added oncology dosing criteria to allow doses supported by	
practice guidelines or literature; removed 4 doses in lifetime; removed	
HCPCS code J3590 and C9399; references reviewed and updated.	