



**Enanta**  
Pharmaceuticals  
**Great Chemistry Cures**

## **Corporate Presentation**

December 9, 2024



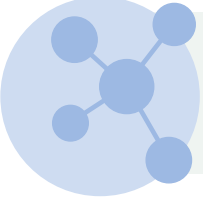
# Forward Looking Statements Disclaimer

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# A Proven Approach to Drug Discovery



Leveraging our core strength in small molecule drug discovery to develop treatments for high unmet needs

## Robust Pipeline

### Virology:

Phase 2 in pediatric patients with RSV complete

Phase 2 in high-risk adults with RSV ongoing

Phase 2 challenge study with second RSV candidate complete

Phase 2 in COVID-19 complete

### Immunology:

Preclinical KIT inhibitor (mast cell driven diseases, e.g., CSU)

Preclinical STAT6 inhibitor (type 2 immune diseases, e.g., atopic dermatitis)

## Proven Track Record of Success

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**Glecaprevir:** HCV protease inhibitor in MAVYRET<sup>®</sup>/MAVIRET<sup>®</sup>

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## Strong Balance Sheet

**Strong balance sheet and royalties** to support robust pipeline  
**\$248.2M in cash** at September 30, 2024

# Enanta Pipeline

	DISEASE	TARGET	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	MARKET	
Virology: Liver	Hepatitis C Virus	Protease	<b>Glecaprevir*</b>						
	Hepatitis B Virus	Core	<b>EDP-514**</b>						
Virology: Respiratory	Respiratory Syncytial Virus	N-Protein	<b>Zelicapavir (EDP-938)</b>				<i>Pediatrics</i>		
		N-Protein	<b>Zelicapavir (EDP-938)</b>				<i>High Risk Adults</i>		
	L-Protein	<b>EDP-323</b>				<i>(challenge study)</i>			
	COVID-19	3CL Protease	<b>EDP-235**</b>				<i>SPRINT</i>		
Immunology: Type 2 Immune Diseases	Chronic Spontaneous Urticaria***	KIT							
	Atopic Dermatitis***	STAT6							

\*Fixed-dose antiviral combination contains glecaprevir and AbbVie's NS5A inhibitor, pibrentasvir. Marketed by AbbVie as MAVYRET® (U.S.) and MAVIRET® (ex-U.S.).

\*\*Continued development dependent on a future collaboration.

\*\*\*Initial indications. Potential future indications include asthma, chronic inducible urticaria (CIIndU), eosinophilic esophagitis (EoE), prurigo nodularis (PN), and others.

# Virology: Hepatitis C Virus

# Glecaprevir: Our Licensed Protease Inhibitor for Hepatitis C Virus

## Marketed Product

**MAVYRET**  
glecaprevir/pibrentasvir  
100 mg/40 mg tablets

**Regimen**  
2-DAA (AbbVie)

**Enanta Asset**  
Glecaprevir  
(protease inhibitor)

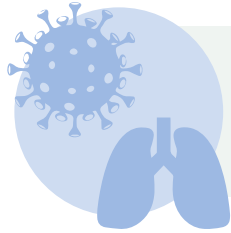
## Fiscal 2024 GAAP Royalty Revenue to ENTA (millions)

Q1	Q2	Q3	Q4	Total
\$18.00	\$17.05	\$17.97	\$14.60	<b>\$67.6</b>

Enanta retains 45.5% of royalty cash payments and continues to record 100% of royalty revenue earned in its GAAP reporting\*

# Virology: Respiratory Syncytial Virus

# Respiratory Syncytial Virus (RSV)



Causes severe lung infections, including bronchiolitis (infection of small airways in the lungs) and pneumonia. Leading cause of hospitalization in infants<sup>1</sup>. No safe and effective treatments are currently approved.

## Populations at higher risk for severe illness:

- Pediatrics (infants and children)
- High-risk adults (>65 yrs, COPD, asthma, CHF)
- Immunocompromised (e.g. HIV, transplant)

## Significant unmet need for antiviral treatment despite availability of prophylaxis:

- Adoption of adult vaccines is sub-optimal and not recommended for all FDA-approved patient groups\*
  - Peak adoption of vaccines for elderly range from ~35% (shingles<sup>4</sup>) to ~55% (flu<sup>5</sup>)
- Pediatric prophylaxis approaches provide passive immunity; will shift first infection to next season
  - Antibody approach has a low barrier to resistance
- Even with adoption, breakthrough infections will still occur

\*FDA-approved for adults age ≥60 & 50-59 years who are at increased risk for LRTD caused by RSV<sup>6</sup>  
ACIP-recommended for adults age ≥75 years and age 60-74 years at increased risk of severe RSV<sup>7</sup>

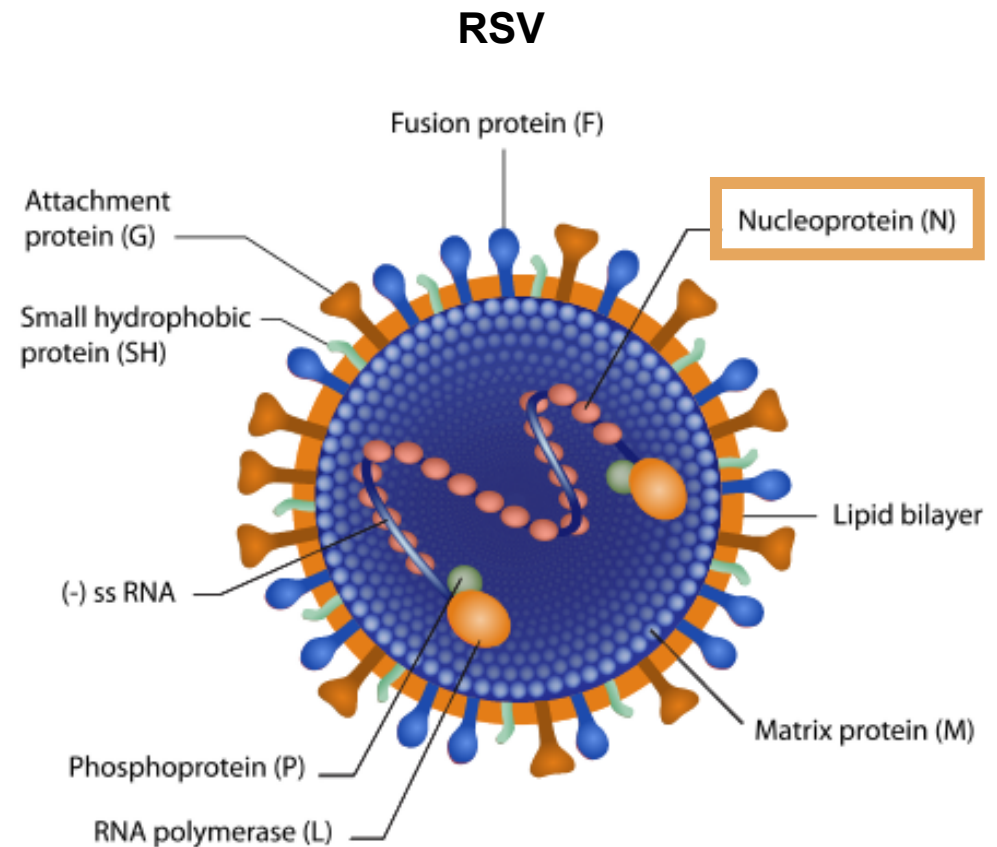
## RSV at a Glance

Children < 5 years <sup>2</sup>	Adults > 65 years <sup>3</sup>
33M global cases	
3M global hospitalizations	177K U.S. hospitalizations
101K global deaths	14K U.S. deaths



# Zelicapavir (EDP-938): N-Protein Inhibitor for RSV

- Zelicapavir is currently the only N-inhibitor in clinical development for RSV
  - Replication inhibitor: shuts down the production of new virions (vs. fusion inhibitors which block viral entry)
- Granted Fast Track designation by the FDA
- Strong preclinical profile
  - Nanomolar potency against RSV-A and RSV-B
  - Antiviral potency across all clinical isolates tested
  - High-barrier to resistance
  - Synergistic activity and no cross-resistance with other drug mechanisms (e.g. L-inhibitors)
- Favorable safety and efficacy profile in clinical studies observed to date
  - Phase 2a challenge study showed a statistically significant ( $p < 0.001$ ) reduction in both viral load and clinical symptoms compared to placebo



# Zelicapavir Development Plans:

## Treatment for Patients at High-Risk for Severe RSV Infection

High-risk populations have reduced RSV immunity, resulting in a higher and longer duration of viral load and greater disease severity, allowing a bigger window to observe benefit

**Goal:** Treat patients at high-risk for developing severe infection leading to hospitalization or death, populations with the most significant unmet need



Age  $\geq 65$  years

Chronic heart or lung disease  
(e.g. COPD, CHF, asthma)



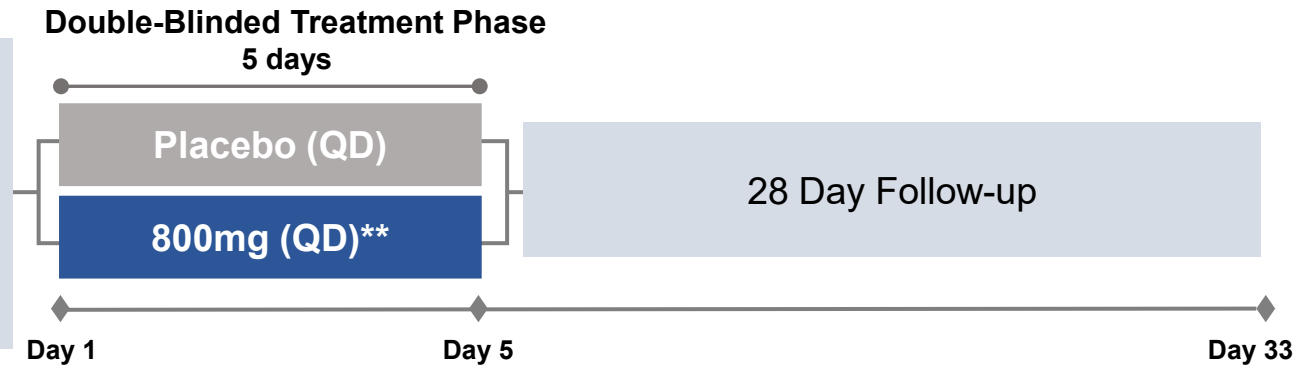
Infants and young children

# Zelicapavir Phase 2 High-Risk Adult Study: Design & Objectives



~180 adults with at least one of the following:

- COPD
- Congestive heart failure
- Asthma\*
- Age ≥65\*

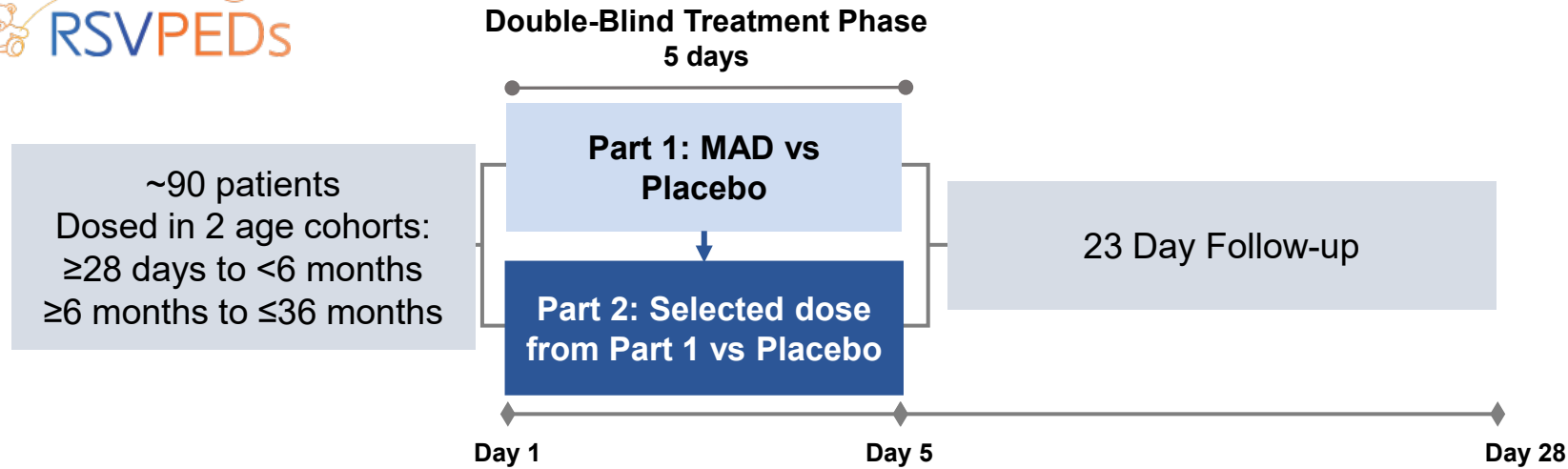


- **Primary Objective:**  
Time to resolution of RSV LRTD symptoms as assessed by RiiQ symptom scale through Day 33
- **Secondary Objectives:**  
PROs, MAVs, viral load, antibiotic use, bronchodilator use, corticosteroid use, hospitalization, ICU, mechanical ventilation, all cause mortality, PK and safety

\* The total proportion of subjects either 65-74 years of age or patients with asthma combined will be capped at 20%.

\*\* Equivalent to 600mg suspension dosage form used in challenge study

# Zelicapavir Phase 2 Pediatric Study: Design & Objectives



## Primary Objectives of Study

- **Overall:** Antiviral activity of zelicapavir across all patients
- **Part 1:** Safety and PK
- **Part 2:** Antiviral activity

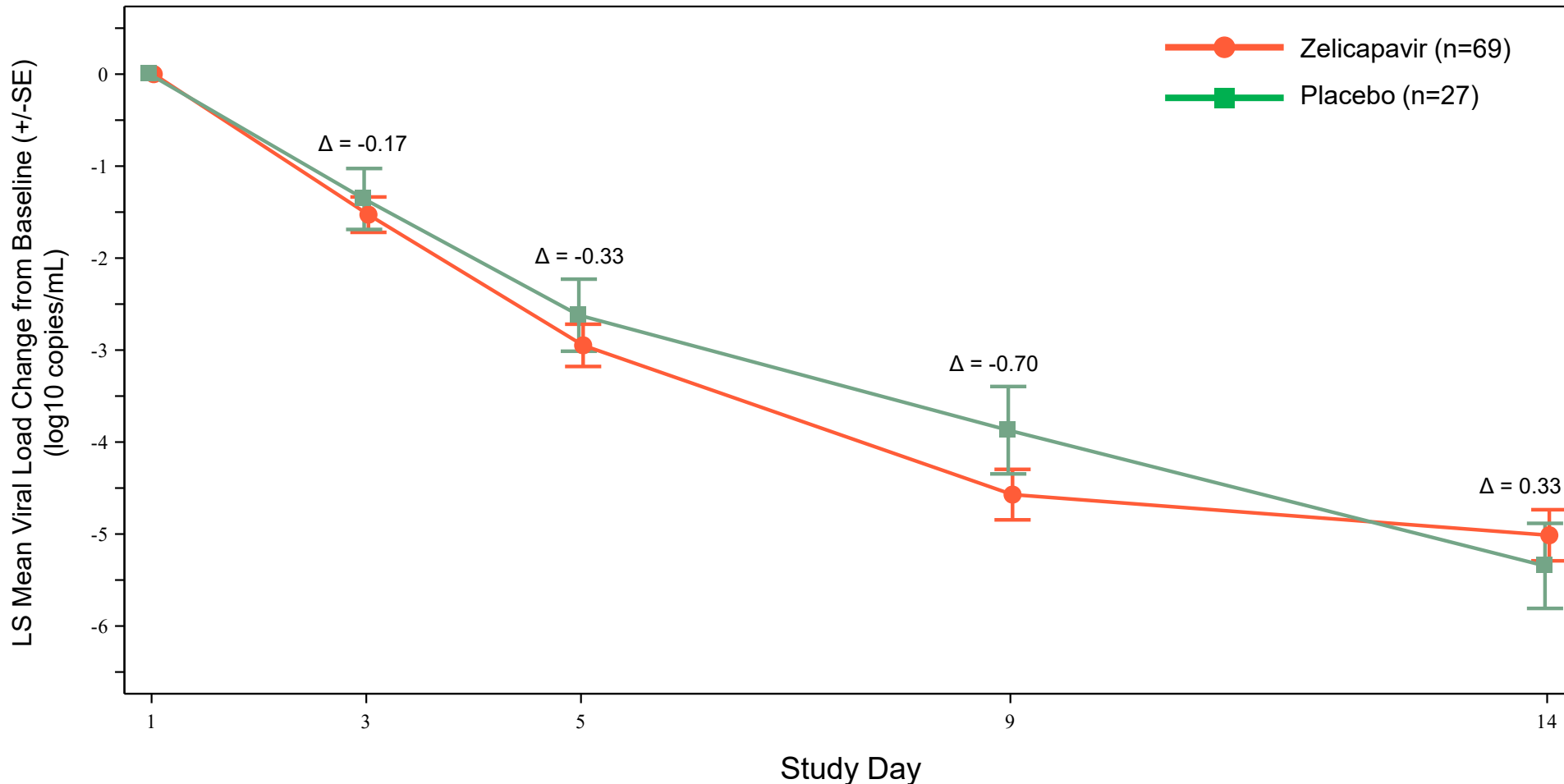
- First zelicapavir pediatric study: safety and dose selection
- Signal finding in different patient populations to inform a potential registration-enabling trial
  - Age: ≥28 days to <6 months and ≥6 months to ≤36 months
  - Time from symptom onset to treatment
  - Hospitalized or outpatient

# Zelicapavir Phase 2 Pediatric Study: Virology Summary

- Antiviral effect observed for the primary and secondary virology endpoints in overall population
- Viral load decline in Part 2 of 1.0 log at Day 3 and 1.4 log at Day 5 vs placebo
- Rapid and robust virology effects observed in prespecified subset of patients who were randomized within 3 days of symptom onset (mITT-3)
  - Represents ~40% of the study population (n=38/96)
  - Viral load decline of 0.9 log at Day 3 and 1.2 log at Day 5 vs placebo
  - Greater proportion of patients had undetectable viral load at Days 5 and 9 vs placebo
  - Qualitative improvement in time to undetectable viral load at early timepoints, although median time to undetectable viral load was similar between groups
  - Improvement in AUC of change from baseline for viral load at all timepoints vs placebo
- Results were similar regardless of age or setting of care (outpatient and hospitalized)

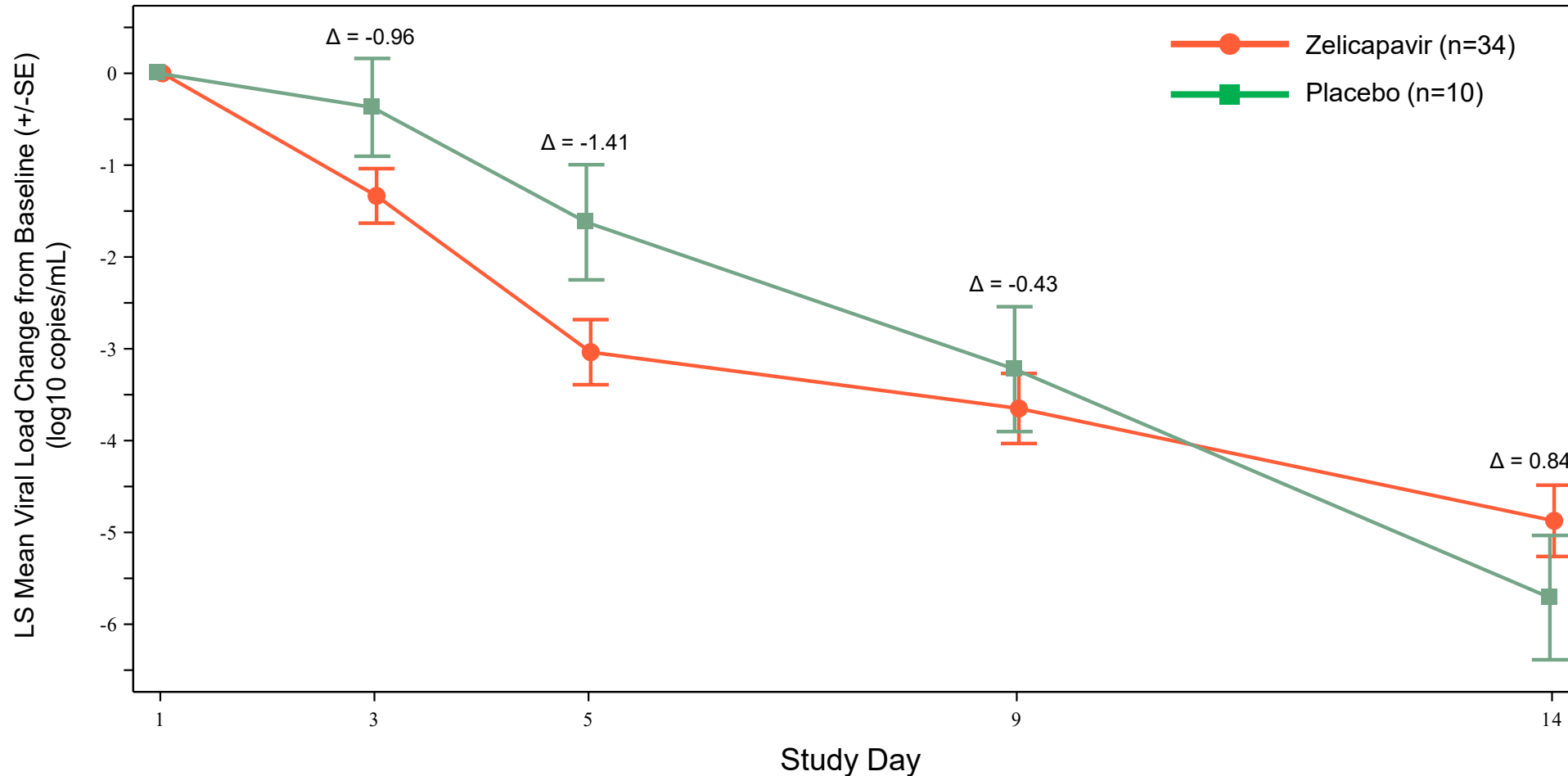
# Zelicapavir Phase 2 Pediatric Study: Primary Endpoint – RSV PCR Viral Load for All Patients (Part 1 & 2)

- Trend toward greater viral load decline in patients treated with zelicapavir compared to placebo



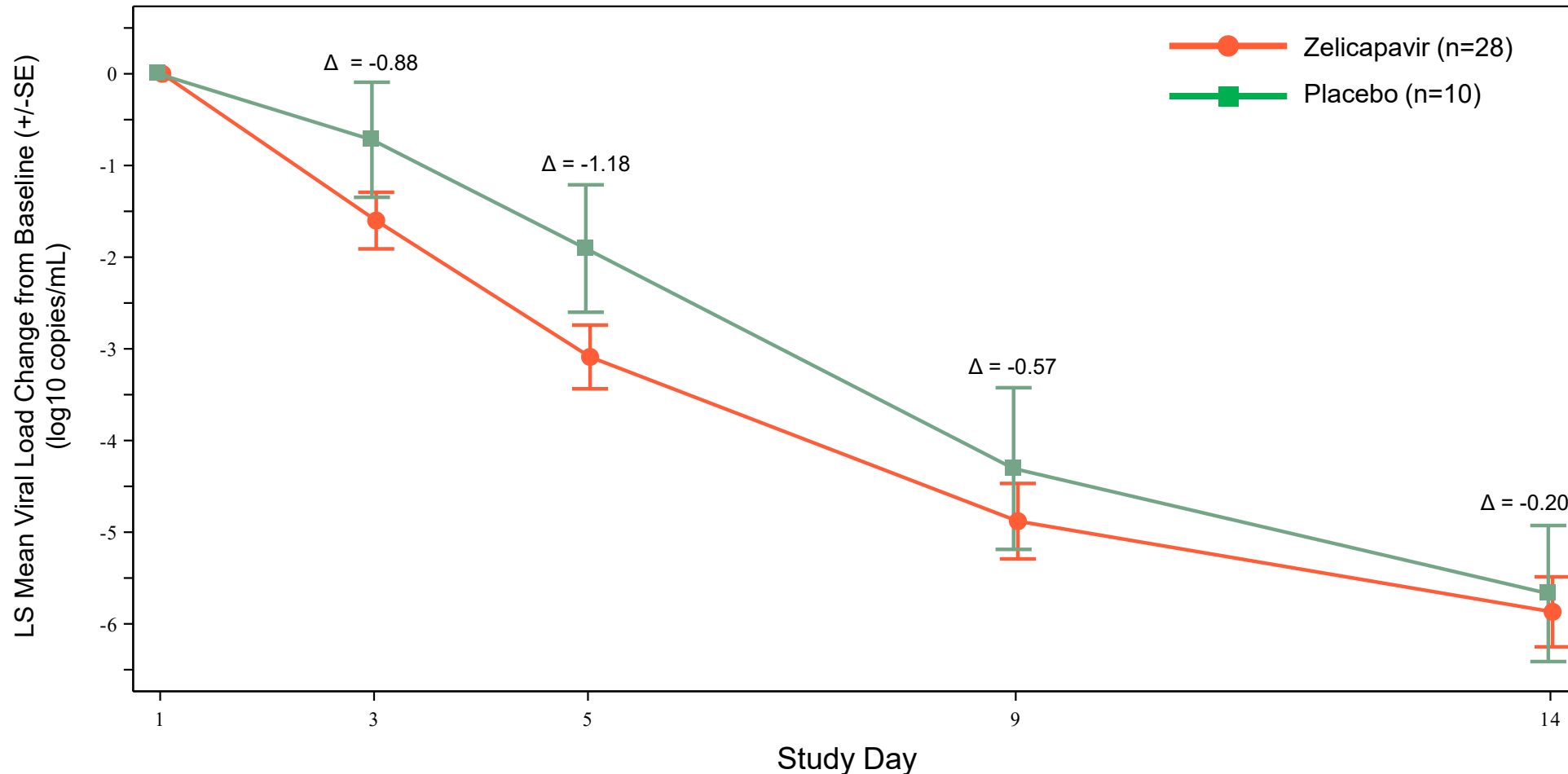
# Zelicapavir Phase 2 Pediatric Study: Primary Endpoint of Part 2: RSV PCR Viral Load

- Viral load decline of **0.96 log** at Day 3 and **1.41 log** at Day 5



# Zelicapavir Phase 2 Pediatric Study: Prespecified mITT-3 Population: RSV PCR Viral Load

- Viral load decline of **0.88 log** at Day 3 and **1.18 log** at Day 5





# Zelicapavir Phase 2 Pediatric Study: Exhibited Favorable Safety Profile in Children

- Adverse events (AEs) were similar between zelicapavir dosing groups and placebo
- No adverse events led to treatment discontinuation or study withdrawal

Description	Zelicapavir (pooled) (N=70)	Placebo (pooled) (N=26)
<b>Treatment emergent AEs (TEAEs)</b>	28 (40.0%)	13 (50.0%)
<b>Study drug related TEAEs</b>	6 (8.6%)	0 (0.0%)
<b>Grade 3 or higher TEAEs</b>	2 (2.9%)	1 (3.8%)
<b>Serious TEAEs</b>	1 (1.4%)	2 (7.7%)

# Zelicapavir Phase 2 Pediatric Study: AEs Occurring in More than One Patient in Any Group

- Adverse events (AEs) were balanced between zelicapavir and placebo
- The two most common AEs in the zelicapavir group were diarrhea and rash

Preferred Term	Zelicapavir (pooled) (N=70)	Placebo (pooled) (N=26)
Diarrhea	7 (10.0%)	1 (3.8%)
Rash	3 (4.3%)	1 (3.8%)
Otitis media acute	2 (2.9%)	1 (3.8%)
Eczema	2 (2.9%)	1 (3.8%)
Thrombocytosis	2 (2.9%)	0 (0%)
Nasopharyngitis	1 (1.4%)	2 (7.7%)

# Zelicapavir Phase 2 Pediatric Study: Conclusions

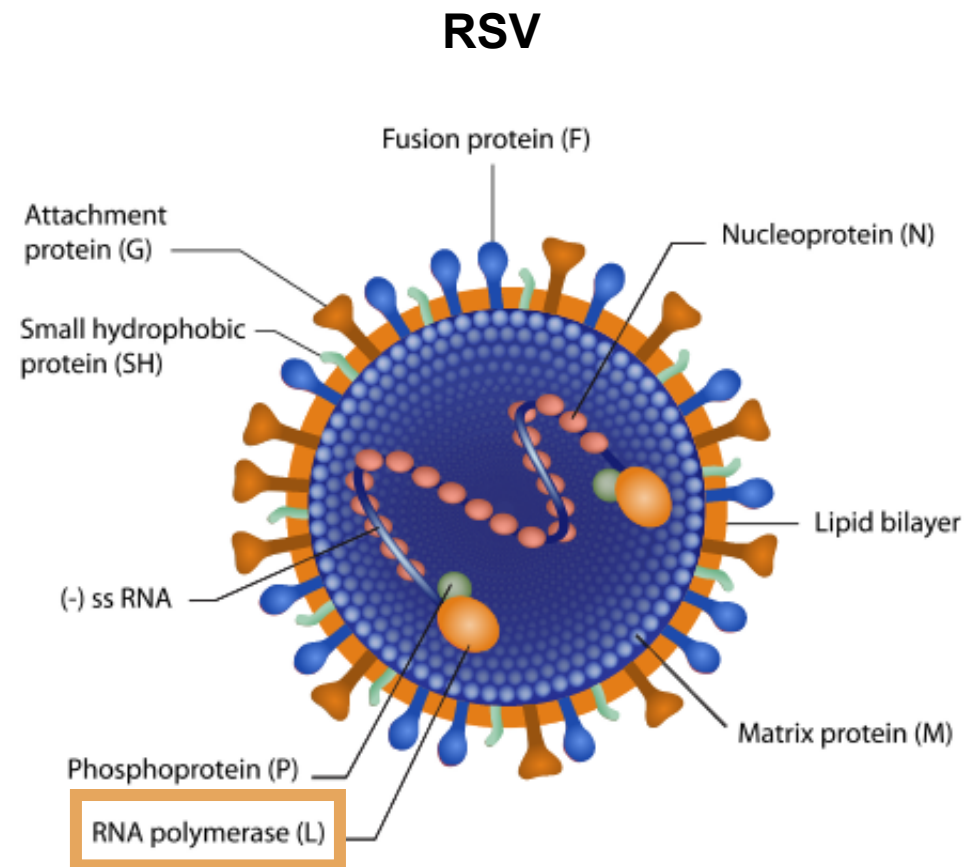
- Well tolerated, with favorable safety profile
  - No adverse events leading to treatment discontinuation or study withdrawal
- Antiviral effect observed for the primary and secondary virology endpoints in overall population
- Viral load decline of 1.4 log at the end of treatment in Part 2
- Viral load decline of 1.2 log at Day 5 observed in prespecified subset of patients randomized within 3 days of symptom onset
- RSV Signs/Symptoms
  - ReSViNET: No difference in signs/symptoms between groups
  - RESOLVE-P: Trend toward greater signs/symptom reduction with zelicapavir in a small dataset
- Data support further clinical development of zelicapavir

## Primary Objectives of Study

- ✓ **Overall:** Antiviral activity of zelicapavir across all patients
- ✓ **Part 1:** Safety and PK
- ✓ **Part 2:** Antiviral activity

# EDP-323: RSV L-Protein Inhibitor

- Direct-acting antiviral targeting the L-protein
  - Replication inhibitor: shuts down the production of new virions (vs. fusion inhibitors which block viral entry)
- Granted Fast Track designation by the FDA
- Potential to be used alone or in combination
  - Additive to synergistic activity with zelicapavir
  - No cross resistance expected with other mechanisms
- Sub-nanomolar potency against RSV-A and B
- Protects mice in a dose-dependent manner from RSV infection
- Phase 1 indicated 200mg or 600mg once-daily as potential safe and efficacious doses



# EDP-323 Demonstrated Favorable Safety Profile and Achieved Target Exposure Levels in Human Challenge Model

- Favorable safety profile over a 5-day dosing period and through 28 days of follow-up
- No serious or severe AEs and no AEs leading to treatment discontinuation or study withdrawal
- AEs were similar between EDP-323 dosing groups and placebo
- No specific pattern of treatment-emergent AEs was identified

Description	EDP-323 600mg (N=47)	EDP-323 200mg w/ LD* (N=47)	Pooled EDP-323 (N=94)	Placebo (N=47)
Any <b>treatment emergent</b> AEs	11 (23.4%)	14 (29.8%)	25 (26.6%)	13 (27.7%)
Any treatment emergent AEs considered <b>related</b> to study treatment	1 (2.1%)	1 (2.1%)	2 (2.1%)	0 (0.0%)

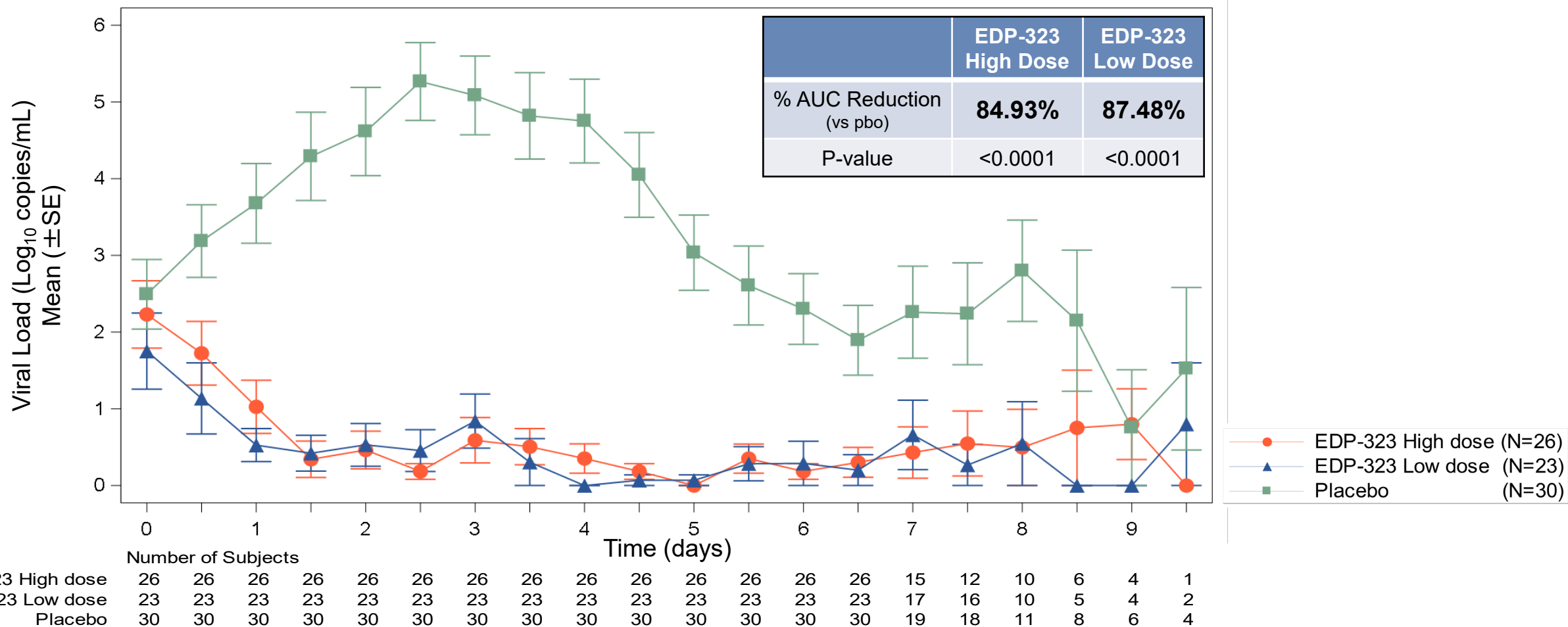
- EDP-323 mean trough plasma concentrations were maintained at 16- to 35-fold above the protein adjusted EC<sub>90</sub> against both RSV A and B strains

\*600mg loading dose (LD) on day one, followed by 200mg on days 2-5  
 AEs: adverse events; EC<sub>90</sub>: a measure of potency; the concentration of drug that results in 90% inhibition of viral replication *in vitro*

# EDP-323: Robust Antiviral Effect in Human Challenge Model

Primary Efficacy Endpoint: 85-87% ↓ in VL AUC by qRT-PCR

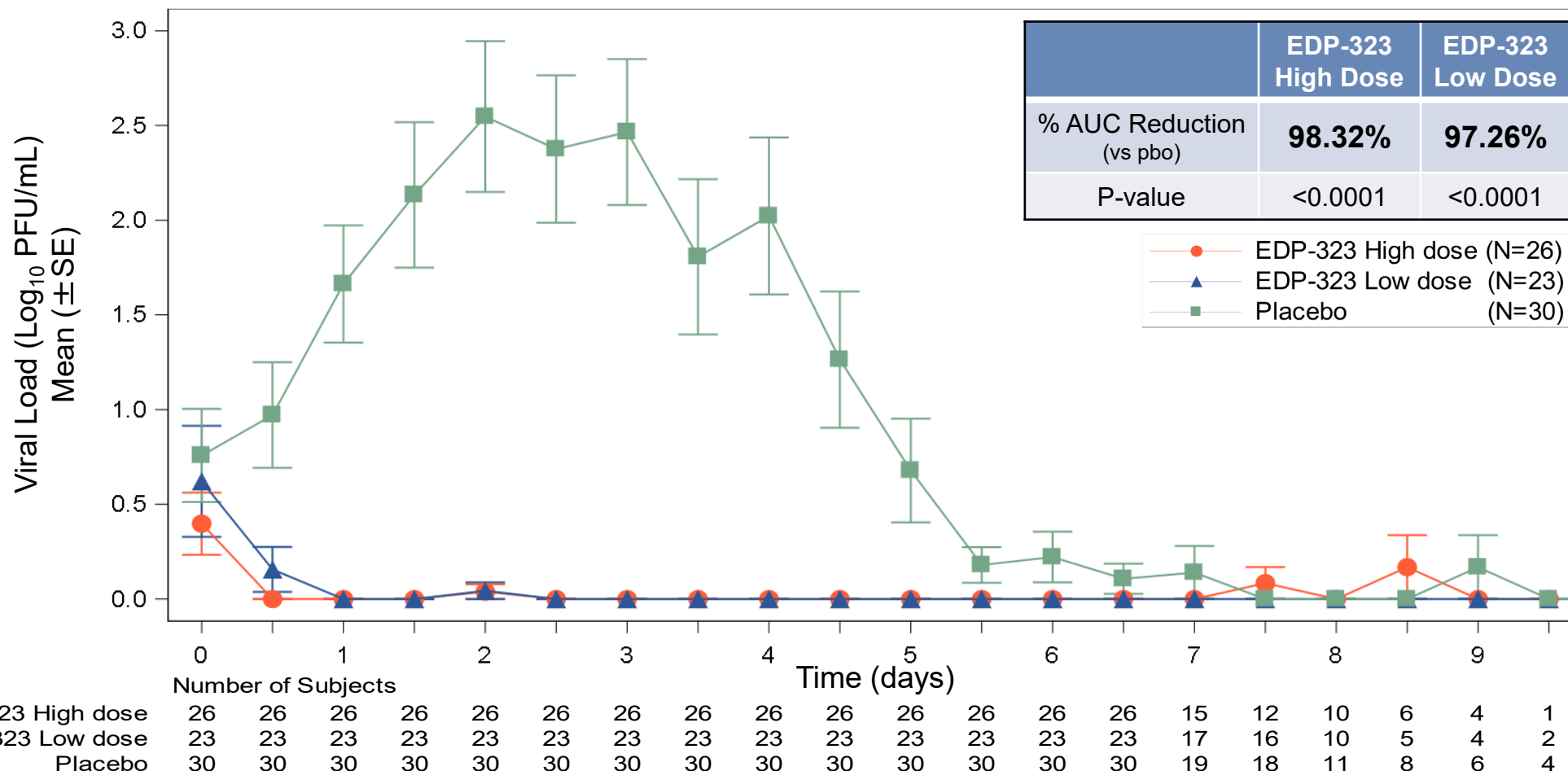
- Highly statistically significant reductions in VL AUC measured by qRT-PCR compared to placebo
  - No statistically significant difference between the two EDP-323 dosing regimens; 600mg and 200mg (with 600mg loading dose)



# EDP-323: Robust Antiviral Effect in Human Challenge Model

## Secondary Efficacy Endpoint: 97-98% ↓ in VL AUC by Viral Culture

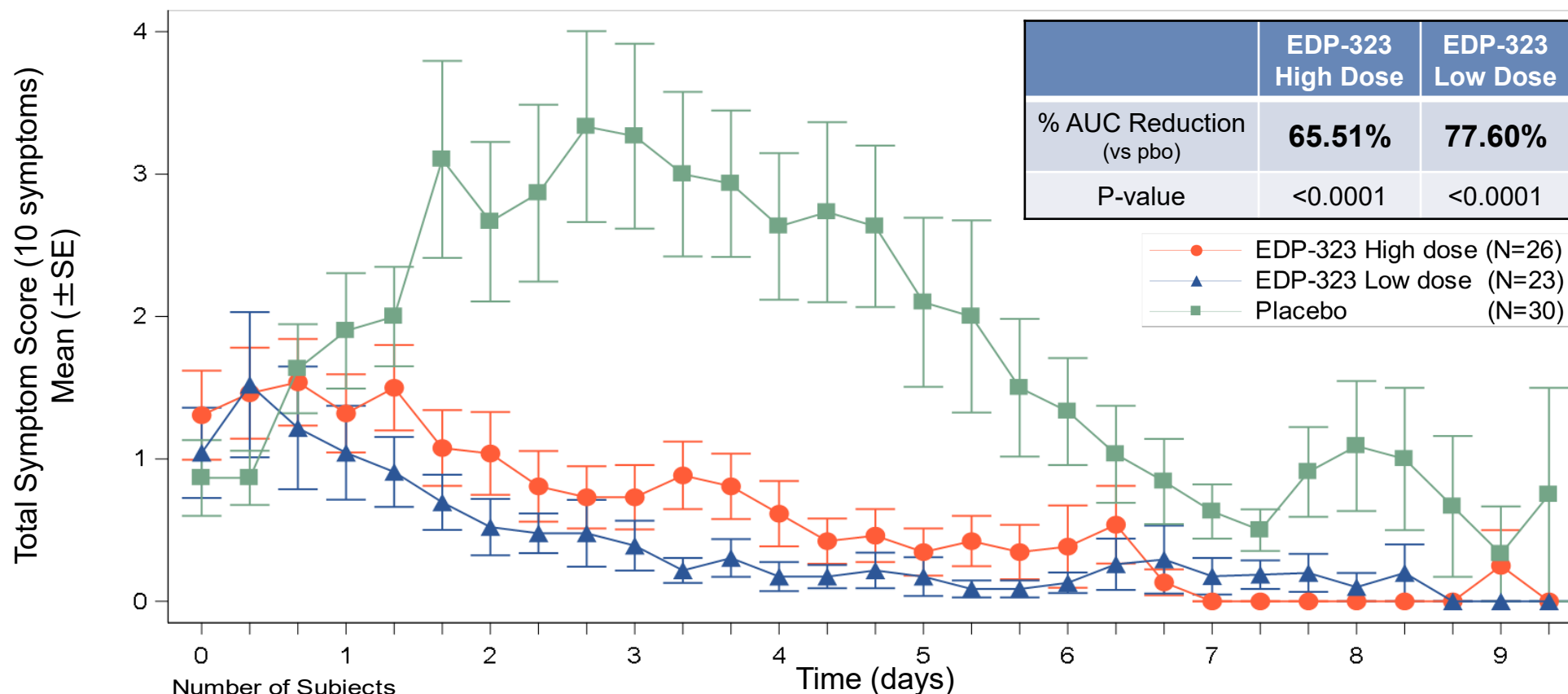
- Highly statistically significant reductions in infectious VL AUC measured by quantitative culture compared to placebo
  - No statistically significant difference between the two EDP-323 dosing regimens; 600mg and 200mg (with 600mg loading dose)



# EDP-323: Robust Symptom Alleviation in Human Challenge Model

## Secondary Efficacy Endpoint: 66-78% Reduction in Symptoms

- Highly statistically significant reductions in TSS AUC in both EDP-323 arms compared to placebo
  - No statistically significant difference between the two EDP-323 dosing regimens; 600mg and 200mg (with 600mg loading dose)



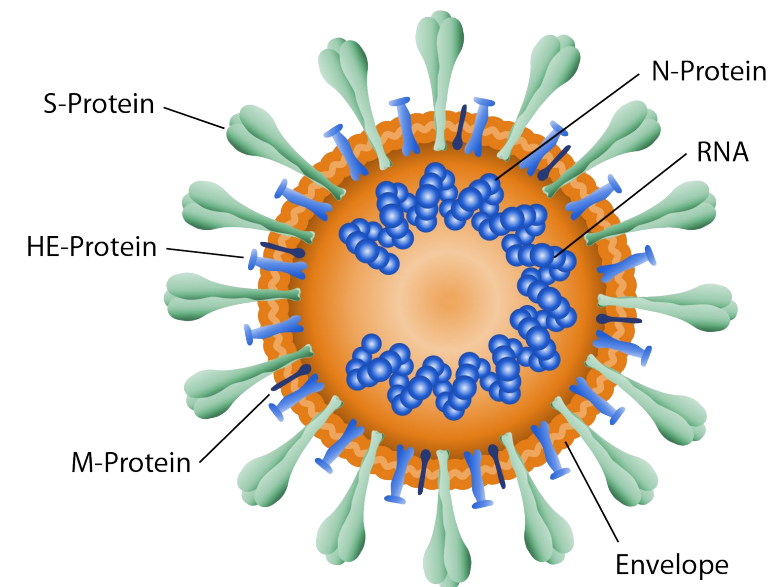
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	
EDP-323 High dose	26	26	26	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
EDP-323 Low dose	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Placebo	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30



# Virology: SARS-CoV-2

# EDP-235: Oral Protease Inhibitor Designed for COVID-19

- Oral antiviral specifically designed to target SARS-CoV-2 3CL protease
- Granted Fast Track designation by the FDA
- Potent and selective inhibition of SARS-CoV-2 3CLpro enzyme
  - Potent inhibition in multiple cellular models
  - Potent against all SARS-CoV-2 variants of concern to date
- Preclinically active against other human coronaviruses
- High barrier to resistance preclinically
- Good target tissue distribution (e.g. lung to plasma AUC ratio >4)
  - Other COVID protease inhibitors lung to plasma AUC ratio <1
- Robust treatment effect and prevention of transmission in ferret model
- Phase 1 supported 200 or 400mg once-daily as safe and efficacious dose
  - Plasma drug levels 7-13x higher than the EC<sub>90</sub>, without ritonavir boosting
- Phase 2 study (SPRINT) supports advancement to Phase 3



# Phase 2 (*SPRINT*) Results:

## Study of EDP-235 in Non-hospitalized Standard Risk Patients

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### Safety

- EDP-235 was generally safe and well tolerated
- Low frequency of adverse events; most were mild in severity
  - 1.3%, 6.4%, and 2.6% in the EDP-235 200mg, 400mg and placebo arms
- No serious adverse events or discontinuations due to adverse events

### Clinical Symptoms

- Statistically significant improvement in total symptom score (TSS) achieved at multiple timepoints for EDP-235 400mg
  - Patients enrolled within 3 days of symptom onset showed a statistically significant improvement in TSS for EDP-235 400mg at all time points
- No difference in time to 14 symptom improvement for EDP-235 compared with placebo
  - EDP-235 400mg significantly reduced duration of 6 symptom subset by 2-days compared to placebo in patients enrolled within 3 days of symptom onset (1-day for ITT-c population; 2-day for patients enrolled within 3 days of symptom onset)

### Virology

- No difference between treatment arms and placebo for viral RNA decline
  - Additional analyses demonstrate virologic effect in multiple patient subsets at 400mg: 0.4 log for baseline viral load >5 log, 0.8 log for nucleocapsid negative (suggesting no recent natural infection), and 1 log for nucleocapsid negative and symptom onset within 3 days
- High degree of nucleocapsid positivity & rapid decline in nasal RNA in all study arms indicates a highly immune population

# Immunology

# Building Enanta's Immunology Portfolio: Focusing on Best-in-Disease Treatments



Exploit novel biology to select targets with **potential in multiple indications**  
Leverage innovative chemistry to develop **best-in-class** small molecule drugs



Strong Target Rationale



Clinical, genetic, or pathway validation to link target to disease

Clear Means to Differentiation



Yet to be drugged, drugged by injectables or suboptimal orals

Expedited Clinical Path to POC



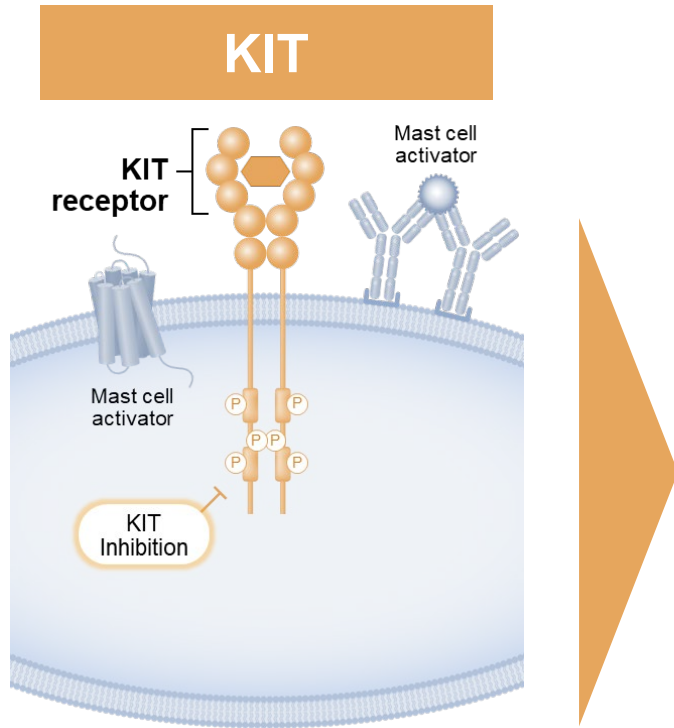
Predictive biomarkers or early clinical signals derisk development

Significant Unmet Need



Differentiated value proposition;  
Large market opportunity

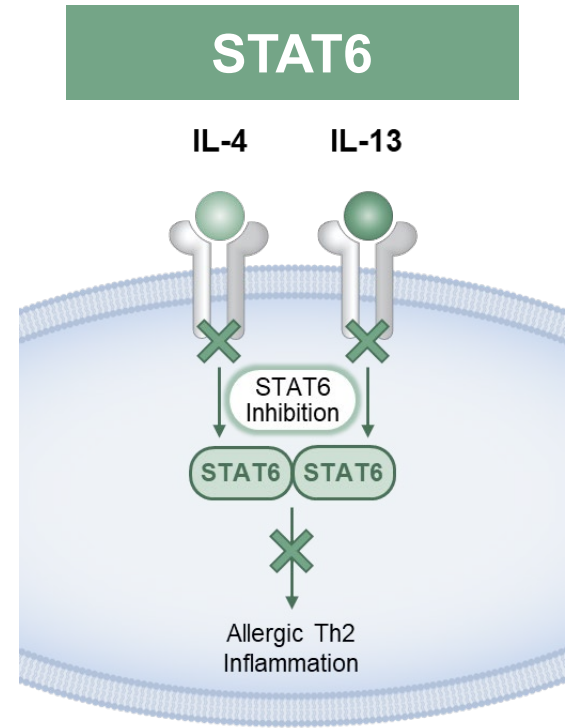
# Immunology Portfolio: Advancing Multiple Targets in Pipeline



**KIT inhibition blocks cell survival signal resulting in apoptosis and cell death**

## Potential Indications

- Atopic Dermatitis
- Asthma
- CSU
- CIndU
- COPD
- EoE
- PN
- CRSwNP
- Others



**STAT6 inhibition impedes type 2 inflammation**

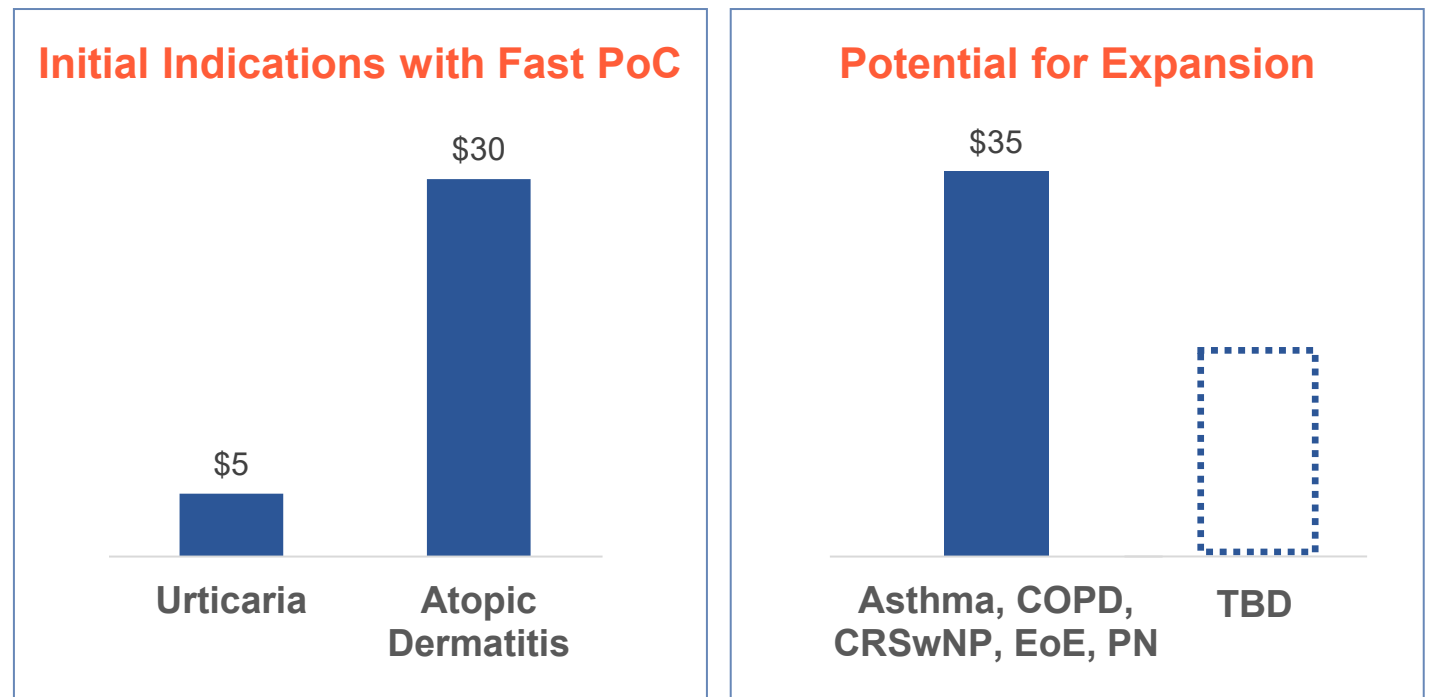
# Immunology Portfolio:

## Multiple Targets Addressing Type 2 Immune Diseases

### ➤ Enduring unmet need in multiple diseases driven by Type 2 immune phenotype ◀

- Type 2 inflammation is characterized by overproduction of IL-4, IL-5, IL-13, and IgE which recruits and activates Th2 CD4 T cells, B cells mast cells, eosinophils, and basophils
- Potential to treat **broad patient populations** across numerous disease areas

2030F Market Potential<sup>1</sup> (\$B)

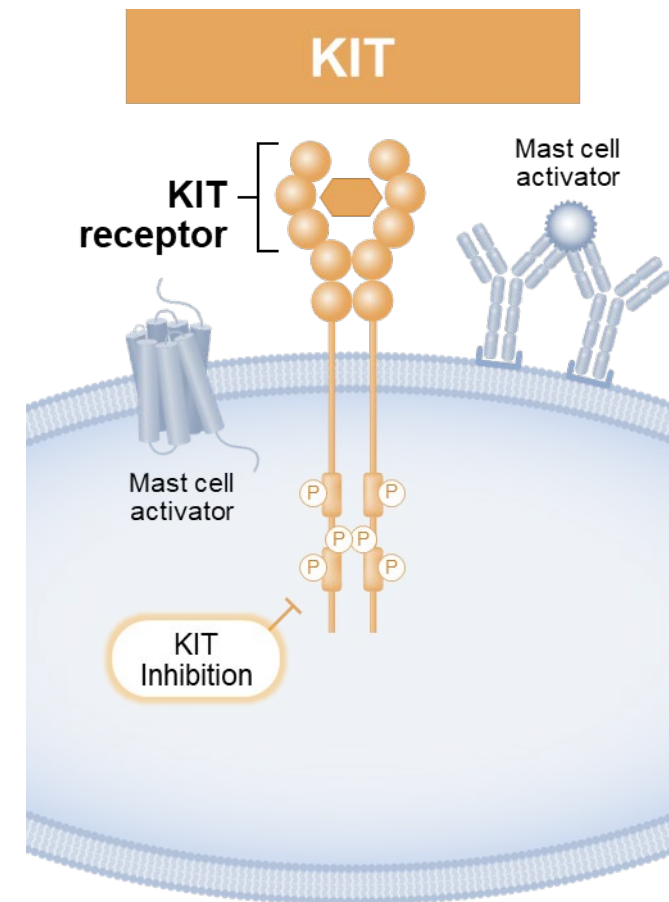


# Immunology: KIT Inhibitor



# KIT Inhibitors Offer Potential for Differentiated Efficacy

- **Mast cells:** primary driver of inflammation in skin, and implicated in multiple allergic diseases
  - Urticaria, asthma, eosinophilic esophagitis (EoE), and prurigo nodularis (PN)
- **KIT:** well-characterized receptor tyrosine kinase critical for regulating mast cell activity
- **KIT inhibitors:** potential for best-in-disease efficacy
  - Directly reduces quantity of mast cells through apoptosis and depletion, addressing key disease driver
  - Current therapy reduces mast cell activator levels or downstream mediators, but not mast cells directly
  - Positive proof-of-concept in urticaria and PN with anti-KIT mAb



# Chronic Spontaneous Urticaria

## KIT Inhibitor Initial Focus for Clinical POC

- Severely debilitating, chronic inflammatory skin disease<sup>1,2</sup>
  - Driven by mast cell activation, triggering release of inflammatory mediators
  - Quality of life impacts beyond the skin: sleep disturbances, fatigue, irritability, anxiety and depression
- Affects ~0.5-1% of the global population<sup>1</sup>
- Substantial unmet need for efficacious oral agent
  - ~50% not controlled with antihistamines<sup>1,3</sup>
  - Minority treated with one indicated biologic (<30%)<sup>4</sup>

Hives Itch Erythema



Angioedema



# Goal of Oral KIT Inhibitor Program:

## Develop Best-in-Class Treatment for Mast Cell Mediated Diseases

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- EPS-1421 selected as development candidate
  - Inhibits KIT with nanomolar potency in both binding and cellular assays
  - Highly selective for KIT versus other kinases
  - Good *in vitro* and *in vivo* ADME properties
    - Good PK profile across multiple preclinical species
    - No GSH adducts (or reactive metabolites) detected *in vitro* or *in vivo*
    - Low drug-drug interaction potential via CYP inhibition

# EPS-1421 KIT Inhibitor Exhibits Potent Inhibition

## Binding and Cell Based Assays

- Potency: Prevents KIT mediated cellular proliferation with EC<sub>50s</sub> between 2-11 nM

Assay*	EC <sub>50</sub> (nM)
KINOMEscan Kd	0.8
M-07e Cell Proliferation	11
UT-7 Cell Proliferation	3
KIT Ba/F3 Proliferation	2
CD34 <sup>+</sup> Derived Mast Cell Degranulation	4
phosphoKIT	2

\*M-07e and UT-7 cells endogenously express KIT. Ba/F3 cells are engineered to express KIT.

# EPS-1421 KIT Inhibitor Demonstrates Good Selectivity

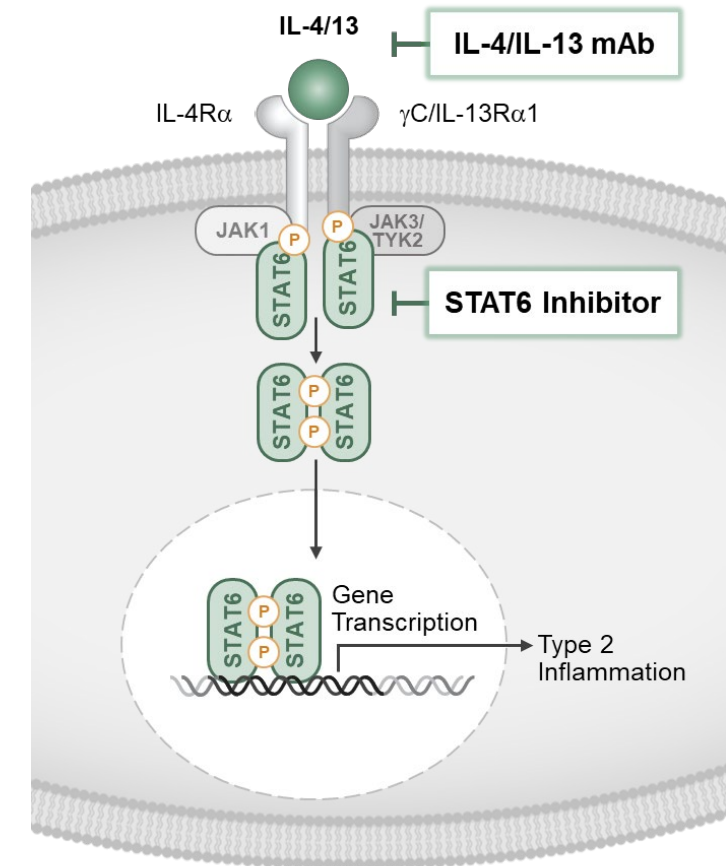
- Selectivity: >500x more selective for KIT over other KIT family members CSF1R, PDGFR $\alpha$ , & PDGFR $\beta$  in cell based assays\*

Selectivity	EPS-1421
S(10) @ 1 $\mu$ M	0.015
CSF1R	>500x
PDGFR $\alpha$	>1300x
PDGFR $\beta$	>1100x
FLT3 Kd	>1800x

# Immunology: STAT6 Inhibitor

# STAT6 Inhibitors Offer Potential for an “Oral DUPIXENT®”

- **Th2 dysregulation** drives allergic and autoimmune diseases including atopic dermatitis and asthma
  - Characterized by IL-4 & IL-13 overproduction
- **STAT6**: transcription factor responsible for IL-4/IL-13 signaling, which drives a Th2 dominant phenotype
  - STAT6 gain-of-function variants result in severe atopic dermatitis<sup>1</sup>
  - STAT6 loss-of-function protects against type 2 high asthma<sup>2</sup>
  - Inhibition of the IL-4/13 pathway is clinically validated
- **STAT6 inhibitors**: potential for an “oral DUPIXENT”
  - Blocks IL-4/13 signaling pathway
  - Reduces inflammation in Th2 driven preclinical models
  - No oral therapy selectively targeting IL-4/13 pathway available



# STAT6 Inhibitor Initial Focus for Clinical POC: Atopic Dermatitis (AD)

- Chronic dermatological disease characterized by dry, red, inflamed, irritated and itchy skin
  - Driven by Th2 immune dysregulation<sup>1</sup>
  - Quality of life impacts beyond the skin: limited lifestyle, avoidance of social interaction and impacted activities<sup>1</sup>
  
- 7.3% of US adults, ~40% have moderate-severe symptoms<sup>2</sup>
  
- Significant need for efficacious and safe oral agents
  - Market dominated by mAb (IL-4/13)
  - Oral JAK inhibitors used <10%<sup>3</sup>, with boxed warning: serious infections, mortality, malignancy, major adverse cardiac events, thrombosis<sup>4</sup>





# Goal of STAT6 Inhibitor Program:

## Discover Novel Potent and Selective Oral STAT6 Inhibitors

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- Novel, oral inhibitors of STAT6 being optimized in discovery stage
- Prototype STAT6 inhibitors:
  - Potently inhibit STAT6 activity in both biochemical and cellular assays
  - Highly selective over other STATs in biochemical and cellular assays
  - Demonstrates systemic *in vivo* target engagement after *ex vivo* IL-4 stimulation

# 2024 Key Catalysts

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## Virology

### Respiratory Syncytial Virus

- ✓ Zelicapavir: Report Phase 2 RSVPEDs data in Q4 24
- ✓ EDP-323: Report Phase 2a challenge study data in Q3 24

## Immunology

### KIT Inhibition

- ✓ Select KIT inhibitor development candidate in Q4 24 (EPS-1421)

### STAT6 Inhibition

- ✓ Initiate lead optimization (STAT6 inhibitor)

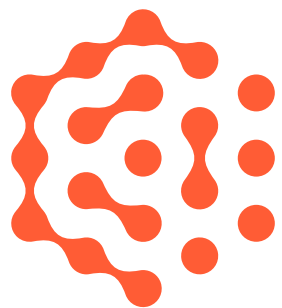
## Business Development

### SARS-CoV-2

- EDP-235: Pursue partnership for Phase 3 study

### Hepatitis B Virus

- EDP-514: Identify third mechanism and/or out-license



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