

Developing therapies to improve lung function and symptoms

April 2020



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Ensifentrine is a late-stage, first-in-class candidate for unmet respiratory needs

Inhaled PDE3 and PDE4 inhibitor

Large COPD opportunity:

- Total US sales of \$9.6 billion chronic maintenance COPD therapies¹
- 1.2M US COPD patients failing despite maximum therapy^{2,3}
- About 7,000 physicians prescribe 70% of US nebulized prescriptions⁴

Unique profile:

- First novel class of bronchodilator in COPD in over 40 years⁵
- Results from 15 clinical trials, including two Phase 2b trials
- Safety profile similar to placebo in trials involving over 1300 subjects

Pathway to approval:

- Well-validated demonstrated path to US FDA approval
- Expert team has developed and commercialized many leading respiratory products

Bronchodilator and anti-inflammatory activity



Ensifentrine: Differentiated profile as dual bronchodilator and anti-inflammatory

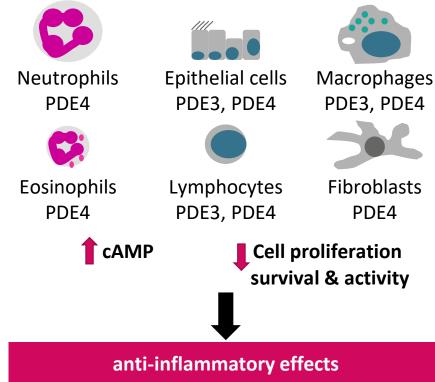
Ensifentrine impacts 3 key mechanisms in respiratory disease

Airway Smooth Muscle¹⁻⁴ Inflammatory Cells^{5,6}

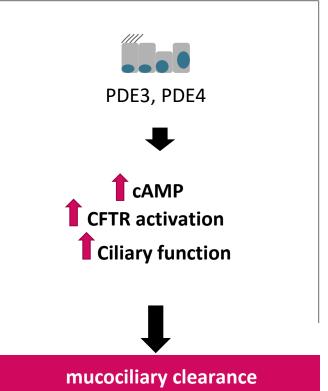
PDE3, PDE4

Bronchial relaxation

bronchodilation



Epithelial Cells^{7,8}





Verona Pharma

Ensifentrine improves lung function and symptoms in moderate to severe COPD patients

Improvements shown with or without background therapy

Summary of Phase 2b data:

- Lung function: Statistically significant and clinically meaningful improvements with optimal efficacy observed consistently with the 3 mg dose
- **Symptoms:** Statistically significant and clinically meaningful improvements in symptoms and Quality of Life measures
- Twice-daily: Statistically significant and clinically meaningful improvements in average FEV₁ over 12 hours

Summary of Phase 1 and 2a data:

- Anti-inflammatory: Significant reduction in all inflammatory cell types in sputum in LPS challenged healthy subjects (COPD-like inflammation)
- Lung function and volumes: Improved when added to background dual/triple therapy

Well tolerated in 15 clinical trials in over 1300 subjects



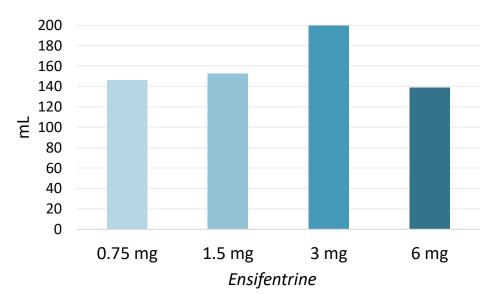
Ensifentrine monotherapy rapidly improved lung function

Progressive symptom relief in COPD

Lung function

Peak Change FEV₁ (mL), p<0.001* at Week 4

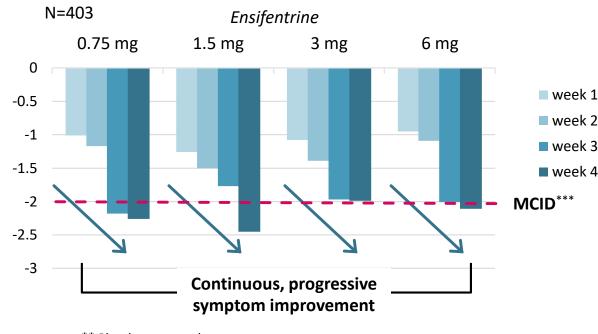
N=403



^{*}Peak Change from Day 1 in Baseline in FEV₁ (mL) on Day 28, Week 4, Primary endpoint met; placebo corrected

Symptom relief

Total Score E-RS: COPD by Week, p<0.02**



^{**} Placebo corrected

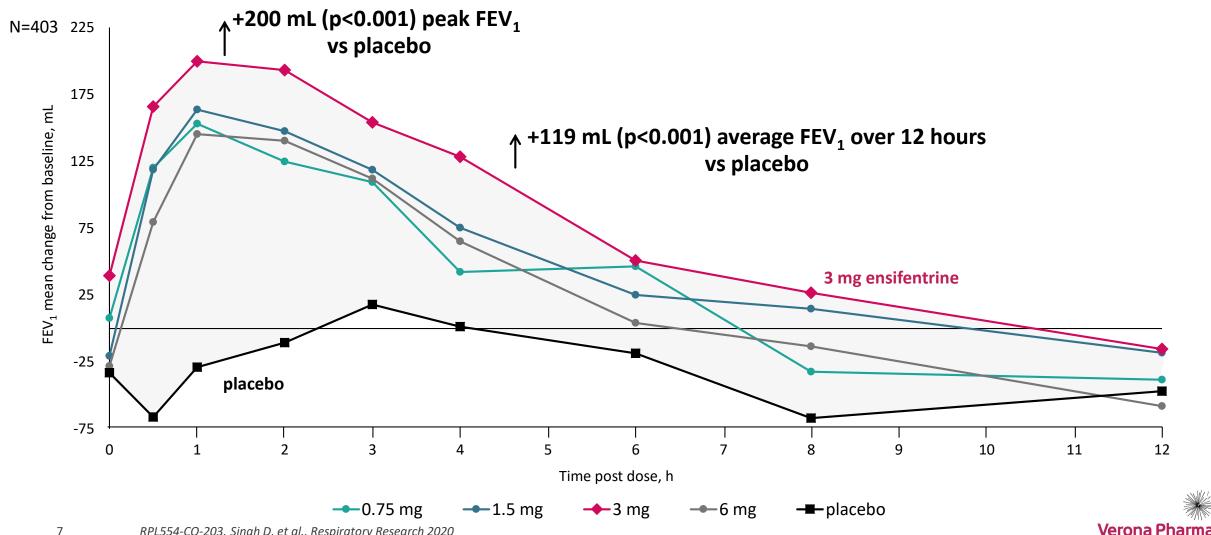
Bronchodilator + anti-inflammatory potential to reduce symptoms and exacerbations¹



^{***} Minimal clinically important difference

Ensifentrine monotherapy supports twice daily dosing

12-Hour Spirometry Profile at Week 4

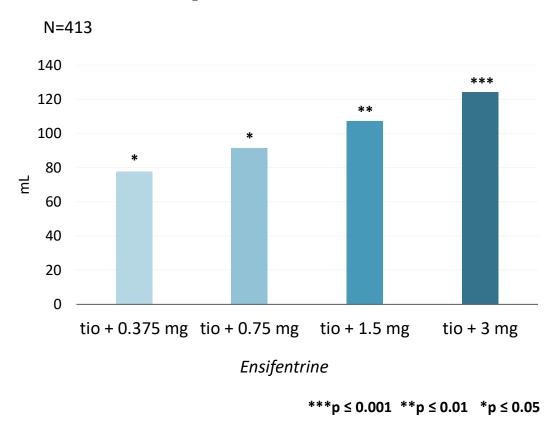


Ensifentrine added to tiotropium rapidly improved lung function

Progressive improvement in quality of life in COPD

Lung function

Peak Change FEV₁ (mL) at Week 4



Primary endpoint met; placebo corrected

Symptom relief

Total Score SGRQ-C: COPD by Week

N = 413

Ensifentrine



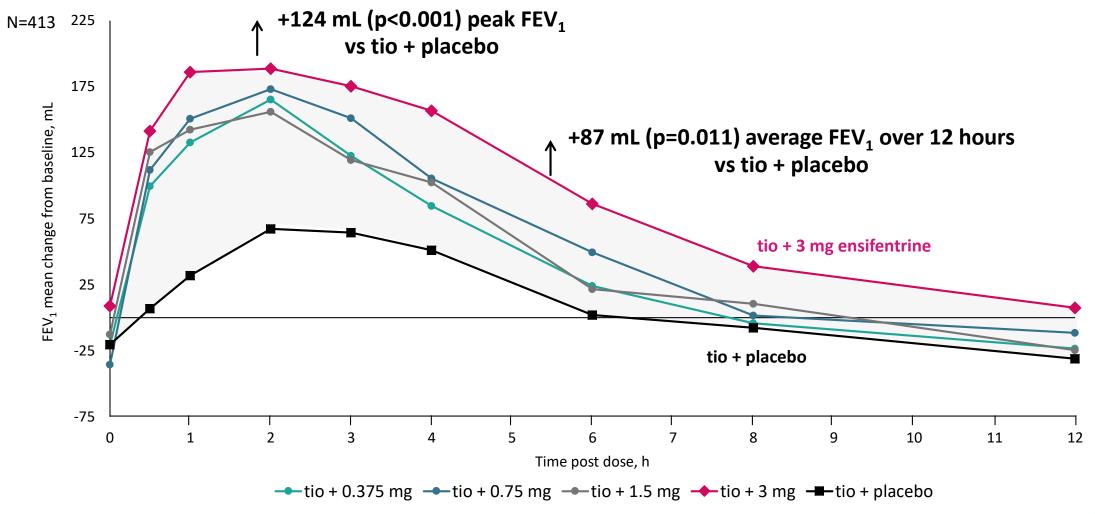
Placebo corrected

¹Minimal clinically important difference (-4 units)



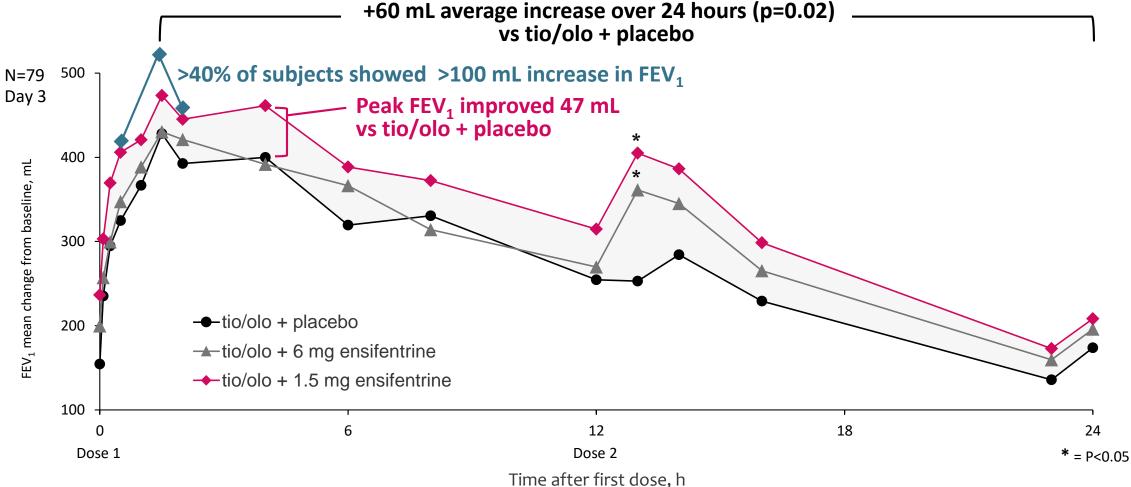
Ensifentrine added to tiotropium supports twice daily dosing

12-Hour Spirometry Profile at Week 4



Ensifentrine in addition to dual therapy

Additional lung function improvement



COPD:

A global silent epidemic

3rd leading cause of death by 2030 with 384 million patients worldwide^{1,2}

Breathless

Millions of patients remain symptomatic despite maximum treatment³⁻⁶

Progressive deterioration

Loss of lung function, leading to hospitalizations and death

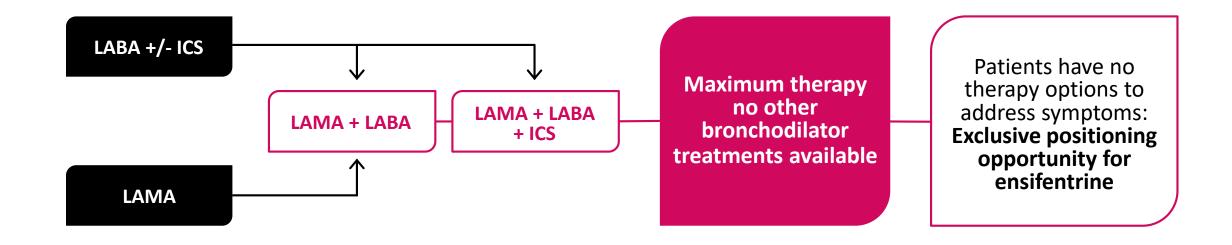
"When I bend over, I can't breathe. I can't unload the dishwasher, or make a bed... I wake up but I can't move. I am so short of breath."

John Linnell, Living with COPD



Nebulized ensifentrine expected to be the only bronchodilator option as add-on to dual / triple therapy

COPD treatment pathway*





Nebulized ensifentrine in COPD:

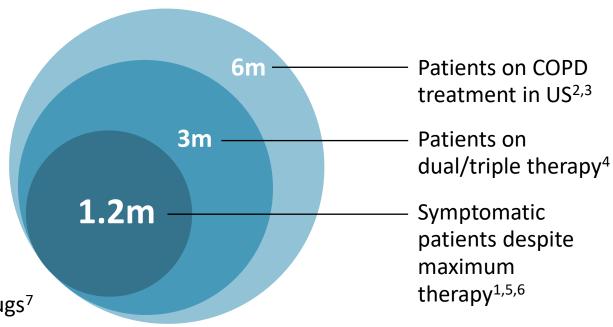
Large US market opportunity

About 40% of COPD patients on dual/triple therapy are uncontrolled, continuing to experience debilitating breathlessness and exacerbations¹

\$12,000

Avg. Annual WAC Price of existing nebulized COPD drugs⁷

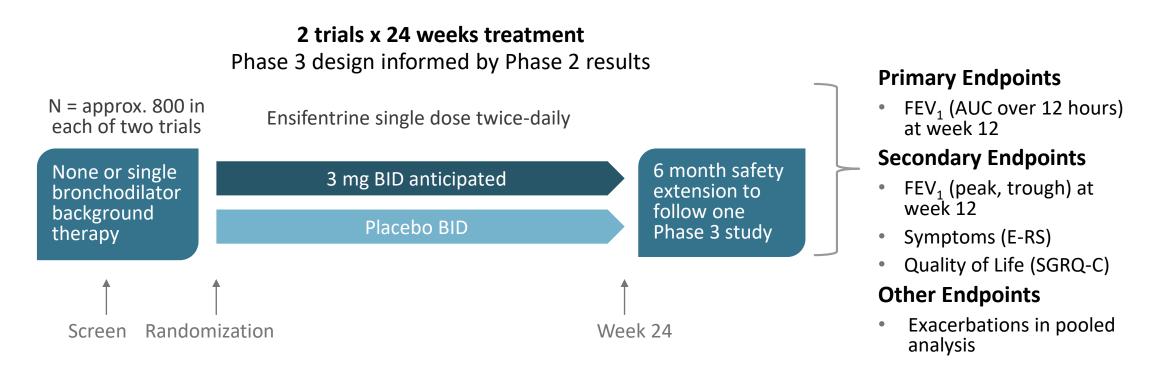
Medicare Part B Reimbursement





Potential Phase 3 Design and Timing

Confirm efficacy and safety of ensifentrine in moderate to severe COPD

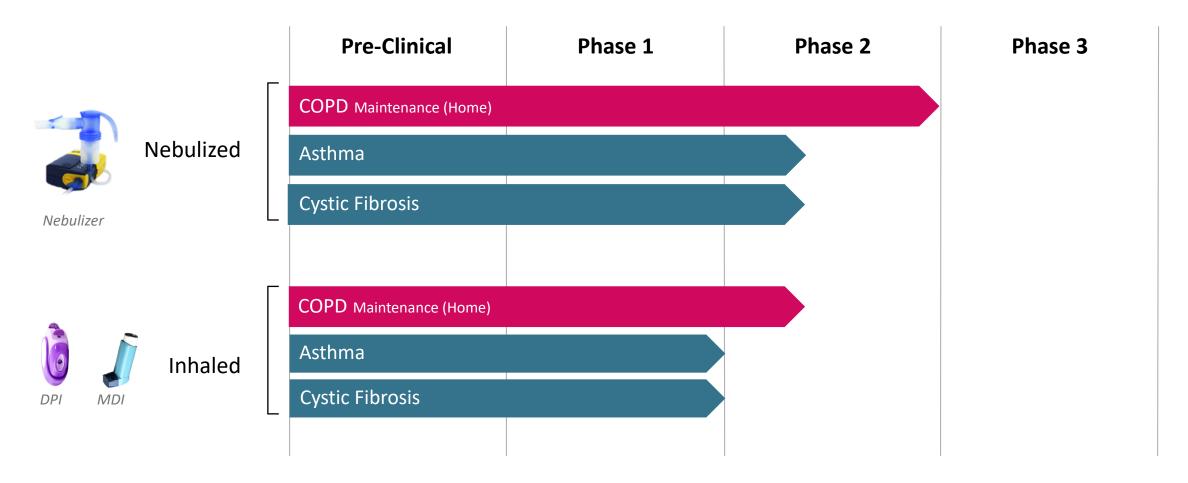


Nebulized ensifentrine as maintenance treatment for COPD



Ensifentrine

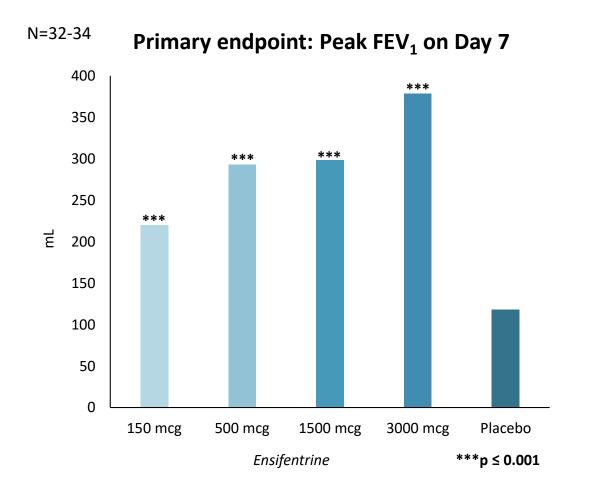
Multiple indications; multiple dosing forms

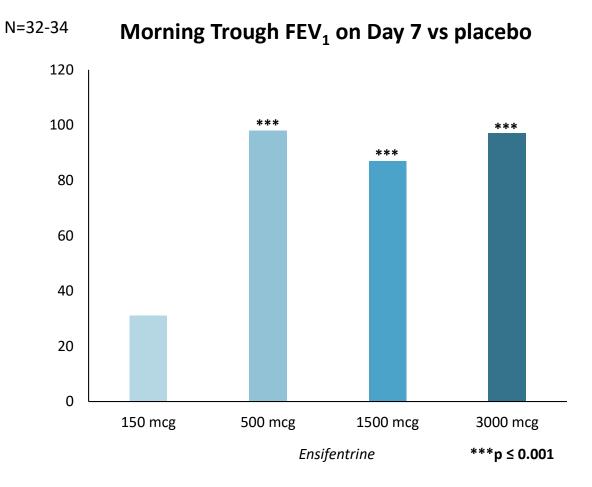




DPI formulation of ensifentrine improved lung function

Clinically meaningful, statistically significant bronchodilation

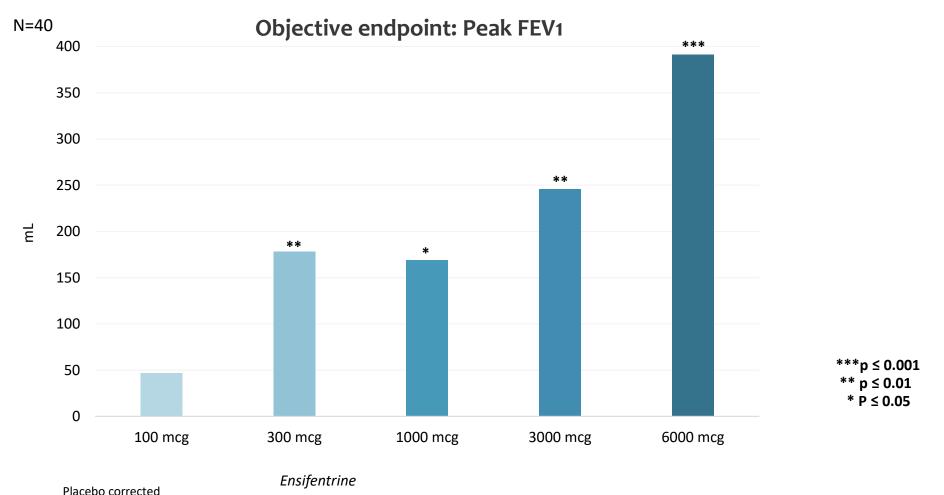






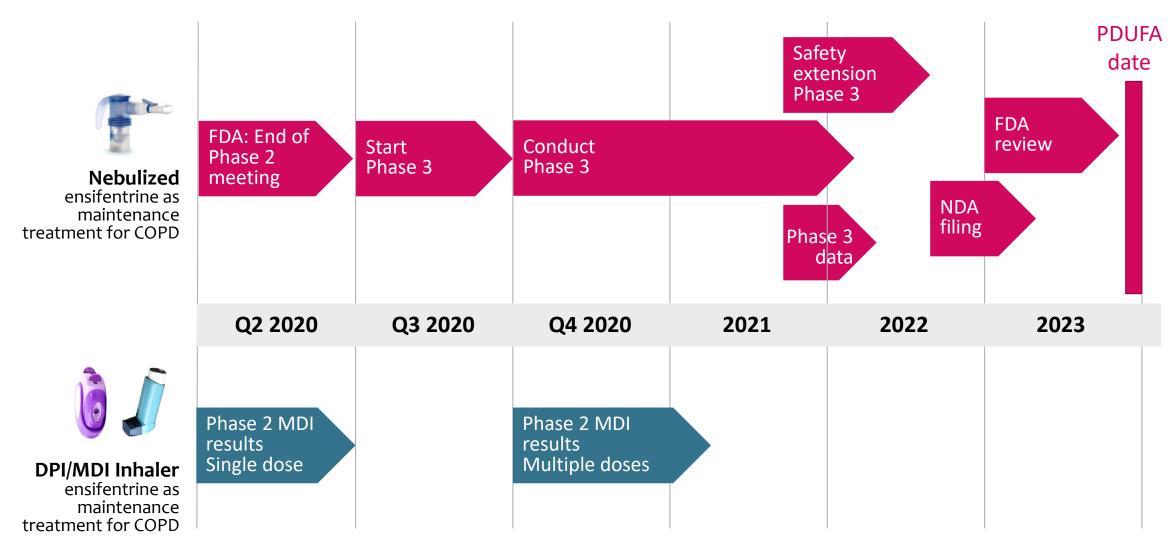
Single dose of MDI formulation of ensifentrine improved lung function

Clinically meaningful, statistically significant bronchodilation





Anticipated milestones as ensifentrine advances





Ensifentrine patent estate

Global rights through 2030s

Invention	Granted/Pending Application	Estimated Patent Expiry
Composition of matter	Granted US, Europe, Asia, other	March 2020
Suspension formulations	Granted US, Europe, Asia, other	2035
Polymorph	Granted US, Europe, Asia, other	2031
MDI formulation	Pending	2039
DPI formulation	Pending	2040
Manufacturing process	Granted Europe; Pending other	2037
Salt forms	Granted US; Pending other	2036
Treatment of cystic fibrosis	Granted Europe; Pending other	2035
Combinations with beta-agonists	Granted US, Europe, pending Canada	2034
Combinations with anti-muscarinics	Granted US, Europe, other, pending other	2034



Blue chip shareholder base with long-term focus

Financial highlights

Cash and equivalents (as of Dec 31, 2019)	\$40.8M ¹
Operating expenses (Year ended 12/31/19)	\$54.5M ¹
Market cap (Nasdaq) (as of March 31, 2020)	\$54.7M ²
Shares outstanding (as of March 31, 2020)	106.2M shares (equal to 13.25M ADRs)























Thank you

