

**HIGHLIGHTS OF PRESCRIBING INFORMATION:**  
These highlights do not include all the information needed to use ARIKAYCE safely and effectively. See full prescribing information for ARIKAYCE.

**ARIKAYCE® (amikacin liposome inhalation suspension), for oral inhalation use**  
Initial U.S. Approval: 2018  
**LIMITED POPULATION**

**WARNING: RISK OF INCREASED RESPIRATORY ADVERSE REACTIONS**  
*See full prescribing information for complete boxed warning.*  
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 hospitalizations in some cases. (5.1, 5.2, 5.3, 5.4)

**INDICATIONS AND USAGE—**  
ARIKAYCE is an aminoglycoside antibiotic 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. (1)

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. (1)

**Limitation 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.

**DOSAGE AND ADMINISTRATION**  
• For oral inhalation only (2.1)  
• Use ARIKAYCE vials only with the Lamira Nebulizer System. (2.1)  
• The recommended dosage in adults is once daily oral inhalation of the contents of one 590 mg/8.4 mL ARIKAYCE vial. (2.2)  
• Pre-treatment with inhaled bronchodilator should be considered in patients with a history of hyperreactive airway disease. (2.1)

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**Revised: 9/2018**

**FULL PRESCRIBING INFORMATION**

**WARNING: RISK OF INCREASED RESPIRATORY ADVERSE REACTIONS**

ARIKAYCE has been associated with an increased risk of respiratory adverse reactions including, hypersensitivity pneumonitis, hemoptysis, bronchospasm, exacerbation of underlying pulmonary disease that have led to hospitalizations in some cases [see Warnings and Precautions (5.1, 5.2, 5.3, 5.4)].

**1 INDICATIONS AND USAGE**  
**LIMITED POPULATION:** 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 [see *Clinical Studies* (14)]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

**Limitation 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.

**2 DOSAGE AND ADMINISTRATION**  
**2.1 Important Administration Instructions**  
ARIKAYCE is for oral inhalation use only. Administer by nebulization only with the Lamira™ Nebulizer System. Refer to the Instructions for Use for full administration information on use of ARIKAYCE with the Lamira Nebulizer System.

Instruct patients using a bronchodilator ("reliever") to first use the bronchodilator following the bronchodilator leaflet for use information before using ARIKAYCE.

Pre-treatment with short-acting selective beta-2 agonists should be considered for patients with known hyperreactive airway disease, chronic obstructive pulmonary disease, asthma, or bronchospasm [see *Warnings and Precautions* (5.3)].

**2.2 Recommended Dosage**  
The recommended dosage of ARIKAYCE in adults is once daily inhalation of the contents of one 590 mg/8.4 mL ARIKAYCE vial (590 mg of amikacin) using the Lamira Nebulizer System.

Administer ARIKAYCE with the Lamira Nebulizer System only. ARIKAYCE should be at room temperature before use. Prior to opening, shake the ARIKAYCE vial well for at least 10 to 15 seconds until the contents appear uniform and well mixed. The ARIKAYCE vial is opened by flipping up the plastic top of the vial then pulling downward to loosen the metal ring. The metal ring and the rubber stopper should be removed carefully. The contents of the ARIKAYCE vial can then be poured into the medication reservoir of the nebulizer handset.

If a daily dose of ARIKAYCE is missed, administer the next dose the next day. Do **NOT** double the dose to make up for the missed dose.

**3 DOSAGE FORMS AND STRENGTHS**  
ARIKAYCE is supplied as a sterile, white, milky, aqueous, liposome suspension for oral inhalation in a unit-dose glass vial containing amikacin 590 mg/8.4 mL (equivalent to amikacin sulfate 623 mg/8.4 mL). ARIKAYCE is contraindicated in patients with a known hypersensitivity to any aminoglycoside.

**5 WARNINGS AND PRECAUTIONS**  
**5.1 Hypersensitivity Pneumonitis**  
Hypersensitivity pneumonitis has been reported with the use of ARIKAYCE in the clinical trials.

Hypersensitivity pneumonitis (reported as allergic alveolitis, pneumonitis, interstitial lung disease, allergic reaction to ARIKAYCE) was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (3.1%) compared to patients treated with a background regimen alone (0%). Most patients with hypersensitivity pneumonitis discontinued treatment with ARIKAYCE and received treatment with corticosteroids [see *Adverse Reactions* (6.1)]. If hypersensitivity pneumonitis occurs, discontinue ARIKAYCE and manage the patient as medically appropriate.

**5.2 Hemoptysis**  
Hemoptysis has been reported with the use of ARIKAYCE in the clinical trials. Hemoptysis was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (17.9%) compared to patients treated with a background regimen alone (12.5%) [see *Adverse Reactions* (6.1)]. If hemoptysis occurs, manage the patients as medically appropriate.

**5.3 Bronchospasm**  
Bronchospasm has been reported with the use of ARIKAYCE in the clinical trials. Bronchospasm (reported as asthma, bronchial hyperreactivity, bronchospasm, dyspnea, dyspnea exertional, prolonged expiration, throat tightness, wheezing) was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (28.7%) compared to patients treated with a background regimen alone (10.7%) [see *Adverse Reactions* (6.1)]. If bronchospasm occurs during the use of ARIKAYCE treat the patients as medically appropriate.

**5.4 Exacerbation of Underlying Pulmonary Disease**  
Exacerbations of underlying pulmonary disease has been reported with the use of ARIKAYCE in the clinical trials. Exacerbations of underlying pulmonary disease (reported as chronic obstructive pulmonary disease, infective exacerbation of chronic obstructive pulmonary disease, infective exacerbation of bronchiectasis) has been reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (14.8%) compared to patients treated with background regimen alone (9.8%) [see *Adverse Reactions* (6.1)]. If exacerbations of underlying pulmonary disease occurs during the use of ARIKAYCE, treat the patients as medically appropriate.

**5.5 Ototoxicity**  
Ototoxicity has been reported with the use of ARIKAYCE in the clinical trials. Ototoxicity (including deafness, dizziness, presyncope, tinnitus, and vertigo) were reported with a higher frequency in patients treated with ARIKAYCE plus a background regimen (17%) compared to patients treated with background regimen alone (9.8%). This was primarily driven by tinnitus (7.6% in ARIKAYCE plus background regimen vs. 0.9% in the background regimen alone arm) and dizziness (6.3% in ARIKAYCE plus background regimen vs. 2.7% in the background regimen alone arm) [see *Adverse Reactions* (6.1)].

Closely monitor patients with known or suspected auditory or vestibular dysfunction during treatment with ARIKAYCE. If ototoxicity occurs, manage the patient as medically appropriate, including potentially discontinuing ARIKAYCE.

**5.6 Nephrotoxicity**  
Nephrotoxicity was observed during the clinical trials of ARIKAYCE in patients with MAC lung disease but not at a higher frequency than the background regimen alone [see *Adverse Reactions* (6.1)]. Nephrotoxicity has been associated with the aminoglycosides. Close monitoring of patients with known or suspected renal dysfunction may be needed when prescribing ARIKAYCE.

**5.7 Neuromuscular Blockade**  
Patients with neuromuscular disorders were not enrolled in ARIKAYCE clinical trials. Patients with known or suspected neuromuscular disorders, such as myasthenia gravis, should be closely monitored since aminoglycosides may aggravate muscle weakness by blocking the release of acetylcholine at neuromuscular junctions.

Aminoglycosides can cause fetal harm when administered to a pregnant woman. Aminoglycosides, including ARIKAYCE, may be associated with total, irreversible, bilateral congenital deafness in pediatric patients exposed *in utero*. Patients who use ARIKAYCE during pregnancy, or become pregnant while taking ARIKAYCE should be apprised of the potential hazard to the fetus [see *Use in Specific Populations* (8.1)].

**6 ADVERSE REACTIONS**  
The following clinically significant adverse reactions are described in greater detail in other sections of labeling:

- Hypersensitivity pneumonitis [see *Boxed Warning and Warnings and Precautions* (5.1)]
- Hemoptysis [see *Boxed Warning and Warnings and Precautions* (5.2)]
- Bronchospasm [see *Boxed Warning and Warnings and Precautions* (5.3)]
- Exacerbation of Underlying Pulmonary Disease [see *Boxed Warning and Warnings and Precautions* (5.4)]
- Ototoxicity [see *Warnings and Precautions* (5.5)]
- Nephrotoxicity [see *Warnings and Precautions* (5.6)]
- Neuromuscular Blockade [see *Warnings and Precautions* (5.7)]

**6.1 Clinical Trials Experience**  
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

**Overview of Clinical Trials for Safety Evaluation**  
Within the refractory NTM clinical program, 388 patients that participated in three clinical trials were treated with ARIKAYCE at the dose of 590 mg/day (median duration of exposure to ARIKAYCE was 169 days).

Trial 1 (NCT#02344004) was an open-label, randomized (2:1), multi-center trial in patients with refractory *Mycobacterium avium* complex (MAC) lung disease. Patients were randomized to either 8 months of ARIKAYCE plus a background regimen (n=223) or background regimen alone (n=112).

Trial 2 (NCT#02628600) was a single-arm extension of Trial 1 for refractory MAC lung disease patients that failed to achieve negative sputum cultures after 6 months of treatment or had a relapse or recurrence by Month 6 from either study arm of Trial 1. A total of 133 patients (n=74 from the prior background regimen alone arm of Trial 1, and n=59 from the prior ARIKAYCE plus background regimen arm in Trial 1) participated in the trial.

Trial 3 (NCT#01315236) was a double-blind, randomized, placebo-controlled Phase 2 study in patients with refractory nontuberculous mycobacterial (NTM) lung disease caused by MAC and *Mycobacterium abscessus*. Patients were randomized to either ARIKAYCE plus background regimen or an inhaled diluted empty liposome placebo plus background regimen for 84 days.

Across all clinical trials of patients with and without refractory NTM lung infection, 802 patients were exposed to multiple doses of ARIKAYCE.

**Adverse Reactions Leading to Treatment Discontinuation**  
In the three NTM studies, there was a higher incidence of premature discontinuation of ARIKAYCE. In Trial 1, 33.5% discontinued ARIKAYCE prematurely; most were due to adverse reactions (17.4%) and withdrawal by subject (9.4%). In the comparator arm 8% of subjects discontinued their background regimen, with 0.9% due to adverse reactions and 5.4% due to withdrawal by subject. In Trial 2 (the single-arm extension of Trial 1), 20.3% of patients starting on ARIKAYCE discontinued prematurely with 14.9% discontinuing due to adverse reactions. In Trial 3, all 9 (20.5%) premature discontinuations occurred in the ARIKAYCE plus background regimen-treated patients and there were no premature discontinuations in the placebo plus background regimen arm.

**Serious Adverse Reactions in Trials 1 and 3**  
In the two randomized trials (Trial 1 and Trial 3), there were more serious adverse reactions (SARs) reported in the ARIKAYCE-treated arm as compared to the respective control arm. In Trial 1, 20.2% of

patients treated with ARIKAYCE plus background regimen reported SAR as compared to 16.1% of patients treated with background regimen alone. In addition, in Trial 1 [2 to 1 randomization, ARIKAYCE plus background regimen versus background regimen alone], there were 23 hospitalizations in 41 patients (18.4%) treated with ARIKAYCE plus background regimen compared to 23 hospitalizations in 15 patients (13.4%) treated with background regimen alone. The most common SARs and reasons for hospitalization in the ARIKAYCE plus background regimen arm were related to exacerbation of underlying pulmonary disease and lower respiratory tract infections, such as pneumonia.

In Trial 3, 18.2% of patients treated with ARIKAYCE plus background regimen reported SARs compared to 8.9% of patients treated with background regimen plus inhaled placebo.

**Common Adverse Reactions**  
The incidence of adverse reactions in Trial 1 are displayed in Table 1. Only those adverse reactions with a rate of at least 5% in the ARIKAYCE plus background regimen group and greater than the background regimen alone group, are shown.

Adverse Reaction	ARIKAYCE plus Background Regimen (n=223) n (%)	Background Regimen Alone (n=112) n (%)
Dysphonia <sup>a</sup>	10 (4.7)	1 (1)
Cough <sup>b</sup>	87 (39)	19 (17)
Bronchospasm <sup>c</sup>	64 (29)	12 (11)
Hemoptysis	40 (18)	14 (13)
Ototoxicity <sup>d</sup>	38 (17)	11 (10)
Upper airway irritation <sup>e</sup>	37 (17)	2 (2)
Musculoskeletal pain <sup>f</sup>	37 (17)	9 (8)
Fatigue and asthenia	36 (16)	11 (10)
Exacerbation of underlying pulmonary disease <sup>g</sup>	33 (15)	11 (10)
Diarrhea	28 (13)	5 (5)
Nausea	26 (12)	4 (4)
Pneumonia <sup>h</sup>	22 (10)	9 (8)
Headache	22 (10)	5 (5)
Pyrexia	16 (7)	5 (5)
Vomiting <sup>i</sup>	15 (7)	4 (4)
Rash <sup>j</sup>	14 (6)	2 (2)
Weight decreased	14 (6)	1 (1)
Change in sputum <sup>k</sup>	12 (5)	1 (1)
Chest discomfort	12 (5)	3 (3)

<sup>a</sup>Includes aphonia and dysphonia  
<sup>b</sup>Includes cough, productive cough and upper airway cough syndrome  
<sup>c</sup>Includes asthma, bronchial hyperreactivity, bronchospasm, dyspnea, dyspnea exertional, prolonged expiration, throat tightness, wheezing  
<sup>d</sup>Includes deafness, deafness neurosensory, deafness unilateral, dizziness, hyperacusis, presyncope, tinnitus, vertigo  
<sup>e</sup>Includes oropharyngeal pain, oropharyngeal discomfort, throat irritation, pharyngeal erythema, upper airway inflammation, pharyngeal edema, vocal cord inflammation, laryngeal pain, laryngeal erythema, laryngitis  
<sup>f</sup>Includes back pain, arthralgia, myalgia, pain/body aches, muscle spasm and musculoskeletal pain  
<sup>g</sup>Includes COPD, infective exacerbation of COPD, infective exacerbation of bronchiectasis  
<sup>h</sup>Includes atypical pneumonia, empyema, infection pleural effusion, lower respiratory tract infection, lung infection, lung infection pseudomonas, pneumonia, pneumonia aspiration, pneumonia pseudomonas, pseudomonas infection and respiratory tract infection  
<sup>i</sup>Includes vomiting and post-nausea vomiting  
<sup>j</sup>Includes rash, rash maculo-papular, drug eruption and urticaria  
<sup>k</sup>Includes increased sputum, sputum purulent and sputum discolored

**To report SUSPECTED ADVERSE REACTIONS, contact Insmed Incorporated at 1-844-4-INSMED or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch**  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**  
**Revised: 9/2018**

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**FULL PRESCRIBING INFORMATION**

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**1 INDICATIONS AND USAGE**  
**LIMITED POPULATION:** 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 [see *Clinical Studies* (14)]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

**Limitation 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.

**2 DOSAGE AND ADMINISTRATION**  
**2.1 Important Administration Instructions**  
ARIKAYCE is for oral inhalation use only. Administer by nebulization only with the Lamira™ Nebulizer System. Refer to the Instructions for Use for full administration information on use of ARIKAYCE with the Lamira Nebulizer System.

Instruct patients using a bronchodilator ("reliever") to first use the bronchodilator following the bronchodilator leaflet for use information before using ARIKAYCE.

Pre-treatment with short-acting selective beta-2 agonists should be considered for patients with known hyperreactive airway disease, chronic obstructive pulmonary disease, asthma, or bronchospasm [see *Warnings and Precautions* (5.3)].

**2.2 Recommended Dosage**  
The recommended dosage of ARIKAYCE in adults is once daily inhalation of the contents of one 590 mg/8.4 mL ARIKAYCE vial (590 mg of amikacin) using the Lamira Nebulizer System.

Administer ARIKAYCE with the Lamira Nebulizer System only. ARIKAYCE should be at room temperature before use. Prior to opening, shake the ARIKAYCE vial well for at least 10 to 15 seconds until the contents appear uniform and well mixed. The ARIKAYCE vial is opened by flipping up the plastic top of the vial then pulling downward to loosen the metal ring. The metal ring and the rubber stopper should be removed carefully. The contents of the ARIKAYCE vial can then be poured into the medication reservoir of the nebulizer handset.

If a daily dose of ARIKAYCE is missed, administer the next dose the next day. Do **NOT** double the dose to make up for the missed dose.

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**5 WARNINGS AND PRECAUTIONS**  
**5.1 Hypersensitivity Pneumonitis**  
Hypersensitivity pneumonitis has been reported with the use of ARIKAYCE in the clinical trials.

Hypersensitivity pneumonitis (reported as allergic alveolitis, pneumonitis, interstitial lung disease, allergic reaction to ARIKAYCE) was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (3.1%) compared to patients treated with a background regimen alone (0%). Most patients with hypersensitivity pneumonitis discontinued treatment with ARIKAYCE and received treatment with corticosteroids [see *Adverse Reactions* (6.1)]. If hypersensitivity pneumonitis occurs, discontinue ARIKAYCE and manage the patient as medically appropriate.

**5.2 Hemoptysis**  
Hemoptysis has been reported with the use of ARIKAYCE in the clinical trials. Hemoptysis was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (17.9%) compared to patients treated with a background regimen alone (12.5%) [see *Adverse Reactions* (6.1)]. If hemoptysis occurs, manage the patients as medically appropriate.

**5.3 Bronchospasm**  
Bronchospasm has been reported with the use of ARIKAYCE in the clinical trials. Bronchospasm (reported as asthma, bronchial hyperreactivity, bronchospasm, dyspnea, dyspnea exertional, prolonged expiration, throat tightness, wheezing) was reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (28.7%) compared to patients treated with a background regimen alone (10.7%) [see *Adverse Reactions* (6.1)]. If bronchospasm occurs during the use of ARIKAYCE treat the patients as medically appropriate.

**5.4 Exacerbation of Underlying Pulmonary Disease**  
Exacerbations of underlying pulmonary disease has been reported with the use of ARIKAYCE in the clinical trials. Exacerbations of underlying pulmonary disease (reported as chronic obstructive pulmonary disease, infective exacerbation of chronic obstructive pulmonary disease, infective exacerbation of bronchiectasis) has been reported at a higher frequency in patients treated with ARIKAYCE plus a background regimen (14.8%) compared to patients treated with background regimen alone (9.8%) [see *Adverse Reactions* (6.1)]. If exacerbations of underlying pulmonary disease occurs during the use of ARIKAYCE, treat the patients as medically appropriate.

**5.5 Ototoxicity**  
Ototoxicity has been reported with the use of ARIKAYCE in the clinical trials. Ototoxicity (including deafness, dizziness, presyncope, tinnitus, and vertigo) were reported with a higher frequency in patients treated with ARIKAYCE plus a background regimen (17%) compared to patients treated with background regimen alone (9.8%). This was primarily driven by tinnitus (7.6% in ARIKAYCE plus background regimen vs. 0.9% in the background regimen alone arm) and dizziness (6.3% in ARIKAYCE plus background regimen vs. 2.7% in the background regimen alone arm) [see *Adverse Reactions* (6.1)].

Closely monitor patients with known or suspected auditory or vestibular dysfunction during treatment with ARIKAYCE. If ototoxicity occurs, manage the patient as medically appropriate, including potentially discontinuing ARIKAYCE.

**5.6 Nephrotoxicity**  
Nephrotoxicity was observed during the clinical trials of ARIKAYCE in patients with MAC lung disease but not at a higher frequency than the background regimen alone [see *Adverse Reactions* (6.1)]. Nephrotoxicity has been associated with the aminoglycosides. Close monitoring of patients with known or suspected renal dysfunction may be needed when prescribing ARIKAYCE.

**5.7 Neuromuscular Blockade**  
Patients with neuromuscular disorders were not enrolled in ARIKAYCE clinical trials. Patients with known or suspected neuromuscular disorders, such as myasthenia gravis, should be closely monitored since aminoglycosides may aggravate muscle weakness by blocking the release of acetylcholine at neuromuscular junctions.

Aminoglycosides can cause fetal harm when administered to a pregnant woman. Aminoglycosides, including ARIKAYCE, may be associated with total, irreversible, bilateral congenital deafness in pediatric patients exposed *in utero*. Patients who use ARIKAYCE during pregnancy, or become pregnant while taking ARIKAYCE should be apprised of the potential hazard to the fetus [see *Use in Specific Populations* (8.1)].

**6 ADVERSE REACTIONS**  
The following clinically significant adverse reactions are described in greater detail in other sections of labeling:

- Hypersensitivity pneumonitis [see *Boxed Warning and Warnings and Precautions* (5.1)]
- Hemoptysis [see *Boxed Warning and Warnings and Precautions* (5.2)]
- Bronchospasm [see *Boxed Warning and Warnings and Precautions* (5.3)]
- Exacerbation of Underlying Pulmonary Disease [see *Boxed Warning and Warnings and Precautions* (5.4)]
- Ototoxicity [see *Warnings and Precautions* (5.5)]
- Nephrotoxicity [see *Warnings and Precautions* (5.6)]
- Neuromuscular Blockade [see *Warnings and Precautions* (5.7)]

**6.1 Clinical Trials Experience**  
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

**Overview of Clinical Trials for Safety Evaluation**  
Within the refractory NTM clinical program, 388 patients that participated in three clinical trials were treated with ARIKAYCE at the dose of 590 mg/day (median duration of exposure to ARIKAYCE was 169 days).

Trial 1 (NCT#02344004) was an open-label, randomized (2:1), multi-center trial in patients with refractory *Mycobacterium avium* complex (MAC) lung disease. Patients were randomized to either 8 months of ARIKAYCE plus a background regimen (n=223) or background regimen alone (n=112).

Trial 2 (NCT#02628600) was a single-arm extension of Trial 1 for refractory MAC lung disease patients that failed to achieve negative sputum cultures after 6 months of treatment or had a relapse or recurrence by Month 6 from either study arm of Trial 1. A total of 133 patients (n=74 from the prior background regimen alone arm of Trial 1, and n=59 from the prior ARIKAYCE plus background regimen arm in Trial 1) participated in the trial.

Trial 3 (NCT#01315236) was a double-blind, randomized, placebo-controlled Phase 2 study in patients with refractory nontuberculous mycobacterial (NTM) lung disease caused by MAC and *Mycobacterium abscessus*. Patients were randomized to either ARIKAYCE plus background regimen or an inhaled diluted empty liposome placebo plus background regimen for 84 days.

Across all clinical trials of patients with and without refractory NTM lung infection, 802 patients were exposed to multiple doses of ARIKAYCE.

**Adverse Reactions Leading to Treatment Discontinuation**  
In the three NTM studies, there was a higher incidence of premature discontinuation of ARIKAYCE. In Trial 1, 33.5% discontinued ARIKAYCE prematurely; most were due to adverse reactions (17.4%) and withdrawal by subject (9.4%). In the comparator arm 8% of subjects discontinued their background regimen, with 0.9% due to adverse reactions and 5.4% due to withdrawal by subject. In Trial 2 (the single-arm extension of Trial 1), 20.3% of patients starting on ARIKAYCE discontinued prematurely with 14.9% discontinuing due to adverse reactions. In Trial 3, all 9 (20.5%) premature discontinuations occurred in the ARIKAYCE plus background regimen-treated patients and there were no premature discontinuations in the placebo plus background regimen arm.

**Serious Adverse Reactions in Trials 1 and 3**  
In the two randomized trials (Trial 1 and Trial 3), there were more serious adverse reactions (SARs) reported in the ARIKAYCE-treated arm as compared to the respective control arm. In Trial 1, 20.2% of

patients treated with ARIKAYCE plus background regimen reported SAR as compared to 16.1% of patients treated with background regimen alone. In addition, in Trial 1 [2 to 1 randomization, ARIKAYCE plus background regimen versus background regimen alone], there were 23 hospitalizations in 41 patients (18.4%) treated with ARIKAYCE plus background regimen compared to 23 hospitalizations in 15 patients (13.4%) treated with background regimen alone. The most common SARs and reasons for hospitalization in the ARIKAYCE plus background regimen arm were related to exacerbation of underlying pulmonary disease and lower respiratory tract infections, such as pneumonia.

In Trial 3, 18.2% of patients treated with ARIKAYCE plus background regimen reported SARs compared to 8.9% of patients treated with background regimen plus inhaled placebo.

**Common Adverse Reactions**  
The incidence of adverse reactions in Trial 1 are displayed in Table 1. Only those adverse reactions with a rate of at least 5% in the ARIKAYCE plus background regimen group and greater than the background regimen alone group, are shown.

Adverse Reaction	ARIKAYCE plus Background Regimen (n=223)
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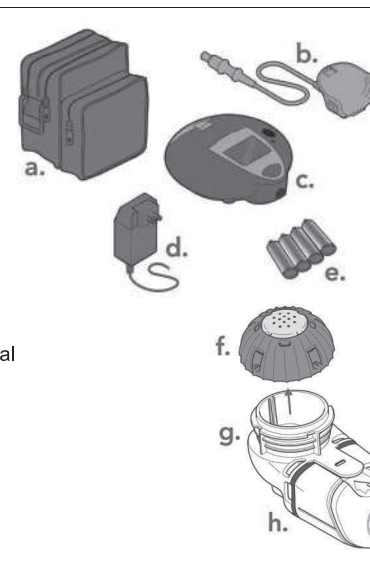



<p style="text-align: center;"><b>MEDICATION GUIDE</b>  <b>ARIKAYCE (ar' i kase) LIMITED POPULATION</b>  (amikacin liposome inhalation suspension)  for oral inhalation use</p>	
<b>Important:</b> For oral inhalation only.	
<p><b>What is the most important information I should know about ARIKAYCE?</b>  <b>ARIKAYCE can cause serious side effects, including:</b></p> <ul style="list-style-type: none"> <li><b>allergic inflammation of the lungs:</b> These respiratory problems may be symptoms of allergic inflammation of the lungs and often come with: <ul style="list-style-type: none"> <li>fever</li> <li>wheezing</li> <li>coughing</li> <li>shortness of breath</li> <li>fast breathing</li> </ul> </li> <li><b>coughing up of blood (hemoptysis):</b> Coughing up blood is a serious and common side effect of ARIKAYCE.</li> <li><b>severe breathing problems:</b> Severe breathing problems can be symptoms of bronchospasm. Bronchospasm is a serious and common side effect of ARIKAYCE. Bronchospasm symptoms include: <ul style="list-style-type: none"> <li>shortness of breath</li> <li>difficult or labored breathing</li> <li>wheezing</li> <li>coughing or chest tightness</li> </ul> </li> <li><b>worsening of chronic obstructive pulmonary disease (COPD):</b> This is a serious and common side effect of ARIKAYCE.</li> </ul> <p><b>While using ARIKAYCE these side effects may become serious enough that treatment in a hospital is needed.</b>  <b>Call your healthcare provider or get medical help right away</b> if you have any of these serious side effects while taking ARIKAYCE. Your healthcare provider may ask you to stop using ARIKAYCE for a short period of time or completely stop using ARIKAYCE.</p> <p><b>What is ARIKAYCE?</b>  ARIKAYCE is a prescription medicine used to treat adults with refractory (difficult to treat) <i>Mycobacterium avium</i> complex (MAC) lung disease as part of a combination antibacterial drug treatment plan (regimen). It is not known if ARIKAYCE is safe and effective in children younger than 18 years of age. This product was approved by FDA using the Limited Population pathway. This means FDA has approved this drug for a limited and specific patient population, and studies on the drug may have only answered focused questions about its safety and effectiveness.</p> <p><b>Do not use ARIKAYCE if you:</b></p> <ul style="list-style-type: none"> <li>are allergic to any aminoglycoside, or any of the ingredients in ARIKAYCE. See "What are the ingredients in ARIKAYCE?" at the end of this leaflet for a complete list of ingredients in ARIKAYCE.</li> </ul> <p><b>Before using ARIKAYCE, tell your healthcare provider about all of your medical conditions, including if you:</b></p> <ul style="list-style-type: none"> <li>have asthma, chronic obstructive pulmonary disease (COPD), shortness of breath or wheezing (bronchospasm).</li> <li>have been told you have poor lung function.</li> <li>have hearing problems such as ringing in your ears or hearing loss.</li> <li>have dizziness or sense of the room spinning.</li> <li>have kidney problems.</li> <li>have neuromuscular disease such as myasthenia gravis.</li> <li>are pregnant or plan to become pregnant. It is not known if ARIKAYCE can harm your unborn baby. ARIKAYCE is in a class of medicines that may be connected with complete deafness in babies at birth. The deafness affects both ears and cannot be changed.</li> <li>are breastfeeding or plan to breastfeed. It is not known if the medicine in ARIKAYCE passes into your breast milk and if it can harm your baby. Talk to your healthcare provider about the best way to feed your baby during treatment with ARIKAYCE.</li> </ul> <p><b>Tell your healthcare provider about all the medicines you take, including</b> prescription medicines and over-the-counter medicines, vitamins, and herbal supplements.</p> <p><b>How should I use ARIKAYCE?</b></p> <ul style="list-style-type: none"> <li>Read the step-by-step instructions for using ARIKAYCE at the end of the Medication Guide and the full Instructions for Use provided in your kit. The manufacturer's Instructions for Use provides complete information about how to put together (assemble), prepare, use, clean, and disinfect your Lamira Nebulizer System.</li> <li>Do not use ARIKAYCE unless you understand the directions provided. If you have questions talk to your health care provider or call Anikares Support at 1-833-ARIKARE (1-833-274-5273).</li> <li>Use ARIKAYCE exactly as your healthcare provider tells you to use it. Do not use ARIKAYCE more often than prescribed for you.</li> <li>Only use ARIKAYCE with the Lamira Nebulizer System.</li> <li>Inhale each daily dose of ARIKAYCE 1 time each day through the Lamira Nebulizer Handset. Do not use more than 1 vial of ARIKAYCE in a day.</li> <li>Do not use ARIKAYCE after the expiration date on the vial. If you forget to take your daily dose of ARIKAYCE, take your next dose at your usual time the next day.</li> <li>Do not double the dose to make up for the missed dose.</li> <li>Do not stop using ARIKAYCE or other medicines to treat your MAC lung disease unless told to do so by your healthcare provider.</li> <li>If you use too much ARIKAYCE, call your healthcare provider or go to the nearest emergency room right away.</li> </ul> <p><b>What are the possible side effects of ARIKAYCE?</b>  ARIKAYCE may cause serious side effects, including:</p> <ul style="list-style-type: none"> <li>See "What is the most important information I should know about ARIKAYCE?"</li> <li>hearing loss or ringing in the ears (ototoxicity). Ototoxicity is a serious and common side effect of ARIKAYCE. Tell your healthcare provider right away if you have hearing loss or you hear noises in your ears such as ringing or hissing. Tell your healthcare provider if you start having problems with balance or dizziness (vertigo).</li> <li>worsening kidney problems (nephrotoxicity). ARIKAYCE is in a class of medicines which may cause worsening kidney problems. Your healthcare provider may do a blood test to check how well your kidneys are working during your treatment with ARIKAYCE.</li> <li>worsening muscle weakness (neuromuscular blockade). ARIKAYCE is in a class of medicines which can cause muscle weakness to get worse in people who already have problems with muscle weakness (myasthenia gravis).</li> </ul> <p><b>The most common side effects of ARIKAYCE include:</b></p> <ul style="list-style-type: none"> <li>changes in your voice and hoarseness (dysphonia)</li> <li>tiredness (fatigue)</li> <li>headache</li> <li>rash</li> <li>cough during or after a dose of ARIKAYCE, especially in the first month after starting treatment.</li> <li>sore throat</li> <li>diarrhea</li> <li>fever</li> <li>decreased weight</li> <li>chest discomfort</li> <li>muscle pain</li> <li>nausea</li> <li>vomiting</li> <li>increased sputum</li> </ul> <p>These are not all of the possible side effects of ARIKAYCE.  Call your doctor or pharmacist for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088</p> <p><b>How should I store ARIKAYCE?</b></p> <ul style="list-style-type: none"> <li>Store ARIKAYCE vials refrigerated between 36°F to 46°F (2°C to 8°C) until the expiration date on the vial. Do not freeze.</li> <li>After ARIKAYCE has been stored in the refrigerator, any unused medicine must be thrown away (disposed of) after the expiration date on the vial.</li> <li>Store ARIKAYCE vials at room temperature between 68°F to 77°F (20°C to 25°C) for up to 4 weeks</li> <li>After ARIKAYCE has been stored at room temperature any unused medicine must be thrown away (disposed of) at the end of 4 weeks.</li> <li>Use an opened ARIKAYCE vial right away.</li> <li>Throw away the ARIKAYCE vial right away after use.</li> </ul> <p><b>Keep ARIKAYCE and all medicines out of the reach of children.</b></p> <p><b>General information about safe and effective use of ARIKAYCE</b>  Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use ARIKAYCE for a condition for which it was not prescribed. Do not give ARIKAYCE to other people even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about ARIKAYCE that is written for health professionals.</p> <p><b>What are the ingredients in ARIKAYCE?</b>  <b>Active ingredient:</b> amikacin sulfate  <b>Inactive ingredients:</b> Dipalmitoylphosphatidylcholine (DPPC), cholesterol, sodium chloride, sodium hydroxide (for pH adjustment), and water for injection</p> <p>Manufactured for: Inamed Incorporated, 10 Findeme Ave, Bldg. 10, Bridgewater, NJ 08807-3365  Inamed Incorporated. All rights reserved.  For more information, call Inamed Anikares Support at: 1-833-ARIKARE (1-833-274-5273)  This Medication Guide has been approved by the U.S. Food and Drug Administration</p>	

Issued: 09/2018

**Instructions for Use**  
**ARIKAYCE® LIMITED POPULATION**  
(amikacin liposome inhalation suspension)  
For oral inhalation use  
Lamira™ Nebulizer System

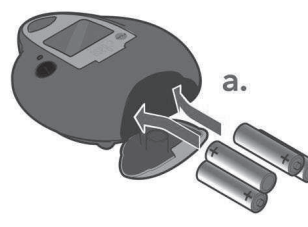
Before using your Lamira Nebulizer System, be sure you read and understand the detailed information in the full Instructions for Use that comes with the Lamira Nebulizer System. This will provide more complete information about how to put together (assemble), prepare, use, clean, and disinfect your Lamira Nebulizer System. If you do not understand any part of the instructions, contact **Anikares Support at 1-833-ARIKARE (1-833-274-5273)** before using the Lamira Nebulizer System.

<p><b>Gather your ARIKAYCE medicine. The ARIKAYCE 28-day kit contains:</b></p> <ul style="list-style-type: none"> <li>1 ARIKAYCE Quick Start Guide</li> <li>1 Instructions for Use insert</li> <li>1 Full Prescribing Information insert</li> <li>1 Lamira Nebulizer Handset</li> <li>4 Lamira Aerosol Heads (1 in each weekly box)</li> <li>28 vials (1 vial each day) of ARIKAYCE (7 in each weekly box)</li> </ul>	
<p><b>Check to make sure you have all the necessary parts for your Lamira Nebulizer System:</b></p>	
<p>a. Carrying Case  b. Connection Cord  c. Controller  d. A/C Power Supply  e. "AA" Batteries</p> 	<p>f. Medication Cap and Seal  g. Medication Reservoir  h. Blue Valve  i. Aerosol Chamber  j. Mouthpiece  k. Spare Aerosol Head</p> 
<p><b>You will also need the following supplies that do not come in your ARIKAYCE 28-day kit that will help you care for your Lamira Nebulizer System:</b></p>	

- Clear liquid soap for cleaning the Handset and Aerosol Head
- Distilled water for disinfecting the Handset and Aerosol Head

**Choose your power supply and get it ready.**

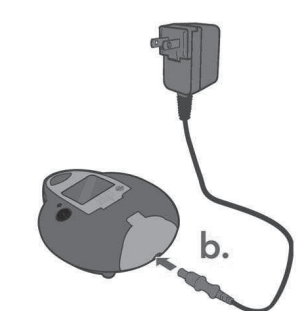
a. 4 "AA" batteries



or

b. A/C Power Supply

- Plug the A/C Power Supply into the Controller.
- Plug the A/C Power Supply into the wall outlet.



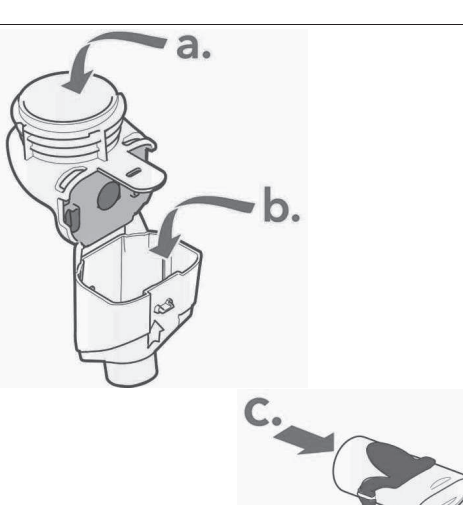
**Do not insert the A/C Power into the front of the Controller.**

**Cleaning and Disinfecting**  
Clean and disinfect your Handset and Aerosol Head before you use it for the first time, and immediately after each use.

When you receive your Handset and Aerosol Head, they will not be sterile. Cleaning and disinfecting your Handset and Aerosol Head is important to reduce the risk of infection, illness, and contamination.

**1. Cleaning the Handset and Aerosol Head Reminder:** Clean the Handset and Aerosol Head before first use and immediately after each use.

- Take apart (disassemble) the Handset for cleaning
- Gently wipe away any drops of medicine from the

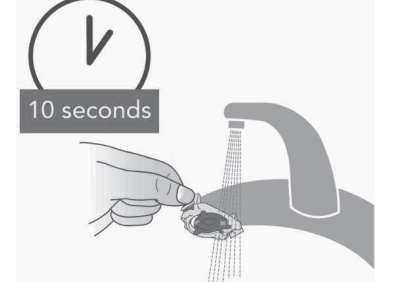


**Use only plain, dry paper towels or wipes.** Do not use towels or wipes that have any chemicals added to them such as alcohol, lotion, or baby wipes.

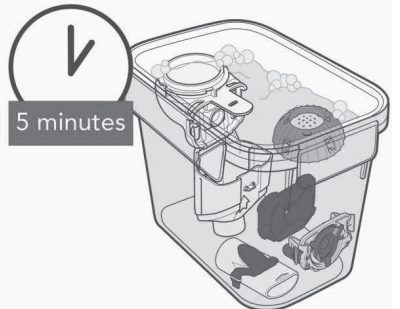
**Be careful not to harm the parts. Do not wipe Aerosol Head.**

**Throw away paper towels by disposing in trash with solid waste.**

- Rinse each of the parts under warm running tap water for **10 seconds**. Rinse the Aerosol Head for **10 seconds on each side**.

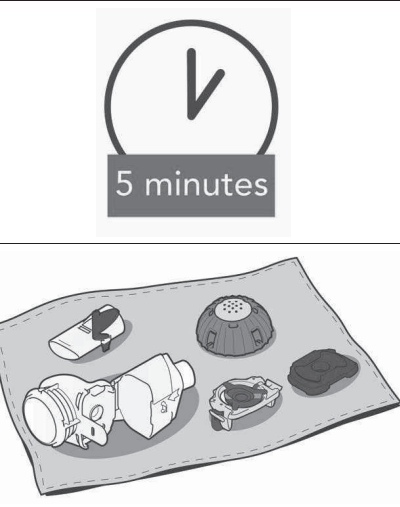


- Clean all Handset parts by adding a few drops of clear liquid dish soap and warm tap water to a clean tub or bowl. Cover the Handset parts in the warm soapy water and soak for **5 minutes**, shaking them periodically. Then rinse them thoroughly under warm running tap water.



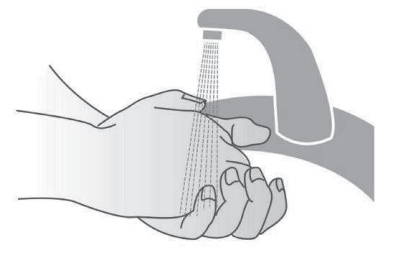
**2. Disinfecting the Handset and Aerosol Head Before First Use**  
**Reminder:** Disinfect the Handset and Aerosol Head before first use.

- Be sure your Handset and Aerosol Head are clean before you disinfect.
- Boil the Handset parts, including the Aerosol Head, in a clean pot of distilled water for a full **5 minutes**.
- Air dry on a lint-free towel. When fully dry, wrap up the parts in a lint-free towel for storage. You can put them together again just before taking your next treatment.

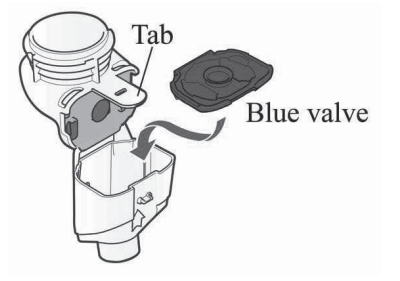


**Assembling Your Handset**

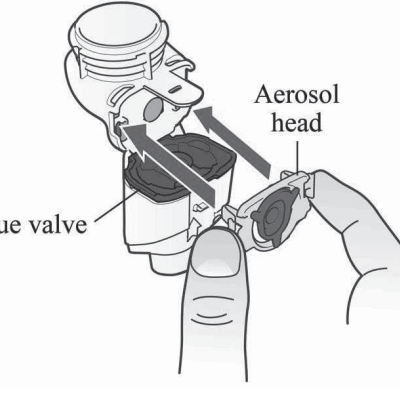
**Step 1: Wash your hands with soap and water, and dry them well.**



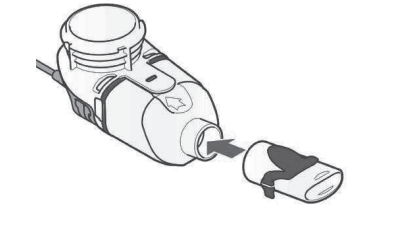
**Step 2: Insert the Blue Valve.**  
Open the Handset by gently pulling up on the tab of the Medication Reservoir.  
Insert the Blue Valve so that it rests on top of the Aerosol Chamber with the 2 valve flaps facing down.



**Step 3: Insert the Aerosol Head.**  
Grasp the Aerosol Head by the 2 flexible plastic tabs on each side. Be sure the text "For amikacin liposome inhalation suspension" is facing toward you and is at the top of the Aerosol Head.  
Squeeze the 2 flexible plastic tabs together while inserting the Aerosol Head into the Medication Reservoir.  
Close the Handset when you are done.  
**Do not touch the silver part of the Aerosol Head at any time.**  
**After the Aerosol Head has been used 7 times, throw away (dispose of) and replace with a new one during the cleaning process.**



**Step 4: Attach the Mouthpiece to your Handset with the Blue Flap facing up.**

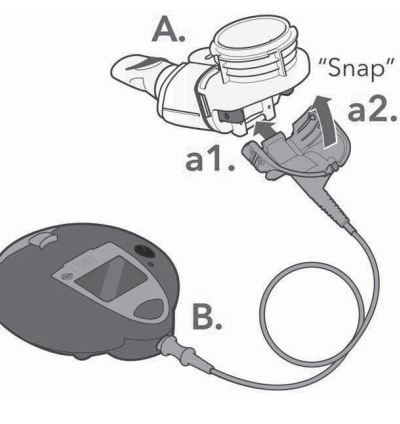


**Step 5: Finally, attach the Handset to the Controller.**

a. **Attach the Connection Cord to the Handset.**

a1. Line up the bottom of the Connector with the bottom of the Handset.  
a2. Push upward against the Handset until you hear the pieces snap together.

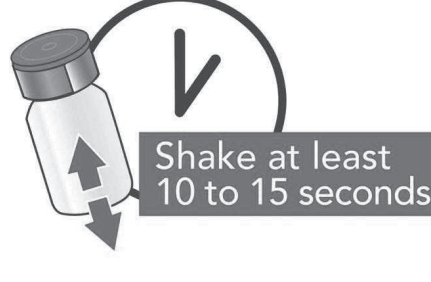
b. **Connect the Connection Cord to the Controller.**



**Taking ARIKAYCE**  
Your ARIKAYCE should be at room temperature before use to make sure that your Lamira Nebulizer System operates properly. **Do not use other medicines in your Handset.**  
Bring ARIKAYCE to room temperature by removing it from the refrigerator at least 45 minutes before use. **Do not use if your ARIKAYCE has been frozen.**

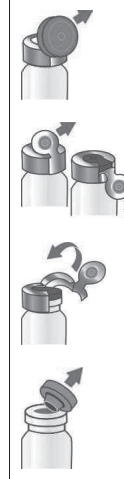
**Step 1: Get your ARIKAYCE ready.**

- Place the Handset on a clean, flat, stable surface.
- Shake the ARIKAYCE vial well for **at least 10 to 15 seconds**, until the medicine looks the same throughout and well mixed.



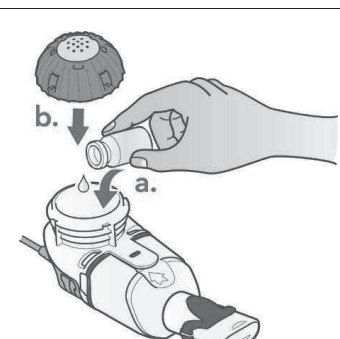
**How to open the ARIKAYCE vial**

- Lift the orange cap from the vial.
- Grip the metal ring on top of the vial and pull it down gently until 1 side breaks away from the vial.
- Pull the metal band from around the vial top in a circular motion until it comes off completely.
- Carefully remove the rubber stopper.



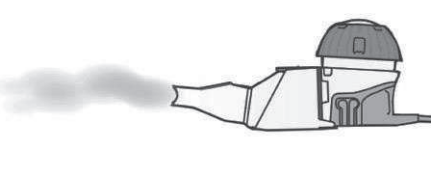
a. Open the vial and pour the ARIKAYCE into the Medication Reservoir.

b. Attach the Medication Cap.



**Step 2: Sit in a relaxed, upright position.**

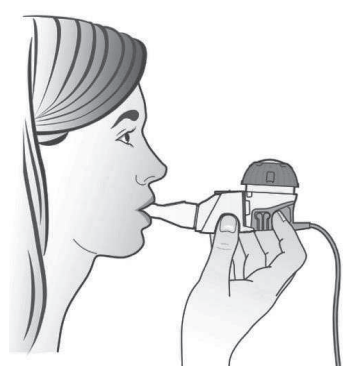
- Press and hold down on the On/Off button for a few seconds to turn the Lamira on.
- Mist will begin to flow.



**Step 3: Insert the Mouthpiece and take slow, deep breaths.**

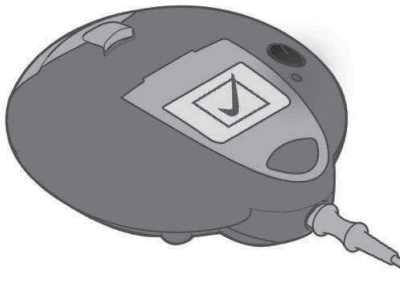
- Then, breathe normally in and out through the Mouthpiece until your treatment is complete.
- Treatment should take about 14 minutes but could take up to 20 minutes.

**Be sure to hold the Handset level throughout the treatment.**



**Step 4: Check that your treatment has ended.**

- The Lamira will beep 2 times.
- The LED light will flash red 2 times.
- A Checkmark will briefly appear on the screen.
- The Controller will automatically shut off.
- Remove the Medication Cap and check the Medication Reservoir to make sure that no more than a few drops of ARIKAYCE remains. If ARIKAYCE remains, replace the Medication Cap, press the On/Off button, and complete your dose.



For any issues you may have with your Lamira Nebulizer System, see Section K – Troubleshooting of the full Instructions for Use that comes with your medicine.

- Cleaning your Lamira Handset and Aerosol Head After Use**
- Rinse, clean, and disinfect handset right away after each use to reduce infection, illness, and contamination.
  - Disinfect the Handset and Aerosol Head every day.
  - See "Cleaning and Disinfecting" at the beginning of the Instructions for Use on how to properly clean and disinfect your handset and aerosol head.

This Instructions for Use has been approved by the U.S. Food and Drug Administration. Issued: 09/2018