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PureTech's LYT-100 (Deupirfenidone) Demonstrates Tolerability and Pharmacokinetic Proofof-Concept in Phase 1 Multiple Ascending Dose and Food Effect Study

November 18, 2020

LYT-100 was well-tolerated at all pre-specified doses, so an additional cohort of 1000 mg twice a day was added, which was also well-tolerated

In a previous study, a single dose of 801 mg of LYT-100 yielded greater exposure than a single dose of 801 mg (FDA-approved dose) of pirfenidone

LYT-100 to be advanced for conditions involving inflammation and fibrosis and disorders of lymphatic flow, including idiopathic pulmonary fibrosis, Long COVID and lymphedema

BOSTON--(BUSINESS WIRE)--Nov. 18, 2020-- PureTech Health plc (LSE: PRTC, Nasdaq: PRTC) ("PureTech" or the "Company"), a clinical-stage biotherapeutics company dedicated to discovering, developing and commercializing highly differentiated medicines for devastating diseases, today announced the completion of a Phase 1 multiple ascending dose and food effect study for LYT-100 (deupirfenidone). The study demonstrated favorable proof-of-concept for LYT-100's tolerability and pharmacokinetic (PK) profile, which will also enable twice-a-day (BID) dosing of LYT-100 in future studies. LYT-100 is PureTech's wholly-owned product candidate that is being advanced for the potential treatment of conditions involving inflammation and fibrosis and disorders of lymphatic flow.

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LYT-100 has potential to address a range of inflammatory and fibrotic conditions



PureTech completed a Phase 1 multiple ascending dose and food effect study for LYT-100 (deupirfenidone), which demonstrated favorable proof-of-concept for LYT-100's tolerability and pharmacokinetic profile. LYT-100 is PureTech's wholly-owned product candidate that is being advanced for the potential treatment of conditions involving inflammation and fibrosis and disorders of lymphatic flow. (Photo: Business Wire)

LYT-100 is a deuterated, oral small molecule designed to overcome the challenges associated with pirfenidone, an approved and marketed anti-inflammatory and anti-fibrotic drug. Pirfenidone is currently approved for the treatment of idiopathic pulmonary fibrosis (IPF), but it is associated with significant tolerability issues and dose-limiting toxicities leading approximately 50% of patients to discontinue use, dose adjust or switch therapies, which results in suboptimal disease management. LYT-100, a new chemical entity, retains the pharmacology of pirfenidone but has a differentiated PK profile, which is designed to enable improved tolerability, less frequent dosing and potentially increased efficacy.

"The strong results from this Phase 1 readout reinforce our view that LYT-100

has the potential to offer a tolerability and bioavailability profile that could be highly differentiated at the same exposure levels as pirfenidone," said Daphne Zohar, co-founder and chief executive officer of PureTech. "Based on these results, we plan to move the program forward in multiple indications characterized by inflammation and fibrosis, including IPF, where pirfenidone is shown to have benefit but where tolerability concerns have limited its use. We also plan to initiate two trials evaluating LYT-100 in novel indications such as Long COVID respiratory complications and related sequelae and lymphedema this quarter."

Multiple ascending dose and food effect study results

The Phase 1 multiple ascending dose and food effect study was a randomized, double-blind study designed to evaluate the safety, tolerability and PK profile of LYT-100 in healthy participants. In the multiple ascending dose part of the study, participants were initially scheduled to receive increasing doses of LYT-100 up to 750 mg BID. LYT-100 was well-tolerated at all pre-specified doses, so an additional cohort receiving 1000 mg BID was assessed. LYT-100 was well-tolerated at that dose as well. In the food effect portion of the study, participants received a single dose of 500 mg of LYT-100 with or without food.

All adverse events (AEs) that were possibly or probably related to LYT-100 were mild and transient and there were no discontinuations. The most common AEs across all multiple ascending dose cohorts were headache (23.3% with LYT-100 vs. 20.0% with placebo), abdominal distension (10.0% with LYT-100 vs. 0% with placebo), nausea (10.0% with LYT-100 vs. 0% with placebo) and abdominal discomfort (6.7% with LYT-100 vs. 10.0% with placebo). The only AEs observed in the highest dose cohort (1000 mg BID) that were considered possibly related to LYT-100 were two headaches. No serious AEs or dose-limiting toxicities were observed in the study, and there was no dose response for any type of AE. The maximum tolerated dose was not observed during this study, suggesting higher doses could be explored.

The food effect portion of the study evaluated two common PK measures that are used to determine the dose of a product candidate – area under the curve (AUC), which represents exposure, and Cmax, which reflects the maximum concentration following drug administration. AUC and Cmax were each observed to decrease when LYT-100 was taken with food as compared to fasting conditions. Under fed conditions, the AUC reduction observed

with LYT-100 (19%) was comparable to the AUC reduction stated in the ESBRIET® (pirfenidone) US Prescribing Information (16%). The Cmax reduction observed with LYT-100 was 23%, while the Cmax reduction stated in the ESBRIET® (pirfenidone) US Prescribing Information is 49%. Based on the food effect findings, PureTech intends to explore the use of LYT-100 in future studies without regard to when food is consumed.

The therapeutic dose of pirfenidone approved by the US Food and Drug Administration (FDA) for the treatment of IPF is 801 mg three times a day. LYT-100 is designed to potentially improve upon this regimen. In a previously conducted, single-dose crossover study, an 801 mg dose of LYT-100 resulted in greater drug exposure than an 801 mg of pirfenidone. In the recently completed Phase 1 study, LYT-100 was well-tolerated at a dose above 801 mg. These data, together with PureTech's PK modelling of LYT-100 and pirfenidone exposures, indicate the potential for twice-a-day dosing with LYT-100.

Based on these results, PureTech plans to move the program forward in multiple indications, including IPF, Long COVID, and lymphedema. This quarter, PureTech plans to initiate a Phase 2 trial evaluating LYT-100 as a potential treatment for Long COVID respiratory complications and related sequelae and a second Phase 2a proof-of-concept study evaluating LYT-100 in patients with breast cancer-related, upper limb secondary lymphedema. PureTech is also advancing LYT-100 for the treatment of IPF and is actively planning additional PK and dosing studies.

About LYT-100

LYT-100 is PureTech's most advanced wholly-owned product candidate. A deuterated form of pirfenidone, an approved anti-inflammatory and anti-fibrotic drug, LYT-100 is being advanced for the potential treatment of conditions involving inflammation and fibrosis and disorders of lymphatic flow, including lung dysfunction conditions (e.g., IPF, unclassifiable interstitial lung diseases (uILDs), Long COVID respiratory complications and related sequelae) and lymphedema. PureTech completed a Phase 1 multiple ascending dose and food effect trial evaluating LYT-100 in healthy volunteers and found it to be well-tolerated at all doses tested. In Q4 2020, PureTech plans to initiate a Phase 2 trial evaluating LYT-100 as a potential treatment for Long COVID respiratory complications and related sequelae and a Phase 2a proof-of-concept study evaluating LYT-100 in patients with breast cancer-related, upper limb secondary lymphedema. PureTech is also advancing LYT-100 for the treatment of IPF and is actively planning additional PK and dosing studies.

About PureTech Health

PureTech is a clinical-stage biotherapeutics company dedicated to discovering, developing and commercializing highly differentiated medicines for devastating diseases, including intractable cancers, lymphatic and gastrointestinal diseases, central nervous system disorders and inflammatory and immunological diseases, among others. The Company has created a broad and deep pipeline through the expertise of its experienced research and development team and its extensive network of scientists, clinicians and industry leaders. This pipeline, which is being advanced both internally and through PureTech's Founded Entities, is comprised of 24 products and product candidates, including two that have received FDA clearance and European marketing authorization. All of the underlying programs and platforms that resulted in this pipeline of product candidates were initially identified or discovered and then advanced by the PureTech team through key validation points based on the Company's unique insights into the biology of the brain, immune and gut, or BIG, systems and the interface between those systems, referred to as the BIG Axis.

For more information, visit www.puretechhealth.com or connect with us on Twitter @puretechh.

Forward Looking Statement

This press release contains statements that are or may be forward-looking statements, including statements that relate to the company's future prospects, developments, and strategies. The forward looking statements are based on current expectations and are subject to known and unknown risks and uncertainties that could cause actual results, performance and achievements to differ materially from current expectations, including, but not limited to, our expectations regarding the potential therapeutic benefits of LYT-100, our plans to initiate a Phase 2 trial evaluating LYT-100 as a potential treatment for Long COVID respiratory complications and related sequelae and a Phase 2a proof-of-concept study evaluating LYT-100 in patients with breast cancer-related, upper limb secondary lymphedema, our plans to advance LYT-100 for the treatment of IPF and those risks and uncertainties described in the risk factors included in the regulatory filings for PureTech Health plc. These forward-looking statements are based on assumptions regarding the present and future business strategies of the company and the environment in which it will operate in the future. Each forward-looking statement speaks only as at the date of this press release. Except as required by law and regulatory requirements, neither the company nor any other party intends to update or revise these forward-looking statements, whether as a result of new information, future events or otherwise.

¹ Cottin, V., Koschel, D., Günther, et al. (2018). Long-term safety of pirfenidone: Results of the prospective, observational PASSPORT study. *ERJ Open Research*, 4(4), 00084-2018. doi:10.1183/23120541.00084-2018

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