UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): September 28, 2018

JAGUAR HEALTH, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) **001-36714** (Commission File Number) 46-2956775 (IRS Employer Identification No.)

201 Mission Street, Suite 2375 San Francisco, California (Address of principal executive offices)

94105 (Zip Code)

Registrant's telephone number, including area code: (415) 371-8300

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company x

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. x

Item 7.01 Regulation FD Disclosure

Jaguar Health, Inc. ("Jaguar") has prepared an investor presentation (the "Investor Presentation") which it may use from time to time in conversations with investors and analysts beginning on September 28, 2018 and for posting on Jaguar's website. A copy of the Investor Presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein solely for purposes of this Item 7.01 disclosure. The information set forth herein and in the Investor Presentation is deemed to be "furnished" and shall not be deemed to be "filed" for purposes of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). The information in this Item 7.01, as well as Exhibit 99.1, shall not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act regardless of any general incorporation language in such filing.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

Exhibit No.

Description

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

JAGUAR HEALTH, INC.

By: /s/ Karen S. Wright

Name:Karen S. WrightTitle:Chief Financial Officer

Date: September 28, 2018



Jaguar Health, Inc.

Investor Presentation

September 2018

Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, including statements regarding the Company's belief that Lechlemer may offer a possible Priority Review Voucher opportunity, the Company's statements regarding planned next steps for clinical trials (including the Company's plan to submit documentation in 1H 2019 to the FDA for the planned formulation of crofelemer for feeding tube administration to support investigation of a pediatric liquid formulation of crofelemer for the possible indication of Congenital Diarrheal Disease (CDD)), and the timing of data results from planned proof of concept, field and other studies are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forwardlooking statements. In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "expect," "plan," "aim," "anticipate," "could," "intend," "target," "project," "contemplate," "believe," "estimate," "predict," "potential" or "continue" or the negative of these terms or other similar expressions. The forward-looking statements in this presentation are only predictions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition and results of operations. These forward-looking statements speak only as of the date of this presentation and are subject to a number of risks, uncertainties and assumptions, some of which cannot be predicted or quantified and some of which are beyond our control. Please see the risk factors identified in our Annual Report on Form 10-K, Form S-1 and the preliminary prospectus to which this relates, and our other filings with the SEC. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Readers are also advised that our projected sales do not take into account the royalties and other payments we will need to make to our Licensors and strategic partners. Moreover, we operate in a dynamic industry and economy. New risk factors and uncertainties may emerge from time to time, and it is not possible for management to predict all risk factors and uncertainties that we may face. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.

This presentation highlights basic information about us and the offering to which this communication relates. Because it is a summary, it does not contain all of the information that you should consider before investing in our common stock.

We have filed a registration statement (including a prospectus) on Form S-1 (File No. 333-227292), which has not been declared effective, with the US Securities and Exchange Commission (SEC) for the offering to which this presentation relates. Before you invest, you should read the preliminary prospectus in the registration statement (including the risk factors described therein) and other documents we have filed with the SEC for more complete information about us and the offering.

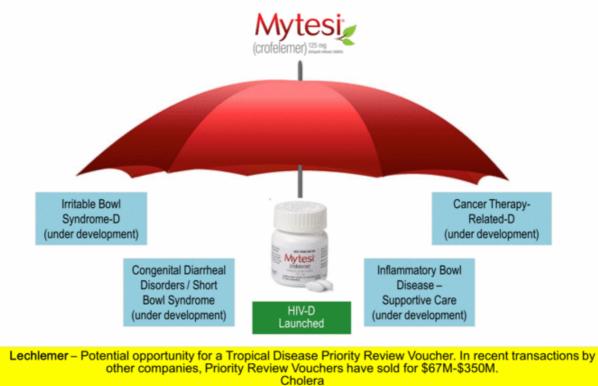
You may access these documents for free by visiting EDGAR on the SEC website at http://www.sec.gov.

The preliminary prospectus, dated September 28, 2018, is available on the website at http://www.sec.gov.

Alternatively, H.C. Wainwright & Co., LLC as underwriter in the offering will arrange to send you the prospectus if you request it by calling (646) 975-6996 or by e-mailing <u>placements@hcwco.com</u>.

Pipeline Within the Brand for Diarrheal Disorders





Knight Therapeutics: License for Canadian and Israeli Markets

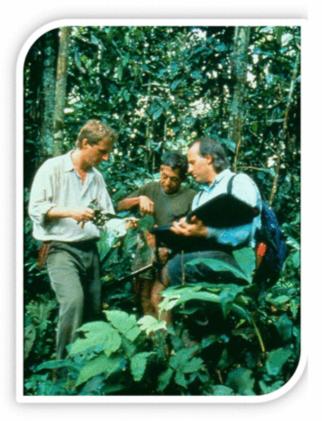
- On September 24, 2018, Jaguar signed a Distribution,
 License and Supply Agreement with Knight Therapeutics Inc.
- Agreement provides Knight Therapeutics with an exclusive right to commercialize current and future Jaguar human health products in **Canada and Israel**. In accordance with the agreement, the covered territory may be expanded at a later time to include specified countries in **Latin America**.
 - The Canadian and Israeli markets accounted for an estimated combined total of 2.18% of global pharmaceutical sales in 2014¹
 - The markets in the specified countries in Latin America accounted for an estimated combined total of 6.60% of global pharmaceutical sales in 2014¹
- Upon achievement of certain regulatory and sales milestones, Jaguar may receive payments from Knight Therapeutics in an aggregate amount of up to USD \$18,019,743 (based on September 23, 2018 USD-CAD exchange rates) payable throughout the initial 15-year term of the agreement.
- Knight has given a non-binding indication of interest to purchase up to \$1,000,000 in this offering at the public offering price, provided that we raise at least \$9,000,000. This is not a commitment to purchase; therefore, Knight may not purchase any common stock in this offering."

¹The International Federation of Pharmaceutical Manufacturers & Associations "Pharmaceutical Industry and Global Health - Facts and Figures 2017" report **I**Knight

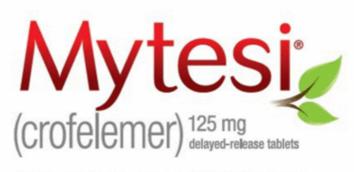
Montreal, Canada-based Knight Therapeutics Inc. is a specialty pharmaceutical company focused on acquiring or in-licensing and commercializing innovative pharmaceutical products for the Canadian and select international markets.

Our Story: From Tree to Bottle

Crofelemer was discovered through the science of ethnobotany



Jaguar Health: The Product Portfolio



RELIEF, PURE AND SIMPLE

Mytesi (crofelemer 125mg delayed-release tablets) is FDA-approved for symptomatic relief of noninfectious diarrhea in adults with HIV/AIDS on antiretroviral therapy.

Mytesi Growth Strategy

- Bob Griffing, Chief Commercial Officer, started June 2018
- * Targeting high-potential HIV prescribers and GIs that actively treat HIV patients
- 17 territory managers, telesales representative, regional sales director, and national sales director
 - \circ $\;$ Two-thirds bring extensive HIV experience from Bristol-Myers Squibb
- Co-promotion agreement with RedHill Pharma provides 36 sales reps, 4 telesales representatives, and 4 Medical Science Liaisons
 - Napo will continue to book all top-line sales of Mytesi
 - RedHill compensated on a per-prescription-filled basis
- Launch of integrated digital campaign to activate and educate patients and healthcare providers via contextual and native display ads:





Jaguar Health By The Numbers

Revenue-Generating Biopharma With an FDA-Approved Drug



1H'18 YoY Mytesi Net Sales Growth¹

Note: The merger of Napo and Jaguar became effective July 31, 2017. The Napo January through June 2017 sales figures used in the above percentage are from the premerger period.





1H'18 YoY Growth in Total Mytesi Prescriptions²

74%

1H'18 YoY Growth in Mytesi Wholesaler-to-Retailer Shipments³

¹Data on file in Jaguar Health General Ledger ²Source: IQVIA Monthly NPA Prescription Data September 12, 2018 ³Data on file in Jaguar Health General Ledger

Strong Prescription and Sales Growth Achievements; All-time High Prescriptions Achieved August 2018



Total Prescriptions (TRx) Growth for Mytesi 3-Month Period Ending August 2018 vs Prior 3-Month Period; All-time TRx high achieved in August 2018¹



52%

New Prescriptions (NRx) Growth for Mytesi for 3-Month Period Ending August 2018 vs Prior 3-Month Period¹

24%

Growth of Mytesi Net Sales 3-Month Period Ending August 2018 vs Prior 3-Month Period²

¹Source: IQVIA Monthly NPA Prescription Data September 12, 2018 ²Data on file in Jaguar Health General Ledge

Mytesi Gross¹ & Net Sales August 2017 to August 2018



Guidance		July	August	Q3 2018 Guidance
Estimates	Gross Sales	\$489,523	\$594,033	\$1,600,000 to \$1,700,000
for Q3 2018	Net Sales	\$367,036	\$452,121	\$1,200,000 to \$1,275,000

Note Regarding Use of Non-GAAP Measures

Gross sales percentages issued by the Company are based on gross sales figures that represent Mytesi orders placed by wholesalers with Jaguar's third-party logistics warehouse which generate invoiced sales and cashflow for Napo. Gross sales is used internally by management as an indicator of and to monitor operating performance, including sales performance of Mytesi, salesperson performance, and product growth or declines. The Company believes that the presentation of gross sales provides a closer to real-time useful measure of our operating performance. From sales is recognized under accounting principles generally accepted in the United States of America ("GAAP") and should not be considered as an alternative to net sales, which is determined in accordance with GAAP, and should not be used alone as an indicator of operating performance in place of net sales. Additionally, gross sales may not be enabled on the companies, as gross sales has been defined by the Company's internal reporting practices. In addition, gross sales may not be realized in the form of cash receipts as promotional payments and allowances may be deducted from certain customers.

Chart data on file in Jaguar Health General Ledger ¹Non-GAAP measure

In adult HIV patients on ART who have noninfectious diarrhea

Enough is Enough NORMALIZE with MYTESI

HIV+ Patients Talk About Diarrhea



"It's interrupting my daily routine...I'm becoming afraid of it. It seems like I'm changing my life because of my diarrhea." Male, age 62, HIV+ for 3 years

Photo not of actual patient. Quote is from an actual HIV patient.

Important Safety Information About Mytesi

Mytesi (crolelemer) is an antidiarrheal indicated for symptomatic relief of noninfectious diarrhea in adult patients with HIV/AIDS who are on antivetroviral therapy (ART). Mytesi is not indicated for the treatment of infectious diarrhea. Rule out infectious etiologies of diarrhea before starting Mytesi. If infectious etiologies are not considered, there is a risk that patients with infectious etiologies will not receive the appropriate therapy and their discase may worsen. In clinical studies, the most common adverse reactions occurring at a rate greater than placebo were upper respiratory tract infection (5.7%), bronchitis (3.9%), cough (3.5%), Itatulence (3.1%), and increased bilirubin (3.1%).

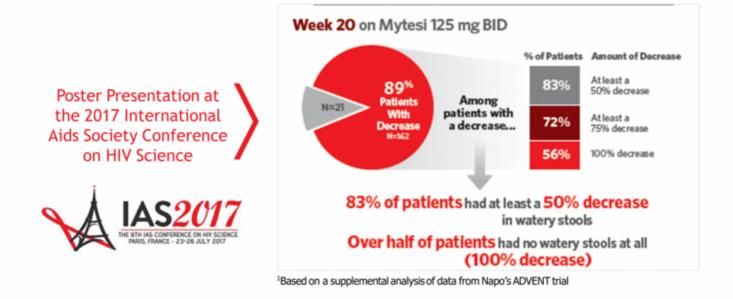
Please see Full Prescribing Information on pages 4-7.

(crofelemer) 125 mg

Recent Mytesi Media Coverage



Results Over Time With Mytesi



Mytesi Coverage and Reimbursement

- Signed agreement with the Aids Drug Assistance Program (ADAP) in April 2018
 - Provides pricing for Mytesi to each US state's ADAP
 - ADAP's provide Mytesi free of charge to qualified patients and Copay support for patients with insurance coverage
 - Mytesi available on 29 state ADAPs and actively pursuing remaining states
- Covered by all top 10 commercial insurers (>245 million lives)
- Covered by all top 10 Managed Medicare plans (>2.4 million lives)
- Covered by Medicaid in all 50 states
- Copay coupon program to remove cost as a barrier to filling their prescription
- Patient Assistance Program to assist patients with benefit verification, prior authorization, and claims appeals
- Agreement with direct-to-patient pharmacy Transition Patient Services (TPS) that streamlines patient access to Mytesi and improves adherence

ADAP is state administered for persons living with HIV/AIDS authorized under the Ryan White Act of 2016 and often considered insurance of last resort. These persons are not currently receiving or eligible for Medicaid or other Third-Party insurance. Reserved for lower income patients with annual federal income equal to or below 400% of current federal poverty level (2018 poverty level for single household \$12,140).



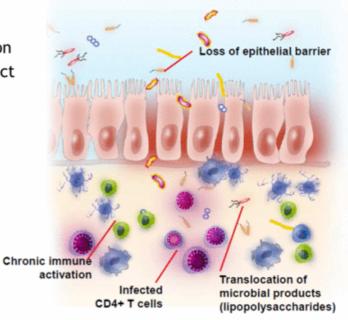


Mytesi Additional Opportunities

HIV Enteropathy

GI tract is profoundly affected by HIV infection

- HIV enteropathy is due to direct and indirect effects of HIV on the intestinal mucosa
- Gut inflammation and depletion of T cells continues even after viral load levels are managed
- Chronic diarrhea remains a significant complaint of people living with HIV/AIDS, particularly those who are older and have lived with the virus for 10+ years

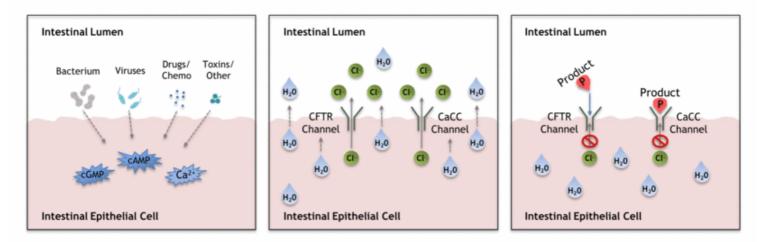




According to data from the U.S. Centers for Disease Control and Prevention, currently more than 50% of people living with HIV are over age 50^1

¹HIV Among People Aged 50 and Older, https://www.cdc.gov/hiv/group/age/olderamericans/index.html

Mytesi (crofelemer) acts at the common last step in a physiological pathway, regardless of cause, thereby normalizing defective secretion, specifically mitigating dehydration



Acts locally in the gut and is minimally absorbed systemically

Shortcomings of Other Therapies

Drug	Re	quires Rx	Other					
Imodium		×		eled only for acute use el warning against use with saquinavir				
Tincture o	of opium	\checkmark	 Narco 	otic, use not co	mmon			
Lomotil		\checkmark	Label	ed only for acu	te use			
Octreotide	е	~		able, not oral at site of injecti	on			
4	Pill burde	emer en : 2/day	VS.	Imodium Pill burden: 8-	12/day			
	No Constipation	Safety: Locally Acti Gut	ing in the	Safety: No Drug-Drug Interactions	Other Potential Features			
Mytesi	\checkmark	√	1	✓	Botanical			
Imodium	×	×	:	×	OTC			
				e 1.7 billion ally annually	World Health Organization			

Jaguar Health: A Pipeline in a Product Pipeline of High Visibility Follow-On Products Under Development

	Preclinical	Phase 1	Phase 2	Phase 3	NDA	Near-Term Milestones	Market Size/Potential
HIV-D Diarrhea in HIV/AIDS patients on antiretrovirals						Seeking inclusion on World Health Organization (WHO) Essential Medicines List	Jaguar estimates the U.S. market revenue potential for Mytesi® to be ~5100mm in gross annual sales; Jaguar is seeking partnerships to bring Mytesi to emerging markets and rest of world
CTD Cancer therapy-related diarrhea						Ongoing II Trials; SAB Protocol Design	~650,000 U.S. cancer patients receive chemotherapy in an outpatient oncology clinic ¹ Comparable supportive care (i.e. CINV) product sales ~5620 mm, 2013; projected \$1.0 bp 2020F
IBD Inflammatory bowel disease supportive care						SAB protocol design	Estimated 1,171,000 Americans have IBD ³
IBS-D Irritable Bowel Syndrome - diarrhea predominant						Partner discussions	Most IBS products have estimated revenue potential >\$1.0 bn ⁴
CDD/SBS-Orphan Congenital Diarrheal Disorders and Short Bowel Syndrome						Formulation / POC Abu Dhabi/SAB Protocol Design	Financial benefits of Orphan-Drug Designation
Cholera (hydration maintenance) PRV (lechlemer) * Offer long-term pipetine opportunity for anti-secretory novel mechanism of action						Formulation / POC	We believe lechlemer may support efforts to receive a priority review voucher (PRV) from the U.S. FDA for a cholera indication.*

*Priority Review Vouchers are transferable. In recent transactions by other companies, Priority Review Vouchers have sold for \$67M-\$350M. (https://www.raps.org/regulatory-focus/news-

articles/2017/12/regulatory-explainer-everything-you-need-to-know-about-fdas-priority-review-vouchers)

¹Centers for Disease Control and Prevention. Preventing Infections in Cancer Patients: Information for Health Care Providers (cdc.gov/cancer/preventinfections/providers.htm) ²Heron Therapeutics, Inc. Form 10-K for the fiscal year ended December 31, 2016 ³Kappelman, M. et al. Recent Trends in the Prevalence of Crohn's Disease and Ulcerative Colitis in a Commercially Insured US Population. Dig Dis Sci. 2013 Feb; 58(2): 519-525 ⁴Merrill Lynch forecasts peak US sales of roughly \$1.5 bn for Ironwood's Linzes (http://zYwallst.com/healthcare-business/2015/04/27/key-analyst-sees-nearly-30-upside-in-ironwood); Rodman & Renshaw estimate peak annual sales of Synergy Pharmaceuticals' Trulance at \$2.3 bn in 2021 (Source: https://www.benzinga.com/analyst-ratings/analyst-color/17/03/9224181/analyst-synergy-pharma-couldachieve-sustainable-profita)

Pravin Chaturvedi, PhD: Chair of Napo's SABs. Pravin brings 25+ years drug development experience in pharmaceutical/biotech field; Successfully developed crofelemer (Mytesi) (first pivotal adaptive design)

HIV Physicians SAB

- Dr. Roscoe Moore Jr., DVM, MPH, Ph.D., DSc.: Former Assistant United States Surgeon General and a Rear Admiral (Retired) in the U.S. Public Health Service. Dr. Moore was involved in the creation of PEPFAR (the U.S. President's Emergency Plan for AIDS Relief)
- David Asmuth, MD: Infectious diseases specialist and Professor of Medicine, UC Davis Health
- Gary Blick, MD, AAHIVS: Founder of Health Care Advocates International and BEAT AIDS Project Zimbabwe
- Christine Wanke, MD: Director of the Nutrition and Infection Unit; Associate Chair and Professor, Department of Public Health and Community Medicine; Professor, Department of Medicine, Tufts University School of Medicine; Professor, Sackler School of Biomedical Science; Professor, Friedman School of Nutrition Science and Policy

Cancer Therapy-Related Diarrhea SAB

- Lee Schwartzberg, MD, FACP: Executive Director of the West Cancer Center, a multispecialty oncology practice affiliated with the University of Tennessee; Chief, Division of Hematology/Oncology, the University of Tennessee Health Science Center
- Eric Roeland, MD: Attending Physician, Center for Palliative Care, Harvard Medical School
 Hope Rugo, MD: Clinical Professor of Medicine, Director Breast Oncology and Clinical Trials Education, Division of Hematology and
- Oncology, University of California San Francisco
 Pravin Chaturvedi, PhD: Chair of Napo's Scientific Advisory Boards; 25+ years drug development experience in pharmaceutical/biotech field; Successfully developed crofelemer (Mytesi) (first pivotal adaptive design)

IBD SAB

Corey Siegel, MD, MS: Associate Professor of Medicine; Associate Professor of The Dartmouth Institute; Director of the Inflammatory
Bowel Disease Center at the Dartmouth-Hitchcock Medical Center

Pediatric Indications (SBS and CDD) SAB

- Mohammed Miqdady, MD: Chief of Pediatric Gastroenterology, Hepatology & Nutrition at Sheikh Khalifa Medical City in Abu Dhabi
 Christopher Duggan, MD: Senior Physician, Division of Gastroenterology, Hepatology and Nutrition / Director, Center for Nutrition / Medical Director, Center for Advanced Intestinal Rehabilitation, Boston Children's Hospital; Professor of Pediatrics, Harvard Medical School; Professor in the Departments of Nutrition and Global Health and Population, Harvard TH Chan School of Public Health
- Martin Martin, MD: Professor, Department of Pediatrics, David Geffen School of Medicine at UCLA
- Sue Rhee, MD: Division Chief, Pediatric Gastroenterology, Hepatology and Nutrition Pediatric gastroenterologist and liver specialist, UCSF Benioff Children's Hospital

Cancer Therapy-Related Diarrhea

- Herbert DuPont, MD: Professor and Director, Center for Infectious Diseases, University of Texas Houston School of Public Health
- Pablo C. Okhuysen, M.D: Department of Infectious Diseases, Infection Control, and Employee Health, Division of Internal Medicine, MD
 Anderson

Diarrhea Related to IBD

- Brooks D. Cash, MD, AGAF, FACG, FACP, FASGE: Division Director, Gastroenterology, Hepatology, and Nutrition Visiting Professor of Medicine, The University of Texas McGovern Medical School
- David Rubin, MD: Joseph B. Kirsner Professor of Medicine Section Chief, Gastroenterology, Hepatology and Nutrition Co-Director, Digestive Diseases Center, University of Chicago Medicine
- Charles Bernstein, MD: Distinguished Professor of Medicine and Bingham Chair in Gastroenterology Research, University of Manitoba
 William Sandborn, MD: Director, Inflammatory Bowel Disease Center Chief, Division of Gastroenterology Professor of Medicine, US San Diego
- Health
- Scott Lee, MD: Associate Professor of Medicine, Digestive Health Center, University of Washington Medical Center
- Edward Loftus, Jr., MD: Consultant, Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic
 Douglas Wolf, MD: Medical Director of IBD Research at Atlanta Gastroenterology Associates. Clinical Assistant Professor of Medicine, Emory University School of Medicine

Pediatric Indications (SBS and CDD)

- Jay Thiagarajah, MD, PhD: Attending Physician, Division of Gastroenterology, Hepatology and Nutrition, Boston Children's Hospital. Instructor of Pediatrics, Harvard Medical School
- James Goldenring, M.D., PhD: Professor of Surgery, Vanderbilt University School of Medicine. Paul W. Sanger Chair in Experimental Surgery. Professor of Cell and Developmental Biology"

Diarrhea Related to HIV and other Infectious Diseases

- Patrick Clay, PharmD: Consultant
- Herbert DuPont, MD: Professor and Director, Center for Infectious Diseases, University of Texas Houston School of Public Health
- Pradip Bardhan, MBBS, MD: Chief Physician at ICDDR, B, Bangladesh
- Paulo Pacheco, MD: Clinical Assistant Professor, Department of Medicine, New York University Langone Health
- Elie Schochet, MD, FACS: Colorectal surgeon, Holy Cross Medical Group

Diarrhea Related to IBS

- Anthony Lembo, MD: Director of the GI Motility and Functional Bowel Disorders Program at Beth Israel Deaconess Medical Center and Associate Professor of Medicine at Harvard Medical School
- Doug Drossman, MD: Co-Director Emeritus, UNC Center for Functional GI and Motility Disorders Adjunct Professor of Medicine and Psychiatry, University of North Carolina School of Medicine
- William Chey, MD: Professor of Internal Medicine and Professor of Nutritional Sciences, University of Michigan School of Public Health

Jaguar Health: A Pipeline in a Product

Cancer Therapy-related Diarrhea (CTD)

- Diarrhea is a common adverse event reported with cancer treatments
- "All-grade" diarrhea rates are often 50-80%
 - Dose-limiting toxicity for tyrosine kinase inhibitors (e.g., Neratinib) and EGFR mAbs (e.g., Herceptin)

Puma Biotechnology (NASDAQ: PBYI) Neratinib (Nerlynx™):

- Diarrhea has been reported as the most common side effect of the recently approved CDK 4/6 inhibitor abemaciclib and the pan-HER TKI neratinib, with occurrence ranging from 86% to >95% and grade 3 in over 40% of patients.
- Approved drugs for chemotherapy-induced nausea and vomiting (CINV) include Sustol, Aloxi, Akynzeo and Sancuso. Allied Market Research estimates that sales of CINV drugs may reach \$2.7 billion by 2022 growing ~7.1% per annum.¹





¹https://www.prnewswire.com/news-releases/chemotherapy-induced-nausea-and-vomiting-cinv-market-expected-to-reach-2659-million-by-2022-611755395.html

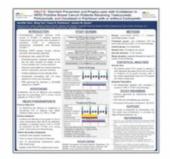
Jaguar Health: A Pipeline in a Product

Two Ongoing Investigator Initiated Studies in CTD



Georgetown University

Primary objective: Characterize incidence and severity of diarrhea in patients receiving investigational therapy in prophylactic anti-diarrheal management.



JAGX completed CID pilot safety study in dogs: 25% of dogs entering study with unformed feces were resolved.



Crofelemer as salvage anti-diarrheal therapy with investigational breast cancer agent, neratinib

TITLE: Open label study to characterize the incidence and severity of diarrhea in patients with early stage HER2+ breast cancer treated with adjuvant trastuzumab and neratinib followed by neratinib monotherapy, and intensive anti-diarrhea prophylaxis.

Primary Objective: Characterize the incidence and severity of diarrhea in patients with early stage breast cancer receiving adjuvant trastuzumab and neratinib followed by 1 year of neratinib monotherapy in the setting of prophylactic anti-diarrheal management.

Next Steps:

Plan to submit protocol to FDA for Special Protocol Assessment discussion Q4 2018

23

Pivotal protocol discussion with FDA

Mytesi Pediatric Orphan-Drug Indications

Congenital Diarrheal Disease (CDD)

- Rare, chronic intestinal channel diseases, occurring exclusively in early infancy
- Characterized by severe, lifelong diarrhea and a lifelong need for nutritional intake either parenterally or with a feeding tube
- Incidence much more prevalent in regions where consanguineous marriage is part of the culture, such as in the Gulf Cooperation Council (GCC) and MENA regions
- Related to specific genetic defects inherited as autosomal recessive traits
- Directly associated with serious secondary conditions including dehydration, metabolic acidosis, and failure to thrive, prompting the need for immediate therapy to prevent death and limit lifelong disability

Short Bowel Syndrome (SBS)

- A complex condition characterized by malabsorption of fluids and nutrients due to congenital deficiencies or surgical resection of small bowel segments
- Patients suffer from symptoms such as debilitating diarrhea, malnutrition, dehydration and imbalances of fluids and salts
- · Can stem from genetic disorder or premature birth
- Incidence also much more prevalent in GCC and MENA regions



Planned Investigator-Initiated Clinical Trial on CDD at Sheikh Khalifa Medical City, Abu Dhabi, UAE

- Filed for orphan-drug status in US
 - Received orphan status for SBS
- Principal investigator: Dr. Mohamad Miqdady, Chief of Pediatric Gastroenterology, Hepatology & Nutrition at Sheikh Khalifa Medical City in Abu Dhabi
- Jaguar has agreed to fund investigatorinitiated trial
- Napo intends to submit documentation in 1H 2019 to the FDA for the planned formulation of crofelemer for feeding tube administration to support this investigation
- NEXT STEP:
 - Initiation of IIT

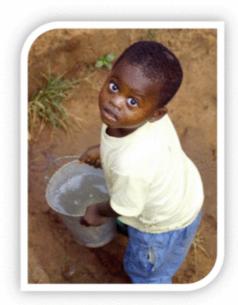


"With the early and extreme morbidity and mortality suffered by CDD patients, we welcome the opportunity to participate in the investigation of a novel drug to address the devastating diarrhea and dehydration caused by this lifelong disease for which there is currently no available treatment except parenteral nutrition, and help limit the suffering of patients and their family members."

-Dr. Mohamad Miqdady

Mytesi for Diarrhea Caused by Cholera

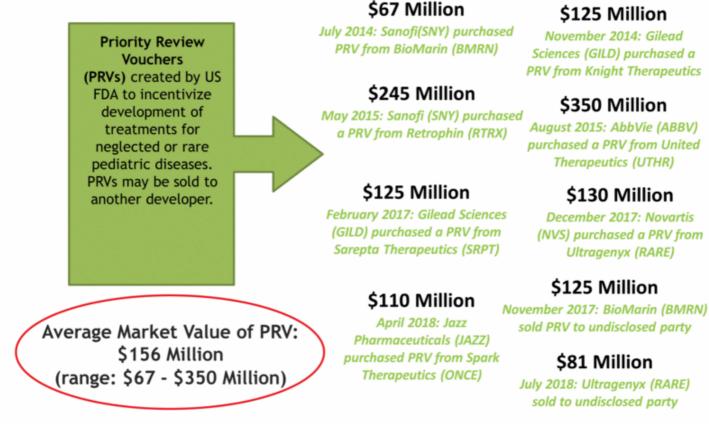
- Study evaluating Mytesi versus placebo 1 hour after Azithromycin in cholera¹
 - Reducing amount of watery stool, 25-30%, 0-6 hour time periods (p=0.025)
- Indian patient study in adults with severe watery diarrhea²
 - N=98, randomized 1:1, crofelemer vs. placebo (250 mg Q6H x 2 days)
 - Statistically significant benefits seen in seven prospectively defined clinical endpoints Crofelemer superior for overall clinical success, 79% vs. 28%



- ✤ NEXT STEPS:
 - Dispersible tablet formulation of Lechlemer
 - File IND in 2H 2019

¹Bardhan, et.al., '08 US-Japan Cholera Conf. ²Bardhan PK EID,'09

Jaguar Health: Lechlemer PRV Potential if Granted



1. https://www.raps.org/regulatory-focus/news-articles/2017/12/regulatory-explainer-everything-you-need-to-know-about-fdas-priority-review-vouchers

Global partnering for an expanding pipeline provides opportunity for non-dilutive funding and global access to Mytesi and novel anti-secretory agents



- Multiple indications
- Multiple geographies
- Second-generation antisecretory (lechlemer)
- Strategically sequence indication development priorities, secondgeneration product pipeline development, and partnering goals on a global basis



Name / Title	Experience
Lisa Conte Founder & CEO	 28+ years of industry experience Obtained first anti-secretory human product FDA approval Board of directors of Healing Forest Conservancy, Dickey Center for International Understanding (Dartmouth College)
Karen Wright CFO & Treasurer	 30+ years of financial experience with biotech companies Former Head of Finance for Clene Nanomedicine
Steven King, PhD EVP, Sustainable Supply, Ethnobotanical Research & IP	 Served as SVP of Sustainable Supply, Ethnobotanical Research & IP: 1989-2017 Board of Directors of Healing Forest Conservancy
Pravin Chaturvedi, PhD Chief Scientific Officer Chair of Scientific Advisory Board	 25+ years drug development experience Co-Founded Scion, IndUS and Oceanyx Pharmaceuticals Successfully developed Mytesi® (first pivotal adaptive design)
Robert J. Griffing Chief Commercialization Officer	 22+ years at Merck, including Global Brand Leader within Oncology Franchise and, HIV sales and market share strategy
David Sesin, PhD Chief Manufacturing Officer	 Pharmaceutical scientist with experience from drug discovery through manufacturing Developed crofelemer manufacturing process
Pete Riojas National Sales Director	 29 years of pharmaceutical industry experience Former Sanofi regional sales director and UCB Pharma national sales director

Board of Directors

Name / Title	Experience
James Bochnowski Chairman	 Founder of Delphi Ventures, one of the first VC firms to focus exclusively on investing in life sciences companies Co-founded Technology Venture Investors
Lisa Conte Founder, CEO & President	 28+ years of industry experience Obtained first anti-secretory human product FDA approval
Jiahao Qiu Director	 Principal of BioVeda China Fund, a life science investment firm Extensive experience evaluating, managing & investing in life science firms
John Micek III Director	 Managing Partner of Verdant Ventures Former Managing Director of Silicon Prairie Partners, LP
Jonathan B. Siegel Director	 Founded JBS Healthcare Ventures with a focus on public and private healthcare investments 18+ years of investment experience
Jeff Johnson Director	 Partner at Sagard Holdings Former portfolio manager at Evercore Asset Management and Citigroup Asset Management
Greg Divis Director	 Chief Operating Officer of Avadel Pharmaceuticals 28+ years of direct operating and global leadership experience in specialty pharmaceuticals
David MacNaughtan Director	 25+ years of biopharmaceutical industry experience, with roles spanning financing, venture capital, royalty investing, business development, and process development

Capitalization Table - As of September 15, 2018

Common shares outstanding: Non-voting common shares outstanding (as converted to voting common	9,528,103
basis):	2,686,749
Preferred stock (as converted to common basis): Total common and preferred stock:	<u>3,314,956</u> 15,529,808
Warrants: 119,994 warrants, expiration 5/2022; average exercise price of \$11.25; 731,704 warrants, expiration 1/2019-8/2023; average exercise price of \$4.85 308,984 warrants, expiration 12/2018-12/2025; average exercise price of \$1.	
Options (reserved and issued) and RSU's: Includes 2,137,943 options priced <\$3.00; and 940,456> \$3.00/share	<u>3,709,475</u>
Fully diluted common shares:	20,399,965
Convertible notes: Proforma fully diluted common shares including	<u>1,642,852</u>
potential conversion of notes:	22,042,817

Investment Highlights

Mytesi: FDA- Approved Human Drug	 Only FDA-approved diarrhea treatment that's been studied specifically in adults with HIV / AIDS Global unencumbered rights Commercial manufacturing in place Approved with chronic safety/locally acting in gut
Broad Human Product Pipeline	 Potential multiple follow-on human indications of Mytesi with potential blockbuster market and patient opportunity Clinical trials include Phase 1 and Phase 2 data
Priority Review Voucher	 Potential opportunities for non-dilutive funding Current market values of PRVs may exceed the current market value of JAGX
Risk-Mitigated Product Development	 Safety to support approved chronic administration Already FDA approved commercial manufacturing facility for crofelemer KOL, protocol generation and SPA approach to help mitigate regulatory risk Safe and well tolerated with no SAEs reported through present
Strong Management Team	 Key management has been with the company for >15 years Chairman of board and key investors have invested for >25 years Original discoverer and developer of successful FDA-approved first-in-class anti-secretory agent, crofelemer - only oral product approved under botanical guidance
Proprietary Position	 Company patents issued through present: About 140 (majority do not expire until 2027 - 2031) Patent applications pending: About 40 (human health) Botanical guidance protection. Unique botanical sourcing infrastructure Orphan-drug designation

	2017 Jan	2017 Feb	2017 Mar	2017 Apr	2017 May	2017 Jun	2017 Jul	2017 Aug	2017 Sep	2017 Oct	2017 Nov	2017 Dec
								-	-			
ross to Net Sales	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
iross Sales-Mytesi	\$ (159,300)	(165,240)	(43,849)	(122,323)	(155,365)	(183,579)	(165,292)	(179,071)	(212,163)	(313,625)	(301,321)	(308,561)
Allowance for sales discounts-Mytesi	3,186	3,305	3,510	8,073	10,254	35,024	10,909	11,633	13,472	17,121	51,309	5,337
Allowance for sales returns-Mytesi	353	1,149	(161,248)	1,743	1,315	1,146	1,151	1,370	630	40,670	0	56,31
Mytesi wholesaler fee	 									15,012	19,637	19,31
let Sales-Mytesi	\$ (155,761)	(160,786)	(201,587)	(112,507)	(143,796)	(147,408)	(153,232)	(166,067)	(198,061)	(240,823)	(230,375)	(227,595)

Gross to Net Sales		2018 Jan ACTUAL	2018 Feb ACTUAL	2018 Mar ACTUAL	2018 Apr ACTUAL	2018 May ACTUAL	2018 Jun ACTUAL	2018 Jul ACTUAL	2018 Aug ACTUAL
Gross Sales-Mytesi	\$	(274,784)	(238,709)	(281,810)	(321,539)	(477,418)	(363,933)	(489,523)	(594,033)
Allowance for sales discounts-Mytesi		50,245	41,786	14,578	50,392	76,455	84,900	92,186	126,117
Allowance for sales returns-Mytesi		2,129	3,581	24,310	4,395	7,129	4,105	5,921	5,946
Mytesi wholesaler fee		25,984	25,710	23,711	29,344	5,961	46,039	24,380	9,849
Net Sales-Mytesi	ş	(196,426)	(167,632)	(219,211)	(237,408)	(387,873)	(228,889)	(367,036)	(452,121)



Jaguar Health, Inc.

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