



# Linsitinib Oral Treatment Option for Thyroid Eye Disease

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# Sling Highlights

Linsitinib is a convenient oral therapy and with positive Phase 2b/3 TED data establishing IGF-1R efficacy and a differentiated safety profile

- ✓ Positive Phase 2b/3 study statistically significant and clinically meaningful proptosis reduction
- ✓ Differentiated safety profile with no drug-related hearing impairment or significant hyperglycemia
- ✓ Only oral therapy in clinical trials for TED, avoiding infusions and reducing barriers to use for physicians and patients
- ✓ Favorable safety profile with 900+ patients treated
- ✓ Private and highly capital efficient biotech
- ✓ Optimized, high-yield CMC process with long shelf-life
- ✓ TED is a multi-billion-dollar market opportunity
- ✓ Series B financing completed Jan 2024

**Linsitinib's clinical profile and convenience could create a new TED treatment option for a broader number of physicians across multiple therapeutic disciplines and reduce patient hurdles to treatment**

CMC, chemistry, manufacturing, and controls; IGF-1R, insulin-like growth factor 1 receptor; PK/PD, pharmacokinetics/pharmacodynamics; TED, thyroid eye disease.

# TED is a Rare and Debilitating Eye Disease



**Estimated ~70,000 TED patients in US<sup>1</sup>**

Similar prevalence in EU

## Focusing on a serious progressive ocular autoimmune condition

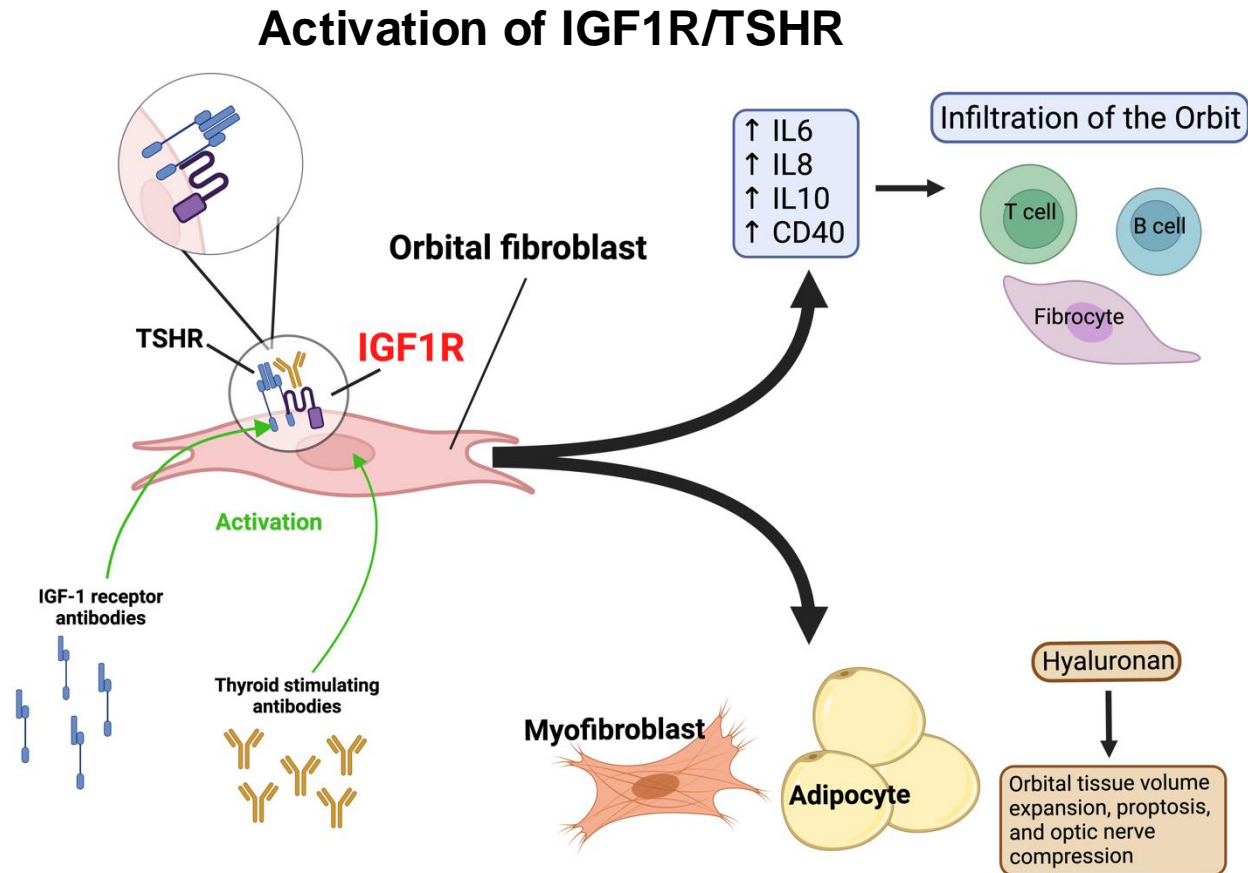
A subset of Graves' disease, TED is driven stimulation of IGF-1R fibroblasts behind the eye<sup>2</sup>

Symptoms include disfiguring proptosis (eye bulging), double vision, pain, and potentially profound reduction in quality of life<sup>3</sup>

TED, thyroid eye disease.

1. Chen X, et al. ATA Annual Meeting, Washington, DC, 27 September–1 October 2023. Poster 523; 2. Shu X, et al. *Front Immunol.* 2024;15:1392956; 3. Rashad R, et al. *Life (Basel).* 2022;12(12):2084.

# IGF-1R is Central to the Pathogenesis of TED and Inhibition Has Been Shown to Improve the Disease

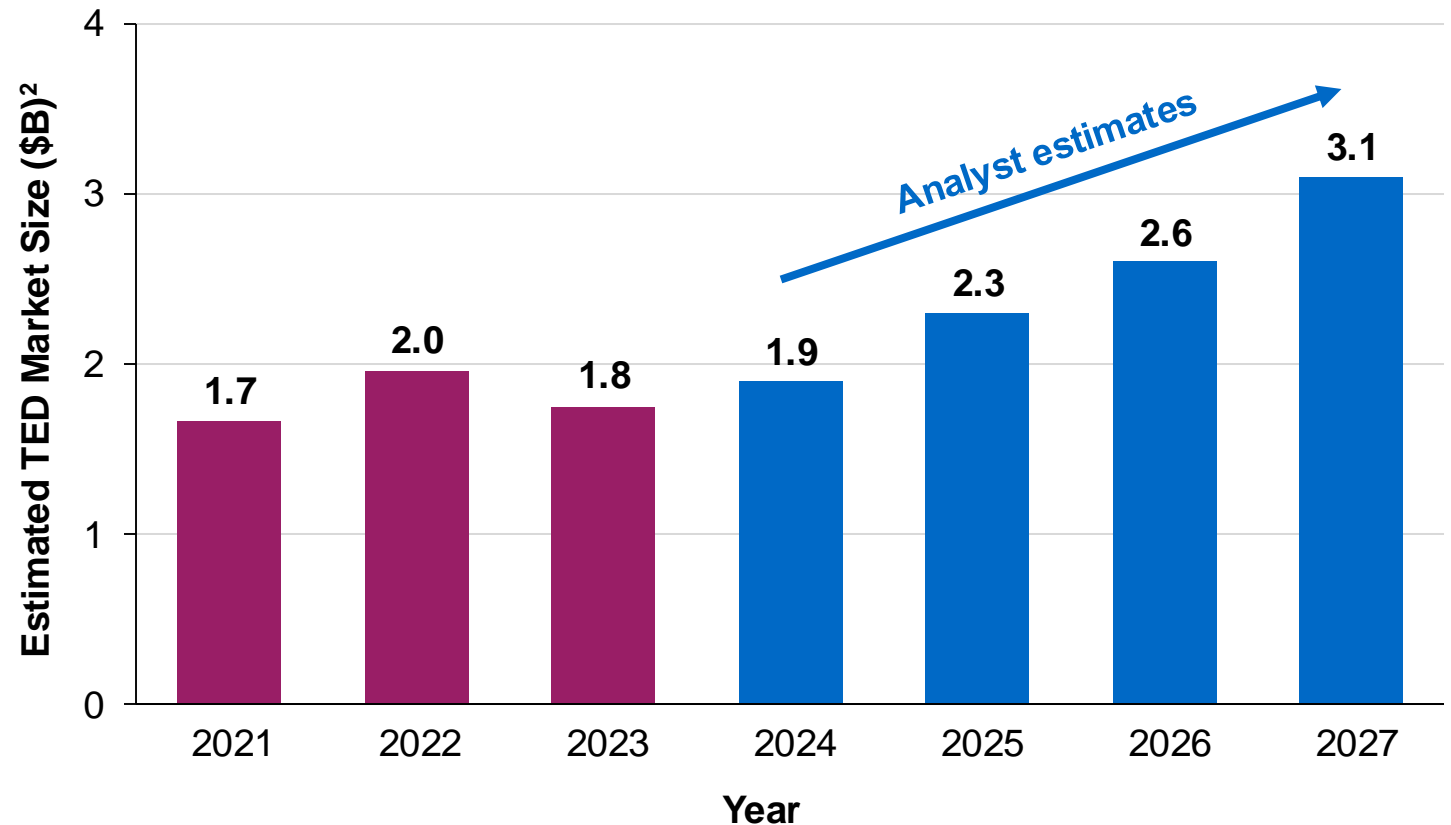


- IGF-1R pathway is believed to be the main biological driver of TED
- IGF-1R is upstream of other pathways being investigated as potential TED treatments
- Numerous IGF-1R inhibitors have been shown to be effective at treating TED

CD, cluster of differentiation; IGF-1R, insulin-like growth factor 1 receptor; IL, interleukin; TED, thyroid eye disease; TSHR, thyroid-stimulating hormone receptor.

# TED is a Large Market That is Expected to Grow

- Only approved TED therapy generates ~\$2B<sup>1</sup> in revenue and has been a very successful rare disease launch
- Small portion of ~70,000 TED patients currently receive therapy each year
- Growth has been restricted primarily by limited physician prescriber base, inconvenience, and concerns with side effects

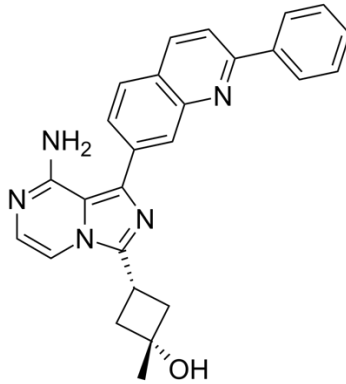


TED, thyroid eye disease.

1. Tepezza sales figures from Horizon (now Amgen) reports; 2. Various sales forecasts and consensus estimates.

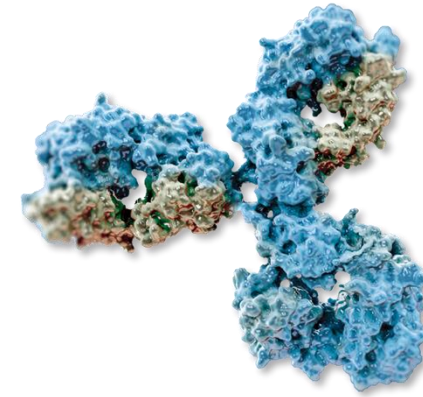
# Linsitinib is the Only Orally-Administered Small Molecule Drug in Clinical Trials for TED

## Linsitinib is an Oral Small Molecule



- Low molecular weight (~400 daltons)
- No refrigeration needed
- Formulated as standard tablets for dosing
- Short half-life with ~1 day wash-out period

## Monoclonal Antibodies are Injected

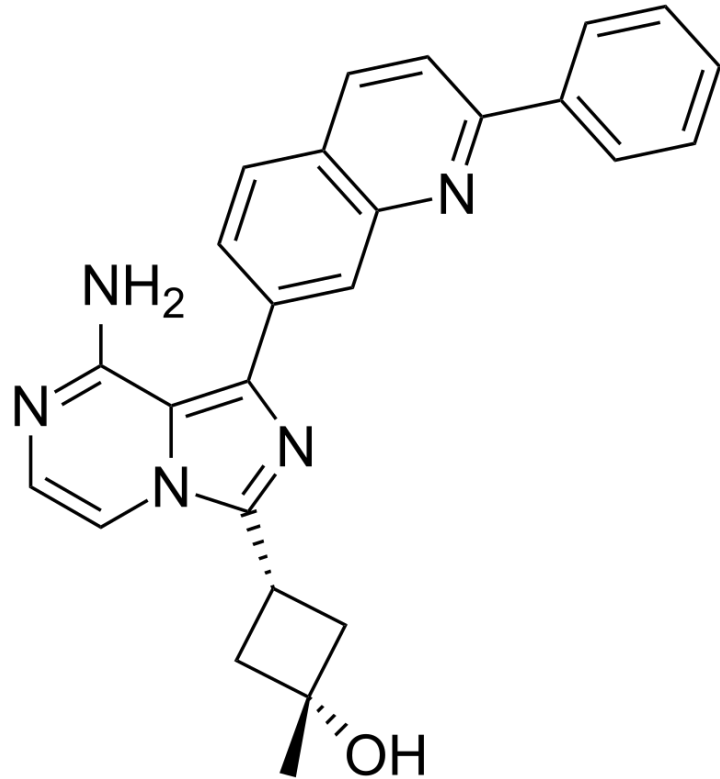


- High molecular weight (150,000+ daltons)
- Refrigeration required
- Re-constitution / dilution at point of administration for IV products
- Long half-life with month+ washout period

IV, intravenous; TED, thyroid eye disease.

# Linsitinib Manufacturing is Simple and Well Established with Long Shelf Life

Linsitinib



- Three-step synthesis of API with known, reproducible chemistry, high yields and purity
- Produced at 20+ kg scale at multiple vendors
- Exceptional shelf-life (4 years) at room temperature to support commercial launch
- Low cost and complexity of manufacturing

API, active pharmaceutical ingredients; BID, twice daily.



# Linsitinib is the Only Oral, Small Molecule Treatment Under Development for TED

Asset	Target	Route	TED stage of development
Tepezza <sup>1,2</sup>	IGF-1R	IV	Approved
Linsitinib <sup>1,3</sup>	IGF-1R	<b>Oral</b>	Phase 3
VRDN001 and 003 <sup>1,4</sup>	IGF-1R	IV/SC	Phase 3
Satralizumab <sup>1,5</sup>	IL-6	SC	Phase 3
Batoclimab <sup>1</sup>	FcRn	IV	Phase 3
Efgartigimod <sup>1</sup>	FcRn	IV/SC	Phase 3
TOUR006 <sup>1</sup>	IL-6	SC	Phase 2
LASN01 <sup>6</sup>	IL-11R	IV	Phase 2
Lonigutamab <sup>1</sup>	IGF-1R	SC	Phase 2

Disclosed trials/drugs as of December 5, 2024. FcRn, neonatal fragment crystallizable receptor; IGF-1R, insulin-like growth factor 1 receptor; IL, interleukin; IV, intravenous; SC, subcutaneous; TED, thyroid eye disease; TSHR, thyroid-stimulating hormone receptor.

1. Park JW, Yoon JS. *Korean J Ophthalmol.* 2024;38(3):249-259; 2. Nie T, Lamb YN. *Drugs.* 2022;82(17):1663-1670; 3. NCT05276063. CTgov. <https://clinicaltrials.gov/study/NCT05276063>. Accessed August 2024; 4. Thyroid Eye Disease Programs. Viridian. <https://www.viridiantherapeutics.com/pipeline/ted-programs/>. Accessed August 2024; 5. NCT05987423. CTgov. <https://clinicaltrials.gov/study/NCT05987423>. Accessed August 2024; 6. NCT05331300. CTgov. <https://clinicaltrials.gov/study/NCT05331300>. Accessed August 2024.

# Sling is Establishing a Scientific Leadership Role in IGF-1R Pathway Biology and TED with World Leading TED KOLs



Dr. Anja Eckstein

- Head of Department of Oculoplastic and Reconstructive Surgery
- Head of the Orbital Care Center for TED at Essen
- Evaluated and published mouse model demonstrating linsitinib biological activity



Dr. George Kahaly

- Prof. of Medicine and Endocrinology at Johannes Gutenberg University
- World renowned TED KOL and leading scientist and researcher
- Evaluated and published effect of linsitinib on TED cell apoptosis

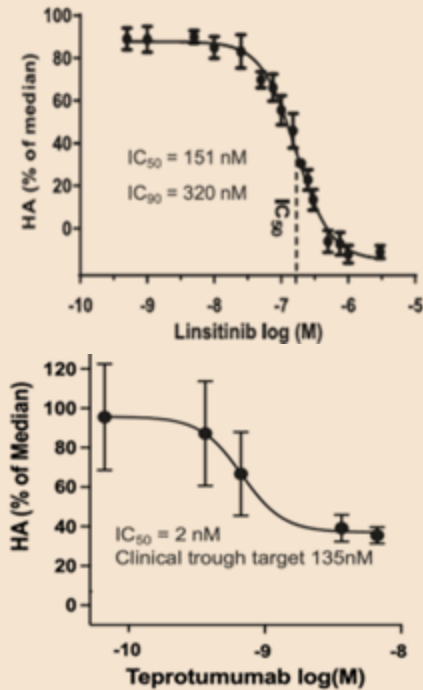
**Sling is widely engaging the scientific community and supporting efforts to maximize the understanding of TED and IGF-1R inhibition**

IGF-1R, insulin-like growth factor 1 receptor; KOL, key opinion leader; TED, thyroid eye disease.

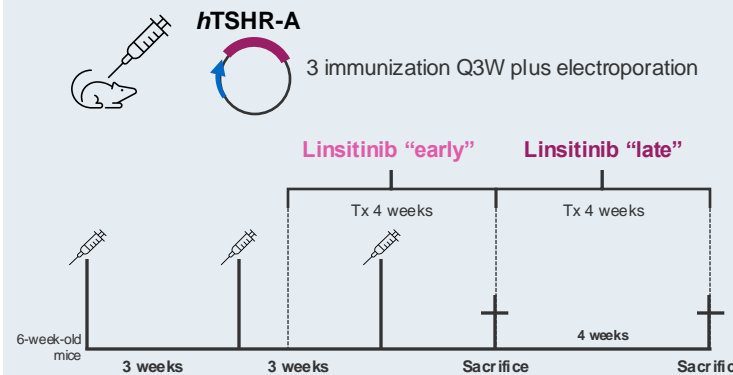
# Growing Scientific Body of Evidence Supporting Linsitinib's Ability to Inhibit IGF-1R to Treat TED

## Linsitinib inhibits human fibroblast cell hyaluronan production

Linsitinib and teprotumumab in human Graves' orbital fibroblast model<sup>a</sup>

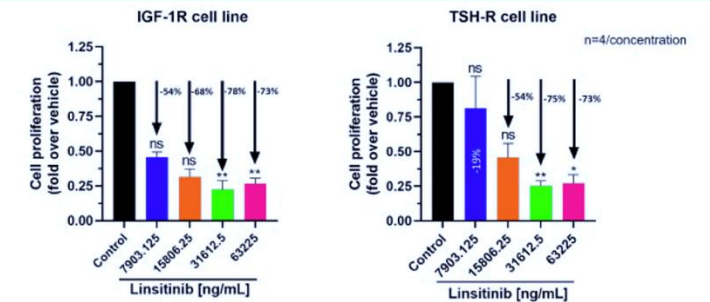


## Linsitinib prevents and treats TED in a disease mouse model<sup>1</sup>

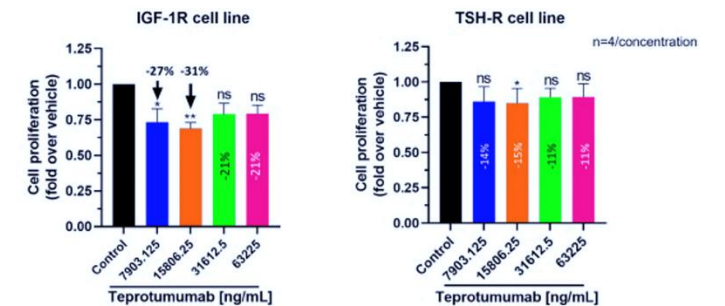


## Linsitinib inhibits proliferation and induces apoptosis of IGF-1R expressing cells<sup>2</sup>

Proliferation assay: Linsitinib



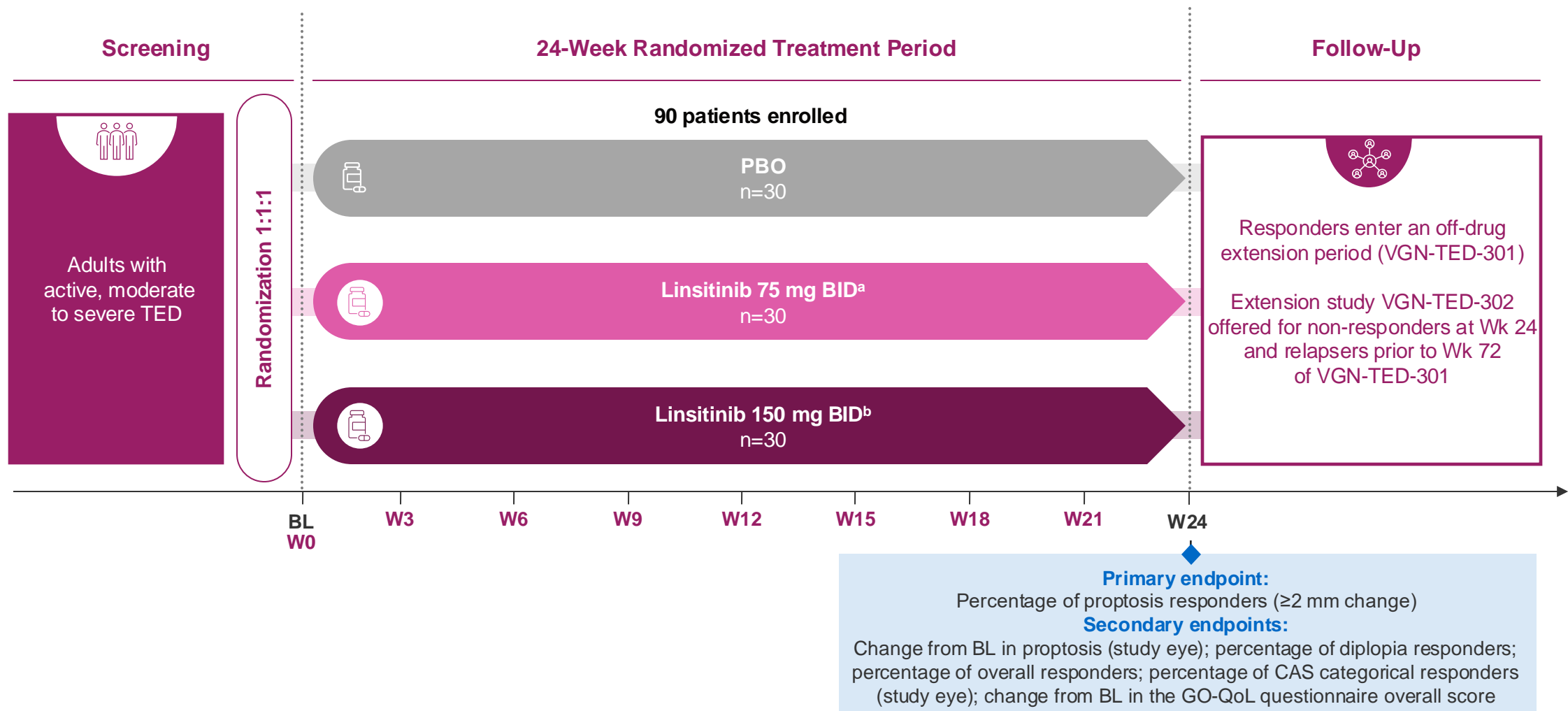
Proliferation assay: Teprotumumab



<sup>a</sup>Tepezza data were replotted in Prism® from data published in Krieger, 2021 to adjust y-axis units to match those from the linsitinib data in Place, et al., 2017. Experiments are performed in the presence of serum. hTSHR, human thyrotropin receptor; IC<sub>50</sub>, half maximal inhibitory concentration; IGF-1R, insulin-like growth factor 1 receptor; Q3W, every 3 weeks; Tx, treatment; TED, thyroid eye disease; TSH-R, thyroid-stimulating hormone receptor.

1. Gulbins A, et al. *Front Endocrinol (Lausanne)*. 2023;14:1211473; 2. Luffy M, et al. *Front Immunol*. 2024;15:1488220 [Epub ahead of print].

# LIDS is a Randomized, Double-Masked, Placebo-Controlled Phase 2b/3 Trial



<sup>a</sup>75 mg BID dose to assess the minimally effective dose in TED; <sup>b</sup>150 mg BID dose safely studied in multiple oncology clinical trials. Phase 2b/3 trial includes many TED KOLs at 35 sites across US, Canada, UK, Italy, Spain. BID, twice daily; BL, baseline; CAS, clinical activity score; GO-QoL, Graves' ophthalmopathy quality of life; PBO, placebo; TED, thyroid eye disease; Wk, week. Sling Therapeutics. Data on File.

# Key Criteria for Patient Eligibility

## Key Inclusion Criteria

- 18 years of age or above
- **Clinical diagnosis of Graves' disease and/or autoimmune Hashimoto's thyroiditis associated with active moderate to severe TED with CAS score  $\geq 4$  in at least one eye**
- **Confirmed active moderate to severe TED diagnosis within the last 12 months**
- Do not require immediate ophthalmic surgery, radiotherapy to orbits or other ophthalmological intervention (prior cataract surgery or LASIK >3 months ago is not exclusionary)
- Euthyroid with baseline disease under control or have mild hypo- or hyperthyroidism at screening

## Key Exclusion Criteria

- Previous orbital irradiation or surgery
- Prior IGF-1R inhibitor therapy for any condition
- Malignant conditions being actively treated or treated in the past 12 months (with the exception of successfully treated basal cell of the skin); recent (within 3 months of screening) basal cell of the eyelid skin is excluded
- Pregnant or lactating women

CAS, clinical activity score; IGF-1R, insulin-like growth factor 1 receptor; LASIK, laser-assisted in situ keratomileusis; TED, thyroid eye disease.  
Sling Therapeutics. Data on file.

# LIDS Phase 2b/3 Study Designed as a Robust Pivotal Study with Numerous Clinical Endpoints

## Study Procedures

- CAS
- CSS including proptosis, motility, diplopia
- GO-QoL questionnaire
- Hyperglycemia evaluation
- ECGs in triplicate
- Eye exams
- Physical exams with vital signs
- Laboratory tests
- Pharmacokinetic assessments
- Pharmacodynamics assessments
- Adverse events, serious adverse events

BL, baseline; CAS, Clinical Severity Score; CSS, Clinical Severity Score; ECG, electrocardiogram; GO-QoL, Graves' ophthalmopathy quality of life. Sling Therapeutics. Data on file.

# Global Study with 35 Sites Participating from US, Canada, UK and EU



# Baseline Demographics and Patient Characteristics

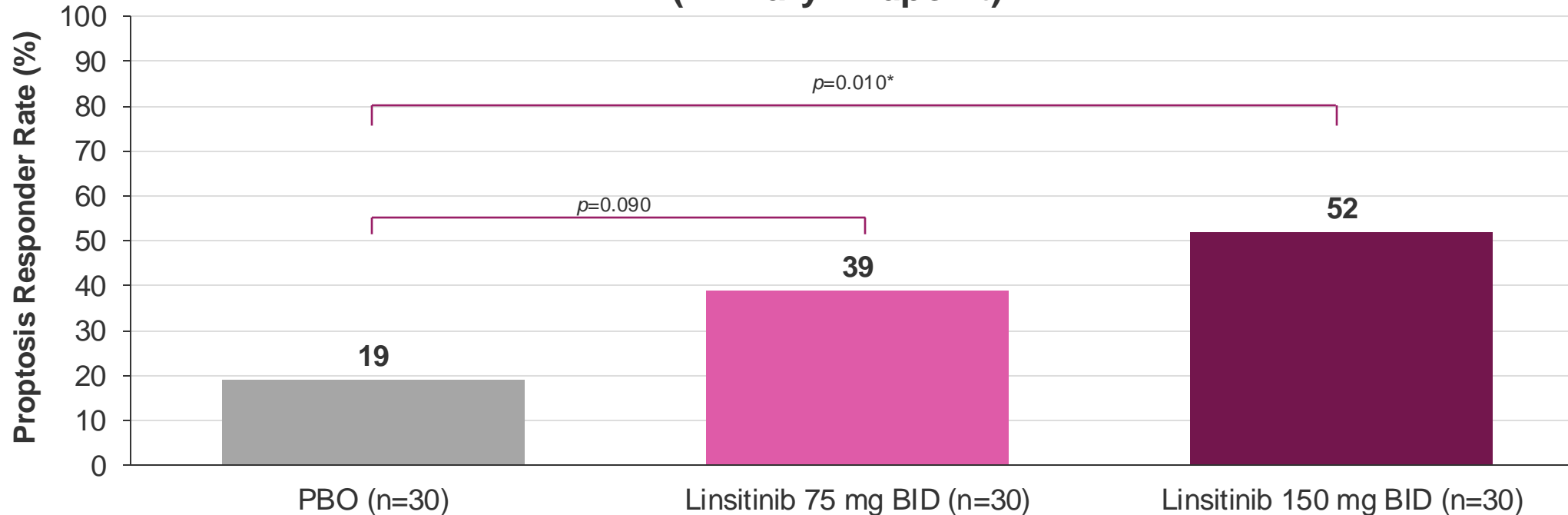
Characteristic	PBO n=30	Linsitinib 75 mg BID n=30	Linsitinib 150 mg BID n=30
Age (years), mean (SD)	50.9	52.8	50.1
Female %	56.7	63.3	70
<b>Race</b>			
White %	86.7	83.3	76.7
Black %	6.7	10	10
Asian %	6.7	3.3	13.3
Other	0.0	0.0	0.0
Smoker %	16.7	36.7	6.7
Proptosis (mm), mean (SD)	23.8	23.0	22.0

BID, twice daily; PBO, placebo; SD, standard deviation; TED, thyroid eye disease.  
Sling Therapeutics. Data on File.



# Proptosis Responder Rate Primary Endpoint Was Statistically Significant for the 150 mg BID Dose

Analysis of Proptosis Response<sup>a</sup> at Week 24 (ITT Population)  
(Primary Endpoint)<sup>b</sup>



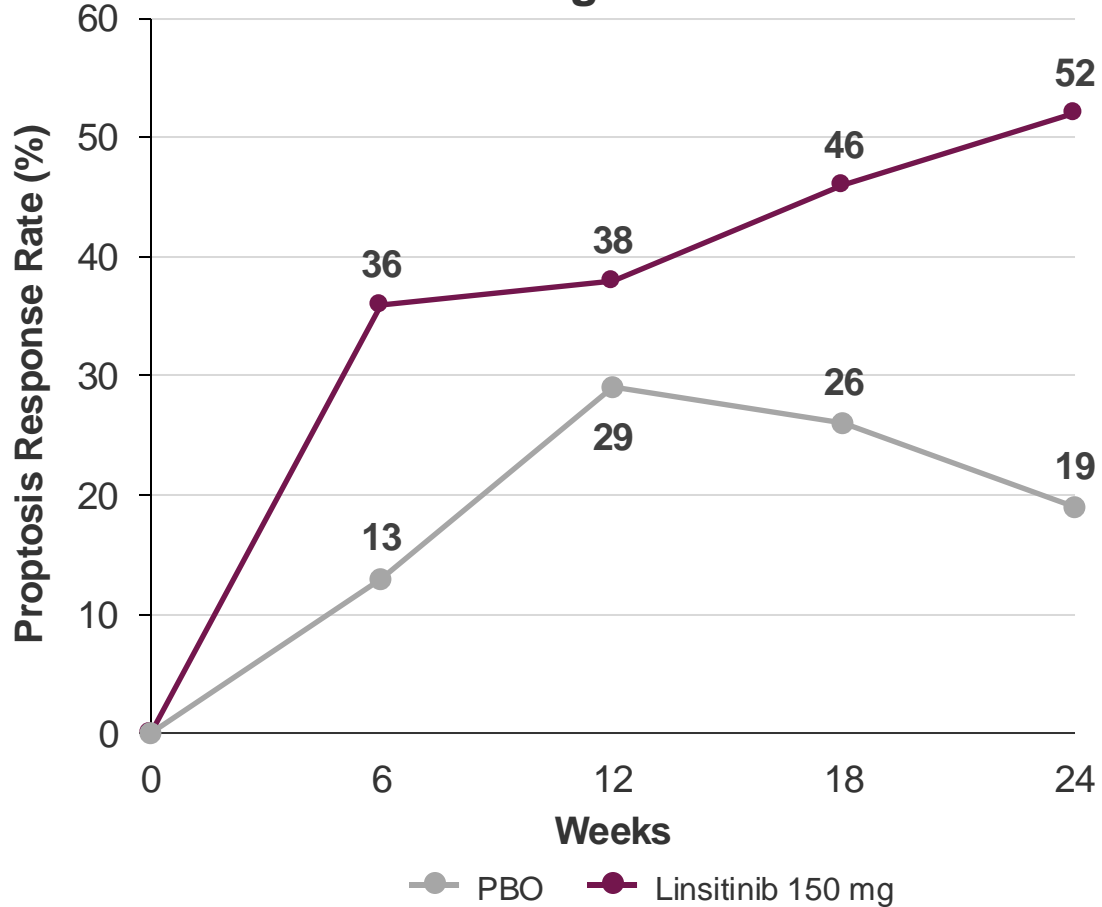
<sup>a</sup>≥2 mm reduction from BL in the primary study eye without deterioration (≥2 mm increase) of proptosis in the contralateral non-study eye; <sup>b</sup>Based upon a CMH test, stratified by smoking status at a one-sided significance level  $\alpha=2.5\%$ . *P*-value is based upon transformed Wilson-Hilferty CMH test statistic. Following Hochberg testing rules, if the larger *p*-value (regardless of dose) is  $<0.025$  then both doses are considered statistically significant from PBO. If the larger *p*-value is  $\geq 0.025$  then this dose is not considered statistically significant and then smaller *p*-value is evaluated at  $\alpha=0.0125$ . If *p*-value is  $<0.0125$  then this dose is considered statistically significant from PBO (indicated by \*).

BID, twice daily; BL, baseline; CI, confidence interval; CMH, Cochran-Mantel-Haenszel; ITT, intent to treat; PBO, placebo; SE, standard error.

Sling Therapeutics. Data on File.

# Linsitinib Responders Show Response Early in the Treatment Course and Continue to Respond Through 24 Weeks

Proptosis Response through Week 24

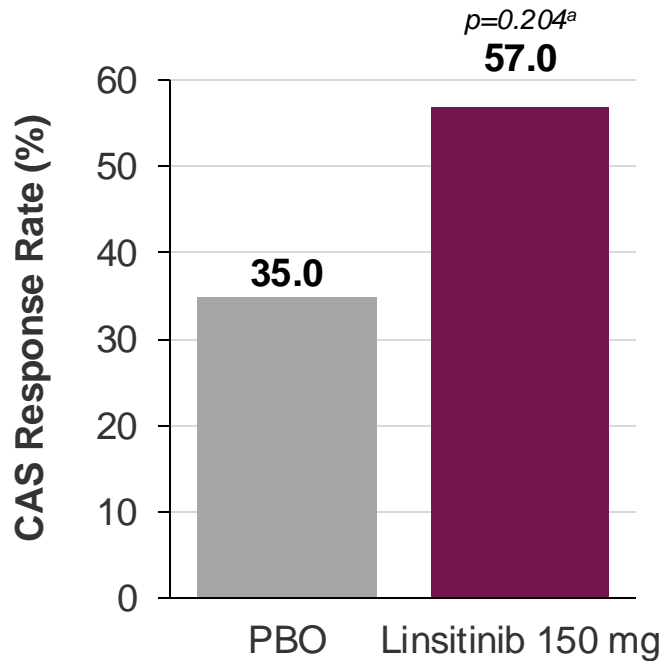


- Majority of responders (~70%) show response by Week 6
- Increasing response rate through Week 24
- High placebo response driven by low n (4 out of 25 patients at Week 24)
- Clear and statistically significant separation from placebo at Week 24

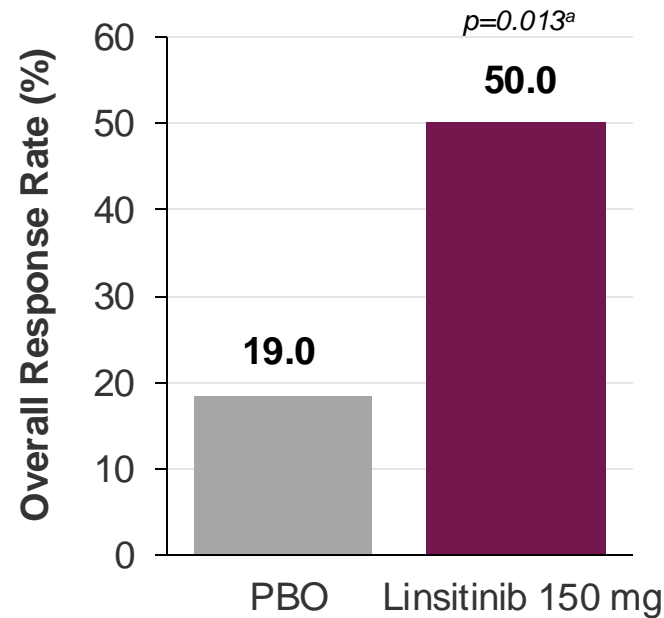
PBO, placebo.  
Sling Therapeutics. Data on File.

# Key Secondary Endpoints Showed Numerical Clinically Meaningful Improvement

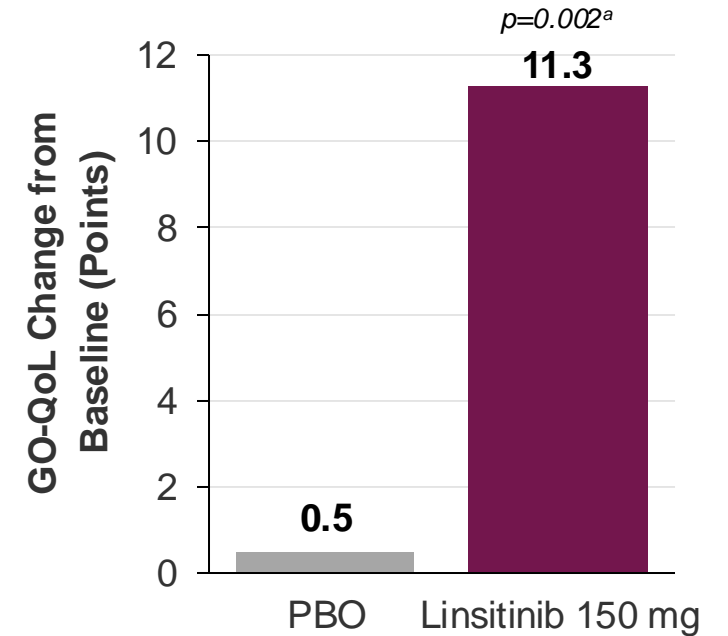
### CAS Response at Week 24



### Overall Response at Week 24



### Change in GO-QoL at Week 24



**Magnitude of drug effect on secondary endpoints similar to other IGF-1R therapies**

<sup>a</sup>Confirmatory statistical testing not performed on secondary endpoints due to hierarchical procedures  
CAS, clinical activity score; GO-QoL, Graves' ophthalmopathy quality of life; IGF-1R, insulin-like growth factor 1 receptor; PBO, placebo.  
Sling Therapeutics. Data on File.

# Summary of Treatment-Emergent Adverse Events

TEAEs	PBO n=31 n (%)	Linsitinib 75 mg BID n=30 n (%)	Linsitinib 150 mg BID n=29 n (%)
TEAE of any grade	22 (71.0)	21 (70.0)	23 (79.3)
TEAE considered possibly related	9 (29.0)	13 (43.3)	16 (55.2)
<b>TEAE leading to study drug discontinuation</b>			
Any	2 (6.5)	5 (16.7)	9 (31.0)
<b>SAE</b>			
Any	1 (3.2)	0 (0.0)	2 (6.9)
AE leading to death	0 (0.0)	0 (0.0)	0 (0.0)

Patients in VGN-TED-301 were randomized to receive PBO (n=30), linsitinib 75 mg (n=30) or linsitinib 150 mg (n=30); the primary endpoint was the percentage of proptosis responders ( $\geq 2$  mm change) at Week 24. One subject from the linsitinib 150 mg BID arm was mis-randomized to placebo and has been included as part of the placebo group for all safety assessments. AE, adverse event; BID, twice daily; PBO, placebo; SAE, serious adverse event; TEAE, treatment emergent adverse event. Sling Therapeutics. Data on File.

# Treatment-Emergent AEs >10% in Any Treatment Group

Any TEAE >10% in any treatment group	PBO n=31 n (%)	Linsitinib 75 mg BID n=30 n (%)	Linsitinib 150 mg BID n=29 n (%)
Diarrhea	2 (6.5)	4 (13.3)	6 (20.7)
Headache	1 (3.2)	3 (10.0)	6 (20.7)
Nausea	1 (3.2)	3 (10.0)	6 (20.7)
Fatigue	2 (6.5)	5 (16.7)	5 (17.2)
ALT increased	0.0	3 (10.0)	4 (13.8)
Hyperhidrosis	0.0	1 (3.3)	4 (13.8)
Muscle spasms	1 (3.2)	2 (6.7)	3 (10.3)
AST increased	0.0	2 (6.7)	3 (10.3)
Alopecia	0.0	3 (10.0)	0.0
Nasopharyngitis	1 (3.2)	2 (6.7)	0.0

One subject from the linsitinib 150 mg BID arm was mis-randomized to placebo and has been included as part of the placebo group for all safety assessments. AE, adverse event; ALT, alanine transaminase; AST, aspartate transaminase; BID, twice daily; PBO, placebo; TEAE, treatment-emergent adverse event. Sling Therapeutics. Data on File.

# Very Few Treatment-Emergent AEs of Interest Observed

TEAE of Interest	PBO n=31 n (%)	Linsitinib 75 mg BID n=30 n (%)	Linsitinib 150 mg BID n=29 n (%)
Tinnitus	1 (3.2)	1 (3.3)	1 (3.4)
Hypoacusis / hearing impairment	0.0	0.0	1 (3.4) <sup>a</sup>
Glycosylated hemoglobin increased	1 (3.2)	0.0	0.0
Hyperglycemia	0.0	1 (3.3)	1 (3.4)
Menstrual changes	0.0	0.0	0.0

- Minimal and not clinically meaningful AEs relating to hearing, no study drug discontinuations due to hearing AEs
  - 0% placebo adjusted tinnitus rate
  - Only 1 hearing impairment on linsitinib, assessed as unrelated to treatment
- 3.4% (1 out of 29) with hyperglycemia with no medical intervention required to treat
- No observed menstrual changes
- Rigorous assessment by ECG throughout study showed no QTc prolongation in any patient
- No patients TED disease progressed while on treatment

<sup>a</sup>Assessed as unrelated to treatment.

One subject from the linsitinib 150 mg BID arm was mis-randomized to placebo and has been included as part of the placebo group for all safety assessments. AE, adverse event; BID, twice daily; ECG, electrocardiogram; PBO, placebo; QTc, corrected QT interval.

Sling Therapeutics. Data on File.

# As the Only Oral Treatment with a Positive Study in Patients with TED, Linsitinib is Poised to Change the Treatment Paradigm

Given disease biology expect IGF-1R inhibitors to continue to be used first line



There are obstacles associated with existing IGF-1R inhibitors...

- Concern over side effects, particularly hearing impairment and hyperglycemia
- Access to prescribing physicians
- Inconvenience of IV infusions

...which could be overcome with a safe, effective, oral IGF-1R therapy:

- Lower patient hurdles to accepting treatment
- Simplified administration for physicians and patients
- Potential expansion of prescriber base



Rapid response and no disease progression observed on therapy

Minimal downside to initiating linsitinib



**Opportunity for more patients to consider and receive a therapeutic intervention for TED**

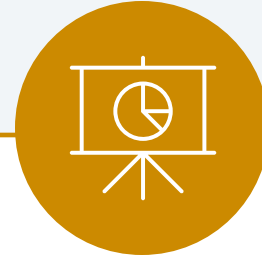
# We are Excited to Continue to Advance Linsitinib as a Treatment Option for Patients with TED



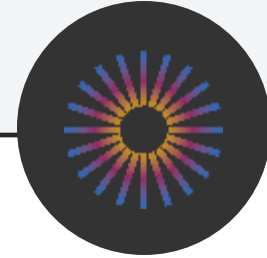
Engage with health authorities to confirm submission requirements



Initiate confirmatory Phase 3 study



Present full results of clinical trial at an upcoming medical meeting



Continue to build and grow our team and program

TED, thyroid eye disease.





# Thank you