

Clinical Policy: Amikacin (Arikayce)

Reference Number: CP.PHAR.401

Effective Date: 11.13.18

Last Review Date: 02.19

Line of Business: Commercial, HIM, Medicaid

[Revision Log](#)

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

Description

Amikacin (Arikayce[®]) is a liposomal formulation of amikacin – an aminoglycoside antibiotic active against aerobic gram-negative rods.

FDA Approved Indication(s)

Arikayce is indicated in adults who have limited or no alternative treatment options, for the treatment of *Mycobacterium avium* complex (MAC) lung disease as part of a combination antibacterial drug regimen in patients who do not achieve negative sputum cultures after a minimum of 6 consecutive months of a multidrug background regimen therapy. As only limited clinical safety and effectiveness data for Arikayce are currently available, reserve Arikayce for use in adults who have limited or no alternative treatment options. This drug is indicated for use in a limited and specific population of patients.

This indication is approved under accelerated approval based on achieving sputum culture conversion (defined as 3 consecutive negative monthly sputum cultures) by Month 6. Clinical benefit has not yet been established.

Limitation(s) of use: Arikayce has only been studied in patients with refractory MAC lung disease defined as patients who did not achieve negative sputum cultures after a minimum of 6 consecutive months of a multidrug background regimen therapy. The use of Arikayce is not recommended for patients with non-refractory MAC lung disease.

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 health plans affiliated with Centene Corporation[®] that Arikayce is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria**A. Mycobacterium Avium Complex (MAC) (must meet all):**

1. Diagnosis of MAC;
2. Prescribed by or in consultation with an infectious disease specialist or pulmonologist;
3. Age \geq 18 years;
4. Failure, as evidenced by positive sputum culture, of at least a 6-month trial of a multidrug background regimen therapy at up to maximally indicated doses (*see*

Appendix B), unless contraindicated or clinically significant adverse effects are experienced;

5. Dose does not exceed one vial per day.

Approval duration: 6 months

B. Other diagnoses/indications

1. 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): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Mycobacterium Avium Complex (MAC) (must meet all):

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Documentation of at least 3 consecutive negative monthly sputum cultures in the first 6 months of therapy or at least 2 consecutive negative monthly sputum cultures in the last 2 months of therapy;
3. If request is for a dose increase, new dose does not exceed one vial per day.

Approval duration: Up to a total of 12 months of treatment after converting to negative sputum status

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

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.
Approval duration: Duration of request or 12 months (whichever is less); or
2. 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): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

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 – CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration

MAC: mycobacterium avium complex

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
clarithromycin (Biaxin [®]) or azithromycin (Zmax [®]) + ethambutol (Myambutol [®]) + rifampin (Rifadin [®])	Variable dosing	Combo used for initial therapy for nodular/bronchiectatic disease
clarithromycin (Biaxin [®]) or azithromycin (Zmax [®]) + ethambutol (Myambutol [®]) + rifampin (Rifadin [®]) + streptomycin or amikacin (Amikin [®]) or none.	Variable dosing	Combo used for initial therapy for cavitary disease
clarithromycin (Biaxin [®]) or azithromycin (Zmax [®]) + ethambutol (Myambutol [®]) + rifampin (Rifadin [®]) or rifabutin (Mycobutin [®]) + streptomycin or amikacin (Amikin [®])	Variable dosing	Combo used for advanced (severe) or previously treated disease

Therapeutic alternatives are listed as Brand name[®] (generic) when the drug is available by brand name only and generic (Brand name[®]) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): Arikayce is contraindicated in patients with a known hypersensitivity to any aminoglycoside.
- Boxed warning(s): Arikayce has been associated with a risk of increased respiratory adverse reactions, including, hypersensitivity pneumonitis, hemoptysis, bronchospasm, and exacerbation of underlying pulmonary disease that have led to hospitalization in some cases.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
MAC	Inhalation of the contents of one 590 mg/8.4 mL Arikayce vial per day	590 mg/8.4 mL per day

VI. Product Availability

Solution for inhalation: 590 mg/8.4 mL

VII. References

1. Arikayce Prescribing Information. Bridgewater, NJ: Inmed; September 2018. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/207356s000lbl.pdf. Accessed October 19, 2018.
2. Olivier KN, et al. Randomized Trial of Liposomal Amikacin for Inhalation in Nontuberculous Lung Disease. American Journal of Respiratory and Critical Care Medicine. 195;6. March 15, 2017: 814-823.
3. Griffith DE, et al. Amikacin Liposome Suspension for Treatment-Refractory Lung Disease Caused by Mycobacterium Avium Complex (CONVERT): A Prospective, Open-Label, Randomized Study. American Journal of Respiratory and Critical Care Medicine. September 2018. doi: 10.1164/rccm.201807-1318OC.

4. Arikayce Drug Monograph. Clinical Pharmacology. Accessed October 19, 2018.
<http://www.clinicalpharmacology-ip.com>
5. Griffith DE, et al. An Official ATS/IDSA Statement: Diagnosis, Treatment, and Prevention of Nontuberculous Mycobacterial Diseases. American Journal of Respiratory and Critical Care Medicine. 2007;175:367-416

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	11.13.18	02.19
No significant changes; finalized line of business to apply to HIM.	04.22.19	

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. The Health Plan 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. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to

recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

For Health Insurance Marketplace members, when applicable, this policy applies only when the prescribed agent is on your health plan approved formulary. Request for non-formulary drugs must be reviewed using the non-formulary policy; HIM.PA.103.

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