

Medicines That Make a Difference®

JP Morgan Healthcare Conference

January 13, 2021

Forward-looking statements

Under the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995, the company cautions investors that any forward-looking statements or projections made by the company are subject to risks and uncertainties that may cause actual results to differ materially from the forward-looking statements or projections.

Examples of forward-looking statements in this presentation may include the Company's strategies, plans and objectives, the Company's regulatory strategies and timing of clinical studies (including the data therefrom), the potential characteristics, benefits and mechanisms of action of the Company's product and product candidates, the potential that the Company's research programs will progress product candidates into the clinic, the Company's expectations for product candidates through development, the Company's expectations regarding its allocation of resources, potential regulatory approval and commercialization (including their differentiation from other products or potential products), product sales or profit share revenue and the Company's expectations for its 2020 operating loss, excluding share-based compensation and other financial results.

The company's forward-looking statements are based on the estimates and assumptions of management as of the date of this presentation and are subject to risks and uncertainties that may cause the actual results to be materially different than those projected, such as risks related to the impacts on the COVID-19 global pandemic on our business, delays or difficulties in commencing, enrolling or completing clinical studies, the potential that results from clinical or non-clinical studies indicate the Company's compounds or product candidates are unsafe or ineffective, risks that product candidates do not obtain approval from regulatory authorities, the feasibility of undertaking future clinical trials for our product candidates based on policies and feedback from regulatory authorities, dependence on third parties to conduct clinical studies, delays or failure to achieve and maintain regulatory approvals for product candidates, risks of collaborating with or relying on third parties to discover, develop, manufacture and commercialize products, and risks associated with establishing and maintaining sales, marketing and distribution capabilities with appropriate technical expertise and supporting infrastructure, current and potential future disagreements with Innoviva, Inc. and TRC LLC, the uncertainty of arbitration and litigation and the possibility that an arbitration award or litigation result could be adverse to the Company.

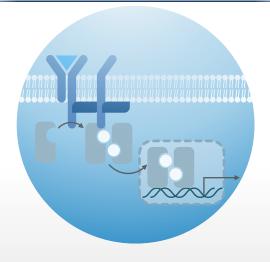
Other risks affecting Theravance Biopharma are in the company's Form 10-Q filed with the SEC on November 9, 2020, and other periodic reports filed with the SEC.





Theravance Biopharma difference: Targeting disease with organ selective medicines

Pathway



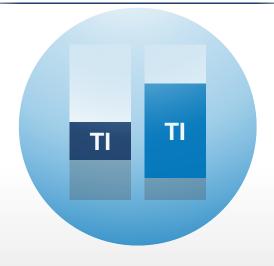
Target disease biology

Disease



Optimize effect in the organ where the disease is active

Therapeutic Index



Expand TI with the goal of maximizing efficacy and limiting systemic side effects

Pioneering a new generation of small molecule drugs designed to better meet patient needs



2021: Three Areas for Transformational Impact



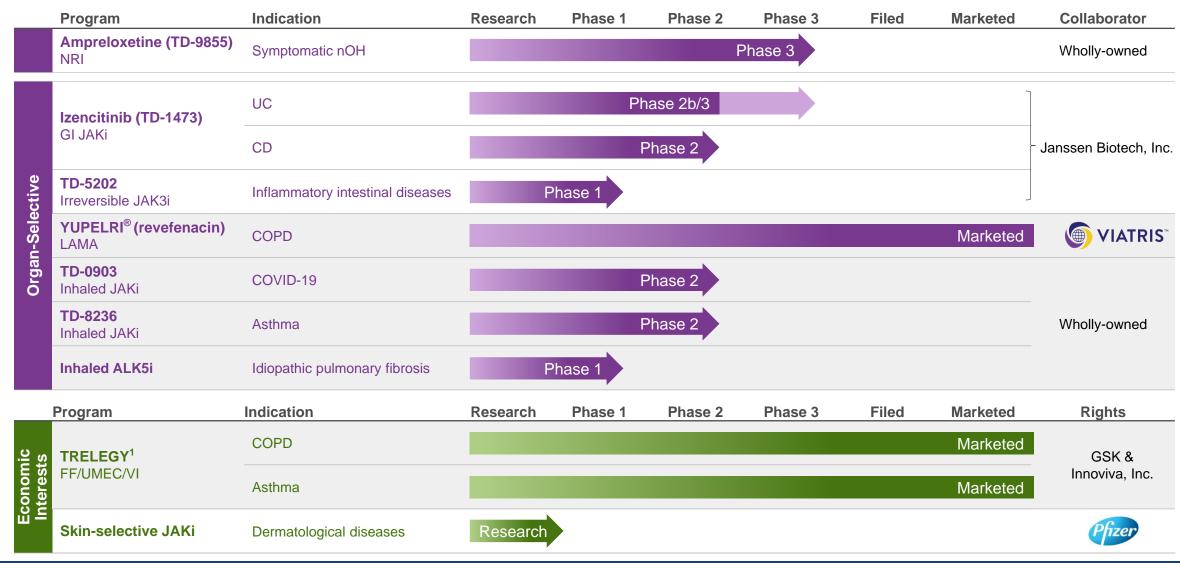
Development Pipeline

Ampreloxetine Izencitinib TD-0903

Changing Financial Profile



Key programs supported by proven development and commercial expertise





2021: Three Areas for Transformational Impact



Development Pipeline

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YUPELRI® (revefenacin) inhalation solution

FDA-approved for the maintenance treatment of COPD First and only once-daily, nebulized maintenance medicine for COPD



Once-daily LAMAs are first-line therapy for moderate-to-severe COPD¹

9% of COPD patients (~800,000) use nebulizers for ongoing maintenance therapy; 41% use nebulizers at least occasionally for bronchodilator therapy²

TBPH and VTRS worldwide strategic collaboration to develop and commercialize nebulized YUPELRI® (revefenacin)



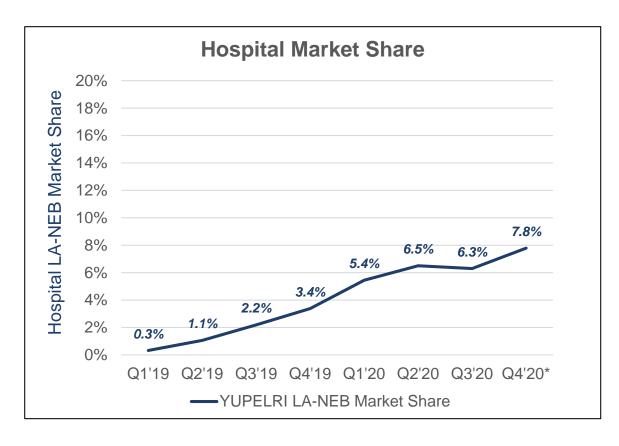


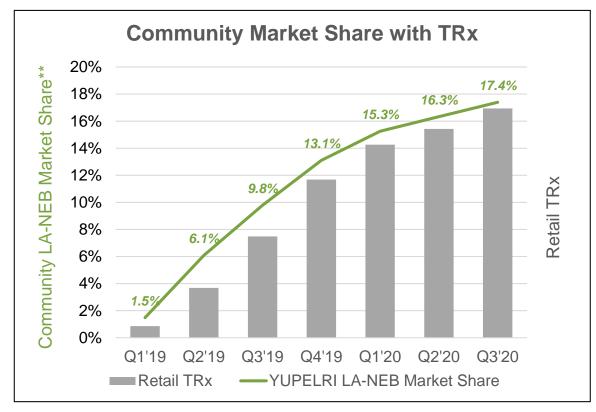


Companies co-promote under US profit/loss share

YUPELRI® hospital sales and community TRx trends

Continued growth through Q1'20 across both the hospital and retail channels; Signs of recovery to initial growth trajectory leading into 2021





Most patients that receive YUPELRI® in the hospital are discharged with an Rx1

*Q4'20 through 12/18/2020

TRx volume represents retail only which is typically 33% of Retail + DME

**Community LA-NEB Market Share includes Retail + DME / Med B FFS

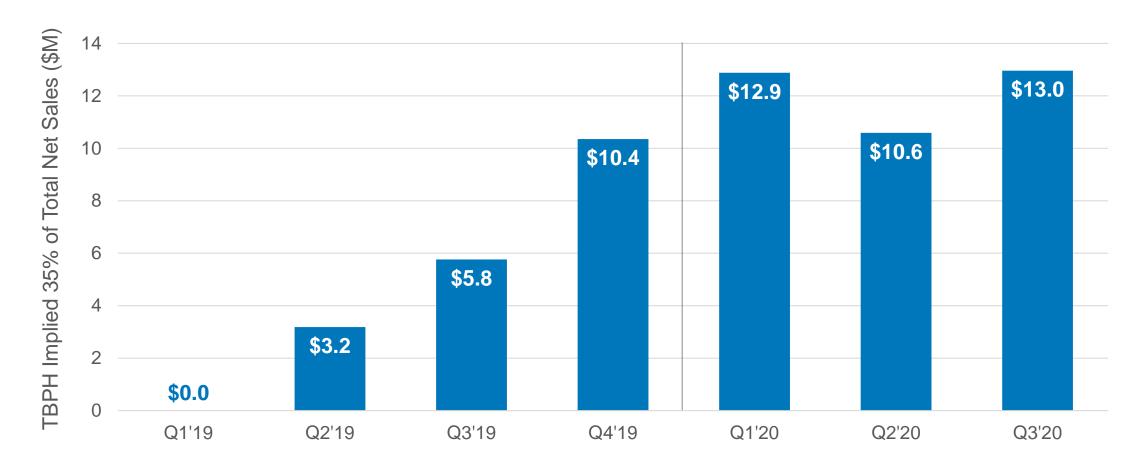


Joint VTRS/TBPH Market Research

^{*} Hospital - IQVIA DDD through 12/18/2020.

TBPH implied 35% of YUPELRI® US net sales by quarter

Growth in net sales through Q1'20 and recovery in Q3'20 driven by volume



TBPH implied 35% of YUPELRI US net sales represents TBPH's split of the combined TBPH and VIATRIS net revenue



2021: Three Areas for Transformational Impact

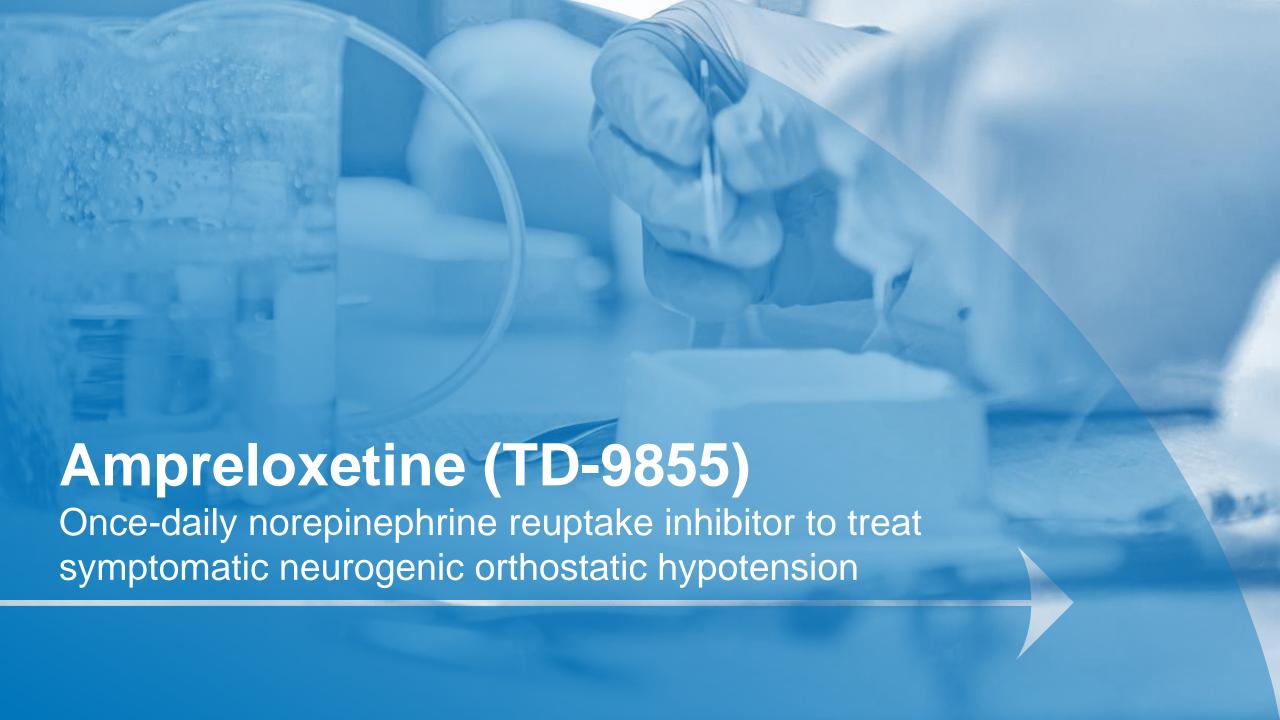


Development Pipeline

Ampreloxetine Izencitinib TD-0903

Changing Financial Profile





Reduced quality of life, significant caregiver burden and limited therapeutic options for symptomatic nOH patients



~350K ~700K ~700K

US patients

APAC patients

EU patients

nOH is a symptom of MSA, PAF and PD

70-80% of MSA patients¹, and

30-50% of PD patients² have nOH³



Current treatments (midodrine, fludrocortisone, droxidopa) have significant limitations

Subset of patients do not respond

None demonstrate durable effect

Safety profiles that limit use

Require multiple daily dosing



Ampreloxetine

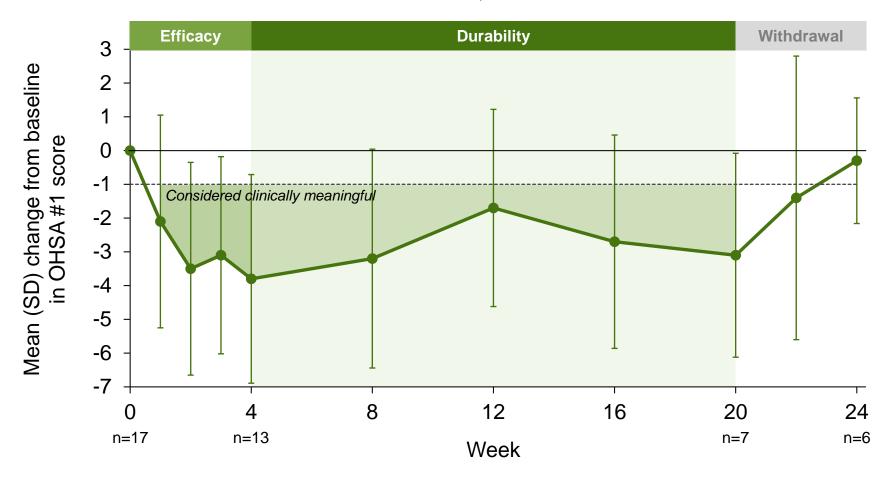
Designed to reduce symptoms of nOH by prolonging the effect of endogenous norepinephrine with the potential to provide a meaningful and durable symptom improvement to underserved patients



Ampreloxetine: Potential to provide meaningful and durable symptom improvement to underserved patients

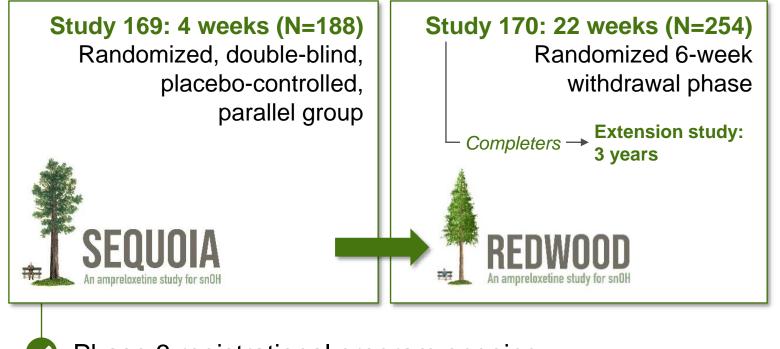
Ampreloxetine

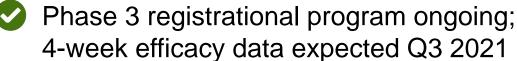
Phase 2 data in nOH; 20 weeks of treatment



Ampreloxetine: Potential to provide meaningful and durable symptom improvement to underserved patients

Phase 3 Registrational Program



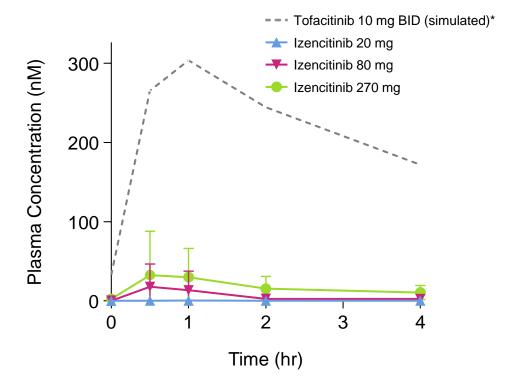




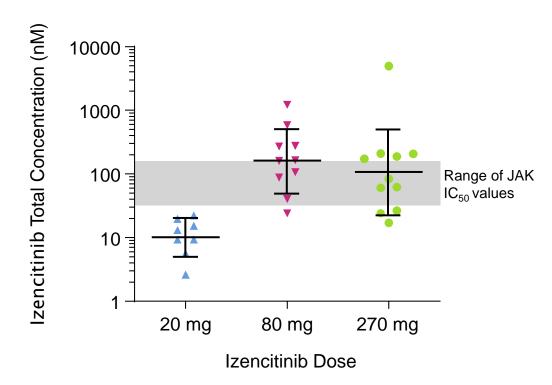


Izencitinib results in low systemic exposures but high colonic concentrations above JAK inhibition levels

Steady State Plasma Izencitinib PK in Patients with UC



Colonic Tissue Izencitinib Concentrations



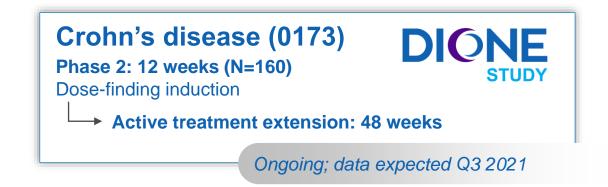
- >10-fold lower systemic exposure with izencitinib vs 10 mg BID tofacitinib (based upon published data)
- ► Tissue exposures at 80 and 270 mg of izencitinib within the range of cellular JAK IC₅₀ values

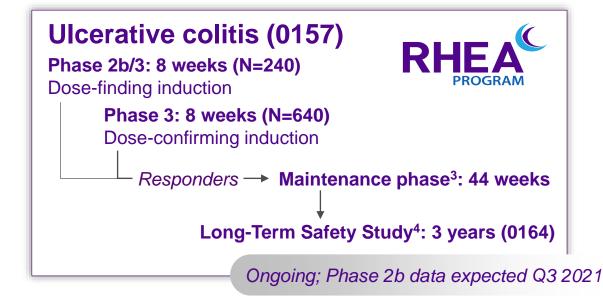
Pre-clinical and Phase 1b results led to late stage IBD studies with izencitinib

Favorable data from this innovative exploratory Phase 1b study¹

- Confirmed gut selectivity
 - High colonic concentration with low systemic drug exposures, consistent with pre-clinical data
 - For the goal of maximized therapeutic index
- Demonstrated numerically higher rates of clinical outcomes with reductions in biomarkers after only 4 weeks of treatment
 - Numerical improvements in rectal bleeding and mucosal healing
- Led to decision to proceed with development of izencitinib

Global collaboration with **Janssen Biotech**, **Inc.** leverages joint development expertise with the potential for up to a total of \$1B in milestone payments to **TBPH** plus profit-share in US (33% TBPH, 67% Janssen) and double-digit royalties to TBPH ex-US²







^{1.} Sandborn et al. J Crohns Colitis;2020:14:1202-13.

^{2.} Deal value up to \$1B in payments to TBPH, including \$100M upfront previously received; subject to Janssen opt-in.

^{3.} Maintenance study will have induction responder patients re-randomized to active doses compared to placebo at 44 weeks.

^{4.} Patients may enter the Long-Term safety study by completing or terminating Maintenance study due to loss of response.

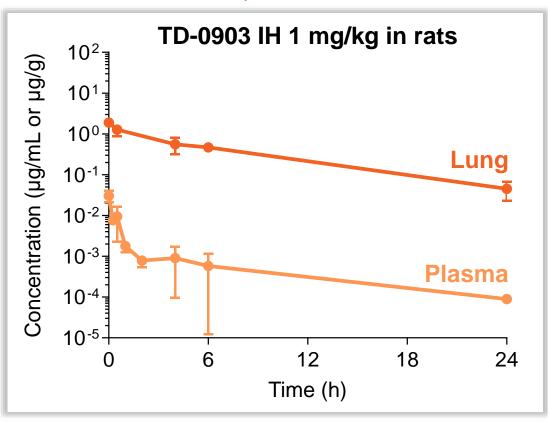


TD-0903: Lung-selective inhaled pan-JAKi

Aiming for maximal anti-inflammatory activity in pulmonary tissue while minimizing systemic exposure

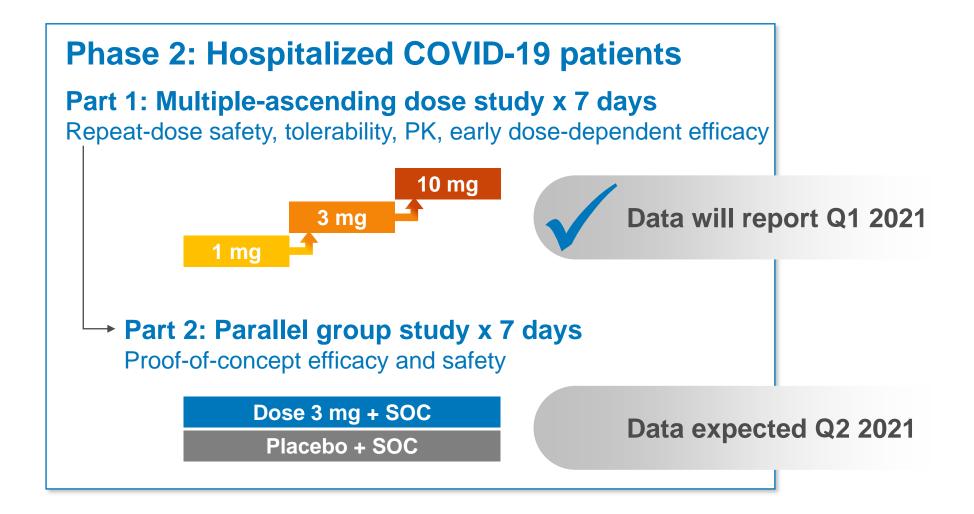
- High affinity for JAK1, JAK2, JAK3, and Tyk2 kinase domains
- High potency for inhibition of cytokine-induced activation of JAK-STAT signaling pathways
 - In vitro: human epithelial and immune cells
 - In vivo: murine inhalation cytokine-challenge models
- Lung-selective design
 - High lung to plasma ratios
 - Rapid systemic clearance with no evidence of systemic immunosuppression
 - PK/PD modeling supports extended duration of action







TD-0903: Development plan designed to progress rapidly



2021: Three Areas for Transformational Impact



Development Pipeline

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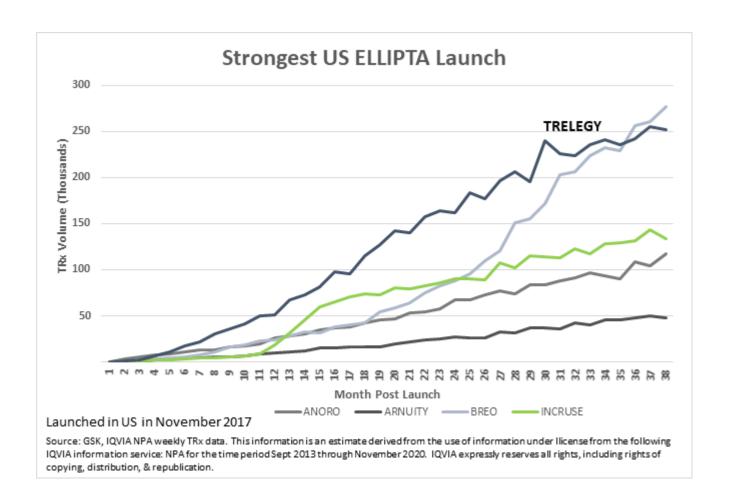
Changing Financial Profile



Economic interest GSK's TRELEGY ELLIPTA (FF/UMEC/VI): First and only once-daily single inhaler triple therapy

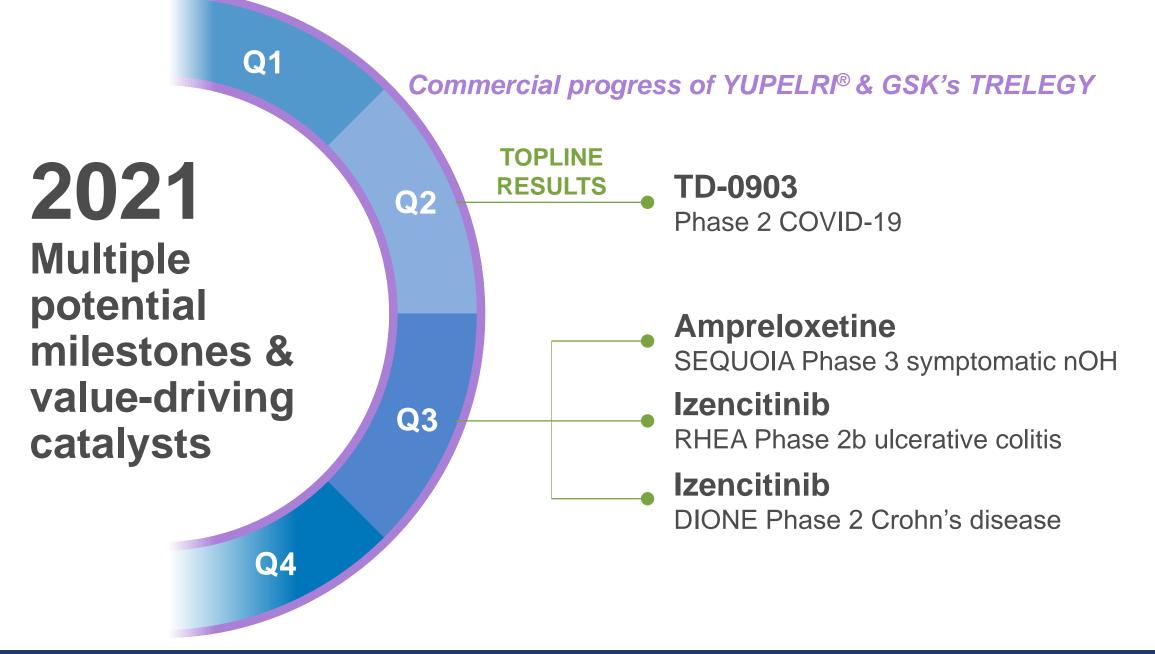
Economic interest in GSK's TRELEGY

Upward-tiering royalties of ~5.5–8.5% of worldwide net sales¹



TRELEGY

- Q3 net sales of £194MM (or \$252MM)
- Sales up 45% year-over-year
- ✓ US asthma indication approved September 9, 2020, and launched 3rd Q
 - Results from the CAPTAIN study published in *The Lancet* Respiratory Medicine





Creating transformational value for stakeholders

Innovative research yielding organ-selective molecular designed assets



Proven development and commercial expertise



Strategic partnerships









WE ARE THINKING OF YOUR NEXT BREATH

Theravance Biopharma is working toward the day when we can all breathe easier.





About YUPELRI® (revefenacin) inhalation solution

YUPELRI® (revefenacin) inhalation solution is a once-daily nebulized LAMA approved for the maintenance treatment of COPD in the US.

Market research by Theravance Biopharma indicates approximately 9% of the treated COPD patients in the US use nebulizers for ongoing maintenance therapy. LAMAs are a cornerstone of maintenance therapy for COPD and YUPELRI® is positioned as the first once-daily single-agent bronchodilator product for COPD patients who require, or prefer, nebulized therapy. YUPELRI®'s stability in both metered dose inhaler and dry powder device formulations suggest that this LAMA could also serve as a foundation for novel handheld combination products.



YUPELRI® (revefenacin) inhalation solution

YUPELRI® inhalation solution is indicated for the maintenance treatment of patients with chronic obstructive pulmonary disease (COPD).

Important Safety Information (US)

YUPELRI is contraindicated in patients with hypersensitivity to revefenacin or any component of this product.

YUPELRI should not be initiated in patients during acutely deteriorating or potentially life-threatening episodes of COPD, or for the relief of acute symptoms, i.e., as rescue therapy for the treatment of acute episodes of bronchospasm. Acute symptoms should be treated with an inhaled short-acting beta2-agonist.

As with other inhaled medicines, YUPELRI can produce paradoxical bronchospasm that may be life-threatening. If paradoxical bronchospasm occurs following dosing with YUPELRI, it should be treated immediately with an inhaled, short-acting bronchodilator. YUPELRI should be discontinued immediately and alternative therapy should be instituted.

YUPELRI should be used with caution in patients with narrow-angle glaucoma. Patients should be instructed to immediately consult their healthcare provider if they develop any signs and symptoms of acute narrow-angle glaucoma, including eye pain or discomfort, blurred vision, visual halos or colored images in association with red eyes from conjunctival congestion and corneal edema.

Worsening of urinary retention may occur. Use with caution in patients with prostatic hyperplasia or bladder-neck obstruction and instruct patients to contact a healthcare provider immediately if symptoms occur.

Immediate hypersensitivity reactions may occur after administration of YUPELRI. If a reaction occurs, YUPELRI should be stopped at once and alternative treatments considered.

The most common adverse reactions occurring in clinical trials at an incidence greater than or equal to 2% in the YUPELRI group, and higher than placebo, included cough, nasopharyngitis, upper respiratory infection, headache and back pain.

Coadministration of anticholinergic medicines or OATP1B1 and OATP1B3 inhibitors with YUPELRI is not recommended.

YUPELRI is not recommended in patients with any degree of hepatic impairment.

