

Theravance Biopharma, Inc. (NASDAQ: TBPH)

Investor Presentation February 2016

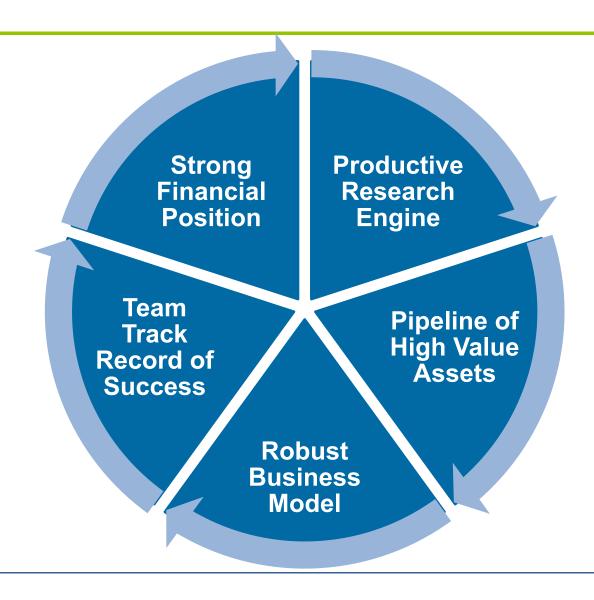
Cautionary Statement Regarding Forward-Looking Statements

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 include statements relating to the company's business plans and objectives, including financial and operating results, potential partnering transactions and sales targets, the company's regulatory strategies and timing and results of clinical studies, and the potential benefits and mechanisms of action of the company's product and product candidates (including their potential as components of combination therapies).

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 delays or difficulties in commencing or completing clinical studies, the potential that results from clinical or non-clinical studies indicate product candidates are unsafe or ineffective (including when our product candidates are studied in combination with other compounds), delays or failure to achieve and maintain regulatory approvals for product candidates, risks of collaborating with third parties to discover, develop and commercialize products, risks associated with establishing and maintaining sales, marketing and distribution capabilities, and the finalization of financial results for the three months and twelve months ended December 31, 2015 and the audit of those results by us and our independent auditors may result in changes from the expected results disclosed in this presentation. Other risks affecting the company are described under the heading "Risk Factors" and elsewhere in the company's Form 10-Q filed with the Securities and Exchange Commission (SEC) on November 12, 2015, and other periodic reports filed with the SEC.

Theravance Biopharma Investment Highlights



Optimizing Pipeline Value by Leveraging Partnerships and Commercial Infrastructure

Program	Therapeutic Area	Collaborator	Early	Mid	Late	Marketed
VIBATIV [®] (telavancin) cSSSI, HABP/VABP	Anti-Infective	Multiple Partners (ex-US)				
Telavancin Bacteremia, Concurrent Bacteremia w/ cSSSI & HABP/VABP	Anti-Infective	Multiple Partners (ex-US)				
Revefenacin (TD-4208) COPD & Other Respiratory Diseases	Respiratory	Mylan				
Axelopran (TD-1211), Axelopran/Opioid FDC OIC, Pain	GI, Pain					
Velusetrag (TD-5108) Gastroparesis	GI	Alfa Wassermann (ex-US)				
TD-9855 (NSRI) nOH, Fibromyalgia	CV, Pain					
TD-8954 ICU IV Prokinetic	GI					
TD-6450 (NS5A) HCV	Anti-Infective	Trek Therapeutics				
TD-1792 & TD-1607 Gram+ MRSA	Anti-Infective	R-Pharm (TD-1792, ex-US)				
TD-0714 (NEP Inhibitor) Chronic/Acute HF, CKD, Hypertension	Cardiovascular, Renal					ipeline Assets
TD-1473 (JAK Inhibitor) Ulcerative Colitis, Other Inflammatory Intestinal Disorders	GI				Fi	inancial Assets
Closed Triple (FF/UMEC/VI) COPD	Respiratory	GSK & Innoviva, Inc.*				
MABA/MABA ICS COPD, Asthma	Respiratory	GSK & Innoviva, Inc.*				

Late-stage = Regulatory submission filed, Phase 3 development, Phase 3-ready; Mid-stage = assets between Phase 1 and Phase 2b; Early-stage = pre-clinical assets

⁴ TBPH holds economic interest in future payments that may be made by Glaxo Group Limited (GSK) relating to certain programs, including "Closed Triple" (FF/UMEC/VI) (Fluticasone Furoate/Umeclidinium/Vilanterol), MABA/FF ('081), MABA monotherapy and other future products that may be combined with VI or MABA '081; Innoviva, Inc. (formerly Theravance, Inc.)



2016 Focus

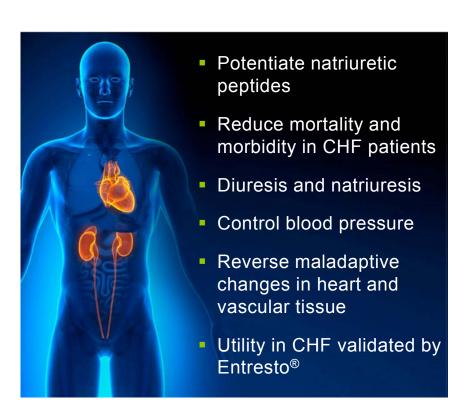
Program	Phase 1	Phase 2	Phase 3	Filed	Approved
VIBATIV® (telavancin)					
• cSSSI, HABP/VABP					
sNDA Concurrent Bacteremia & cSSSI					
sNDA Concurrent Bacteremia & HABP/VABP					
Phase 3 Registrational Study – Bacteremia					
Revefenacin (TD-4208)					
 Phase 3 Efficacy Studies (2) – COPD 					
 Phase 3 Long-Term Safety Study – COPD 					
TD-0714 (NEP Inhibitor)					
Phase 1 Study					
TD-1473 (JAK Inhibitor)					
Phase 1 Study					

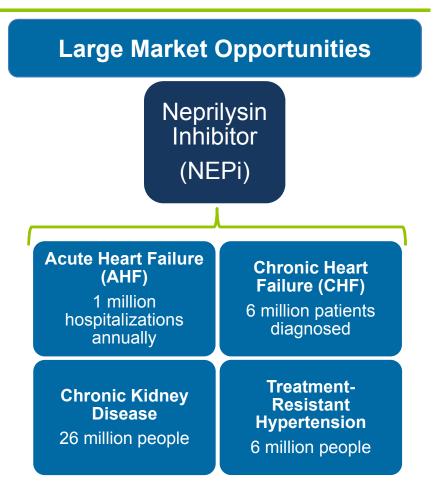


Neprilysin Inhibitor (NEPi) Program
Potential Best-in-Class Therapeutic for
Cardiovascular and Renal Disease

Best-in-Class NEPi Could Improve Treatment Regimens for Cardiovascular & Renal Diseases

Utility of NEP Inhibitors (NEPi)

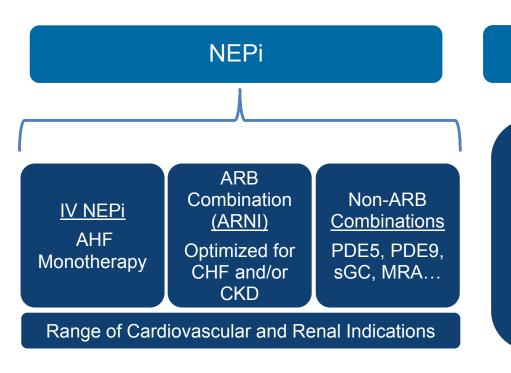




Significant opportunity remains for a next-generation NEP inhibitor offering once-daily dosing, combination flexibility and enhanced tolerability



TBPH NEPi Program: Differentiated & Versatile Platform with Potential for Broad Applicability Beyond CHF



Potential Points of Differentiation

- Non-renally cleared
- Potential once-daily dosing
- Oral and IV administration
- Flexibility to co-formulate or coadminister

Phase 1 Clinical Trial Initiated December 2015
Additional development candidates advancing
Key value inflection Phase 1/2a





TD-1473

Oral GI-Targeted Pan-JAK Inhibitor for Ulcerative Colitis and Other Inflammatory Intestinal Diseases

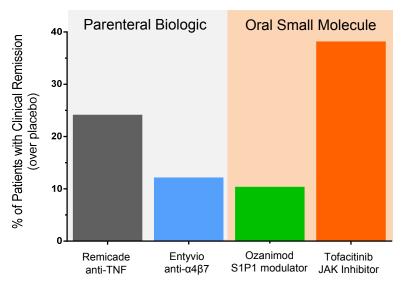
Significant Need Remains for Therapies to Treat Moderate to Severe Ulcerative Colitis (UC)

UC is a Complex Disorder Involving Multiple Inflammatory Mediators



- ~700K patients in the US¹
- Current medicines have limited efficacy, lose efficacy over time and carry risk for infectious and malignant adverse effects

Robust Clinical Remission of UC with JAK Inhibition

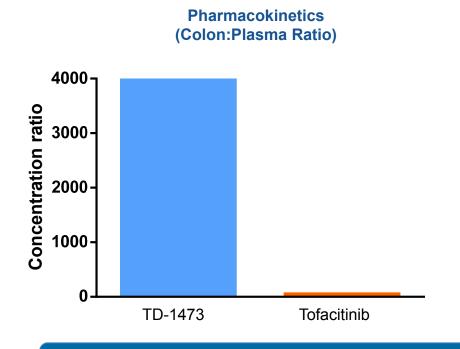


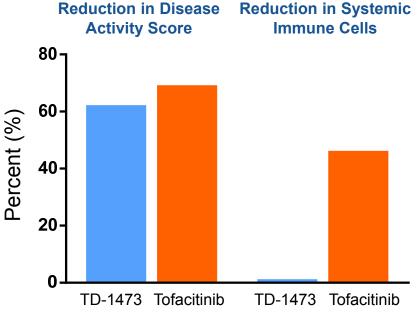
- JAK inhibitors currently under development for UC may carry systemic liabilities
- An oral, GI-targeted JAK inhibitor may offer superior efficacy and safety with minimal side effects

TD-1473: Oral GI-Targeted JAK Inhibitor with the Potential for Robust Efficacy and Minimal Side Effects



TD-1473 is Active in Rodent Colitis Model without Systemic Effects





Phase 1 Clinical Trial Initiated December 2015



Revefenacin (TD-4208)

Nebulized Long-Acting Muscarinic Antagonist (LAMA)

Compelling Need for Once-Daily Nebulized LAMA

Enduring Patient Niche and Significant Market Opportunity

Unmet Need for Nebulized LAMA Therapy

- Once-daily LAMAs are first-line therapy for moderate to severe COPD¹
- No nebulized LAMAs available today; only available in handheld devices

Enduring Patient Niche with Potential for Premium Pricing

- >100M patient treatment days in nebulized COPD segment³
- 9% of COPD patients currently use nebulizers for ongoing maintenance therapy²
- 41% of COPD patients use nebulizers at least occasionally for bronchodilator therapy²
- Pricing in branded LA nebulized segment ~ 2x premium to handheld Spiriva³

Significant Market Opportunity

- Revefenacin complementary to existing nebulized LABA treatment options
- Mylan brings commercial strength in nebulized segment



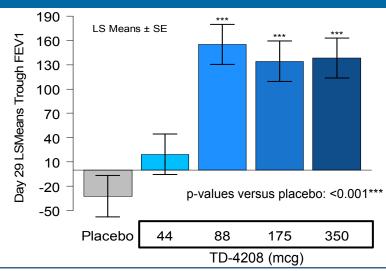
Revefenacin (TD-4208) Phase 3 Program

Phase 3 Program

- Two replicate 3-month efficacy studies expected to read-out in Q3 2016
- Single 12-month safety study expected to read-out in 2017
- ~2,300 patients across three studies
- Studies will test two doses: 88 mcg and 175 mcg administered once-daily

Phase 2b Study 0117 Met Primary Endpoint at 88 mcg and Above

- 355 patients with moderate to severe COPD
- Primary endpoint: Change from baseline in trough FEV₁ following 28 days



Strategic Collaboration with Mylan

Nebulized Revefenacin for COPD and Other Respiratory Diseases

Mylan Brings Commercial Strength in Nebulized Segment

- A world-leader in nebulized therapy
- Expert in manufacturing and marketing of respiratory products

Significant Funding for Theravance Biopharma

- \$15M initial payment and \$30M equity investment
- Up to \$220M in development/commercialization milestones
- TBPH leads US development; fully-funded by Mylan¹
- Profit share in US; double-digit royalties ex-US



VIBATIV® (telavancin)
Commercial, Once-Daily, Dual Mechanism Antibiotic

What is VIBATIV®?

First FDA approved lipoglycopeptide exhibiting concentration-dependent bactericidal activity via a dual mechanism of action that inhibits cell wall synthesis and disrupts membrane barrier function

Active against Gram-positive bacteria, including methicillin-resistant Staphylococcus aureus (MRSA)

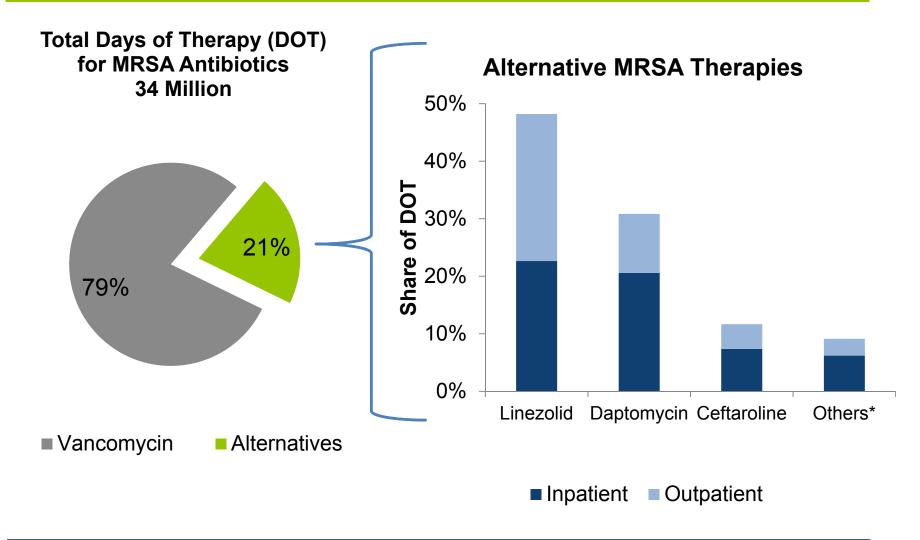
Intravenously administered; once-daily dosing



Approved in the U.S. for treatment of the following infections in adult patients caused by designated susceptible bacteria:

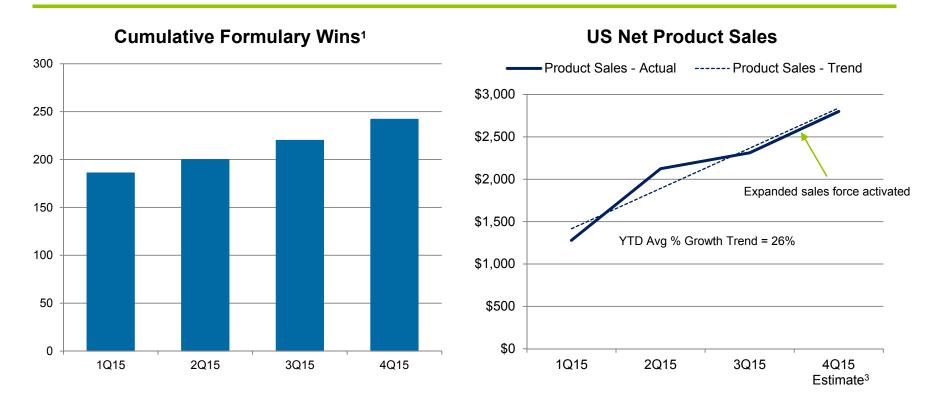
- Complicated skin and skin structure infections (cSSSI)
- Hospital-acquired and ventilator-associated bacterial pneumonia (HABP/VABP) caused by susceptible isolates of Staphylococcus aureus when alternative treatments are not suitable

Opportunity Exists for VIBATIV® Among Alternative MRSA Therapies in Current U.S. Market



VIBATIV® Commercialization

Steady Growth in Formulary Wins and Product Sales



Physicians use VIBATIV when²

• "other agents fail"

- "need rapid bactericidal activity"
- "patients have multiple comorbidities"
- "cases have documented resistance"

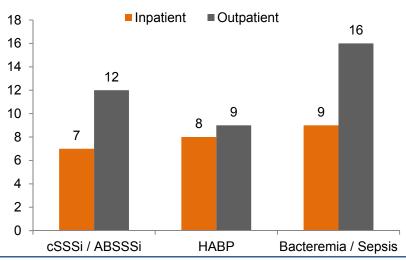


VIBATIV®: Building a Global Brand

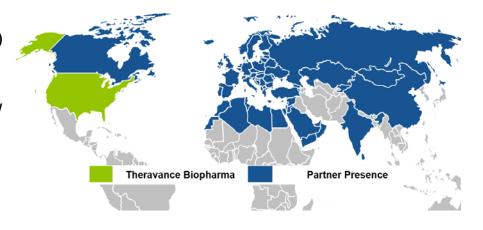
Opportunity for Broadest Set of Indications of Any Branded Anti-MRSA Agent

- sNDA submitted for concurrent bacteremia and HABP/VABP or cSSSI (PDUFA: Q2 2016)
- Phase 3 Registrational Study in Bacteremia
 - ~250 patients, ~70 clinical sites in US & ROW
 - Expected to complete 2017

Average Days of Therapy (DOT)¹



Leveraging Regional Partnerships to Expand Commercial Reach



- Multiple partnerships in large and growing ex-US markets, including China and India
- Recent marketing authorizations in Canada and Russia; launches expected in 2016





Theravance Biopharma Opportunities for Value Creation

Upcoming Key Milestones

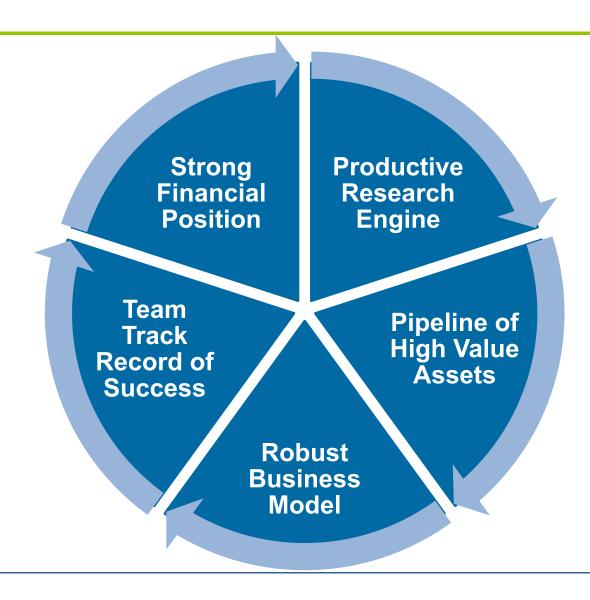
Priority Programs:

Program	Milestone	Target
TD-0714 (NEP inhibitor)	Complete Phase 1 (incl. target engagement)	2016
TD-1473 (JAK inhibitor)	Complete Phase 1	2016
Revefenacin (TD-4208)	Complete Phase 3 Efficacy Studies	2016
Revefenacin (TD-4208)	Complete Phase 3 LTSS	2017
VIBATIV® (telavancin)	Concurrent Bacteremia & HABP/VABP or cSSSI PDUFA	2016
Telavancin	Complete Phase 3 Bacteremia Study	2017

Financial Assets:

Program	Milestone	Target
Closed Triple (FF/UMEC/VI)*	Complete Phase 3 FULFIL Study	2016
Closed Triple (FF/UMEC/VI)*	EU Regulatory Filing	2016
Closed Triple (FF/UMEC/VI)*	Complete Phase 3 IMPACT Study	2017
Closed Triple (FF/UMEC/VI)*	US Regulatory Filing	2018

Theravance Biopharma Investment Highlights



About VIBATIV® (telavancin)

VIBATIV was discovered internally in a research program dedicated to finding new antibiotics for serious infections due to *Staphylococcus aureus* and other Gram-positive bacteria, including MRSA. VIBATIV is a bactericidal, once-daily, injectable lipoglycopeptide antibiotic with in vitro potency and a dual mechanism of action whereby telavancin both inhibits bacterial cell wall synthesis and disrupts bacterial cell membrane function.

VIBATIV for injection is approved in the U.S. for the treatment of adult patients for complicated skin & skin structure infections (cSSSI) caused by susceptible isolates of Gram-positive bacteria, including *Staphylococcus aureus*, both methicillin-susceptible (MSSA) and methicillin-resistant (MRSA) strains. In addition, VIBATIV telavancin is approved in the U.S. for the treatment of adult patients with hospital-acquired and ventilator-associated bacterial pneumonia (HABP/VABP) caused by susceptible isolates of *Staphylococcus aureus* when alternative treatments are not suitable.

VIBATIV is indicated in Canada and Russia for complicated skin & skin structure infections and HAP/VAP caused by Gram-positive bacteria, including MRSA.

VIBATIV is indicated in the European Union for the treatment of adults with nosocomial pneumonia (NP) including ventilator associated pneumonia (VAP), known or suspected to be caused by methicillin resistant *Staphylococcus aureus* (MRSA) and should be used only in situations where it is known or suspected that other alternatives are not suitable.



VIBATIV® (telavancin)

Important Safety Information (US)

Mortality

Patients with pre-existing moderate/severe renal impairment (CrCl ≤50 mL/min) who were treated with VIBATIV® for hospital-acquired bacterial pneumonia/ventilator-associated bacterial pneumonia had increased mortality observed versus vancomycin. Use of VIBATIV in patients with pre-existing moderate/severe renal impairment (CrCl ≤50 mL/min) should be considered only when the anticipated benefit to the patient outweighs the potential risk.

Nephrotoxicity

New onset or worsening renal impairment occurred in patients who received VIBATIV. Renal adverse events were more likely to occur in patients with baseline comorbidities known to predispose patients to kidney dysfunction and in patients who received concomitant medications known to affect kidney function. Monitor renal function in all patients receiving VIBATIV prior to initiation of treatment, during treatment, and at the end of therapy. If renal function decreases, the benefit of continuing VIBATIV versus discontinuing and initiating therapy with an alternative agent should be assessed.

Fetal Risk

Women of childbearing potential should have a serum pregnancy test prior to administration of VIBATIV. Avoid use of VIBATIV during pregnancy unless the potential benefit to the patient outweighs the potential risk to the fetus. Adverse developmental outcomes observed in three animal species at clinically relevant doses raise concerns about potential adverse developmental outcomes in humans. If not already pregnant, women of childbearing potential should use effective contraception during VIBATIV treatment.

Contraindication

Intravenous unfractionated heparin sodium is contraindicated with VIBATIV administration due to artificially prolonged activated partial thromboplastin time (aPTT) test results for up to 18 hours after VIBATIV administration.

VIBATIV is contraindicated in patients with a known hypersensitivity to the drug.

Hypersensitivity Reactions

Serious and potentially fatal hypersensitivity reactions, including anaphylactic reactions, may occur after first or subsequent doses. VIBATIV should be used with caution in patients with known hypersensitivity to vancomycin.

Geriatric Use

Telavancin is substantially excreted by the kidney, and the risk of adverse reactions may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection in this age group.

Infusion Related Reactions

VIBATIV is a lipoglycopeptide antibacterial agent and should be administered over a period of 60 minutes to reduce the risk of infusion-related reactions. Rapid intravenous infusions of the glycopeptide class of antimicrobial agents can cause "Red-man Syndrome" like reactions including: flushing of the upper body, urticaria, pruritus, or rash.

QTc Prolongation

Caution is warranted when prescribing VIBATIV to patients taking drugs known to prolong the QT interval. In a study involving healthy volunteers, VIBATIV prolonged the QTc interval. Use of VIBATIV should be avoided in patients with congenital long QT syndrome, known prolongation of the QTc interval, uncompensated heart failure, or severe left ventricular hypertrophy.

Most Common Adverse Reactions

The most common adverse reactions (greater than or equal to 10% of patients treated with VIBATIV) were diarrhea, taste disturbance, nausea, vomiting, and foamy urine. Full Prescribing Information, including Boxed Warning and Medication Guide in the U.S., is available at www.VIBATIV.com.





Thank You



Back-Up



VIBATIV® (telavancin)

Why Physicians Choose VIBATIV®

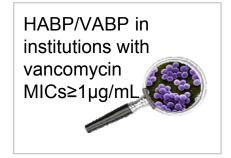
In Vitro Activity

- Dual Mechanism of Action; Bactericidal against clinically important Gram+ organisms
- Active against S. aureus strains with reduced susceptibility to other agents
 - VAN MIC ≥ 1 µg/mL
 - VISA, hVISA strains
 - Daptomycin and linezolid-resistant
- No resistance detected in bacterial strains in Phase 2 and 3 cSSSI and HABP/VABP clinical programs; resistance rarely reported during marketed use.

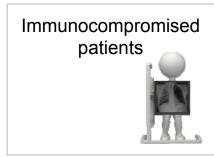
Clinically Relevant

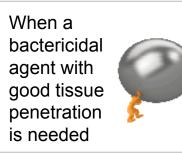
- Penetration into important sites of infection, including the lung
- Drug levels remain above the MIC₉₀ for MRSA over 24 hours
- Clinical efficacy shown in largest HABP/VABP studies to date in a broad population of patients with multiple co-morbidities
- Convenience of once daily dosing (with no required therapeutic dose monitoring)
- Safety profile characterized in large clinical studies in both cSSSI and HABP/VABP

Patient Need Driving Utilization



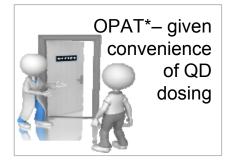














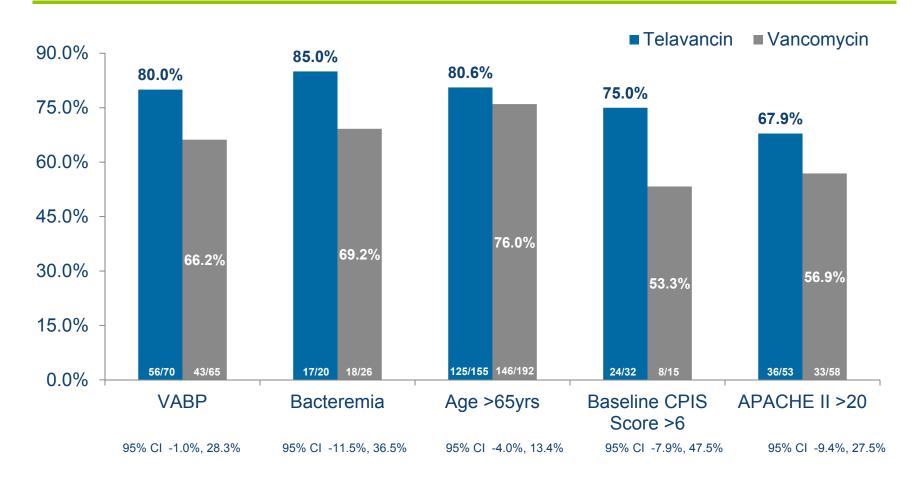
Telavancin Cure Rates

Phase 3 HABP/VABP Clinical Trial Results

Study Population	ATT	AIN 1	ATTAIN 2		COMBINED	
Study Population	TLV	VAN	TLV	VAN	TLV	VAN
All-Treated (AT)	57.5% (214/372)	59.1% (221/374)	60.2% (227/377)	60.0% (228/380)	58.9% (441/749)	59.5% (449/754)
Difference (95% CI)	-1.6% (-8	.6%, 5.5%)	0.2% (-6.8%, 7.2%)		-0.7% (-5.6%, 4.3%)	
Clinically Evaluable (CE)	83.7% (118/141)	80.2% (138/172)	81.3% (139/171)	81.2% (138/170)	82.4% (257/312)	80.7% (276/342)
Difference (95% CI)	3.5% (-5.	1%, 12.0%)	0.1% (-8.2	2%, 8.4%)	1.7% (-4.3%	% , 7.7%)

Microbiologically Evaluable (ME)	TLV % Cure	VAN % Cure	% Difference (TLV – VAN; 95% CI)
Single Gram-positive (only)	84.0 (147/175)	75.9 (132/174)	8.1 (-0.2%, 16.5%)
MRSA (only)	80.2 (73/91)	74.1 (86/116)	6.1 (-5.3%, 17.5%)
S. aureus with VAN MIC ≥ 1 µg/mL	85.7 (78/91)	74.5 (79/106)	11.2 (0.2%, 22.2%)

Activity in Clinically Relevant HABP/VABP Subgroups Pooled Clinical Cure Rates in Phase 3 Trials (CE population)





VIBATIV®: Potential for **Broadest Set** of Indications Among Branded Anti-MRSA Agents

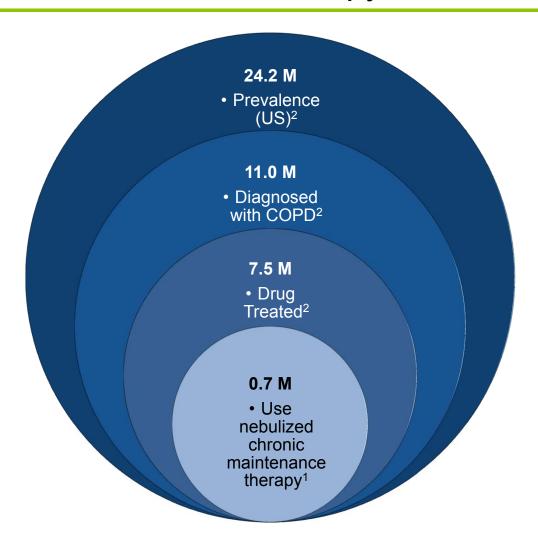
Compound	SSSI ¹	Primary Indication HABP/VABP	Bacteremia
telavancin	✓	✓	Registrational Study
ceftaroline ²	✓		
dalbavancin	✓		
daptomycin	✓		✓
linezolid	✓	✓	
oritavancin	✓		
tedizolid	✓		



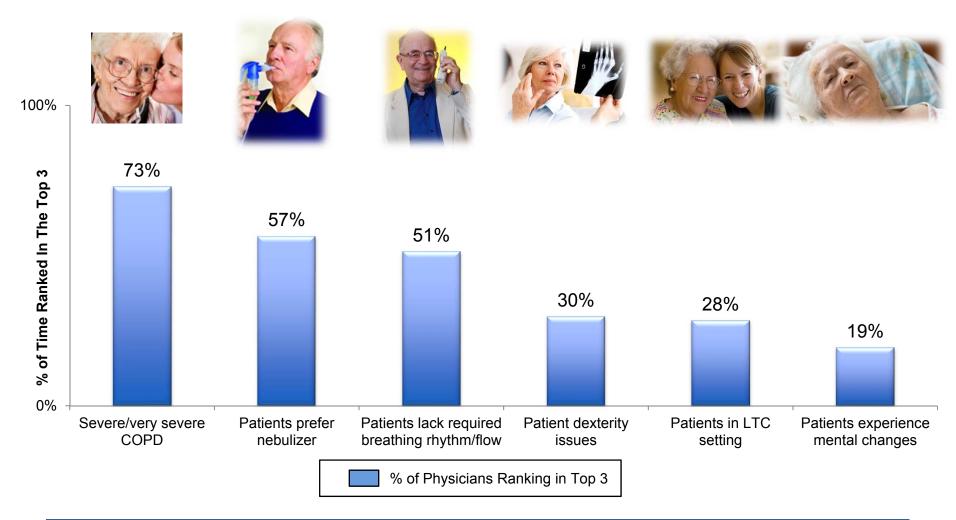


Revefenacin (TD-4208)

Despite Limited Options, 9% of Treated COPD Patients in the U.S. Use Nebulized Therapy on Enduring Basis¹



Physicians Readily Identify Patients Appropriate for Nebulizer Therapy



Limited Nebulized Bronchodilators for COPD Available

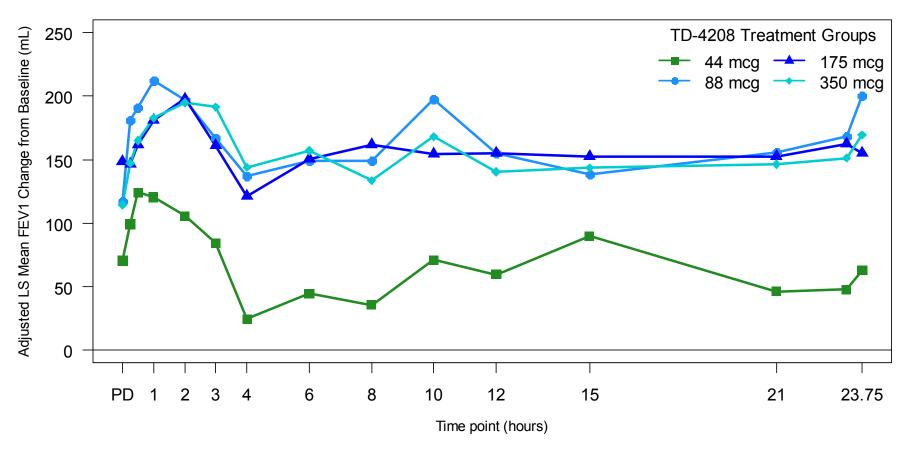
No Nebulized LAMAs and No Once-daily Products of any Class

Frequency	Class	Handheld segment	Nebulized segment
	SAMA	✓	✓
4x daily	SABA	✓	✓
	SAMA/SABA	✓	✓
Ov doily	LAMA	✓	
2x daily	LABA	✓	✓
	LAMA	✓	
1x daily	LABA	✓	
	LAMA/LABA	✓	

First-in-Class Opportunity
No once-daily marketed nebulized bronchodilators
No once-daily nebulized bronchodilators in development
The only twice-daily LAMA in development is restricted to one nebulizer

Revefenacin (TD-4208) Showed Sustained 24-hour Duration of Action Following Once-daily Dosing

Effects Maintained throughout 4-week Dosing Period



Placebo-adjusted change from baseline in FEV₁ on Day 28





Axelopran

Axelopran Aims to Offer a Differentiated Product Once-daily Oral PAMORA for Opioid-Induced Constipation

Evolving Treatment Class

- PAMORAs offer targeted peripheral efficacy without altering central analgesia
- Regulatory path to approval has been clarified
- Recent product approvals will help build the market

Patient Need Exists

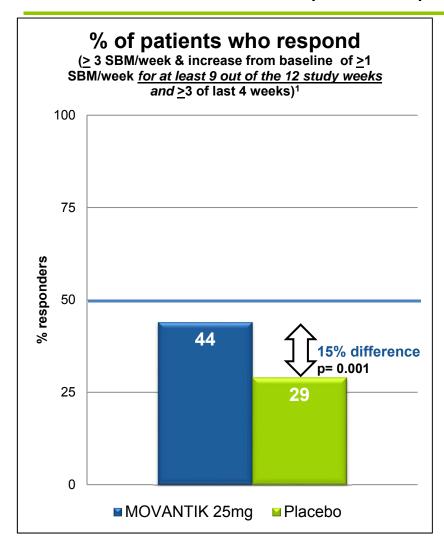
- Over the counter laxatives are ineffective in the majority of patients
- 71%¹ of OIC patients using common constipation treatments report failure to achieve relief

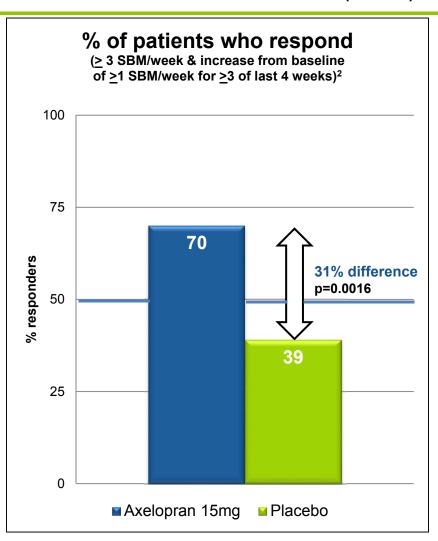
Axelopran Differentiation

- Axelopran aims to restore normal bowel function and reduce symptoms
- Encouraging early data for fixed dose combination



Axelopran Phase 2 Data Shows Potential for Differentiation Current Benchmark=Improved Spontaneous Bowel Movements (SBM)





^{41 2.} Phase 3 axelopran study will include an evaluation comparable to that done for MOVANTIK in Phase 3, including an increase of ≥1 SBM/week for at least 9 out of 12 weeks and >3 of the last 4 weeks of treatment

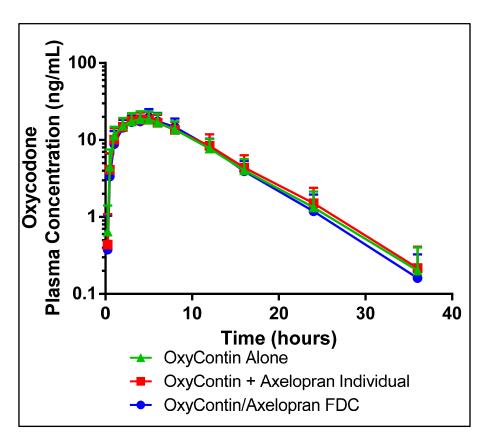


KODIAK-04 Study

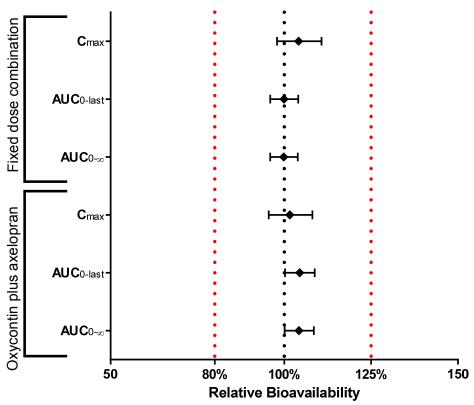
Substantial Commercial Potential for Opioid/ Axelopran Fixed Dose Combinations (FDC)

- ➤ FDC offers the opportunity for pain relief without constipation in a single abuse-deterrant pill
 - Could represent a paradigm shift in opioid treatment
- TBPH has developed a proprietary spray-coating formulation
 - Enabled by the intrinsic properties of axelopran
 - Technique could be applied to a broad range of abuse resistant opiates
- First study of spray-coat application of axelopran to OxyContin®
 - Designed to evaluate effect of axelopran on oxycodone exposure

Axelopran Did Not Significantly Alter Systemic Exposure to OxyContin[®] When Delivered as a FDC Relative vs. Co-Administered as Individual Tablets



Oxycodone Relative Bioavailability to Reference (Reference = OxyContin Alone)





Closed Triple

Economic Interest in GSK Respiratory Programs Opportunity for "Triple Therapy"

85% economic interest¹ in future payments made by GSK from certain potential respiratory products:

- "Closed Triple" (FF/UMEC/VI): Upward-tiering royalty 6.5% 10% of annual global net sales
- MABA Monotherapy (GSK961081 or '081): 10% to 20% of annual global net sales up to \$3.5 billion, and 7.5% for all annual global net sales above \$3.5 billion
- MABA Combination² ('081/FF): 70% of rate applicable to sales of single-agent MABA

No investment required by Theravance Biopharma

- Programs jointly managed by GSK and Innoviva, Inc.³; fully funded by GSK
- Phase 3 IMPACT study in 10,000 patients underway; targeted to read-out 2017⁴
- Phase 3 FULFIL study in 1,800 patients enrolling; targeted to read-out 2016⁴
- Two positive Phase 3 studies completed in "open" triple therapy



GSK/Innoviva¹ Closed Triple Addresses a Significant, Growing and High Value Patient Segment

- ▶ 18% of prescribed COPD regimens include co-Rx for LAMA+LABA/ICS¹
- ▶ Patients on triple therapy constitute highest value/greatest need segment
 - Patients represent >40% of total LAMA and LABA/ICS COPD sales or \$2.1B out of \$4.6B total annual US sales of LAMA and LABA/ICS products for COPD^{2,3}
 - Triple patients have more symptoms + higher exacerbation risk. Greater disease burden for patient and healthcare system = greater value for treatment success
- → GSK/Innoviva¹ have the only QD closed triple in late stage development

