



## MannKind Announces Collaboration with JDRF

June 10, 2016 1:00 PM EDT

VALENCIA, Calif., June 10, 2016 (GLOBE NEWSWIRE) -- MannKind Corporation (Nasdaq:MNKD) (TASE:MNKD) announced today that it has entered into a collaboration agreement with JDRF (formerly known as Juvenile Diabetes Research Foundation), the leading global organization funding type 1 diabetes research. The collaboration will combine JDRF's significant scientific and human resources with MannKind's active participation in the field of diabetes research and development in order to advance new treatments and therapies in areas of strategic alignment that can transform the lives of people with diabetes. A focus of the collaboration will be on the use of Afrezza®, with its unique insulin delivery method, in the pediatric population.

"We are excited to be working with JDRF and the leading scientific experts, community physicians and people with diabetes that are associated with this organization," stated Dr. Ray Urbanski, Chief Medical Officer of MannKind Corporation. "We have already begun to evaluate Afrezza for use in the pediatric population and we look forward to working with JDRF to advance our mutual interests in advancing therapies for all patients with type 1 diabetes."

"JDRF is pleased to partner with MannKind to explore opportunities to help facilitate making Afrezza more broadly available to the T1D community interested in benefiting from this important therapeutic," said Aaron Kowalski, PhD., JDRF Chief Mission Officer, Vice President of Research. "MannKind is a fantastic organization focused on addressing the needs of people living with T1D and we look forward to collaborating and continuing to drive research to improve the lives of people with type 1 diabetes."

### About MannKind Corporation

MannKind Corporation (Nasdaq:MNKD) (TASE:MNKD) focuses on the discovery, development and commercialization of therapeutic products for patients with diseases such as diabetes. MannKind maintains a website at <http://www.mannkindcorp.com> to which MannKind regularly posts copies of its press releases as well as additional information about MannKind. Interested persons can subscribe on the MannKind website to e-mail alerts that are sent automatically when MannKind issues press releases, files its reports with the Securities and Exchange Commission or posts certain other information to the website.

### INDICATION

Prescription Afrezza® (insulin human) Inhalation Powder is a rapid-acting inhaled insulin used to treat adults with diabetes for the control of high blood sugar.

### LIMITATIONS OF USE

Do not use Afrezza as a substitute for long-acting insulin; Afrezza must be used in combination with long-acting insulin in patients with type 1 diabetes.

Do not use Afrezza to treat diabetic ketoacidosis.

Afrezza is not recommended in patients who smoke or who have recently stopped smoking.

### IMPORTANT SAFETY INFORMATION FOR AFREZZA

#### WARNING: RISK OF ACUTE BRONCHOSPASM IN PATIENTS WITH CHRONIC LUNG DISEASE

- Acute bronchospasm has been observed in patients with asthma and COPD using Afrezza.
- Afrezza is contraindicated in patients with chronic lung disease such as asthma or COPD.
- Before initiating Afrezza, perform a detailed medical history, physical examination, and spirometry (FEV<sub>1</sub>) to identify potential lung disease in all patients.

Do not use Afrezza if you have problems with your lungs, such as asthma or COPD. Do not use Afrezza during a low blood sugar reaction (hypoglycemia). If you are allergic to any of the ingredients in Afrezza, do not use Afrezza as this may cause a significant and severe allergic reaction.

Before using Afrezza, your doctor will take a medical history, and do a physical exam and a breathing test (called spirometry) to determine if you have lung problems. Patients with lung problems should not use Afrezza. If your doctor finds you have lung problems, use of Afrezza may cause a severe asthma-like breathing problem. Afrezza can reduce lung function, so your doctor will also want to test your breathing 6 months after starting Afrezza, and then each year after that, with more frequent testing done if you have symptoms such as wheezing or coughing. Tell your doctor if you currently have lung cancer or have had it in the past, or if you have an increased risk of developing lung cancer.

You must test your blood sugar levels while using insulin, such as Afrezza. Do not make any changes to your dose or type of insulin without talking to your healthcare provider. Any change of insulin should be made carefully and only under your doctor's care.

The most common side effect of insulin, including Afrezza® (insulin human) Inhalation Powder, is low blood sugar (hypoglycemia), which can be serious and life-threatening. Some people may experience symptoms such as shaking, sweating, fast heartbeat, and blurred vision. It may cause harm to your heart or brain. It is important for you to understand how to manage the use of Afrezza, and to understand how to lessen the risk of hypoglycemia events.

Tell your doctor about other medicines you take, especially ones commonly called TZDs (thiazolidinediones) and supplements, because they can change the way insulin works. If you have heart failure or other heart problems, it may get worse while you take TZDs with Afrezza. Before starting Afrezza, it is important to tell your doctor about all your medical conditions including if you have a history of lung problems, if you are pregnant or plan to become pregnant, or if you are breast-feeding or planning to breast-feed.

In addition to low blood sugar (hypoglycemia), other possible side effects associated with Afrezza include cough, throat pain or irritation, headache, diarrhea, tiredness, and nausea.

Please see full [Prescribing Information for Afrezza, including Boxed WARNING](#) and [www.afrezza.com](http://www.afrezza.com).

#### **About Afrezza®**

Afrezza is available in 4-unit, 8-unit and 12-unit single-dose cartridges of insulin powder that can be used, as prescribed by a health care professional, in combination with other diabetes medications to achieve target blood sugar levels. For Afrezza doses exceeding 12 units, patients may use a combination of 4 unit, 8 unit and 12-unit cartridges. The disposable inhaler can be used for up to 15 days, should be kept in a clean, dry place with the mouthpiece cover on and may be wiped with a clean, dry cloth if needed.

#### **Forward-Looking Statements**

This press release contains forward-looking statements that involve risks and uncertainties, including statements regarding MannKind's ability to advance the use of Afrezza. Words such as "believes", "anticipates", "plans", "expects", "intend", "will", "goal", "potential" and similar expressions are intended to identify forward-looking statements. These forward-looking statements are based upon the MannKind's current expectations. Actual results and the timing of events could differ materially from those anticipated in such forward-looking statements as a result of these risks and uncertainties, which include, without limitation, the ability to generate significant product sales for MannKind, difficulties or delays in obtaining regulatory feedback or completing and analyzing the results of clinical studies, MannKind's ability to manage its existing cash resources or raise additional cash resources, stock price volatility and other risks detailed in MannKind's filings with the Securities and Exchange Commission, including the Annual Report on Form 10-K for the year ended December 31, 2015 and subsequent periodic reports on Form 10-Q and current reports on Form 8-K. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this press release. All forward-looking statements are qualified in their entirety by this cautionary statement, and MannKind undertakes no obligation to revise or update any forward-looking statements to reflect events or circumstances after the date of this press release.

#### **Company Contact:**

Rose Alinaya

SVP, Finance

661-775-5300 [

ralinaya@mannkindcorp.com