

**INVESTOR PRESENTATION** 

SEPTEMBER 2024 NASDAQ: TFFP

## Safe Harbor Statement



#### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This document contains forward-looking statements concerning TFF Pharmaceuticals, Inc. ("TFF", "TFF Pharmaceuticals", the "Company," "we," "us," and "our"). The words "believe," "may," "will," "potentially," "estimate," "continue," "anticipate," "intend," "could," "would," "project," "plan," "expect" and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. These forward-looking statements include, but are not limited to, statements concerning the following:

- The benefits of our TFF platform;
- Advancement of TFF TAC and TFF VORI into potentially registration-enabling studies;
- TFF TAC's and TFF VORI's substantial market opportunity;
- The expectation that the further data from the ongoing Phase 2 clinical trial for TFF TAC will be consistent with the data readouts for such product candidate to date; and
- Our exploration of strategic alternatives for TFF VORI, including partnering opportunities, collaborations, and government-based funding sources.

Those forward-looking statements involve known and unknown risks, uncertainties and other factors that could cause actual results to differ materially. Among those factors are: (i) the risk that the further data from the ongoing Phase 2 clinical trial for TFF TAC will not be favorably consistent with the initial data readouts, (ii) the risk that the Company may not be able to obtain additional working capital with which to continue the Phase 2 clinical trial and or advance to the initiation of registration-enabling studies, for TFF TAC as and when needed, (iii) the risk that we may not be able to advance to registration-enabling studies for TFF TAC, (iv) the risk we may not be successful in our pursuit of strategic alternatives for TFF VORI; (v) success in early phases of pre-clinical and clinicals trials do not ensure later clinical trials will be successful; (vi) no drug product incorporating the TFF platform has received FDA pre-market approval or otherwise been incorporated into a commercial drug product, (vii) the Company has no current agreements or understandings with any large pharmaceutical companies for the development of a drug product incorporating the TFF platform, and (viii) those other risks disclosed in the section "Risk Factors" included in the Company's Annual Report on Form 10-Q filed with the SEC on August 14, 2024 and subsequently filed reports. TFF Pharmaceuticals cautions readers not to place undue reliance on any forward-looking statements. TFF Pharmaceuticals does not undertake, and specifically disclaims, any obligation to update or revise such statements to reflect new circumstances or unanticipated events as they occur, except as required by law.

This document contains only basic information concerning TFF. Because it is a summary it does not contain all of the information you should consider before investing. Please refer to our reports and registration statements on file with the SEC for more comprehensive information concerning TFF Pharmaceuticals.

## **Investment Highlights**



#### Thin Film Freezing (TFF)

- Unique technology for generation of dry powder formulations optimized for inhalational delivery
  - Driving efficacy and minimizing systemic toxicities
- Over 170 patents issued or pending

### **Strong Internal Pipeline**

- TFF TAC (Tacrolimus Inhalation Powder) for lung transplantation with >\$2 billion annual peak sales potential
- TFF VORI (Voriconazole Inhalation Powder) for serious pulmonary fungal infections with >\$1 billion annual peak sales potential

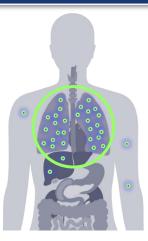
### **Experienced, Accomplished Management**

- CEO Harlan Weisman, M.D. >30 years of senior executive healthcare experience at both industry leaders and earlier-stage firms
- Talented, industry recognized leaders in senior research and development, and scientific advisory positions along with Board of Directors

### Catalysts - Recent & Upcoming

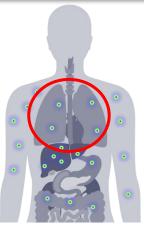
- Favorable efficacy, safety and tolerability reported in both programs
- 2025Q2 TFF TAC initial data in new randomized Phase 2 trial
- 2025Q4 TFF TAC top-line data in new Phase 2 trial
- TFF VORI Phase 3 ready asset exploring value realization opportunities

#### **TFF - Inhaled**



Higher efficacy, Lower adverse events

#### **Existing Care - Oral**



Lower efficacy, Higher adverse events

## **TFF Leadership**





#### Harlan F. Weisman, M.D. | Chief Executive Officer

- More than 30 years experience as a senior healthcare executive
- Former CEO of Flame Biosciences and Coronado Biosciences
- Former Group Company Chairman and President of J&J Pharmaceutical R&D



### Zamaneh Mikhak, M.D. | Chief Medical Officer

- Physician-scientist, board certified in Allergy/ Immunology, with extensive clinical, drug development, and basic and translational research experience
- Previously served in senior clinical research & development roles at Cogent Biosciences, Boston Pharmaceuticals, Kiniksa Pharmaceuticals



### Kirk Coleman | Chief Financial Officer

- Over 20 years of financial and accounting experience
- Previously served as an executive officer of Steelhead Capital Management, LLC and Bios Partners, LP



### Anthony Hickey, Ph.D. | Senior Scientific Advisor and Chairman of the Scientific Advisory Committee

- Professor Emeritus in Pharmacoengineering & Molecular Pharmaceutics at UNC Chapel Hill
- Former CEO of Cirrus Pharmaceuticals and CSO of Oriel Therapeutics; author of multiple texts on inhalation and pharmaceutical process engineering

## **Recent Government Collaborations**



#### **September 11, 2024**

TFF Pharmaceuticals partners with Emory University and the Biomedical Advanced Research and Development Authority (BARDA) to test the feasibility of converting Emory's mRNA-based Cas13a antiviral against influenza A and B and SARS-CoV-2 into a dry powder formulation for more precise inhalational delivery, improved stability and widespread distribution without the need for cold-chain storage.





#### June 26, 2023

TFF Pharmaceuticals awarded \$2.97 million by the National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institute of Health (NIH), to develop a universal influenza vaccine using the company's Thin Film Freezing technology.







#### May 4, 2023

TFF Pharmaceuticals enters into CRADA with the National Institute of Environmental Health Sciences (NIEHS) to develop dry powder formulations of Hyaluronan to prevent and treat respiratory diseases.





#### May 1, 2023

TFF Pharmaceuticals receives additional funding from Leidos to advance next generation countermeasures for military and healthcare personnel under the DARPA Personalized Protective Biosystems (PPB) program.





Recent grants and contracts with various government agencies is further validation of Thin Film Freezing's potential

## **Business Development Opportunities for TFF's Platform**



## **Internal Pipeline**

TFF TAC (inhaled tacrolimus dry powder)

TFF VORI (inhaled voriconazole dry powder)

#### **Vaccines**

 Reformulation and development of new vaccines for intranasal and inhalational delivery and eliminating need for cold chain supply requirements

## **Biologics**

mRNA

mAbs

• sRNA

- Peptides
- Bacteriophages
- Peptoids

#### Government

- NIEHS CRADA agreement to develop dry powder formulations of Hyaluronan to prevent and treat respiratory diseases
- DARPA/Leidos Personalized Protective Biosystem (PPB) contract to develop TFF-formulated medical countermeasures
- NIAID/Cleveland Clinic SBIR Direct to Phase II grant to develop a mucosal universal influenza vaccine
- BARDA/Emory mRNA contract to develop an inhaled influenza and COVID therapeutic

## **New Chemical Entities (NCEs)**

 Formulating new product opportunities for both small and large molecules

### **Academia**

 R&D collaborations with the Albert Einstein College of Medicine, Georgia Tech, Emory University and UPenn to develop biologics

## Thin Film Freezing Process



TFF technology enables the generation of dry powder formulations optimized for inhalational delivery via an easy-to-use dry powder inhaler

## **Bulk drug material**



## **Proprietary freezing process**

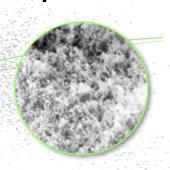


- ✓ Use proprietary combination of freezing rate and liquid surface to volume ratio
- ✓ Confers advantages in engineering particles for various routes of administration
- ✓ Stabilizes biologics not achievable with other process technologies

## Drying and lyophilization



## Brittle matrix powder



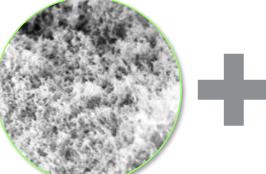
## **Inhalation Device for Lung Deposition**







Brittle matrix powder



Off the shelf commercial dry powder inhaler



Removal of protective cap



Open mouthpiece to access capsule housing



Insert capsule into housing



Close mouthpiece



Actuate pushbuttons to pierce the capsule and inhale



## **Near Term Clinical Pathways and Market Perspectives**



Asset	Platform	Indication	Pre- Clinical	Phase 1	Phase 2	Phase 3	Accomplished Milestones	Upcoming Catalysts
TFF TAC	Tacrolimus inhalation powder	Prophylaxis of organ rejection in lung transplant					<ul> <li>Positive initial P2 data reported Dec 2023</li> <li>Additional P2 data reported in March 2024</li> <li>Confirmatory P2 data released Aug 2024</li> </ul>	<ul> <li>2025Q2 TFF TAC initial data in new randomized P2 trial</li> <li>2025Q4 TFF TAC P2 topline data in new randomized P2 trial</li> </ul>
TFF VORI	Voriconazole inhalation powder	Serious pulmonary fungal infections					<ul> <li>Positive initial P2 data reported Dec 2023</li> <li>Additional P2 data reported in March 2024</li> </ul>	<ul> <li>P3 ready asset</li> <li>Evaluating value realization, partnership opportunities</li> </ul>

- TFF TAC top-line data from new randomized Phase 2 2025Q4
- >\$2 billion peak sales opportunity for TFF TAC<sup>1</sup>
- >\$1 billion peak sales opportunity for TFF VORI¹
- >70 granted U.S. & International patents; patent applications for TFF TAC & TFF VORI with patent term extending to 2043

# TFF TAC Clinical Development Tacrolimus Inhalation Powder Program

## **TFF TAC Direct-to-Lung Delivery**



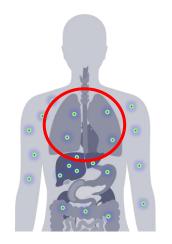
## TFF TAC is intended to optimize lung immune suppression at diminished systemic exposures = fewer systemic toxicities

## Oral Tacrolimus (existing SOC)

High unmet need – 50% mortality in 5 years<sup>1</sup> is driven by:

- Too little immune suppression in the lung:
  - Acute rejection
  - Chronic rejection
  - Chronic lung allograft dysfunction (CLAD)
- Too much immune suppression in the blood:
  - Chronic kidney disease
  - Infections

Post-transplant malignancies

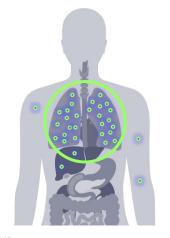


Lower efficacy, Higher adverse events

## **TFF TAC**

#### **TFF TAC vs. Oral Tacrolimus:**

- 3-4 times systemic bioavailability
- 3-4 times lung levels compared to blood levels<sup>2</sup>
- Diminished blood level variability



Higher efficacy, Lower adverse events

~40,000 new and existing patients worldwide<sup>3</sup>

≥\$2 billion peak TFF TAC global gross sales forecast4

- 1. J Heart Lung Transplant. 2019 October
- 2. Lung levels were compared with blood levels in the 28-day and 26-week toxicology studies in cynomolgus monkeys
- 3. UpToDate; OPTN, UNOS, and Transplant Literature
- Internal estimates

NASDAO: TFFP 4. Internal estimates 1

## **TFF TAC Optimized Formulation**



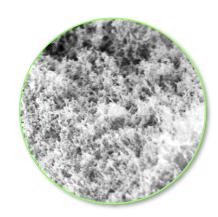
## TFF technology enables TAC delivery to the lung for higher efficacy

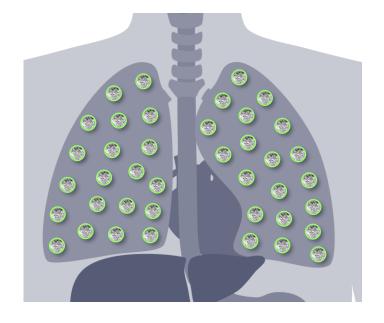
## **Optimal Formulation**

#### **Novel structure enables:**

- Light, highly porous, high surface area materialcotton candy like
- Expedited dissolution in the lung:
  - Undetected as foreign body by immune system higher concentration achieved in the lung
  - Rapid target engagement
- Far reach in the lung through optimized small particle size
- Higher TAC levels in lungs for a given blood level to lower toxicity

## Brittle matrix powder





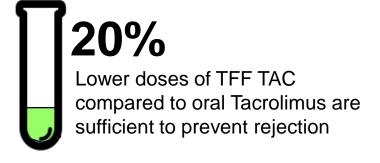
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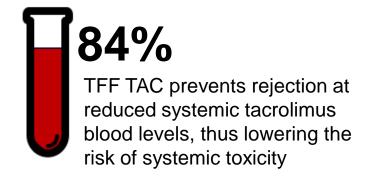
## **TFF TAC Key Takeaways**



## **Key Takeaways**

Phase 2 clinical data:





## **Efficacy**

- 14 patients transitioned from oral tacrolimus to TFF TAC; transition data available on 11 patients
- No evidence of acute rejection among 10 patients transitioned to TFF TAC per protocol:

10/10 patients who completed 12-week treatment chose to remain on TFF TAC and proceeded to long-term extension

## **Safety**

- No mortality
- One TFF TAC discontinuation
- Majority of TEAEs were Grade 2 or lower in severity
- Maintenance of kidney function

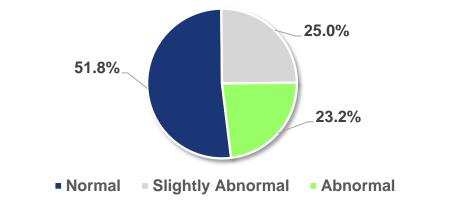
## Confirmatory Biomarker Data Suggest TFF TAC Provided Sufficient Immune Suppression For Prevention of Rejection



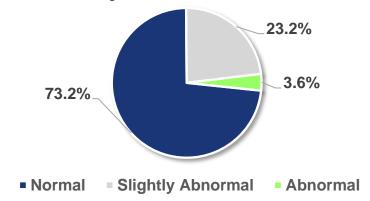
## Gene expression is a precursor to immune-based transplant rejection

- 6.5-fold (~85%) reduction in the number of abnormally expressed rejection-related gene sets after 12 weeks of treatment with TFF TAC
  - 23.2% abnormal on oral tacrolimus to only 3.6% abnormal on TFF TAC (85% reduction) in the expression of rejection-related genes
- Donor-specific antibodies (DSA), which drive antibody-mediated rejection and are generated when there is insufficient systemic immune suppression, were negative for the first 8 patients on oral tacrolimus, and DSA remained negative after 12 weeks of treatment with TFF TAC

### **Oral Tacrolimus: Rejection-Related Gene Sets**



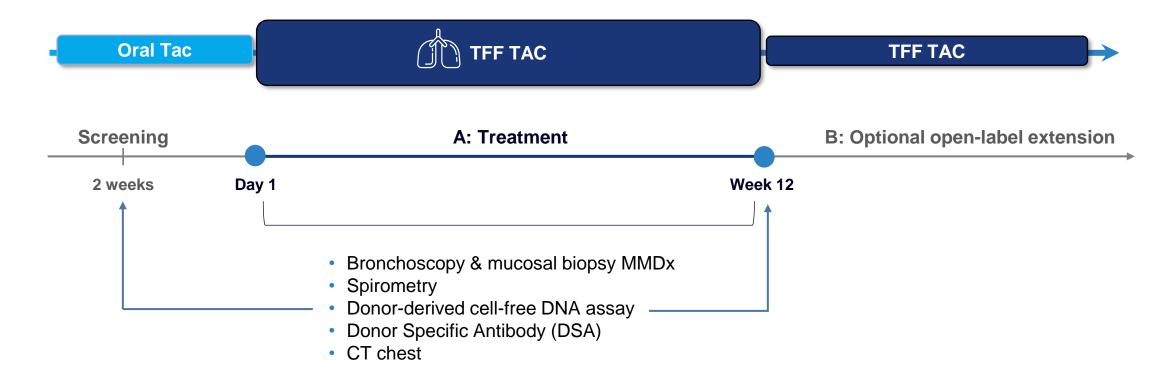
#### **TFF TAC:** Rejection-Related Gene Sets



## **TFF TAC: Phase 2 Study Design**



- Design: Open label study of TFF TAC in lung transplant recipients requiring reduced TAC blood levels due to renal toxicity
- **Duration:** Part A: 12 weeks; Part B: long-term extension
- Endpoints: Safety & tolerability, renal function, acute allograft rejection



## TFF VORI Clinical Development

Voriconazole Inhalation Powder Program

## **TFF VORI: Summary of Results**



## IPA is a pulmonary fungal infection with ~30% mortality in 12 weeks

## **Efficacy**

- Of the six patients treated for IPA with TFF VORI for at least 12 weeks:
  - Five patients achieved a clinical response (improvement in signs, symptoms and/or spirometry)
  - Five patients achieved a mycologic response (presumed or proven)
  - Three of four patients achieved a radiologic response (4 patients with abnormal baseline and follow up chest CT)
  - No need for continued anti-fungal use after treatment with TFF VORI in all six patients

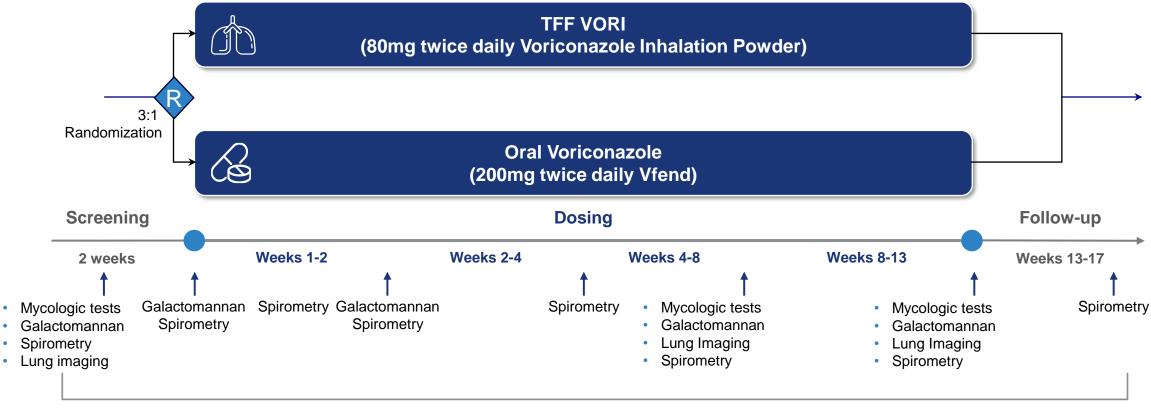
## Safety

- Of the 9 patients treated with TFF VORI for any length of time with follow-up safety data:
  - No mortality
  - One TFF VORI discontinuation due to an unrelated AE of COVID infection that required intubation
  - Majority of TEAEs were Grade 2 or lower in severity and deemed unrelated
  - No hepatic toxicity
  - No visual disturbances

## TFF VORI: Phase 2 Trial Design



- Design: Open label randomized study; TFF VORI vs. oral voriconazole
- **Duration:** 13 weeks of treatment
- **Endpoints:** Safety/tolerability, clinical response, radiologic response, mycologic response, all-cause mortality



# TFF VORI: Expanded Access Program (EAP)

- The Expanded Access Program (EAP) enrolls patients with the following diagnoses who have limited or no other treatment options or who have had an unfavorable response to adequate standard of care therapy:
  - Pulmonary aspergillosis:
    - Invasive pulmonary aspergillosis (IPA)
    - Chronic pulmonary aspergillosis (CPA)
    - Allergic bronchopulmonary aspergillosis (ABPA)
    - Aspergillus tracheobronchitis
    - Aspergillus bronchoanastomotic infection
  - Voriconazole responsive pulmonary fungal infections
- Yielded valuable positive results for the non-IPA cohorts as well



## **TFF Board and Advisors**



## **Board of Directors**

Harlan F. Weisman, M.D.

Chief Executive Officer

Johnson Johnson

**Thomas King** 

Director



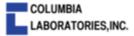
Catherine Lee, J.D.

Director



**Robert S. Mills** 

Director



**Brandi Roberts** 

Director



Stephen Rocamboli

Director



## **Scientific Advisory Board**

#### Anthony Hickey, Ph.D.

Senior Scientific Advisor, and Chairman of the Scientific Advisory Committee

#### David N. Cornfield, M.D.

Professor of Pulmonary Medicine, Stanford University

#### Prof. David Denning, FRCP, FRCPath, DCH, FMedSci

Professor of Infectious Diseases, University of Manchester

#### Jay Peters, M.D.

Chief of Pulmonary and Critical Care Medicine, University of Texas Health Science Center at San Antonio

#### Ted M. Ross, Ph.D.

Professor, Center for Vaccines and Immunology, Department of Infectious Diseases, University of Georgia

#### Mike Saag, M.D.

Professor of Medicine, University of Alabama at Birmingham

#### Drew Weissman, M.D., Ph.D.

Nobel Laureate; Roberts Family Professor, Vaccine Research at the Perelman School of Medicine, University of Pennsylvania

## **Key Takeaways**



Revolutionary platform enabling inhalable drug delivery across the entire spectrum of pharmaceutical agents, targeting combined \$3 billion+ markets – current market capitalization ~\$5 million



Proprietary Lung
Drug Delivery
Process

- Two proprietary drugs with combined >\$3 billion peak sales potential
- Novel molecular composition enables optimal drug delivery and activation



Strong Internal Pipeline

- 2025Q2 TFF TAC initial data in new randomized P2 trial
- 2025Q4 TFF TAC P2 topline data
- TFF VORI P3 ready asset exploring value realization, partnership opportunities



Broadly Applicable Platform

- Opportunities in biologics and vaccines
- Recent grants and contracts with government agencies further validates Thin Film Freezing's potential



Experienced Management; IP Protection

- Proven management team with large pharma experience & multiple successful exits
- Over 170 patents issued or pending



### **Investor & Media Relations:**

CORE IR Jason Nelson investorinfo@tffpharma.com

## **TFF TAC Additional Information**

Preclinical Data, Phase 1 Study Design, and Phase 1 Data

# TFF TAC: Preclinical and Phase 1 provided safety, tolerability, and pharmacokinetic data and enabled Phase 2 planning



## **Preclinical POC Data:**

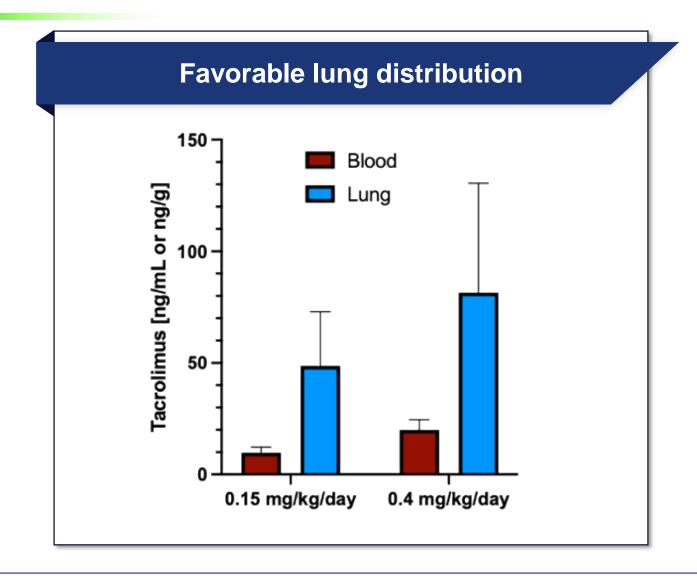
Inhaled tacrolimus was as efficacious in the prevention of rejection as oral tacrolimus in a rat trachea transplant model at reduced systemic exposures.<sup>1</sup>

## Phase 1 Data:

- Successfully completed single and multiple ascending dosing of TFF TAC in healthy subjects in Phase 1 trial
- Doses up to 5 mg (single dose) and 2 mg (repeated dose) daily were generally well tolerated

# TFF TAC Preclinical Data – Improved Drug Delivery to the Lung





## **Phase 1 Study Design**



## **Study Overview**

#### Design:

- Randomized, double-blind, placebo-controlled study of TFF TAC in 57 healthy adult volunteers
- Single ascending dose (SAD) and multiple ascending dose (MAD) phases

#### **Endpoints:**

- Safety and tolerability
- Pulmonary function
- Pharmacokinetics

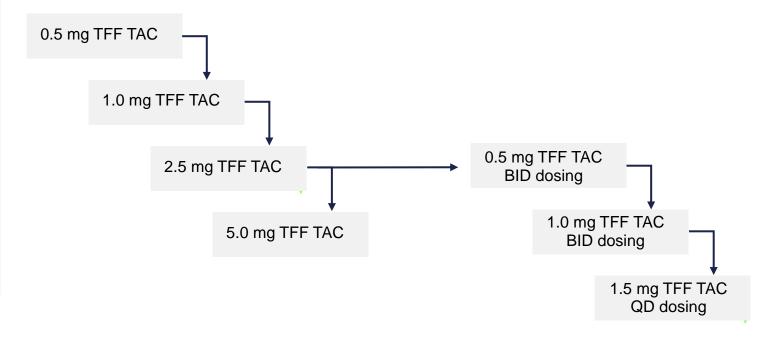
## Part A: Single Ascending Dose

N=32 healthy volunteers
3:1 active to placebo in each group



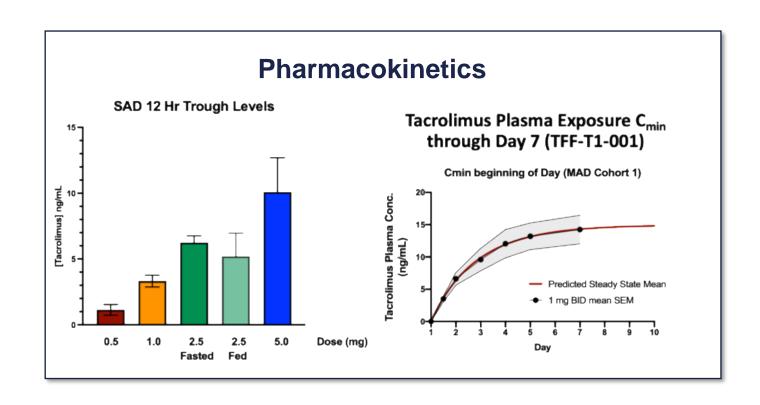
## Part B: Multiple Ascending Dose

N=25 healthy volunteers
3:1 active to placebo in each group



# Phase 1 Results Showed TFF TAC was Safe and Well-Tolerated and Had Systemic Bioavailability





## Safety

- Overall, TFF TAC was safe and welltolerated
- No dose-related increase in overall treatment-emergent adverse events (TEAEs) was observed

TFF TAC demonstrated favorable safety and tolerability with efficient pharmacokinetics

## TFF TAC: Baseline Characteristics and Demographics



Patient	Age (years)	Sex	Race	Years since transplant	CLAD	Years with kidney disease	Time on TFF Tac (weeks)	Disposition	
Pt 1	73	М	W	9	No	5	66.1	Completed Part A; proceeded to Part B	
Pt 2	73	F	W	8	No	6	57.1	Completed Part A; proceeded to Part B	
Pt 3	68	М	W	5	No	4	50.1	Completed Part A; proceeded to Part B	
Pt 4	67	F	W	3	No	2.5	37.1	Completed Part A; proceeded to Part B	
Pt 5	64	М	W	3	No	2.5	29.0	Completed Part A; proceeded to Part B	
Pt 6	52	F	W	23	No	7	26.1	Completed Part A; proceeded to Part B	
Pt 7	41	F	W	0.75	No	0.5	23.0	Completed Part A; proceeded to Part B	
Pt 8	56	М	NH	1.25	No	1	6.0	Study drug discontinued in Part A	
Pt 9	29	М	W	1.5	No	1.5	13.6	Completed Part A; proceeded to Part B	
Pt 10	55	М	W	4.5	No	4.5	12.0	Completed Part A; proceeded to Part B	
Pt 11	73	М	W	3	No	2.5	7.0	In Part A	
Pt 12	69	М	W	10	No	N/A	1.0	In Part A	

CLAD: chronic lung allograft dysfunction

W: white; F: female; M: male; NH: Native Hawaiian

N/A: not available

## Data Suggest TFF TAC Prevents Rejection at a Fraction Of Oral Tacrolimus Dose With Reduced Systemic Exposures



Patient	Stable daily oral Tacrolimus dose (mg)	Tacrolimus trough level on stable oral Tacrolimus (ng/ml)	Initial TFF TAC dose (mg)	Last trough level on initial dose of TFF TAC (ng/ml)	Stable TFF TAC dose (mg)	Tacrolimus trough blood levels on stable TFF TAC (ng/ml)	Time on stable dose (weeks)
Pt 1	5	5.6	1.5	5.1	0.75	2.4-3.0	55
Pt 2	1	3.9	1.5	13.6	0.25	2.2-3.9	56
Pt 3	5.5	4.6	0.75	3.2	0.75	4.4	11
Pt 4	2	4.5	0.75	3.9	0.5	2.6-3.8	28
Pt 5	3	5.1	0.5	4.0	0.375	2.4-3.1	25
Pt 6	3	3.8	0.75	4.8	0.5	3.2-3.6	10
Pt 7	13	5.4	1.5	6.2	1.5	4.5-6.9	23
Pt 8	6	8.9	0.5	2.1	NA	NA	NA
Pt 9	1	6	0.25	3.9	0.25	4.7-8.5	11
Pt 10	9	4.9	0.75	3.5	0.75	2.5-3.5	12
Pt 11	1	5.1	0.25	1.4	0.5	4.2-5.7	6
Pt 12	3	9.1					

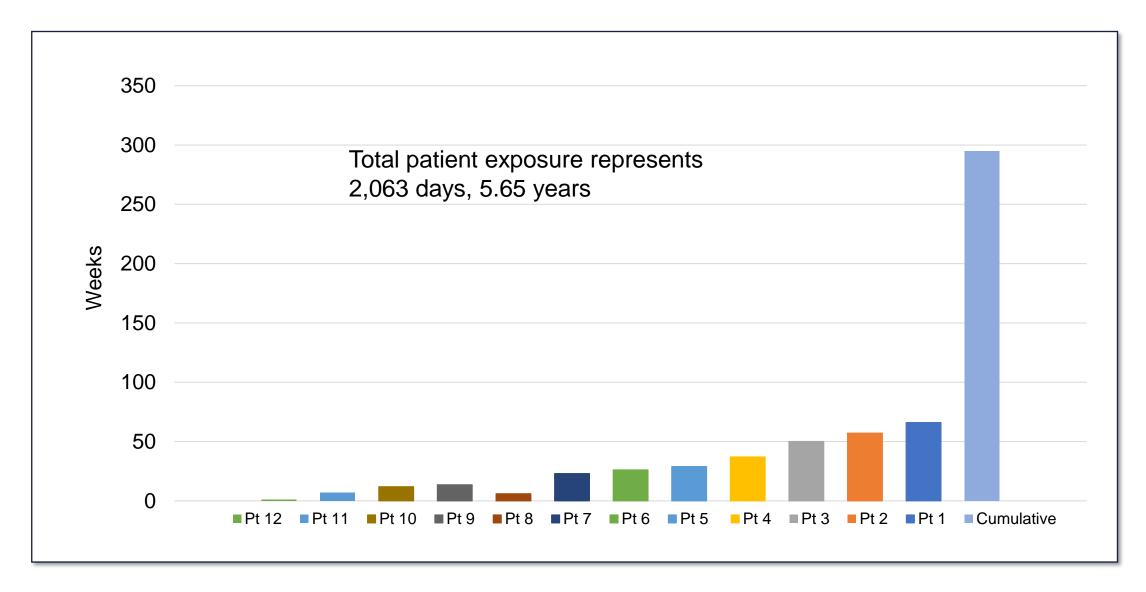
Mean Stable TFF TAC Dose /	Stable Trough Tacrolimus Blood Levels:		
Mean Stable Oral Tacrolimus Dose	TFF TAC / Oral Tacrolimus		
~20%	~84%		

Variability in metabolism contributes to individualized dosing with oral Tacrolimus and TFF TAC

NA: not applicable; Blank indicates data not yet available

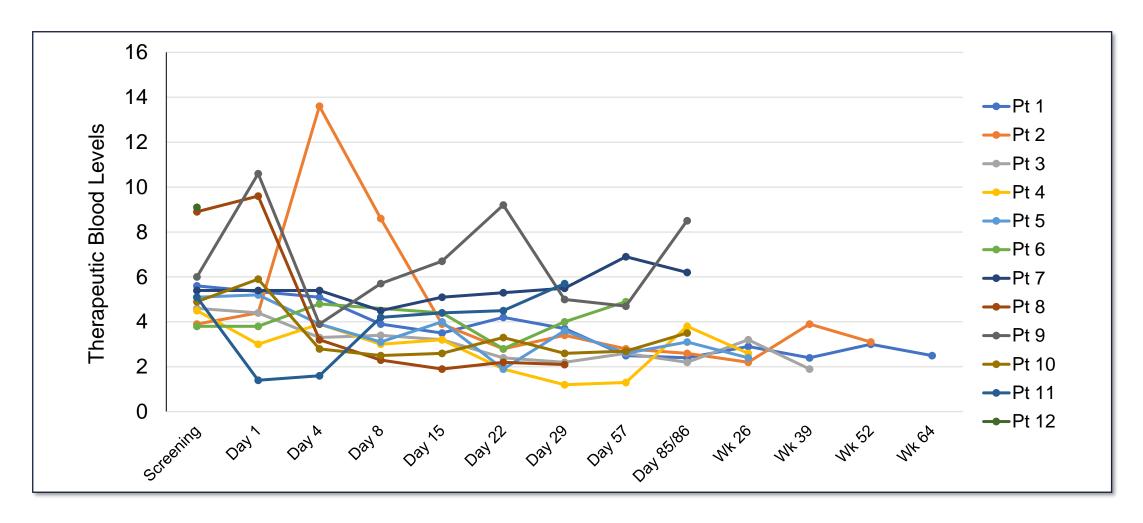
## **TFF TAC: Total Patient Exposure**





## **TFF TAC: Blood Trough Levels**

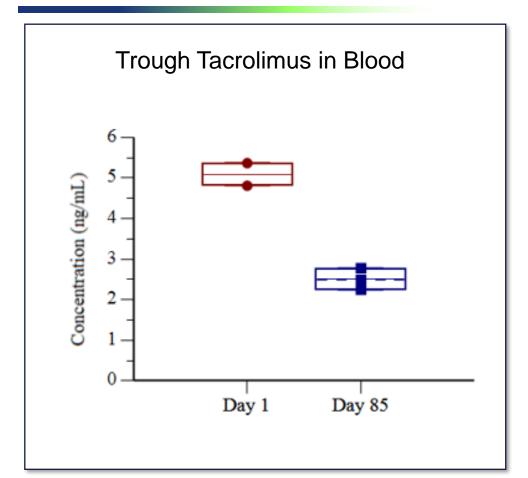


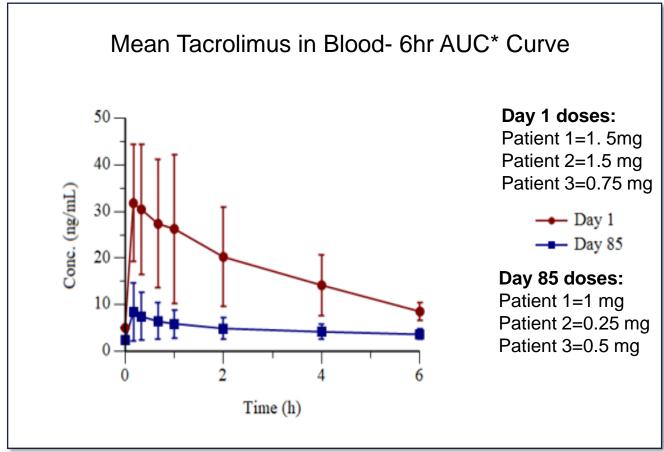


TFF TAC dose is reduced over time to protect the kidneys resulting in diminished tacrolimus blood levels

## Lower Doses of TFF TAC Result in Diminished Systemic Exposures and Less Pharmacokinetic Variability with Chronic Dosing



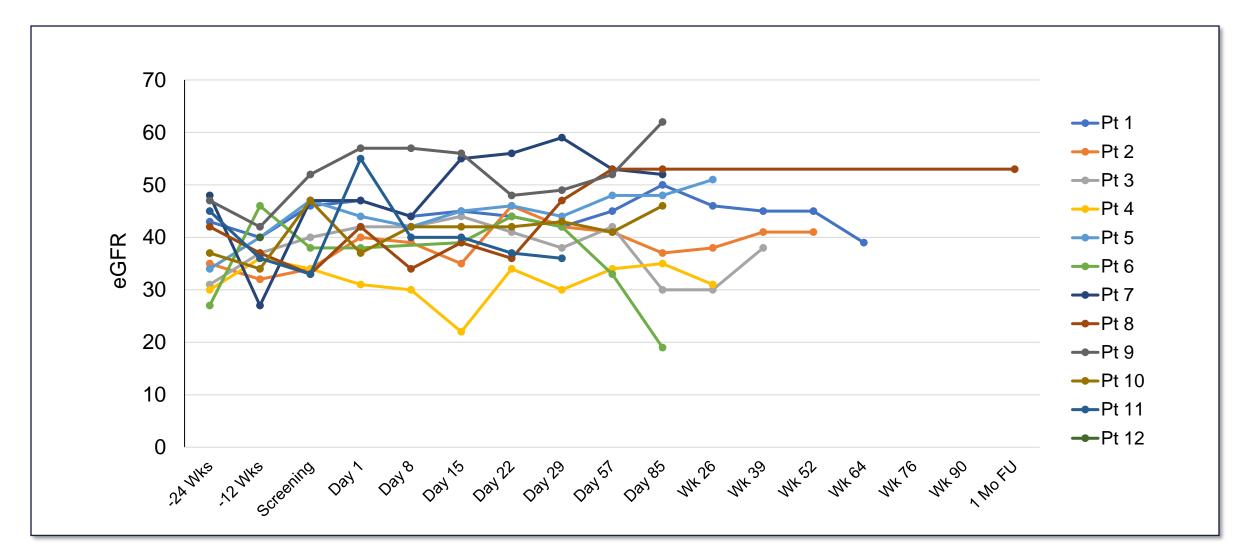




## Reduced pharmacokinetic variability is predicted to decrease risk toxicities

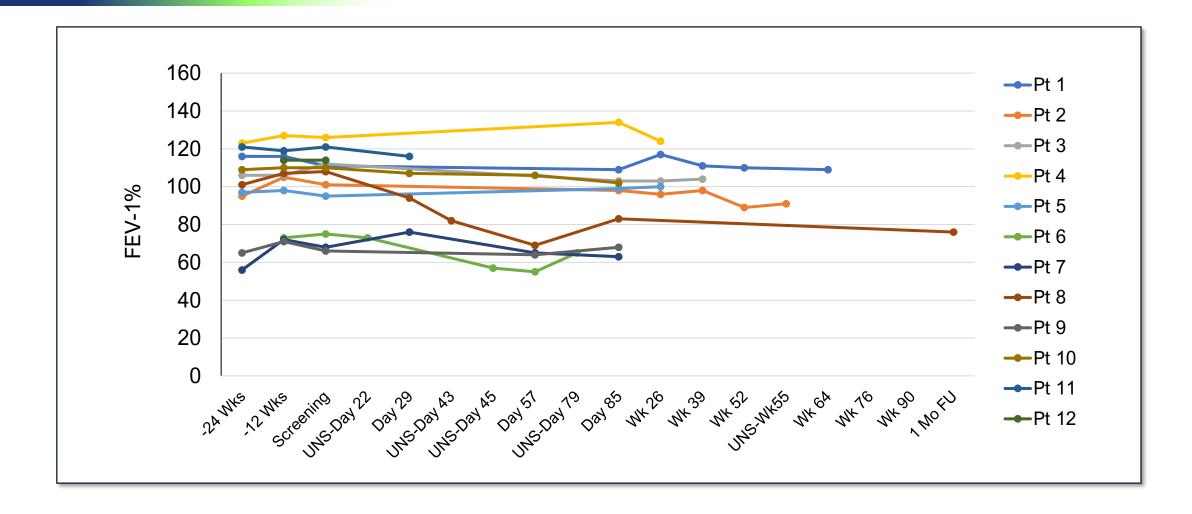
## **TFF TAC: Renal Function Maintained**





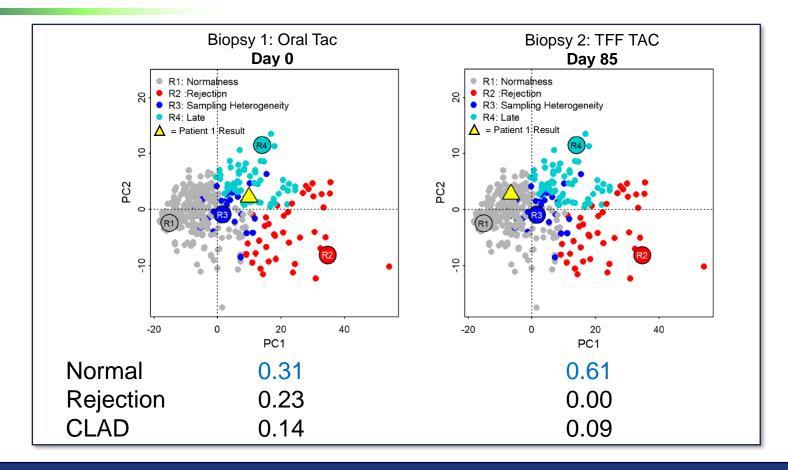
# TFF TAC: Lung Function Remained Stable on TFF TAC





# Patient 1: MMDx Gene Expression Analysis Following Transition from Oral Tacrolimus to TFF TAC





Patient 1's gene expression shifted from a profile consistent with rejection and CLAD to a more normal profile upon transition to TFF TAC

## **TFF VORI Additional Information**

Preclinical, Phase 1, and Compassionate Use Data

## The Problem: Toxicity of IV & Oral Voriconazole



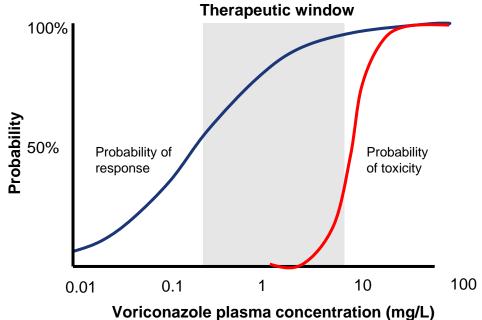
### Poor side effect profile

#### Side Effects:

- Hepatic toxicity, arrhythmias and QT prolongation, infusion related reactions, visual disturbances, severe cutaneous adverse reactions, photosensitivity and renal toxicity<sup>1</sup>
- Alternatives:

Oral and IV amphotericin B, echinocandins, and azoles, which are also limited by a narrow therapeutic window

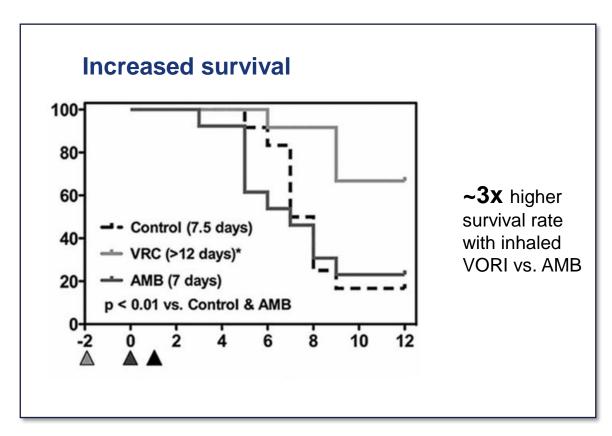
## **Current SOC voriconazole has** narrow therapeutic window<sup>2</sup>

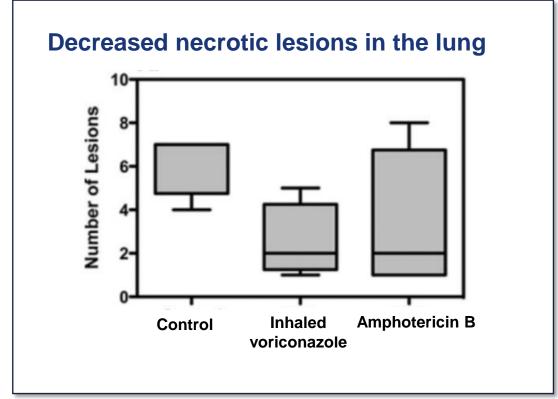


<sup>1.</sup> Voriconazole Package Insert; Warning and Precautions section, 5.2 and 5.3 2 Therapeutic window adapted from Pascual A et al. Clinical Infectious Diseases 2008.

## Preclinical Data of Inhaled Voriconazole







## **Phase 1 Study Design**



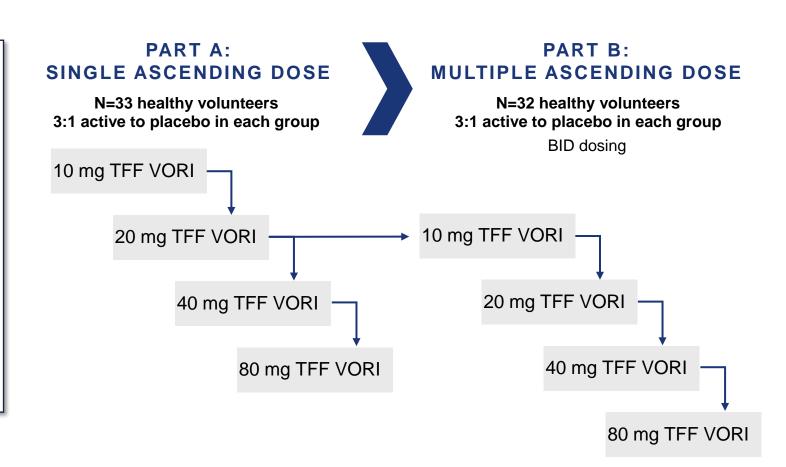
### **Study Overview**

#### Design:

- Randomized, double-blind, placebocontrolled study of TFF VORI in 65 healthy adult volunteers
- Single ascending dose (SAD) and multiple ascending dose (MAD) phases

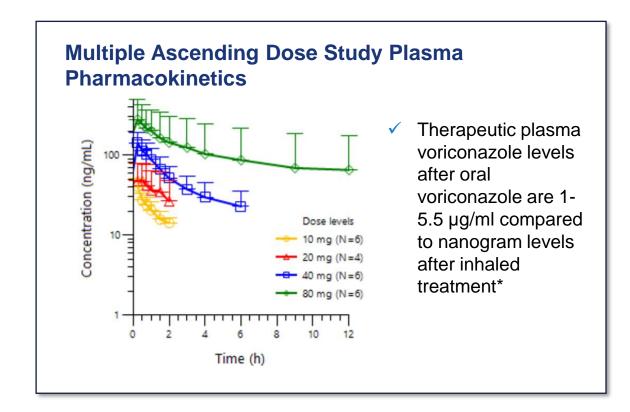
#### **Endpoints:**

- Safety and tolerability
- Pulmonary function
- Pharmacokinetics



## Phase 1 Study Results Show Safe & Well Tolerated





### **Safety**

No clinically meaningful differences between TFF VORI and placebo in:

- √ % of patients with treatment emergent adverse events (TEAEs)
- ✓ Safety laboratory test results, vital signs, and pulse oximetry
- Pulmonary function tests, electrocardiograms, and eye examination
- Single and multiple doses of TFF VORI (10 mg, 20 mg, 40mg, and 80mg) were well tolerated
- No dose limiting toxicities
- Most TEAEs were Grade 1. There were no Grade 3 or higher TEAEs
- All TEAEs but one (headache) occurred in a single subject

TFF VORI showed 10-50-fold lower plasma exposure compared to oral with favorable safety and tolerability

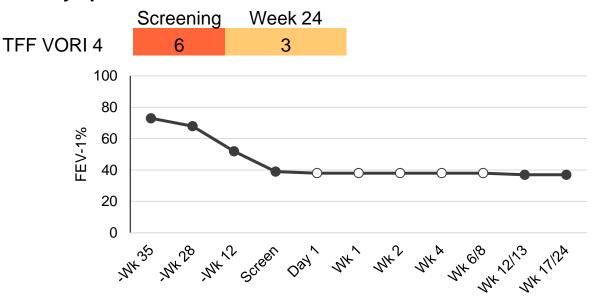
## **TFF VORI Patient 4 (EAP)**



50-yr-old white male lung transplant recipient with CLAD presented with moderate cough, dyspnea (shortness of breath) and respiratory insufficiency and BAL\* evidence of Scedosporium, which is voriconazole sensitive, and Lomentospora

Patient	Treatment Duration	Clinical	Response	Mycologic Response	Radiologic Response	All-Cause Mortality
		Improved signs and symptoms	Stable or improved spirometry	No evidence of infection	Improved CT findings	
TFF VORI 4	24 weeks	✓	✓	✓	✓	No

#### **Total Symptom Scores**



### Follow up mycologic assessment:

BAL\* culture for Scedosporium negative

\*BAL: bronchoalveolar lavage

## **TFF VORI Patient 4 (EAP)**



