

Nutrition and Exercise to Help Manage CF

In addition to your treatment, nutrition and exercise may help manage your CF.

Nutrition

CF can block important enzymes needed to break down and absorb nutrients. It is important to eat a lot of high-calorie and healthy foods to manage your CF.

Here are a few questions to ask your CF Care Team dietitian and doctor:

- **1** What is considered a healthy rate of weight gain?
- 2 How many calories should I eat every day?
- **3** How can I add healthy calories to meals?
- 4 Should pancreatic enzyme supplements be added to my food?
- 5 Should I take vitamins?

Exercise

Being active may also help manage your CF. It is important to discuss your exercise plans with your doctor and CF Care Team.

The effect of Pulmozyme on exercise tolerance has not been established in adults or children. Please see the accompanying full Pulmozyme **Prescribing Information** for additional Important Safety Information.

Here are a few things to discuss with the CF Care Team and your doctor before getting started:

- **1** Set goals for your exercise plan.
- 2 Discuss exercises that may be fun, but also safe.
- **3** Create a routine that gradually allows you to do more.
- 4 Work with your CF Care Team to discuss signs that may mean it's time to take a break from the action.

Please see the Indication and Usage and Important Safety Information on the next page and see the accompanying full Pulmozyme <u>Prescribing Information</u> for additional Important Safety Information.



Indication and Usage

Pulmozyme (dornase alfa) is indicated, along with standard therapies, for the management of pediatric and adult patients with cystic fibrosis (CF) to improve pulmonary function.

In CF patients with an FVC \ge 40% of predicted, daily administration of Pulmozyme has also been shown to reduce the risk of respiratory tract infections requiring injectable antibiotics.

Important Safety Information

Pulmozyme should not be used in patients who are allergic to any of its ingredients.

Patients may experience the following when using Pulmozyme: change in or loss of their voice, discomfort in the throat, rash, chest pain, red watery eyes, runny nose, lowering of lung function, fever, indigestion, and shortness of breath. There have been no reports of severe allergic reactions caused by the administration of Pulmozyme. Mild to moderate hives and mild skin rash have been observed and have been short-lived.

Pediatric Use

The safety and effectiveness of Pulmozyme along with standard therapies for cystic fibrosis have been established in pediatric patients. The use of Pulmozyme in pediatric patients at 5 to 17 years of age is supported by evidence from a randomized, controlled trial. The use of Pulmozyme in patients less than 5 years of age is supported by the efficacy data from the same randomized, controlled trial and additional safety data in pediatric patients aged 3 months to less than 5 years who received Pulmozyme.

You are encouraged to report side effects to Genentech and the FDA. You may report side effects to the FDA at **1-800-FDA-1088** or <u>www.fda.gov/medwatch</u>. You may also report side effects to Genentech at **1-888-835-2555**.

Please see the accompanying full Pulmozyme <u>Prescribing Information</u> for additional Important Safety Information. If you have questions, please discuss them with your CF Care Team.



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PULMOZYME safely and effectively. See full prescribing information for PULMOZYME.

 $PULMOZYME^{\circledast}$ (dornase alfa) inhalation solution, for inhalation use Initial U.S. Approval: 1993

-----RECENT MAJOR CHANGES ------Dosage and Administration. (2.1, 2.2) 02/2024

------ INDICATIONS AND USAGE------PULMOZYME is a recombinant DNase enzyme indicated in conjunction with standard therapies for the management of cystic fibrosis (CF) patients to improve pulmonary function. (1)

---DOSAGE AND ADMINISTRATION -----

- The recommended dosage is 2.5 mg (one single-dose ampule) inhaled once daily using a recommended nebulizer. (2.1)
- Some patients may benefit from twice daily administration. (2.1)
- See full prescribing information for the recommended nebulizers for use with PULMOZYME. (2.2)

--- DOSAGE FORMS AND STRENGTHS ---

Inhalation solution: 2.5 mg/2.5 mL (1 mg/mL) clear, colorless solution in single-dose ampules (3)

----- CONTRAINDICATIONS ------

PULMOZYME is contraindicated in patients with known hypersensitivity to dornase alfa, Chinese Hamster Ovary cell products, or any component of the product. (4)

------ WARNINGS AND PRECAUTIONS -----None. (5)

----- ADVERSE REACTIONS -----

The most common adverse reactions (occurring in \geq 3% of patients treated with PULMOZYME over placebo) seen in clinical trials in CF patients were: voice alteration, pharyngitis, rash, laryngitis, chest pain, conjunctivitis, rhinitis, decrease in FVC of \geq 10%, fever, and dyspnea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Genentech at 1-888-835-2555 or FDA at 1-800-FDA-1088 or <u>www.fda.gov/medwatch</u>

See 17 for PATIENT COUNSELING INFORMATION and FDAapproved patient labeling

Revised: 02/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

PULMOZYME[®] is indicated, in conjunction with standard therapies, for the management of pediatric and adult patients with cystic fibrosis (CF) to improve pulmonary function.

In CF patients with an FVC $\ge 40\%$ of predicted, daily administration of PULMOZYME has also been shown to reduce the risk of respiratory tract infections requiring parenteral antibiotics.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dosage, in most cystic fibrosis patients, is 2.5 mg (one single-dose ampule) inhaled once daily using a recommended jet nebulizer connected to an air compressor system or via a vibrating mesh nebulizer [see Dosage and Administration (2.2)].

Some patients may benefit from twice daily administration [see Clinical Studies (14)].

2.2 Administration Instructions

Nebulizer Information

- Administer PULMOZYME via a jet nebulizer connected to an air compressor with an adequate air flow and equipped with a mouthpiece or suitable face mask, or via a vibrating mesh nebulizer. Refer to Table 1 for the recommended Jet Nebulizers or Vibrating Mesh Nebulizers for use with PULMOZYME. No data are currently available to support the administration of PULMOZYME with other nebulizer systems.
- The eRapid Nebulizer System should only be used by adults and pediatric patients who can use a mouthpiece, and not by younger patients who need a mask to inhale PULMOZYME.
- Use the selected nebulizer in accordance with the manufacturer's instruction manual.
- Refer to the manufacturer's instruction manual on the use, maintenance, and replacement of the equipment, including cleaning and disinfection procedures for the selected nebulizer.
- For additional information, refer to the selected nebulizer manufacturer's instruction manual.

Table 1. Recommended Jet Nebulizers or Vibrating Mesh Nebulizers for Use with PULMOZYME

Jet Nebulizer ¹	Compressor				
Hudson T Up-draft II [®] Marquest Acorn II [®]	Pulmo-Aide [®] or legally marketed compressor of identical pressure				
	and flow rate (maximum 30 psi, 12 LPM).				
PARI LC [®] Plus	PARI PRONEB [®] or legally marketed compressor of identical				
PARI BABY ^{TM**}	pressure and flow rate (maximum 24 psi, 9 LPM).				
Durable Sidestream [®]	MOBILAIRE TM , Porta-NEB [®] or legally marketed compressor of				
	identical pressure and flow rate				
	(maximum 45 psi, 7 LPM).				
Vibrating Mesh Nebulizers ¹					
eRapid [®] Nebulizer System*					
Innospire Go					
Pulmogine Vibrating Mesh Nel	oulizer				
AireHealth Nebulizer TM					
Intelligent Mesh Nebulizer					
¹ Follow the selected nebulizer manufacturer's instruction manual.					
*Consisting of the eRapid [®] Nebulizer Handset with					
eBase [™] Controller. Avoid use in patients who need a mask to inhale PULMOZYME.					
**Patients who are unable to inhale or exhale orally					
throughout the entire nebulization period may use the PARI BABY [™] nebulizer.					

PULMOZYME Information

- Each PULMOZYME ampule should be squeezed prior to use in order to check for leaks. Discard ampules if the solution is cloudy or discolored. Once opened, the entire contents of the ampule must be used or discarded.
- Do not dilute or mix PULMOZYME with other drugs in the nebulizer. Mixing of PULMOZYME with other drugs could lead to adverse physicochemical and/or functional changes in PULMOZYME or the admixed compound.

3 DOSAGE FORMS AND STRENGTHS

Inhalation solution: 2.5 mg/2.5 mL (1 mg/mL) clear, colorless solution in single-dose ampules.

4 CONTRAINDICATIONS

PULMOZYME is contraindicated in patients with known hypersensitivity to dornase alfa, Chinese Hamster Ovary cell products, or any component of the product.

5 WARNINGS AND PRECAUTIONS

None.

6 ADVERSE REACTIONS

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.

The data described below reflect exposure to PULMOZYME in 902 patients, with exposures ranging from 2 weeks of daily administration up to once or twice daily administration for six months. PULMOZYME was studied in both placebo-controlled (n=804) and uncontrolled trials (n=98). The population of patients in placebo-controlled trials was with FVC \geq 40% of predicted (n=643) or with more advanced pulmonary disease, FVC < 40% of predicted (n=161). The population in the uncontrolled trial included 98 pediatric patients with CF ranging from 3 months to 10 years of age. More than half of the patients received PULMOZYME 2.5 mg by inhalation once a day (n=581), while the rest of patients (n=321) received PULMOZYME 2.5 mg by inhalation twice a day.

Placebo-Controlled Trials

<u>Trial 1</u>: Trial 1 was a randomized, placebo-controlled clinical trial in patients with $FVC \ge 40\%$ of predicted. In this trial, over 600 patients received PULMOZYME once or twice daily for six months. The most common adverse reaction (risk difference $\ge 5\%$) was voice alteration. The proportion of most adverse events was similar for patients on PULMOZYME and on placebo, probably reflecting the sequelae of the underlying lung disease. In most cases reactions that were increased were mild, transient in nature, and did not require alterations in dosing. Few patients experienced adverse reactions resulting in permanent discontinuation from PULMOZYME, and the proportion of discontinuations were similar for placebo (2%) and PULMOZYME (3%). Adverse reactions occurring in a higher proportion (greater than 3%) of PULMOZYME treated patients than in placebo-treated patients are listed in Table 2.

<u>Trial 2</u>: Trial 2 was a randomized, placebo-controlled trial in patients with more advanced pulmonary disease (FVC < 40% of predicted) who were treated for 12 weeks. In this trial, the safety profile of PULMOZYME was similar to that reported in patients with less advanced pulmonary disease (FVC \ge 40% of predicted). Adverse reactions that were reported in this trial with a higher proportion (greater than 3%) in the PULMOZYME treated patients are listed in Table 2.

	Trial 1 CF Patients with FVC ≥ 40% of predicted treated for 24 weeks			Trial 2 CF Patients with FVC <40% of predicted treated for 12 weeks	
Adverse Reactions (of any severity or seriousness)	Placebo n=325	Pulmozyme QD n=322	Pulmozyme BID n=321	Placebo n=159	Pulmozyme QD n=161
Voice alteration	7%	12%	16%	6%	18%
Pharyngitis	33%	36%	40%	28%	32%
Rash	7%	10%	12%	1%	3%
Laryngitis	1%	3%	4%	1%	3%
Chest Pain	16%	18%	21%	23%	25%
Conjunctivitis	2%	4%	5%	0%	1%
Rhinitis				24%	30%
FVC decrease of $\geq 10\%$ of predicted°	Differe	ences were less t	17%	22%	
Fever				28%	32%
Dyspepsia				0%	3%
Dyspnea (when reported as serious)	Differences were less than 3%			12%†	17%†

Table 2. Adverse Reactions Increased 3% or More in PULMOZYME Treated Patients Over Placebo in CF Clinical Trials

° Single measurement only, does not reflect overall FVC changes.

[†] Total reports of dyspnea (regardless of severity or seriousness) had a difference of less than 3% in Trial 2.

Mortality rates observed in controlled trials were similar for the placebo and PULMOZYME treated patients. Causes of death were consistent with progression of cystic fibrosis and included apnea, cardiac arrest, cardiopulmonary arrest, cor pulmonale, heart failure, massive hemoptysis, pneumonia, pneumothorax, and respiratory failure.

Uncontrolled Trial

<u>Trial 3</u>: The safety of PULMOZYME, 2.5 mg by inhalation, was studied with 2 weeks of daily administration in 98 pediatric patients with cystic fibrosis 3 months to 10 years of age (65 aged 3 months to < 5 years, 33 aged 5 to \leq 10 years). The PARI BABY^M reusable nebulizer (which uses a facemask instead of a mouthpiece) was utilized in patients unable to demonstrate the ability to inhale or exhale orally throughout the entire treatment period (54/65, 83% of the younger and 2/33, 6% of the older patients). Overall, the nature of adverse reactions was similar to that seen in the placebo-controlled trials. The number of patients reporting cough was higher in the younger age group as compared to the older age group (29/65, 45% compared to 10/33, 30%) as was the number reporting moderate to severe cough (24/65, 37% as compared to 6/33, 18%). The number of patients reporting rhinitis was higher in the younger age group as

compared to the older age group (23/65, 35% compared to 9/33, 27%) as was the number reporting rash (4/65, 6% as compared to 0/33).

Allergic Reactions

There have been no reports of anaphylaxis attributed to the administration of PULMOZYME. Urticaria, mild to moderate, and mild skin rash have been observed and have been transient. Within all of the studies, a small percentage (average of 2-4%) of patients treated with PULMOZYME developed serum antibodies to PULMOZYME. None of these patients developed anaphylaxis, and the clinical significance of serum antibodies to PULMOZYME is unknown.

7 DRUG INTERACTIONS

Available data indicate there are no clinically important drug-drug interactions with PULMOZYME.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

There are no adequate and well-controlled studies with PULMOZYME in pregnant women. However, animal reproduction studies have been conducted with dornase alfa. In these studies, no evidence of fetal harm was observed in rats and rabbits at doses of dornase alfa up to approximately 600 times the maximum recommended human dose (MRHD).

The background risk of major birth defects and miscarriage for the cystic fibrosis population is unknown. However, the background risk in the U.S. general population of major birth defects is 2-4% and of miscarriage is 15-20% of clinically recognized pregnancies.

Data

Animal Data

Reproductive studies have been performed in rats and rabbits at intravenous doses of dornase alfa up to 10 mg/kg/day (approximately 600 times the MRHD in adults). In a combined embryo-fetal development and pre- and post-natal development study, no evidence of maternal toxicity, embryotoxicity, or teratogenicity was observed when dornase alfa was administered to dams throughout organogenesis (Gestation days 6 to 17). Dornase alfa did not elicit adverse effects on fetal or neonatal growth when administered to dams throughout most of gestation and delivery (Gestation days 6 to 25) and nursing (Post-partum days 6 to 21).

A pharmacokinetic study in Cynomolgus monkeys found no detectable levels of dornase alfa in fetal blood or amniotic fluid on gestation day 150 (end of gestation) from mothers that were administered an intravenous bolus dose (0.1 mg/kg) followed by an intravenous infusion dose (0.080 mg/kg) over a 6-hour period during pregnancy.

8.2 Lactation

Risk Summary

It is not known whether PULMOZYME is present in human milk. In a pharmacokinetic study in Cynomolgus monkeys, levels of dornase alfa detected in milk were less than 0.1% of the maternal serum concentration at 24 hours after dosing [intravenous bolus dose (0.1 mg/kg) of dornase alfa followed by an intravenous infusion (0.080 mg/kg/hr) over a 6-hour period] on post-partum day 14. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for

PULMOZYME and any potential adverse effects on the breastfed child from PULMOZYME or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of PULMOZYME in conjunction with standard therapies for cystic fibrosis have been established in pediatric patients. Use of PULMOZYME in pediatric patients is supported by evidence in the following age groups:

- <u>Patients 5 to 17 years of age:</u> Use of PULMOZYME in patients 5 to 17 years of age is supported by evidence from a randomized, placebo-controlled trial of 303 of clinically stable cystic fibrosis patients 5 to 17 years of age who received PULMOZYME *[see Clinical Studies (14)]*.
- <u>Patients less than 5 years</u>: Use of PULMOZYME in patients less than 5 years of age is supported by extrapolation of efficacy data in patients 5 years of age and older with additional safety data in 65 pediatric patients aged 3 months to less than 5 years who received PULMOZYME 2.5 mg daily by inhalation for 2 weeks *[see Adverse Reactions (6.1) and Clinical Studies (14)]*.

8.5 Geriatric Use

Cystic fibrosis is primarily a disease of children and young adults. Clinical studies of PULMOZYME did not include sufficient numbers of subjects aged 65 or older to determine whether they respond differently from younger subjects.

11 DESCRIPTION

Dornase alfa is a recombinant human deoxyribonuclease I (rhDNase) an enzyme which selectively cleaves DNA. The protein is produced by genetically engineered Chinese Hamster Ovary (CHO) cells containing DNA encoding for the native human protein, deoxyribonuclease I (DNase). The product is purified by column chromatography and tangential flow filtration. The purified glycoprotein contains 260 amino acids with an approximate molecular weight of 37,000 daltons. The primary amino acid sequence is identical to that of the native human enzyme.

PULMOZYME (dornase alfa) inhalation solution is administered by inhalation of an aerosol mist produced by a compressed air driven nebulizer or a recommended nebulizer system *[see Clinical Studies (14) and Dosage and Administration (2.2)]*. PULMOZYME is a sterile, clear, colorless, highly purified solution in single-dose ampules. Each ampule delivers 2.5 mL of the solution to the nebulizer bowl. Each mL of aqueous solution contains 1 mg dornase alfa, calcium chloride dihydrate (0.15 mg) and sodium chloride (8.77 mg). The solution contains no preservative. The nominal pH of the solution is 6.3.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

PULMOZYME is recombinant human deoxyribonuclease I (rhDNase), an enzyme which selectively cleaves DNA. In preclinical *in vitro* studies, PULMOZYME hydrolyzes the DNA in sputum of CF patients and reduces sputum viscoelasticity. In CF patients, retention of viscous purulent secretions in the airways contributes both to reduced pulmonary function and to exacerbations of infection. Purulent pulmonary secretions contain very high concentrations of extracellular DNA released by degenerating leukocytes that accumulate in response to infection.

12.3 Pharmacokinetics

When 2.5 mg PULMOZYME was administered by inhalation to eighteen CF patients, mean sputum concentrations of 3 μ g/mL DNase were measurable within 15 minutes. Mean sputum concentrations declined to an average of 0.6 μ g/mL two hours following inhalation. Inhalation of up to 10 mg TID of PULMOZYME by 4 CF patients for six consecutive days, did not result in a significant elevation of serum concentrations of DNase above normal endogenous levels. After administration of up to 2.5 mg of PULMOZYME twice daily for six months to 321 CF patients, no accumulation of serum DNase was noted. Dornase alfa is expected to be metabolized by proteases present in biological fluids. A human intravenous dose study suggested an elimination half-life of 3-4 hours for dornase alfa.

PULMOZYME, 2.5 mg by inhalation, was administered daily to 98 patients aged 3 months to \leq 10 years, and bronchoalveolar lavage (BAL) fluid was obtained within 90 minutes of the first dose. BAL DNase concentrations were detectable in all patients but showed a broad range, from 0.007 to 1.8 µg/mL. Over an average of 14 days of exposure, serum DNase concentrations (mean ± s.d.) increased by 1.1 ± 1.6 ng/mL for the 3 months to < 5 year age group and by 0.8 ± 1.2 ng/mL for the 5 to \leq 10 year age group. The relationship between BAL or serum DNase concentration and adverse experiences and clinical outcomes is unknown.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

PULMOZYME produced no treatment-related increases in the incidence of tumors in a lifetime study in Sprague Dawley rats that were administered inhaled doses up to 0.246 mg/kg/day (approximately 30 times the MRHD in adults). There was no increase in the development of benign or malignant neoplasms and no occurrence of unusual tumor types in rats after lifetime exposure.

PULMOZYME tested negative in the following genotoxicity assays: the *in vitro* Ames assay, *in vitro* mouse lymphoma assay, and *in vivo* mouse bone marrow micronucleus assay. No evidence of impairment of fertility was observed in male and female rats that received intravenous doses up to 10 mg/kg/day (approximately 600 times the MRHD in adults).

14 CLINICAL STUDIES

Trial in CF Patients with FVC >40% of Predicted

PULMOZYME has been evaluated in a randomized, placebo-controlled trial of clinically stable cystic fibrosis patients, 5 years of age and older, with baseline forced vital capacity (FVC) greater than or equal to 40% of predicted and receiving standard therapies for cystic fibrosis. Patients were treated with placebo (325 patients), 2.5 mg of PULMOZYME once a day (322 patients), or 2.5 mg of PULMOZYME twice a day (321 patients) for six months administered via a Hudson T Up-draft II[®] nebulizer with a Pulmo-Aide[®] compressor.

Both doses of PULMOZYME resulted in significant reductions in the number of patients experiencing respiratory tract infections requiring use of parenteral antibiotics compared with the placebo group. Administration of PULMOZYME reduced the relative risk of developing a respiratory tract infection by 27% and 29% for the 2.5 mg daily dose and the 2.5 mg twice daily dose, respectively (see Table 3). The data suggest that the effects of PULMOZYME on respiratory tract infections in older patients (> 21 years) may be smaller than in younger patients, and that twice daily dosing may be required in the older patients. Patients with baseline FVC > 85% may also benefit from twice a day dosing (see Table 3). The reduced

risk of respiratory infection observed in PULMOZYME treated patients did not directly correlate with improvement in FEV₁ during the initial two weeks of therapy.

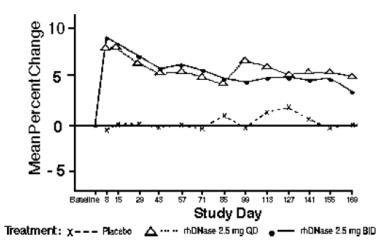
Within 8 days of the start of treatment with PULMOZYME, mean FEV_1 increased 7.9% in those treated once a day and 9.0% in those treated twice a day compared to the baseline values. The overall mean FEV_1 during long-term therapy increased 5.8% from baseline at the 2.5 mg daily dose level and 5.6% from baseline at the 2.5 mg twice daily dose level. Placebo recipients did not show significant mean changes in pulmonary function testing (see Figure 1).

For patients 5 years of age or older, with baseline FVC greater than or equal to 40%, administration of PULMOZYME decreased the incidence of occurrence of first respiratory tract infection requiring parenteral antibiotics, and improved mean FEV₁, regardless of age or baseline FVC.

	Placebo N=325	2.5 mg QD N=322	2.5 mg BID N=321
Percent of Patients Infected	43%	34%	33%
Relative Risk (vs placebo)		0.73	0.71
p-value (vs placebo)		0.015	0.007
Subgroup by Age and Baseline FVC	Placebo % (N)	2.5 mg QD % (N)	2.5 mg BID % (N)
Age			
5-20 years	42% (201)	25% (199)	28% (184)
21 years and older	44% (124)	48% (123)	39% (137)
Baseline FVC			
40-85% Predicted	54% (194)	41% (201)	44% (203)
>85% Predicted	27% (131)	21% (121)	14% (118)

Table 3. Incidence of First Respiratory Tract Infection Requiring Parenteral Antibiotics in Patients with FVC ≥40% of Predicted





Trial in CF Patients with FVC <40% of Predicted

PULMOZYME has also been evaluated in a second randomized, placebo-controlled trial in clinically stable patients with baseline FVC < 40% of predicted. Patients were enrolled and treated with placebo (162 patients) or PULMOZYME 2.5 mg QD (158 patients) for twelve weeks. In patients who received PULMOZYME, there was an increase in mean change (as percent of baseline) compared to placebo in FEV₁ (9.4% vs. 2.1%, p < 0.001) and in FVC (12.4% vs. 7.3%, p < 0.01). PULMOZYME did not significantly reduce the risk of developing a respiratory tract infection requiring parenteral antibiotics (54% of PULMOZYME patients vs. 55% of placebo patients had experienced a respiratory tract infection by 12 weeks, relative risk = .93, p = 0.62).

The effect of PULMOZYME on exercise tolerance has not been established in adult and pediatric patients.

Other Studies

Clinical trials have indicated that PULMOZYME therapy can be continued or initiated during an acute respiratory exacerbation.

Short-term dose ranging studies demonstrated that doses in excess of 2.5 mg BID did not provide further improvement in FEV₁. Patients who have received drug on a cyclical regimen (i.e., administration of PULMOZYME 10 mg BID for 14 days, followed by a 14 day wash out period) showed rapid improvement in FEV₁ with the initiation of each cycle and a return to baseline with each PULMOZYME withdrawal.

16 HOW SUPPLIED/STORAGE AND HANDLING

PULMOZYME (dornase alfa) inhalation solution is a sterile, clear, colorless solution supplied in:

• 30 unit cartons containing 5 foil pouches of 6 single-dose ampules. Each 2.5 mL ampule contains 2.5 mg of dornase alfa (1 mg/mL): NDC 50242-100-40.

Storage and Handling

Store PULMOZYME ampules at a refrigerated temperature between 2°C to 8°C (36°F to 46°F) in their protective foil to protect from light and heat. Once the protective foil pouch is opened, the unused ampules must be kept refrigerated in the protective foil pouch to protect from light and heat. Do not use beyond the

expiration date stamped on the ampule. During transport, keep the ampules refrigerated in their protective foil pouch to protect from light and heat. Do not use if the ampules are exposed to room temperature (22°C to 28°C [72°F to 82°F]) for more than a total of 60 hours. Avoid excessive heat and light.

17 PATIENT COUNSELING INFORMATION

Advise patients to read the FDA-approved patient labeling (Instructions for Use).

Preparation

Advise patients to squeeze each ampule prior to use in order to check for leaks. The solution should be discarded if it is cloudy or discolored. Once opened, the entire contents of the ampule must be used or discarded [see Dosage and Administration (2.2)].

Drug Incompatibilities

Instruct patients not to dilute or mix PULMOZYME with other drugs in the nebulizer. Mixing of PULMOZYME with other drugs could lead to adverse physicochemical and/or functional changes in PULMOZYME or the admixed compound [see Dosage and Administration (2.2)].

Storage

Instruct patients on the proper techniques to store and handle PULMOZYME [see How Supplied/Storage and Handling (16)].

Manufacturer's Instruction Manual

Instruct patients to read and follow the manufacturer's instruction manual for the proper use and maintenance of the jet nebulizer/compressor system, or the vibrating mesh nebulizer used in PULMOZYME delivery.

Pulmozyme[®] (dornase alfa)

Inhalation Solution

Manufactured by: Genentech, Inc. A Member of the Roche Group 1 DNA Way South San Francisco, CA 94080-4990

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