

Michael Castagna, Pharm D Chief Executive Officer

Lytham Partners Virtual Investor Conference – June 24, 2020

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Our strategy is focused on developing innovative medicines for both endocrine and orphan lung diseases.



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Corporate overview

Commercial-stage biopharma company with a differentiated delivery technology and robust product pipeline



Manufacturing Facility Danbury, CT



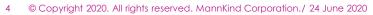
Corporate Headquarters Westlake Village, CA

Our Partnerships and Pipeline



Exclusive global license and \$105M+ collaboration agreement for the rights to our dry powder formulation of Treprostinil (TreT)







Technosphere® Technology

Enables drug molecules to be delivered efficiently through the lungs, providing a faster onset of action. Technosphere can be applied to a number of important therapeutic areas.

Afrezza® Approved in U.S. & Brazil

- Afrezza® is an ultra fast inhaled mealtime insulin positioned to be at the forefront of diabetes treatment and technology.
 - Net Revenue growth 6x between 1Q 2017 and 4Q 2019

BluHale® - Inhalation Innovation

BluHale® helps make our simple inhaler even easier to use. The novel device is mounted on the inhaler and senses the change in pressure when a user inhales through the mouthpiece.

Financial Position

August 2019 recapitalization and UTHR milestones create a solid foundation moving forward.

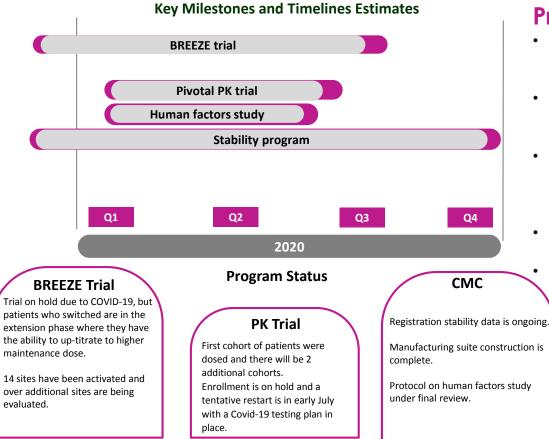
Our MNKD Pipeline

	pre-clinical testing clinical testing			g			
Product	formulation	pre-IND	phase 0/1	phase 2	phase3/ pivotal	approved	
Afrezza® (insulin human) Inhalation Powder (adults)	TI and T2 diabetes m	ellitus (adults)					
Afrezza® (insulin human) Inhalation Powder (pediatrics)	TI diabetes mellitus (p	pediatrics)					
Treprostinil Technosphere® (partnered with United Therapeutics)	PAH*						
COVID-19 program							
Tadalafil Technosphere®	erectile dysfunction	$ \rightarrow $					
Cannabinoid Technosphere® formulations (partnered with Receptor Life Sciences)	various indications			>			
Sumatriptan Technosphere®	acute migraine						
Dornase alfa Technosphere®	cystic fibrosis						
Tobramycin Technosphere®	cystic fibrosis						
Palonosetron Technosphere®*	CINV**						
Epinephrine Technosphere®*	anaphylaxis]		Products noted	d in grey are currently on hold	
© Copyright 2020. All rights reserved. MannKind Corporation./ 24 Ju	une 2020 *	pulmonary arterial by	pertension 1 ** chemot	therapy-induced nause	a and vomitina	mannkind	

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Completed 3rd Milestone and Received \$12.5M in Q2

-Critical Milestones for Treprostinil Dry Powder for Inhalation (TreT)



Program Accomplishments

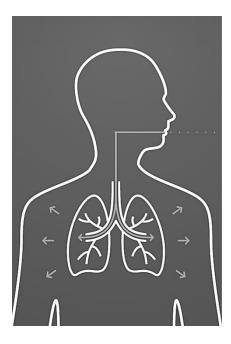
- Received 3 milestone payments for execution of planned deliverables on time and within scope.
- Manufactured clinical supplies and initiated BREEZE trial in 3Q, 2019 and PK trial in 1Q, 2020.
- Successfully completed Formative 1 study in human factors with positive feedback and input for summative validation study in 3Q, 2020.
- Initiated 12-month NDA (registration) stability
 program

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Continue to explore other PAH related
 partnerships based on our platform

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Afrezza® oral inhalation insulin delivery: One-of-a-kind therapy



What is Afrezza® made of?

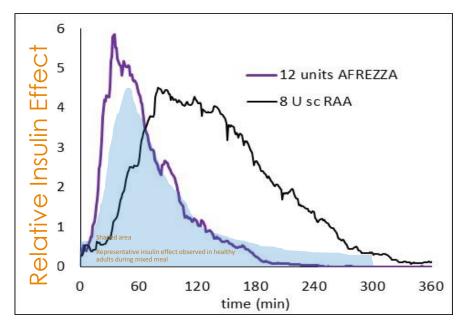
Technosphere® Microparticles (FDKP)	+	human insulin and water	=	Technosphere® Insulin Afrezza®	
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How is inhaled insulin delivered?

When the insulin is inhaled, the Technosphere particles dissolve rapidly and separate, and the FDKP and insulin are quickly absorbed across the lung membrane.

Delivering the insulin through the large surface area of the lungs allows for **ultra rapid absorption**.

Afrezza® Mimics Physiologic Insulin Response



Caumo A. J Clin Endo Metab 85: 4396, 2000

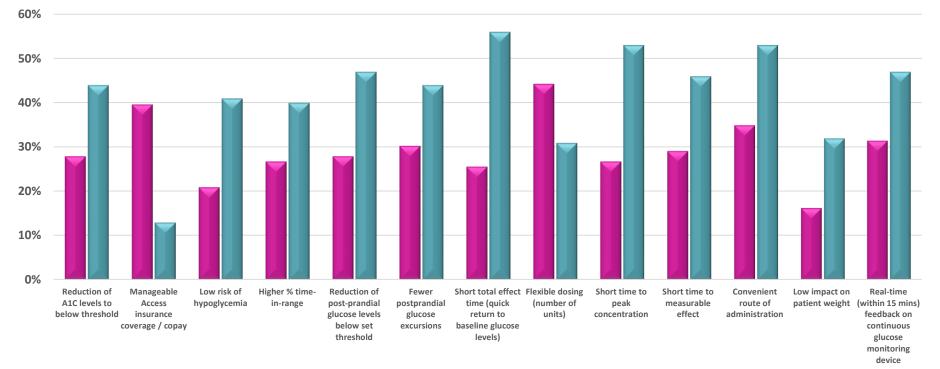
RAA, rapid-acting analogue;

Afrezza [package insert]. MannKind Corporation; 2017. Figure adapted from: Baughman et al. Poster presented at: American Diabetes Association 76th Scientific Sessions; June 2016; New Orleans, LA. With permission.

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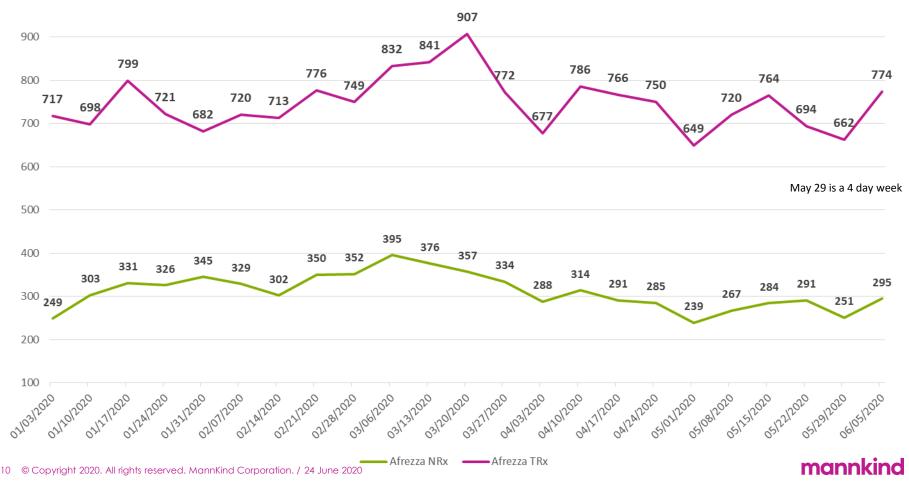
Our Commercialization Efforts Are Making Impact: Market Research Shows Afrezza Performs Well Over Injectable Mealtime Insulin on 11 out of 13 Choice Drivers (% rated 6-7 on scale 1-7)



Standard of Care

🖬 Afrezza

NRx trends are stabilizing post COVID-19 Crisis



Key Highlights of ADA Scientific Sessions (June 12-16)

- Afrezza's ultra rapid-acting profile may supersede the perceived precision of injected mealtime dosing and provides patients the ability to flexibly dose based on glycemic response
- Afrezza has a favorable weight profile: in T2D, treatment with Afrezza is associated with weight loss (compared to weight gain with injected mealtime insulin)
- In an MDI switch study, Afrezza improved A1c while maintaining Time In Range with no additional hypoglycemia in T2D
- Overall, 98% of those treated with Afrezza (vs. 99% treated with injected mealtime insulin) had either no change (≥15%) or a transient change in FEV₁ over 2 years

Results: Mean Change in Weight

- TI was associated with a reduction in body weight from baseline, whereas both insulin aspart and biaspart were associated with weight gain
 - Difference estimate between TI and aspart: 0.83kg (P<0.01)
 - Difference estimate between TI and biaspart: 1.44kg (P<0.0001)
- Weight changes were independent of HbA1C changes

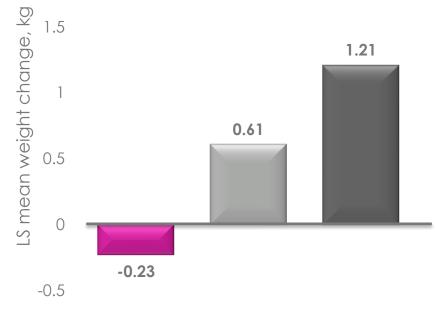


Figure 1. Weight Change from Baseline Week 24/26

Inhaled and Background Basal Insulins Improved A1c and QOL in Patients with T2D: an Observational Study

Authors: M Kipnes, A Salhin, J Vadakekalam, V Pamar, WF Trigoso, F Akhrass, T Ryan

Background:

Investigator Initiated Trial conducted at the Diabetes & Glandular Disease Clinic PA., San Antonio, TX

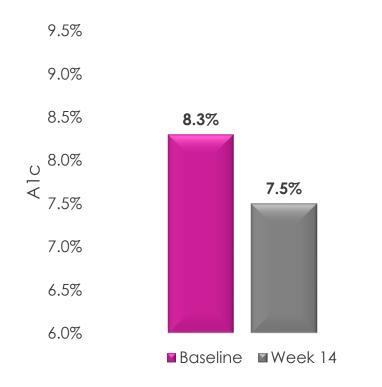
Objective:

To determine the clinical impact of conversion from SC prandial analog to TI in people with type 2 diabetes



Results

Significant Reduction in HbA1C with Afrezza® of -0.8% over 14 weeks



Subjects (N=25)	Mean A1c
Baseline	8.3%
Endpoint (Week 14)	7.5%
Change from baseline	-0.8% (P=0.0004)

SUMMARY:

When compared to SC prandial insulin over 14 weeks, patients treated with Afrezza[®] in combination with basal insulin achieved:

- Improved glucose control
- Acceptable TIR maintenance
- Improved QoL
- No significant increase in hypoglycemia

2020 Afrezza Commercial Strategy Is Focused on Placing Key Bets to Drive Wider Adoption



- Increased focus of resources on Type 1 diabetes, including:
 - Sales and Marketing efforts
 - Physician targeting
 - Advocacy relations
 - Data generation and publications



- Specialty pharmacy network that provides:
 - Reimbursement support
 - Pharmacy fulfillment support
 - Patient persistency tactics (e.g., texts, e-mails, phone calls)



Patient training pilot program to support patients in successfully starting Afrezza



• Launch BluHale® PRO

In addition to new sales reps, we have brought new additions to the sales leadership team



BluHale PRO will launch in Q3,2020

the device: 1.0



BluHale Pro is an accessory device for dreamboat inhaler. It mounts

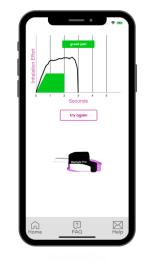
onto the inhaler to measure the effort exerted by patients during inhalation.

the future: 2.0

BluHale 2.0 will have dose detection



the app



Available for both Android and IOS

devices. Connecting the device to the app allows healthcare providers to train their patients on how to use their inhaler in real-time.

the feedback



Increased patience confidence levels.

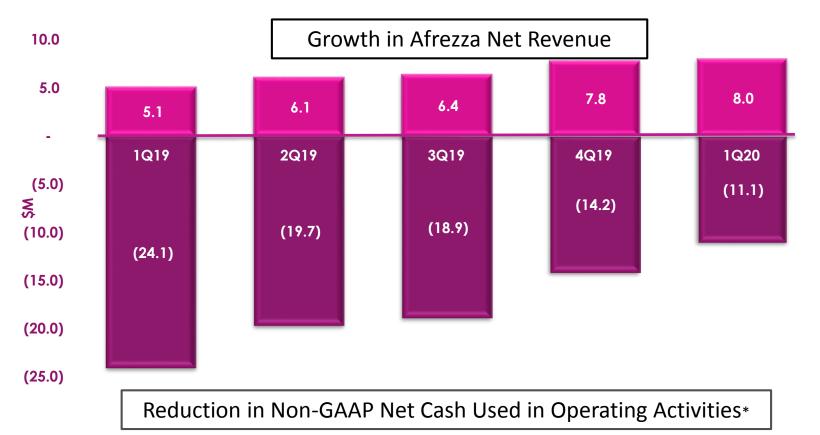
Patients feel more comfortable using the inhaler when they receive their first prescription after practicing with the BluHale device.

Afrezza Quarterly Net Revenue is up ~7X since 1Q,17



^{*}Please see GAAP to Non-GAAP reconciliation at end of presentation

Operating Cash Efficiency Continues to Improve



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* Please see the GAAP to Non-GAAP reconciliation at end of presentation



Analyst Coverage



		Price	Price Target	
SVB Leerink	Outperform	\$	3.00	
Cantor Fitzgerald	Overweight	\$	3.00	
BTIG	Buy	\$	4.00	
H. C. Wainwright & Co	Buy	\$	2.50	
Oppenheimer	Outperform	\$	2.50	



The Transformation of Our Revenue Growth Drivers Should Deliver Future Shareholder Value

Pipeline Royalties and In-license

Afrezza International expansion

US Afrezza

Technosphere Platform

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Thank You

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GAAP to Non-GAAP Reconciliations

(\$M)	4Q 2017
GAAP Afrezza Net Revenue	4.5
Adjustment for Change in Estimate	(1.4)
Non-GAAP Afrezza Net Revenue	3.1

	(\$M)	1Q 2019	2Q 2019	3Q 2019	4Q 2019	1Q 2020
GAAP Net Cash Used in Operating Activities		(11.6)	(19.7)	(52.1)	(5.1)	(11.1)
Milestone received from UTHR		(12.5)			(12.5)	
Payment-in-kind interest on promissory notes				32.8		
Deerfield Milestone					3.4	
Warrant Purchase				0.4		
Non-GAAP Net Cash Used in Operating Activiti	es	(24.1)	(19.7)	(18.9)	(14.2)	(11.1)

