

Next Generation TED Therapy in Clinical Development

THRIVE Phase 3 Trial of VRDN-001: A Full Antagonist Antibody to the IGF-1 Receptor for Thyroid Eye Disease (TED)

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KEY TAKEAWAYS

- THRIVE is a phase 3 randomized placebo-controlled trial to assess the efficacy and safety of **VRDN-001**, a full antagonist antibody to IGF-1R, in patients with TED.
- The trial is designed to identify a regimen that best balances efficacy, safety, and patient treatment burden.
- The study is currently enrolling patients with active, moderate-to-severe TED in North America and Europe, with topline results expected mid-2024.

PATIENT POPULATION

Sites



Approximately 50 sites across North America and Europe

Patients



Female or male with active TED

INTRODUCTION

- VRDN-001** is a novel full antagonist monoclonal antibody targeting IGF-1R.
- Preclinical studies have shown **VRDN-001** is a full antagonist of IGF-1R providing more complete receptor blockade than other anti-IGF-1R antibodies, including the only currently approved TED therapy.¹
- Data from the **VRDN-001** phase 2 proof-of-concept study in patients with active TED demonstrated marked improvements in proptosis, inflammation, and diplopia.² (Presented in NANOS platform session II)
- The THRIVE phase 3 study will assess the safety and efficacy of **VRDN-001** treatment regimens in a larger population of patients with active TED (NCT05176639).



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Key inclusion criteria



Active TED and CAS ≥ 4 in study eye



Moderate-to-severe TED



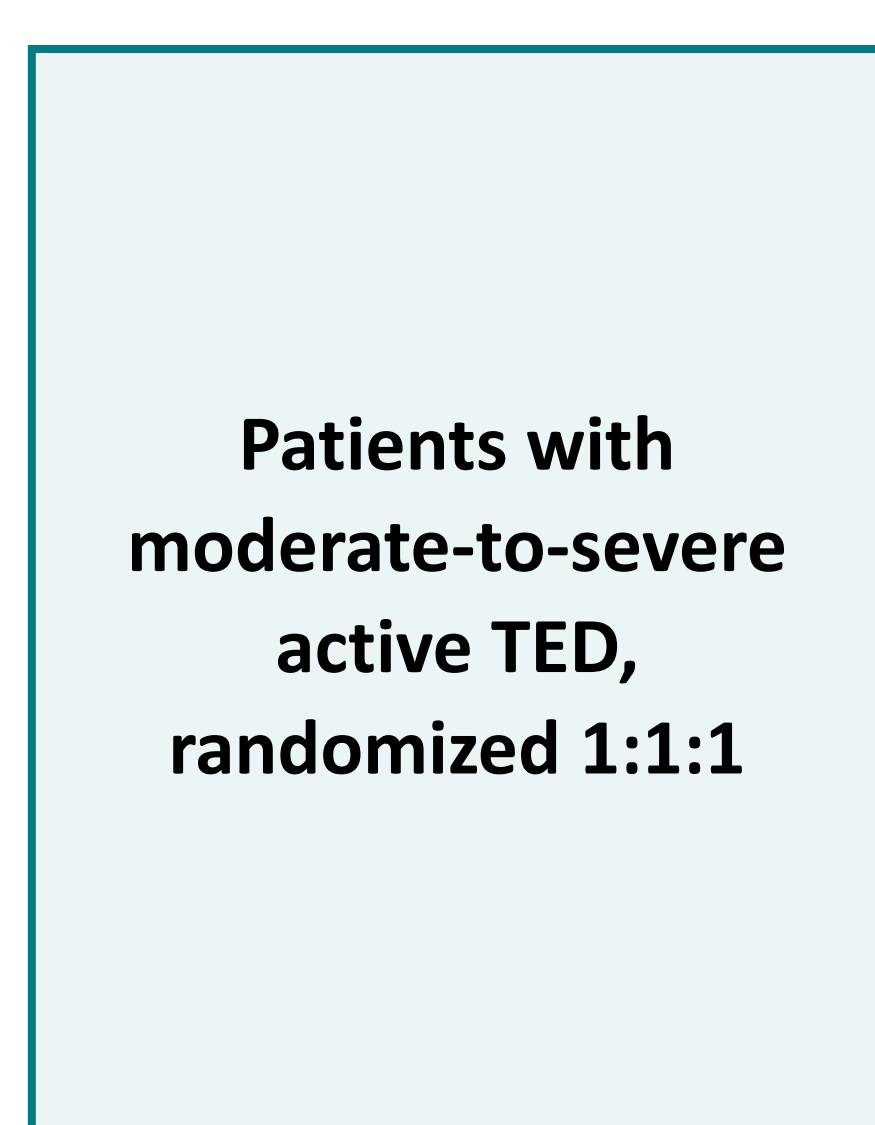
Recent onset of TED signs and symptoms

Key exclusion criteria

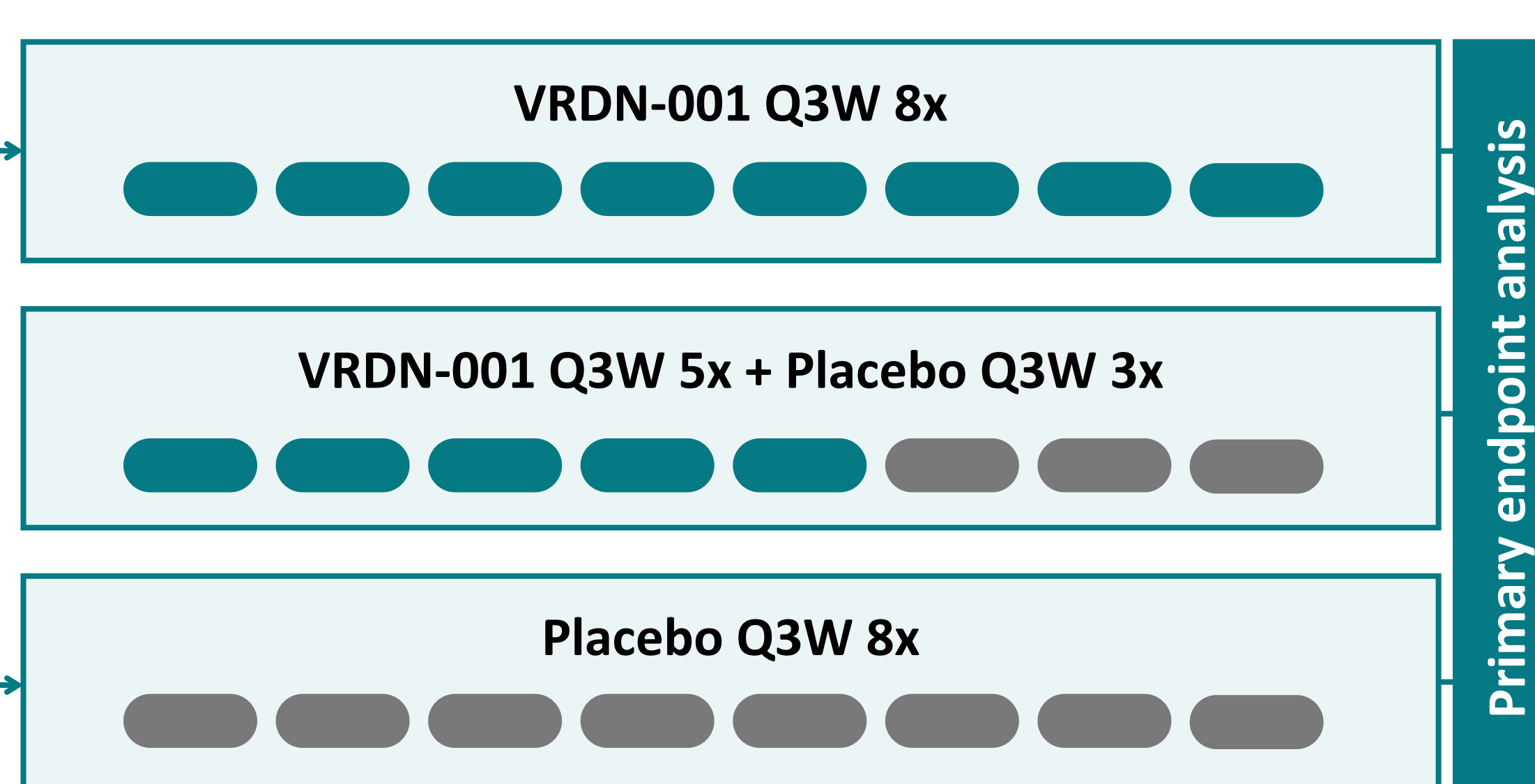
- Prior treatment with an IGF-1R antibody or any investigational agent for TED
- Systemic corticosteroids within 2 weeks or immunosuppressants within 60 days
- Compressive optic neuropathy requiring surgical decompression
- Clinically significant ear pathology, ear surgery, or hearing loss
- Inflammatory bowel disease

PROPOSED TRIAL DESIGN

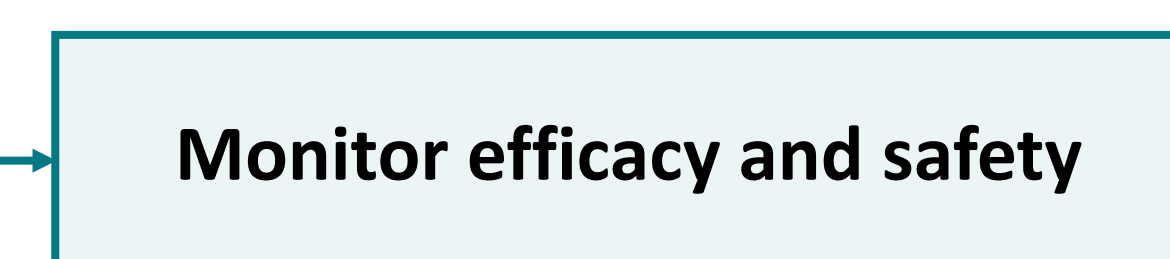
Screening/Enrollment



Double-Masked Treatment Period (24 weeks)



Double-Masked Observational Period (28 additional weeks)



At 24 weeks, non-responders (active or placebo) can enter a separate open-label extension study to receive VRDN-001.

ENDPOINTS

- Primary efficacy endpoint in North America: proptosis responder rate (reduction ≥ 2 mm vs baseline).
- Primary efficacy endpoint in Europe: overall responder rate (combined proptosis reduction ≥ 2 mm and CAS reduction ≥ 2 points).
- Additional secondary endpoints: measures of diplopia, CAS, MRI/CT volumetric analyses, and quality of life.
- Safety and tolerability will be assessed throughout the full study period.

Disclosures: This study is sponsored by Viridian Therapeutics Inc. **VRDN-001** is an investigational treatment. Formatting and editorial assistance was provided by Shula Pollard, PhD, employed by Viridian Therapeutics Inc. All authors met the ICMJE authorship criteria and had full access to relevant data. BK, RS, and DOS are employees of Viridian Therapeutics Inc. RSD has consulted for, conducted studies funded by, or received honoraria for services provided to Viridian Therapeutics Inc. The authors would like to thank the study investigators, research teams, and the study participants who make this research possible.

References: 1. Zhao Y et al. *Thyroid*. 2022; 32:S1, Poster 132; 2. Ugradar S et al. *Thyroid*. 2022; 32:S1, Poster 535.

PDF of poster and additional information: Scan QR code.

Abbreviations used in poster: CAS, clinical activity score; IGF-1R, insulin-like growth factor 1 receptor; Q3W, every 3 weeks.

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Clinical Trial ID: NCT05176639



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