

TOURMALINE

Corporate Overview

March 2025

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Our mission

We are driven by our mission to develop transformative medicines that dramatically improve the lives of patients with life-altering immune and inflammatory diseases



Experienced leadership team

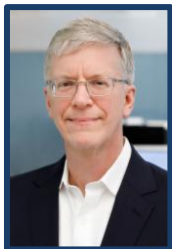
Management Team



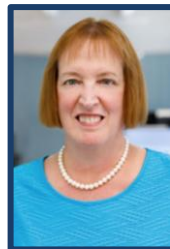
Sandeep Kulkarni, MD
*Co-Founder and
Chief Executive Officer*



Ryan Robinson, CPA
Chief Financial Officer



Brad Middlekauff, JD
*Chief Business Officer and
General Counsel*



Susan Dana Jones, PhD
Chief Technology Officer



Kevin Johnson, PhD
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Key highlights



An IL-6 renaissance is underway: new insights emerging about a broad range of indications where IL-6 may be clinically validated



Pacibekitug (also referred to as TOUR006) has demonstrated best-in class potential: long-acting, low immunogenicity, and low-volume subcutaneous administration observed in clinical trials to date



Two paths to significant value creation: (1) cardiovascular inflammation and (2) thyroid eye disease



A late-stage clinical company: Phase 2 TRANQUILITY trial in CV and pivotal Phase 2b spiriTED trial in TED ongoing



Two potentially transformative data readouts expected in 2025: Topline data from TRANQUILITY trial expected in Q2 2025 and topline data from spiriTED trial expected in H2 2025



Well-financed: cash expected to fund operations into H2 2027, enabling the delivery of key anticipated milestones for both paths

Pacibekitug: a long-acting anti-IL-6 monoclonal antibody with best-in-class potential



Attributes observed to date

Long-acting with terminal half-life of ~7 weeks¹

>90% pathway inhibition after single 10mg dose²

Fully human with ADAs in only 0.5% of patients³

High affinity to IL-6⁴

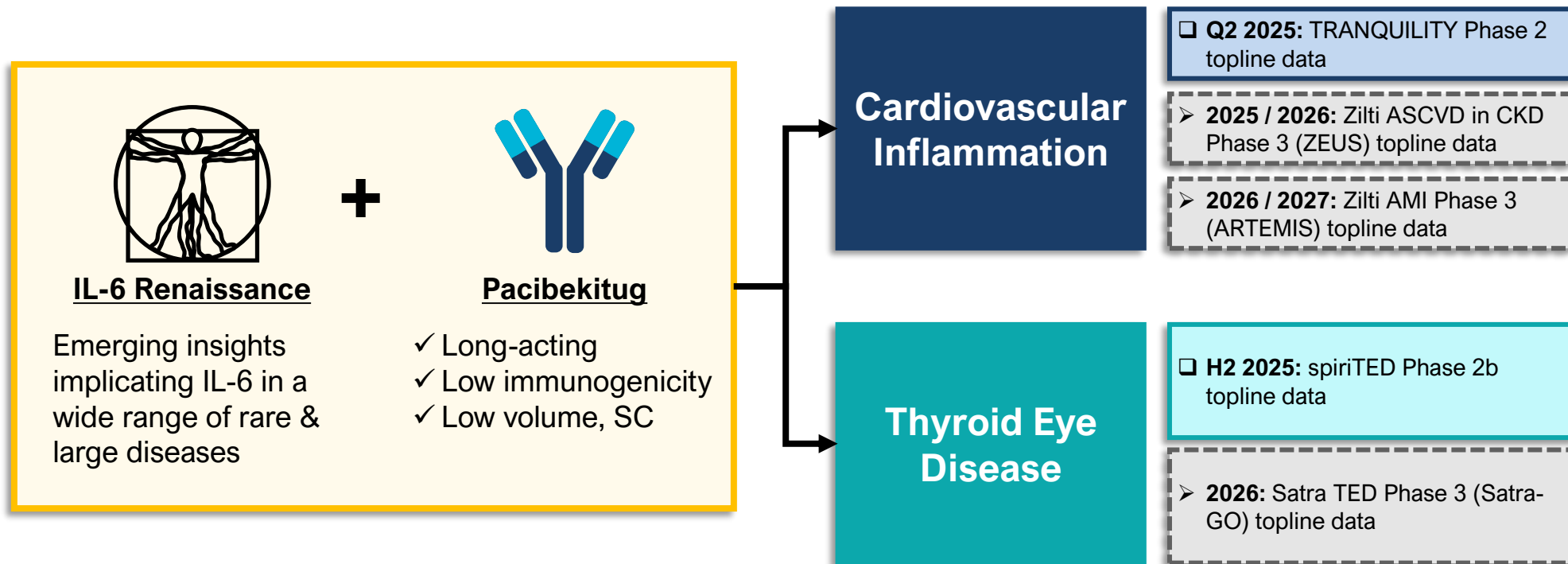
Existing data from approximately **450 study participants**¹



Potential value to patients

- **Dosing quarterly**⁵ (CV) or **every 8 weeks**⁶ (TED)
- **Rapid and robust impact** across diseases
- Durable benefit **without need to increase dose**
- Volume of ≤ 1 ml for **SC injection**^{5,6}
- Generally **well-tolerated safety profile** observed to date

Two paths to unlock major value creation








Milestones key:

☐ Internal

☐ External

The timing of regulatory and clinical trial milestones are subject to change and additional discussion with the FDA
AMI: acute myocardial infarction. ASCVD: atherosclerotic cardiovascular disease. CKD: chronic kidney disease. Satra: satralizumab. TED: thyroid eye disease. Zilti: ziltivekimab

Clinical development plan for pacibekitug

Disease Focus	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Expected key milestones
Cardiovascular inflammation	Atherosclerotic Cardiovascular Disease (ASCVD)					 Phase 2 topline data expected in Q2 2025
	Abdominal aortic aneurysm (AAA)					Phase 2 PoC trial initiation expected after TRANQUILITY topline data
Autoimmune disease	Thyroid Eye Disease (TED)					 Phase 2b topline data expected in H2 2025

Note: the hatched bar represents a trial that has not yet commenced

The timing of clinical trial milestones is subject to change and additional discussion with the FDA

Cardiovascular Inflammation

Reducing inflammation: the next frontier in CV diseases



Increasing validation for IL-6 driven inflammation as a critical and modifiable risk factor driving residual cardiovascular risk



Potential of IL-6 inhibition spans a broad range of cardiovascular indications, affecting tens of millions of patients globally



Converging lines of human evidence across multiple settings support the transformative potential of IL-6 inhibition



IL-6 inhibition is being evaluated in multiple cardiovascular outcomes trials with external readouts expected over the next 12 to 24 months

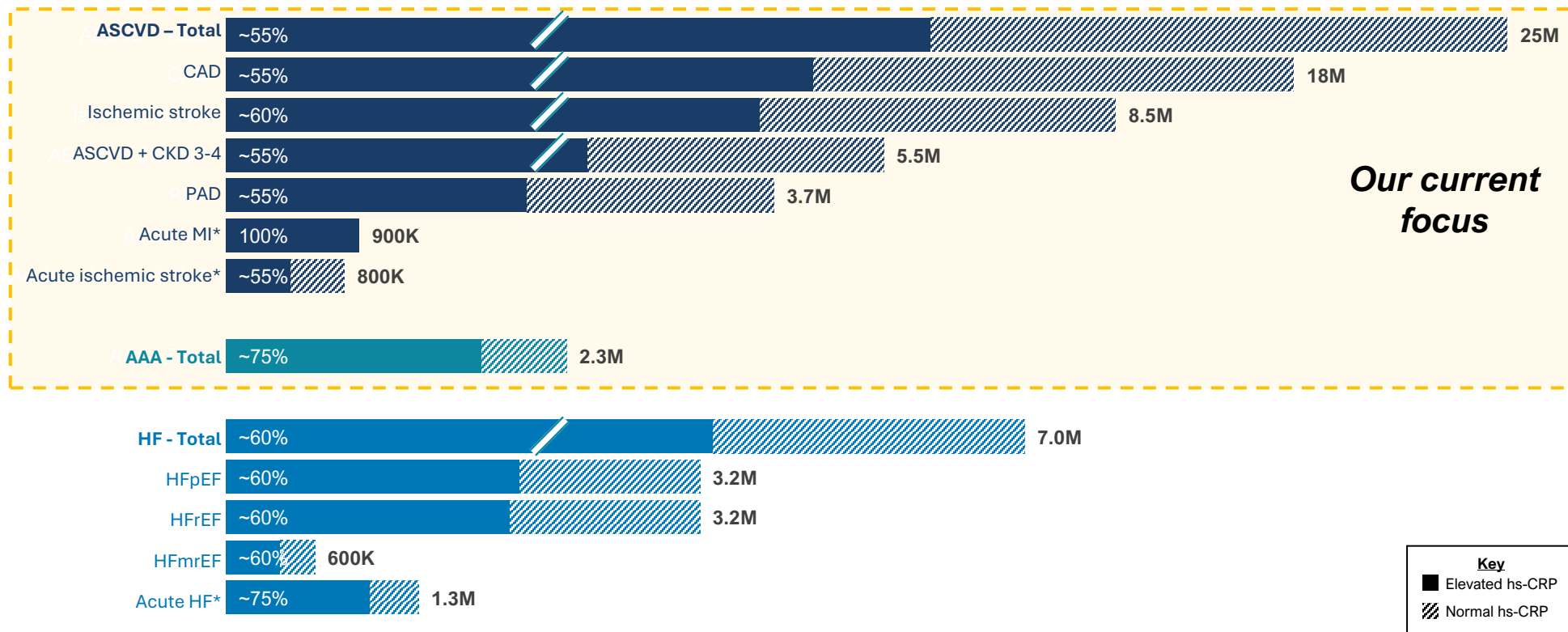


Pacibekitug's potentially best-in-class profile, including quarterly SC administration, is being evaluated in the Phase 2 TRANQUILITY trial – over-enrollment completed, topline data expected in Q2 2025

IL-6 inhibition has the potential to address millions of patients across a wide range of inflammation mediated CV conditions

Estimated US prevalence (2024)¹

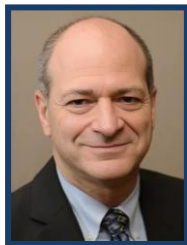
Populations are not mutually exclusive



World-class Cardiovascular Scientific Advisory Board guiding our development strategy for pacibekitug



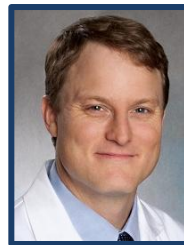
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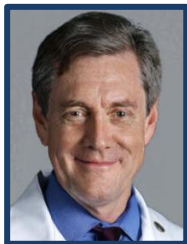
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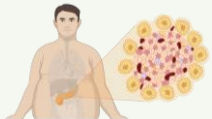
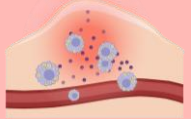


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Cardiovascular inflammation largely unaddressed by existing treatments

Atherothrombotic Pathways	Thrombosis 	Hypertension 	Atherogenic lipoproteins 	Diabetes, Insulin resistance, Obesity 	Inflammation 
Biomarkers	None readily available	Blood pressure	ApoB, Non-HDL-C, LDL-C, Triglycerides, Lipoprotein(a)	HbA1c, Fasting glucose, Weight	C-reactive protein
Approved Therapies	Aspirin P2Y12R inhibitors Factor Xa inhibitors PAR-1 antagonists	ACEI/ARB Calcium channel blockers Thiazide diuretics Renin inhibitors Beta-blockers Mineralocorticoid antagonists	Statins PCSK9 inhibitors Icosapent ethyl NPC1L1 inhibitors ACL inhibitors Bile acid sequestrants MTP inhibitors ANGPTL3 inhibitors Apheresis	SGLT2 inhibitors GLP-1 agonists GIP/GLP-1 agonists	Colchicine
Therapies in Late-Stage Development	Factor XI inhibitors Factor XIa inhibitors	Angiotensinogen inhibitors Aldosterone synthase inhibitors Endothelin antagonists Renal denervation Baroreceptor activation	CETP inhibitors Lipoprotein(a) inhibitors ApoC3 inhibitors Fibrates CRISPR PCSK9 base editing	GIP/GLP-1/glucagon agonists Amylin agonists GIP-1/amylin agonists	IL-6 inhibitors NLRP3 inhibitors

List of therapies not exhaustive. ACEI: angiotensin-converting enzyme inhibitor. ACL: adenosine triphosphate-citrate lyase. ANGPTL3: angiotensin-like protein 3. ApoB: apolipoprotein B. ApoC3: apolipoprotein C3. ARB: angiotensin receptor blocker. CETP: Cholesteryl ester transfer protein. CRISPR: clustered regularly interspaced short palindromic repeats. GIP: gastric inhibitory polypeptide. GLP-1: glucagon-like peptide-1. IL-6: Interleukin-6. MTP: microsomal triglyceride transfer protein. NLRP3: nucleotide-binding domain, leucine-rich-containing family, pyrin domain-containing-3. NPC1L1: Niemann-Pick C1-Like 1. PAR: protease-activated receptors. PCSK9: proprotein convertase subtilisin/ kexin type 9. P2Y12R: purinergic 2Y type 12 receptor. SGLT2: sodium-glucose cotransporter 2.

Increasing recognition of inflammation & IL-6 as drivers of CV risk



RESEARCH LETTER

Genetically Downregulated Interleukin-6 Signaling Is Associated With a Favorable Cardiometabolic Profile

A Phenome-Wide Association Study

Association of Interleukin 6 Receptor Variant With Cardiovascular Disease Effects of Interleukin 6 Receptor Blocking Therapy A Phenome-Wide Association Study

Tianxi Cai, ScD, Yichi Zhang, PhD, Yuli-Lam Ho, MPH, Nicholas Link, BA, Jiehua Sun, PhD, Jie Huang, MS, Tianrun A. Cai, MD, Scott Damrauer, MD, Yuri Ahuja, BS, Jacqueline Honerlaw, RN, BSN, MPH, Jie Huang, PhD, Lauren Costa, MPH, Petra Schubert, MPH, Chuan Hong, PhD, David Gagnon, MD, MPH, PhD, Yan V. Sun, PhD, J. Michael Gaziano, MD, MPH, Peter Wilson, MD, Kelly Cho, PhD, MPH, Philip Tsao, PhD, Christopher J. O'Donnell, MD, MPH, Katherine P. Liao, MD, MPH, for the VA Million Veteran Program

RESEARCH LETTER

A Missense Variant in the IL-6 Receptor and Protection From Peripheral Artery Disease

Michael G. Levin, Derek Klarin, Marios K. Georgakis, Julie Lynch, Katherine P. Liao, Benjamin F. Voight, Christopher J. O'Donnell, Kyong-Mi Chang, Themistocles L. Assimes, Philip S. Tsao, Scott M. Damrauer, on behalf of the VA Million Veteran Program

Interleukin-6 in Patients With Heart Failure and Preserved Ejection Fraction

Alessio Alogna, MD, PhD, Katlyn E. Koepp, PhD, Michael Sabbah, MD, Jair M. Espindola Netto, PhD, Michael D. Jensen, MD, James L. Kirkland, MD, PhD, Carolyn S.P. Lam, MBBS, Masaru Obokata, MD, PhD, Mark C. Petrie, MD, Paul M. Ridker, MD, MPH, Hidemi Sorimachi, MD, PhD, Tamara Tchukonia, PhD, Adriaan Voors, MD, PhD, Margaret M. Redfield, MD, Barry A. Borlaug, MD

Research Letter

Genetically Proxied IL-6 Receptor Inhibition and Coronary Artery Disease Risk in a Japanese Population

Sizheng Steven Zhao^{1,*}, Dipender Gill²

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² Department of Epidemiology and Biostatistics, Imperial College London, London, UK

RESEARCH ARTICLE

Circulating Interleukin-6 Levels and Incident Ischemic Stroke

A Systematic Review and Meta-analysis of Prospective Studies

Andreas Papadopoulos, MD, Konstantinos Palaiojanos, MD, Harry Björkbacka, PhD, Annette Peters, PhD, James A. de Lemos, MD, Sudha Seshadri, MD, Martin Dichgans, MD, and Marios K. Georgakis, MD, PhD

Neurology® 2022;98:e1002-e1012. doi:10.1212/WNL.00000000000013274

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Quantifying inflammation using interleukin-6 for improved phenotyping and risk stratification in acute heart failure

Eleni Michou¹, Desiree Wussler^{1,2}, Maria Belkin¹, Cornelia Simmen¹, Ivo Strebel¹, Albina Nowak^{2,4}, Nikola Kozuharov¹, Samyut Shrestha¹, Pedro Lopez-Ayala¹, Zaid Sabti¹, Constantin Mork¹, Matthias Diebold¹, Tiffany Péquignot¹, Katharina Rentsch⁵, Arnold von Eckardstein⁶, Danielle M. Gualandro¹, Tobias Breidhardt^{1,2}, and Christian Mueller^{1*}

ORIGINAL RESEARCH

Elevated Interleukin-6 Levels Are Associated With an Increased Risk of QTc Interval Prolongation in a Large Cohort of US Veterans

Pietro Enea Lazzerini, MD, Michael Cupelli, PhD, Alessandra Cortocci, MD, Jacopo Bertolotti, MD, Viola Salvini, MD, Riccardo Accioli, MD, Fabio Salvadori, MD, Tommaso Marzotti, MD, Decoroso Vermeiga, MD, Gabriele Cevenini, MD, BioEng. Stefania Biegno, MD, Maurizio Biondi, MD, Giovanni Donati, MD, Scilla Bernardini, MD, Franco Lugli-Pastri, MD, Maurizio Acampa, MD, Pier Leopoldo Capecechi, MD, PhD, Nabil El-Sherif, MD, Mohamed Boutjdir, PhD

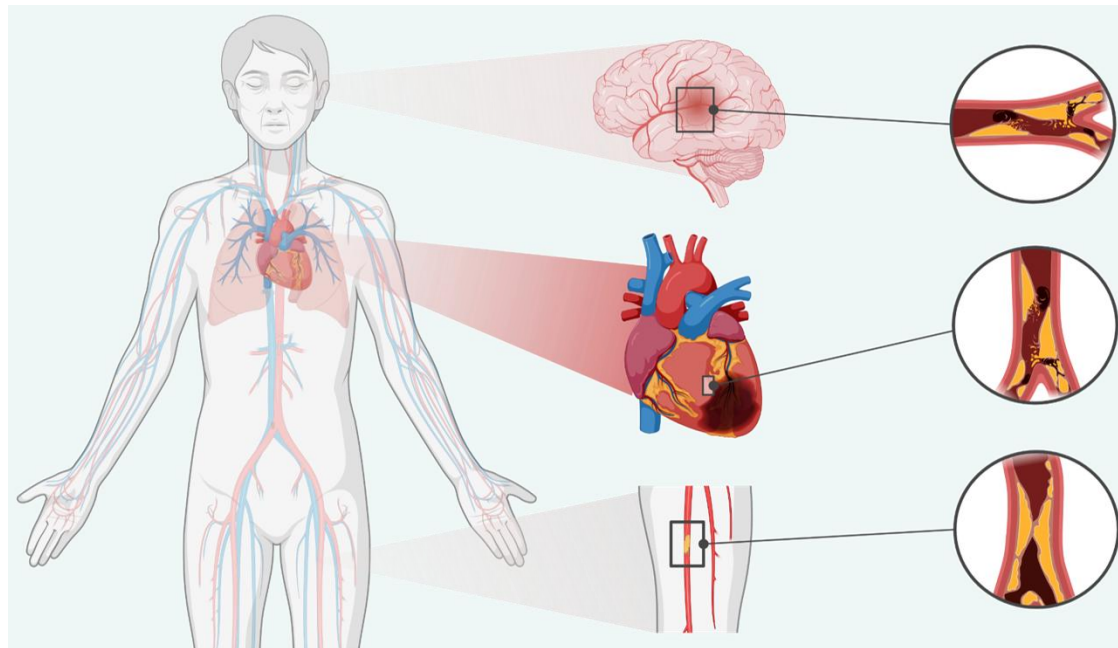
Associations of genetically predicted IL-6 signaling with cardiovascular disease risk across population subgroups

Marios K. Georgakis^{1,2,3*}, Rainer Malik³, Tom G. Richardson⁴, Joanna M. M. Howson⁴, Christopher D. Anderson^{1,2,5}, Stephen Burgess^{6,7}, G. Kees Hovingh^{8,9}, Martin Dichgans^{3,10,11} and Dipender Gill^{4,6,12,13*}

Convergence of human evidence supports therapeutic potential of IL-6 inhibition for ASCVD



Evidence suggests IL-6 may drive ASCVD risk



Human genetic studies provide initial support for IL-6 pathway inhibition to lower ASCVD risk



Concordance between results of human genetic studies and randomized clinical trials

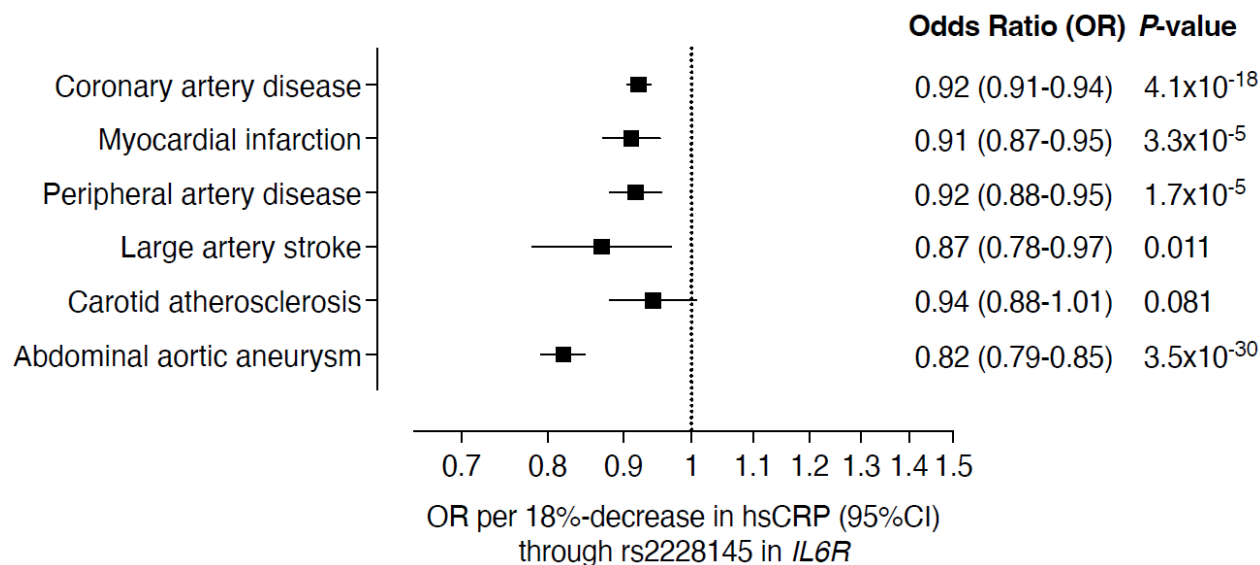
Therapeutic target	Genetic Result	RCT Result
Lowering LDL-C to lower ASCVD risk ^{1,2}	Positive	Positive
Inhibiting IL-6 to treat polymyalgia rheumatica ^{3,4}	Positive	Positive
Lowering blood pressure to lower ASCVD risk ^{5,6}	Positive	Positive
Raising HDL-C to lower ASCVD risk ^{7,8}	Negative	Negative
Inhibiting LpPLA2 to lower ASCVD risk ^{9,10}	Negative	Negative
Lowering Lp(a) to lower ASCVD risk ¹¹	Positive	Trials Ongoing
Inhibiting IL-6 to lower ASCVD risk ¹²⁻¹⁶	Positive	Trials Ongoing

“Probability of success for drug mechanisms with genetic support is 2.6 times greater than those without.”¹⁷

IL-6R gene variant mimicking low-dose IL-6 pharmacological blockade is consistently associated with a lower risk of ASCVD



IL-6R gene variant rs2228145 associated with lower risk of ASCVD¹



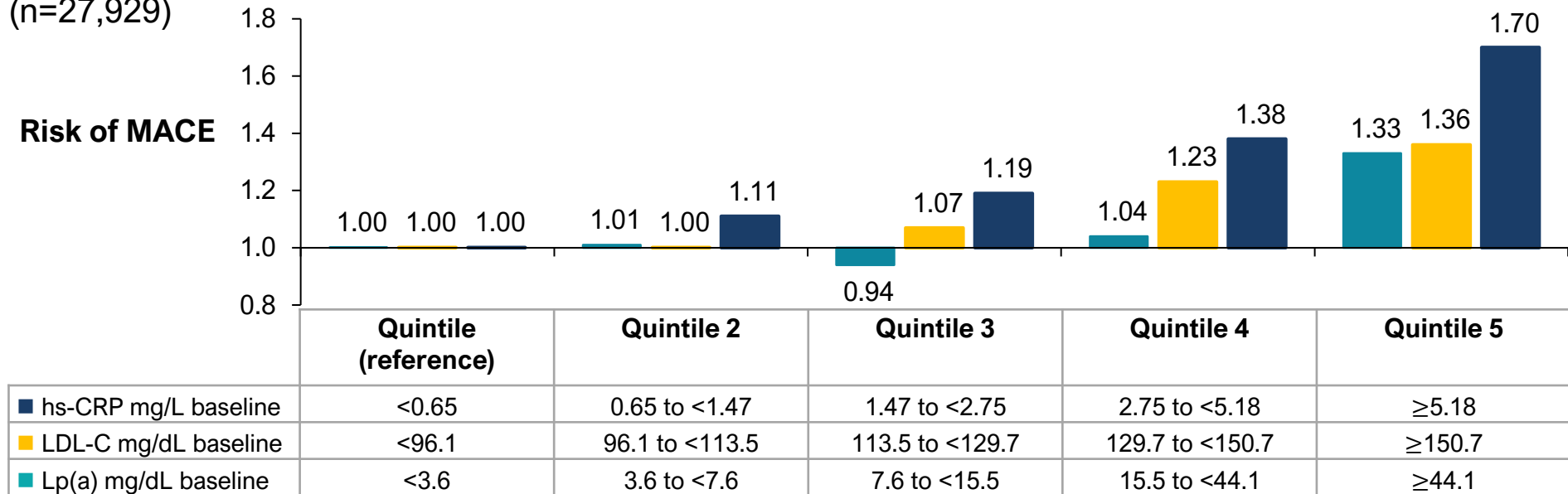
- rs2228145 is a common functional IL-6R gene variant (p.Asp358Ala)
- Prevalence of 30-40% (Europe)²⁻⁵
- Increased IL-6R ectodomain splicing by ADAM10/17²
- Carriers of rs2228145 demonstrated concordant changes in downstream biomarkers compared with tocilizumab (↓CRP, fibrinogen; ↑albumin, sIL-6R)²⁻⁵
- Modest reduction in hs-CRP ~9% per allele⁶

Emerging evidence suggests that hs-CRP is more strongly associated with MACE than both LDL and Lp(a)



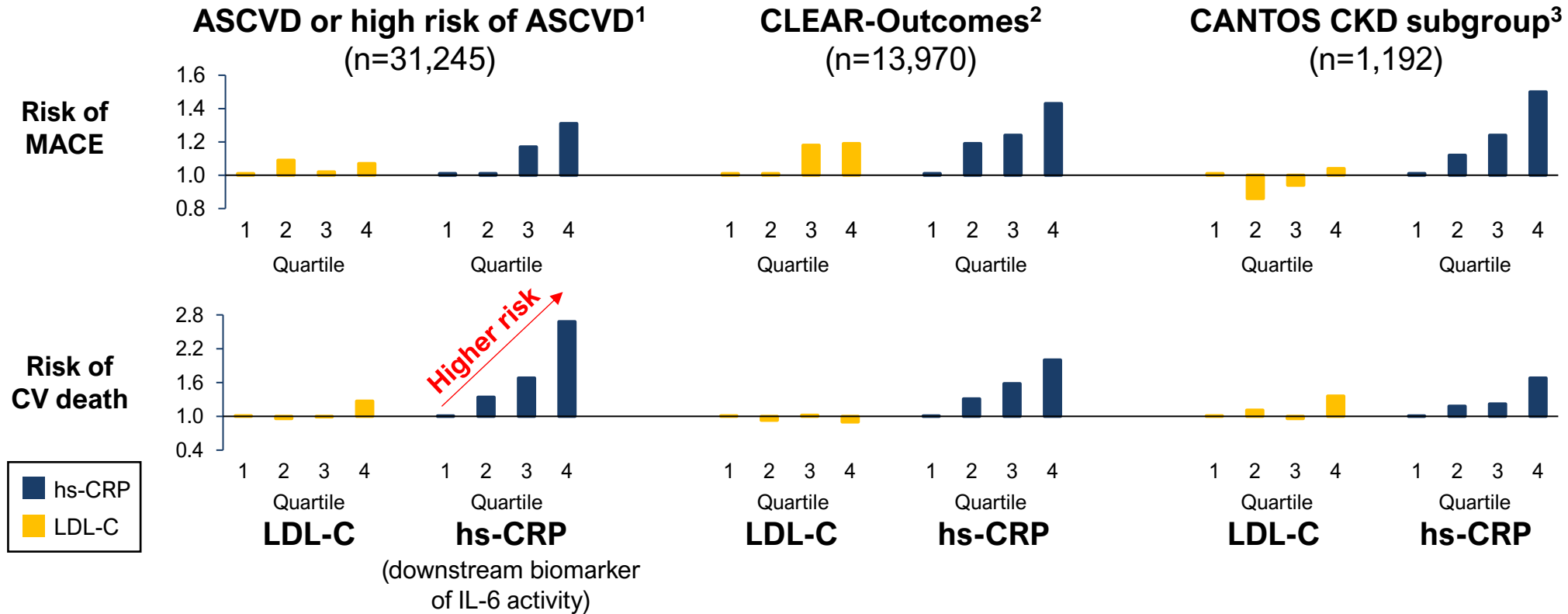
Late breaking data presented at European Society of Cardiology 2024 Congress and simultaneously published in the New England Journal of Medicine

30-year longitudinal data from the Women's Health Study¹
(n=27,929)

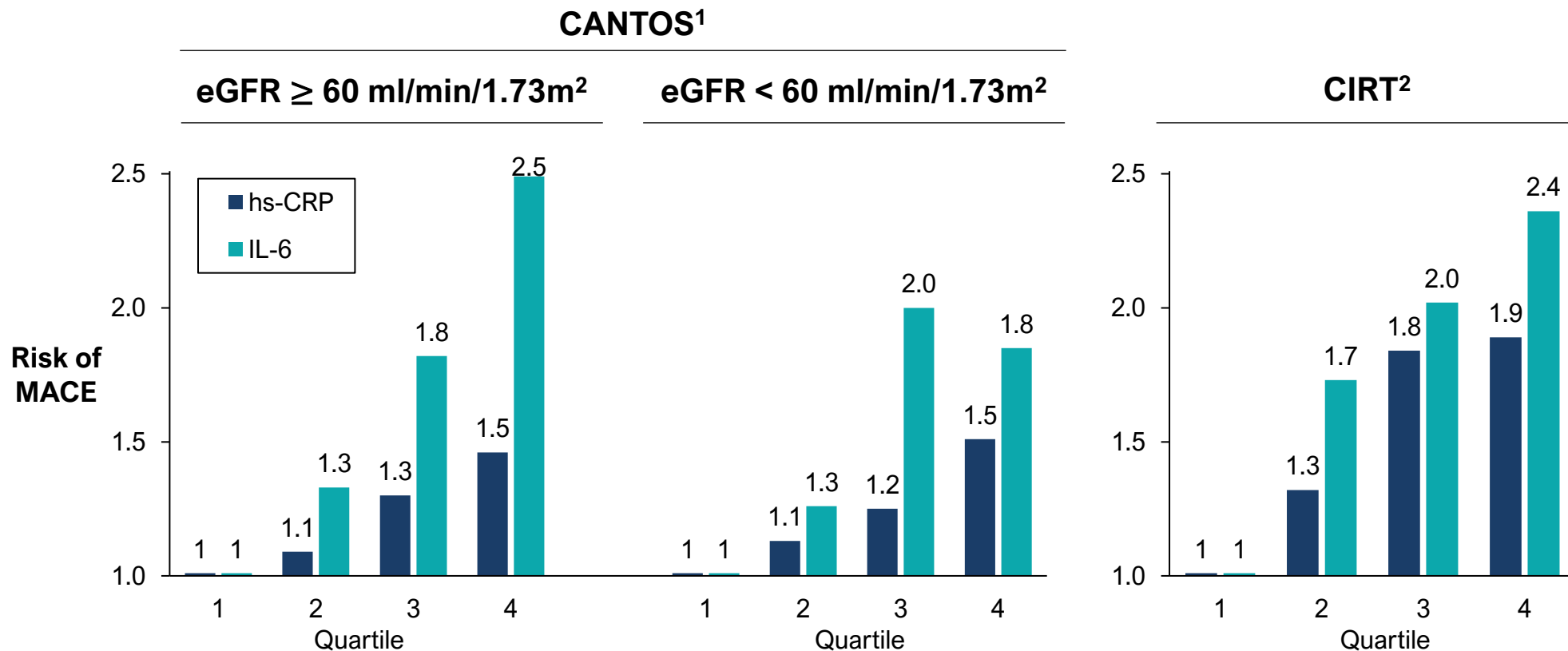


¹Women's Health Study. MACE: CV death, MI, stroke, coronary revascularization. Increased risk defined as 1-relative risk, compared to lowest quintile of Lp(a) and hs-CRP population, adjusted for age, initial randomization treatment group, smoking (current, past, never), presence of diabetes, and Framingham blood pressure categories. Table 2. Ridker et al, NEJM (2024).

Multiple observational studies show hs-CRP levels predict future MACE even better than cholesterol in high-risk populations



Higher levels of IL-6, like hs-CRP, strongly and independently predicted MACE in large prospective studies



Landmark CANTOS study validated therapeutic potential of addressing inflammation in ASCVD



Canakinumab Anti-inflammatory Thrombosis Outcomes Study (CANTOS) Trial Design¹

10,061 patients

- Stable CAD (post MI)
- On Statin, ACE/ARB, BB, ASA
- hs-CRP ≥ 2 mg/L

Canakinumab 50 mg Q3M
n = 2,170

Canakinumab 150 mg Q3M
n = 2,284

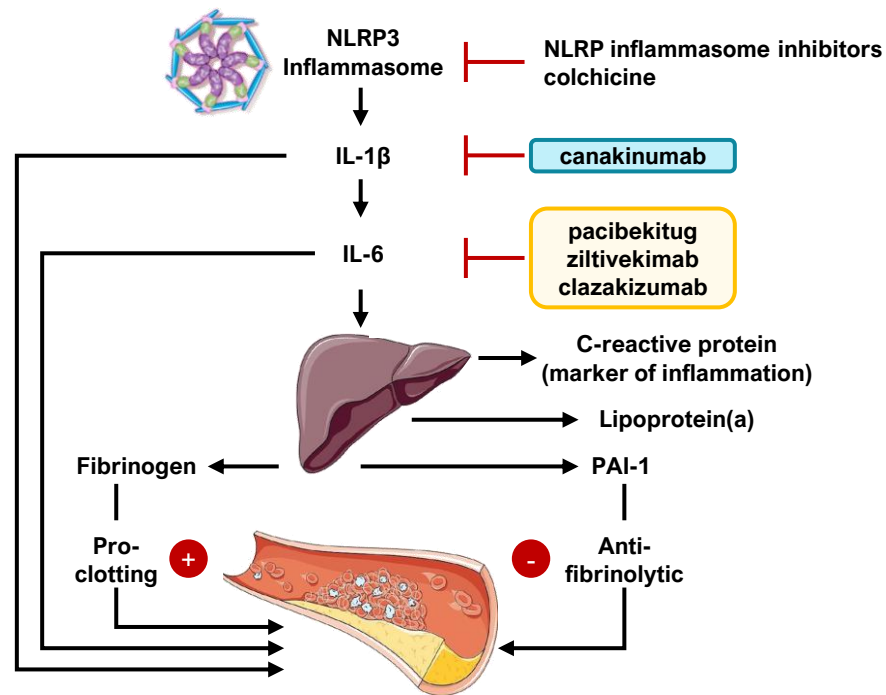
Canakinumab 300 mg Q3M
n = 2,263

Placebo Q3M
n = 3,344

Primary endpoint:

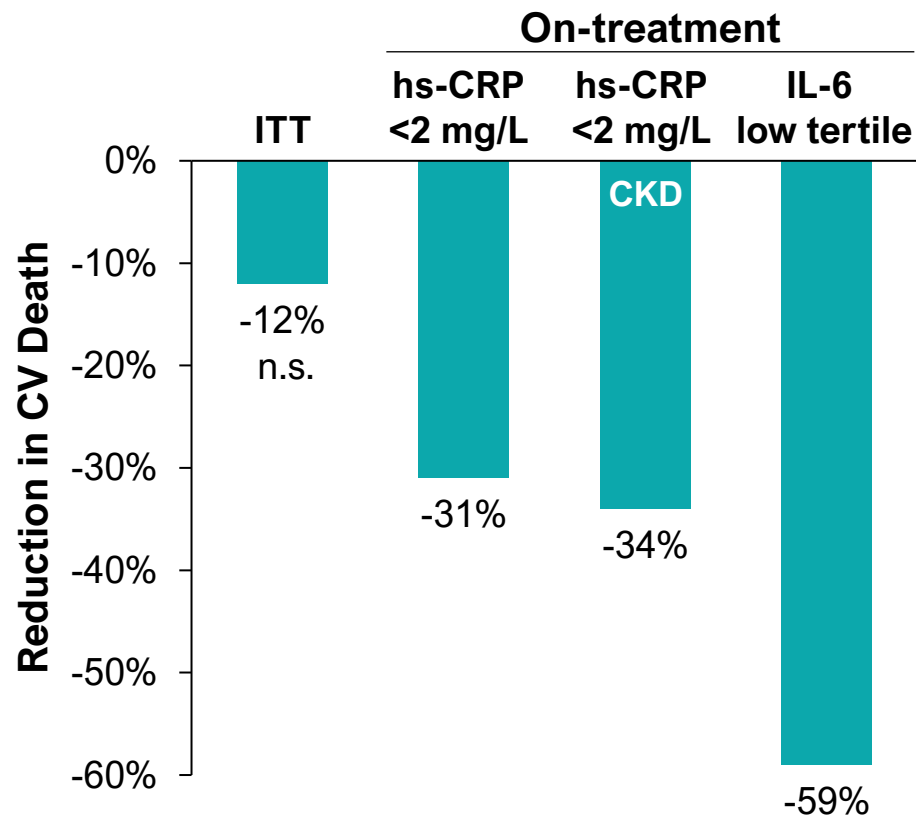
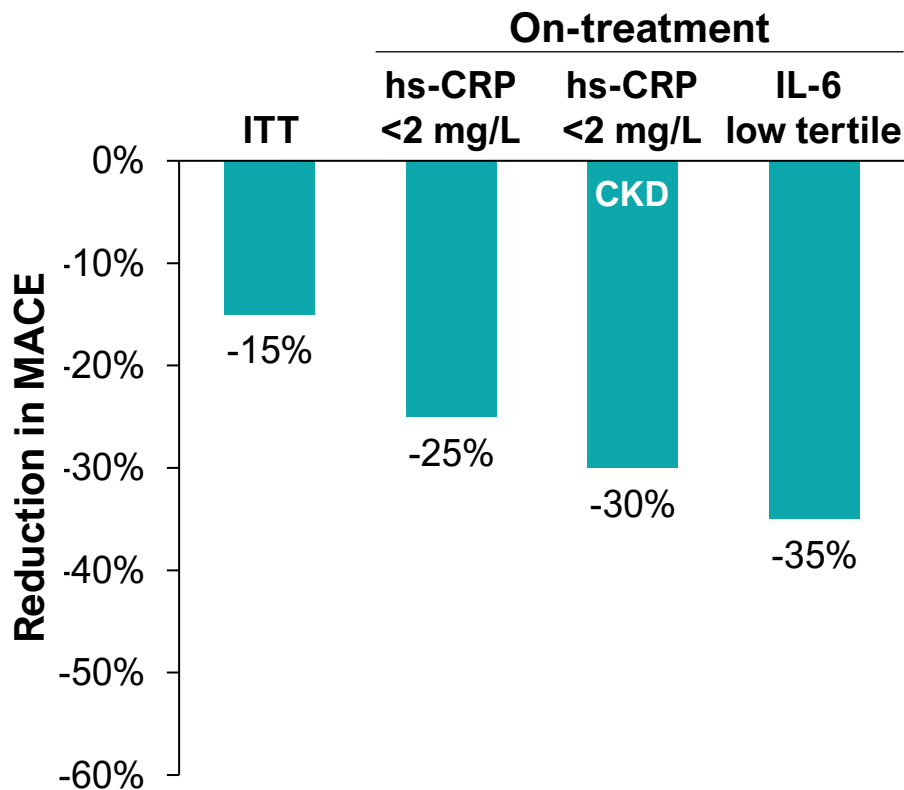
Time to the first occurrence of MACE (CV death, non-fatal MI, or non-fatal stroke)

IL-1 β is upstream of IL-6²

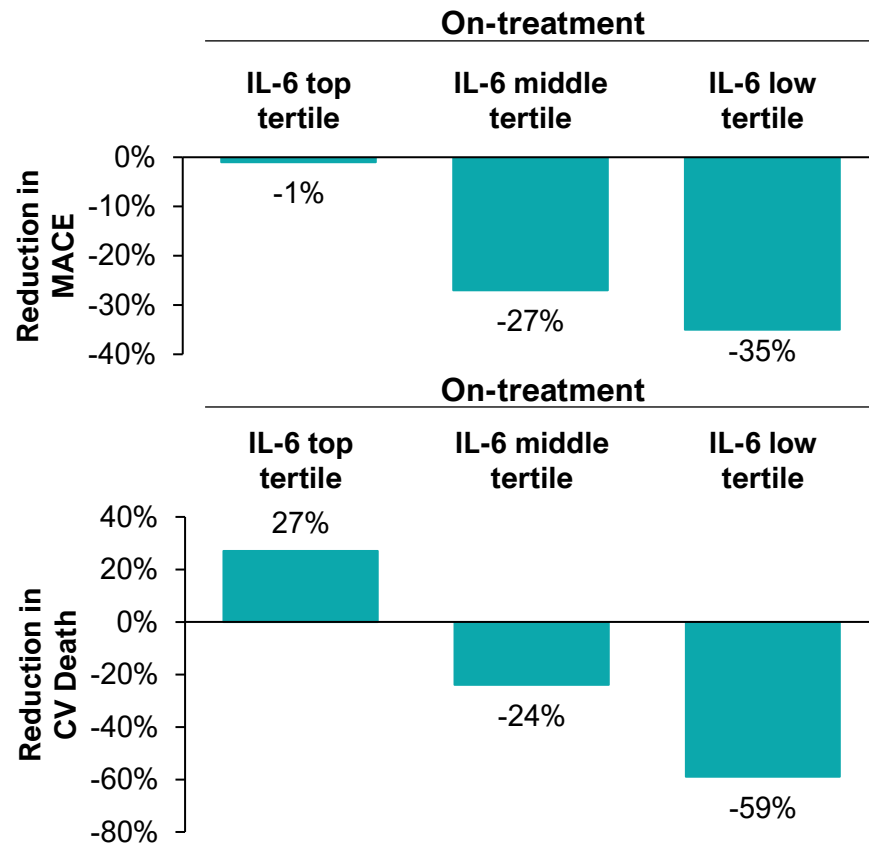
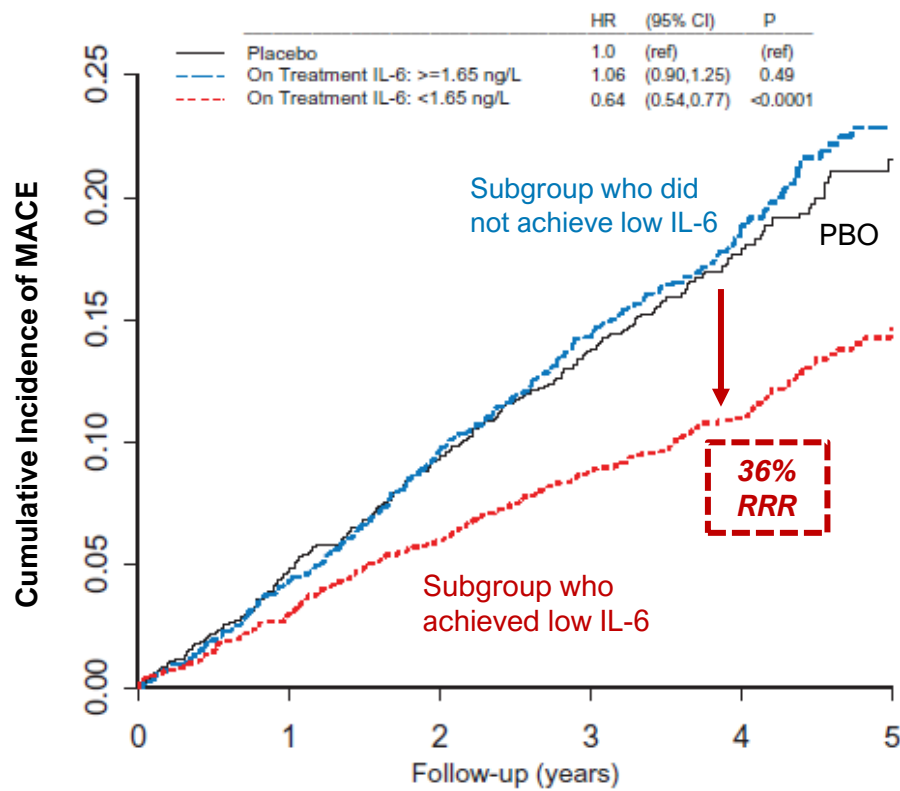


¹Ridker et al., NEJM (2017). ²Adapted from Ridker et al., Circ. Res. (2016), Arnold et al., Eur. J. Cardiol. (2021) and Muller et al., J Lipid Res (2015)

Lessons from canakinumab (anti-IL-1 β mAb): Robust IL-6 pathway inhibition associated with improved outcomes



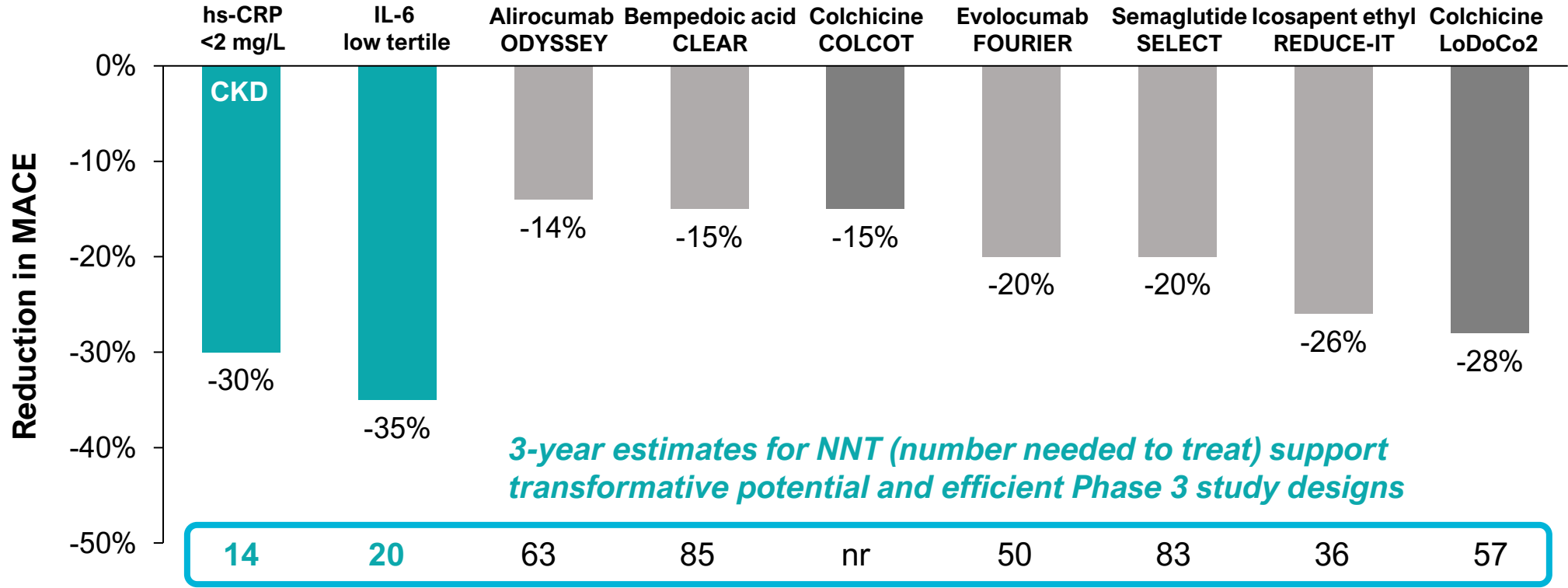
Lessons from canakinumab (anti-IL-1 β mAb): Prespecified analysis showed that reductions in IL-6 predicted CV benefit¹⁻³



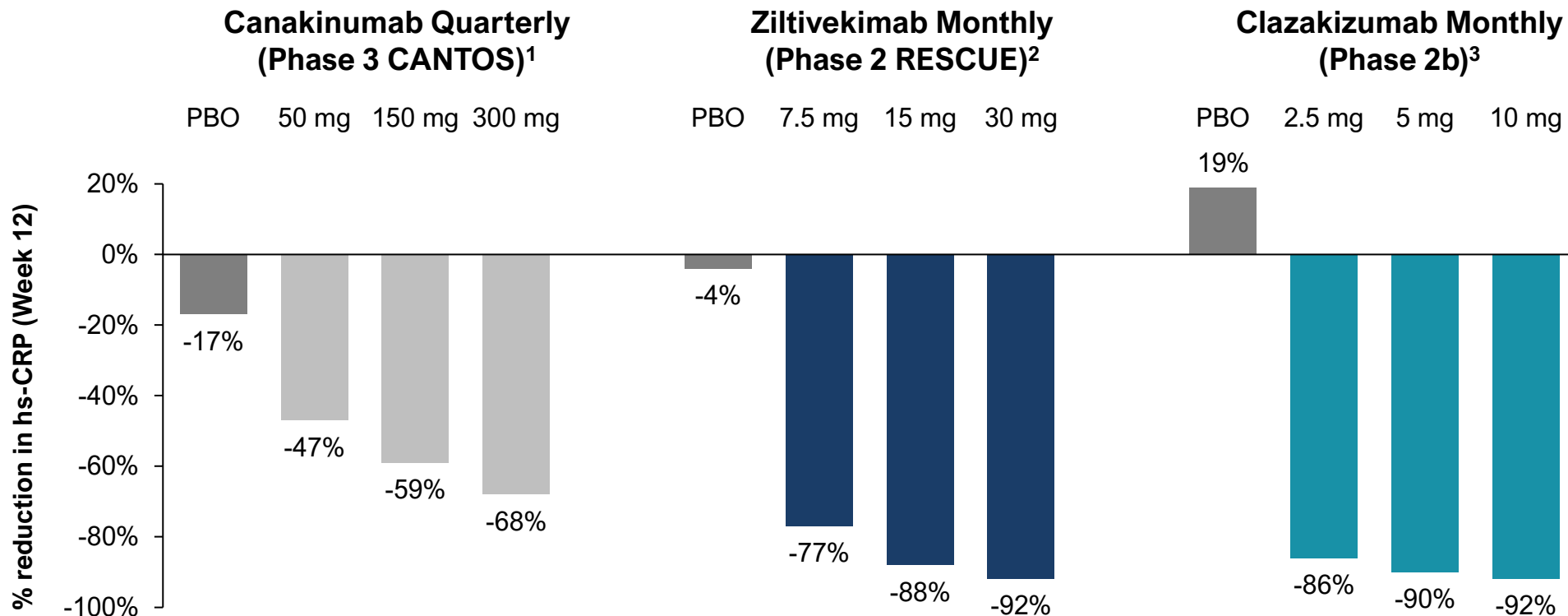
Lessons from canakinumab (anti-IL-1 β mAb): Robust inhibition of IL-6 pathway has transformative potential in ASCVD



CANTOS: On-treatment



In independent studies, direct IL-6 inhibition lowered hs-CRP more than upstream IL-1 β blockade

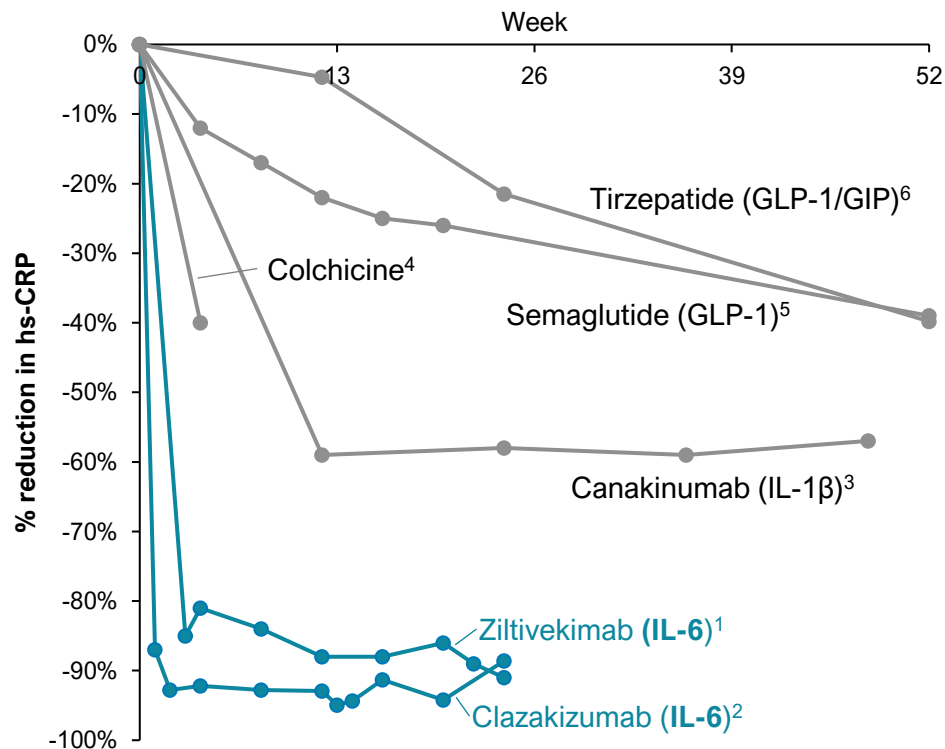


Direct IL-6 inhibition achieved ~2x placebo-adjusted reductions in hs-CRP compared to upstream IL-1 β

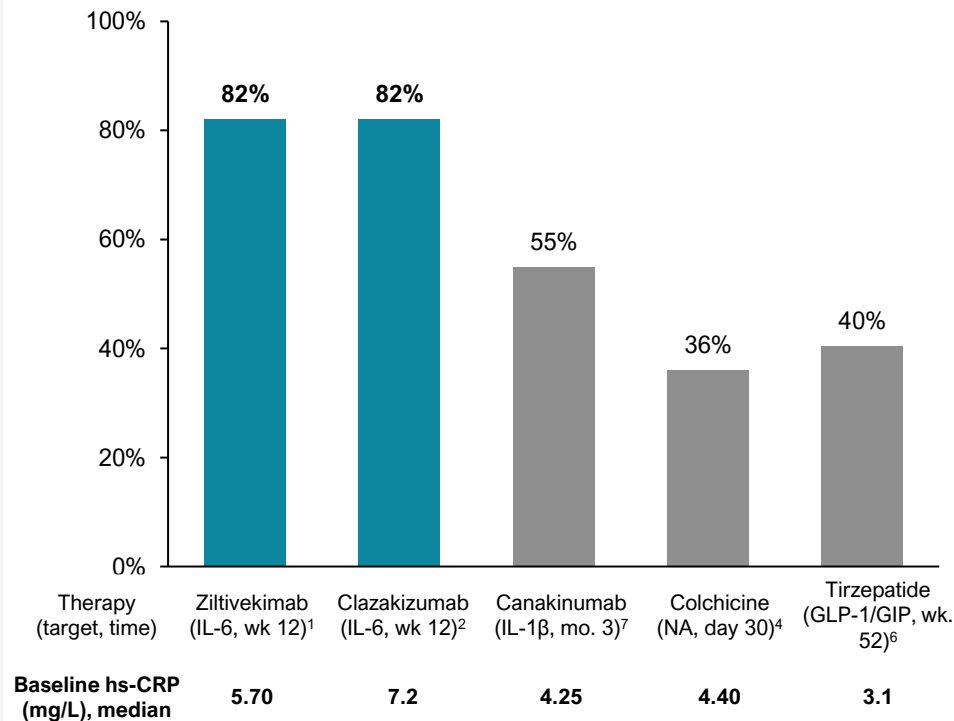
IL-6 inhibition has produced rapid and robust hs-CRP reductions in patients with established or at high-risk of CVD



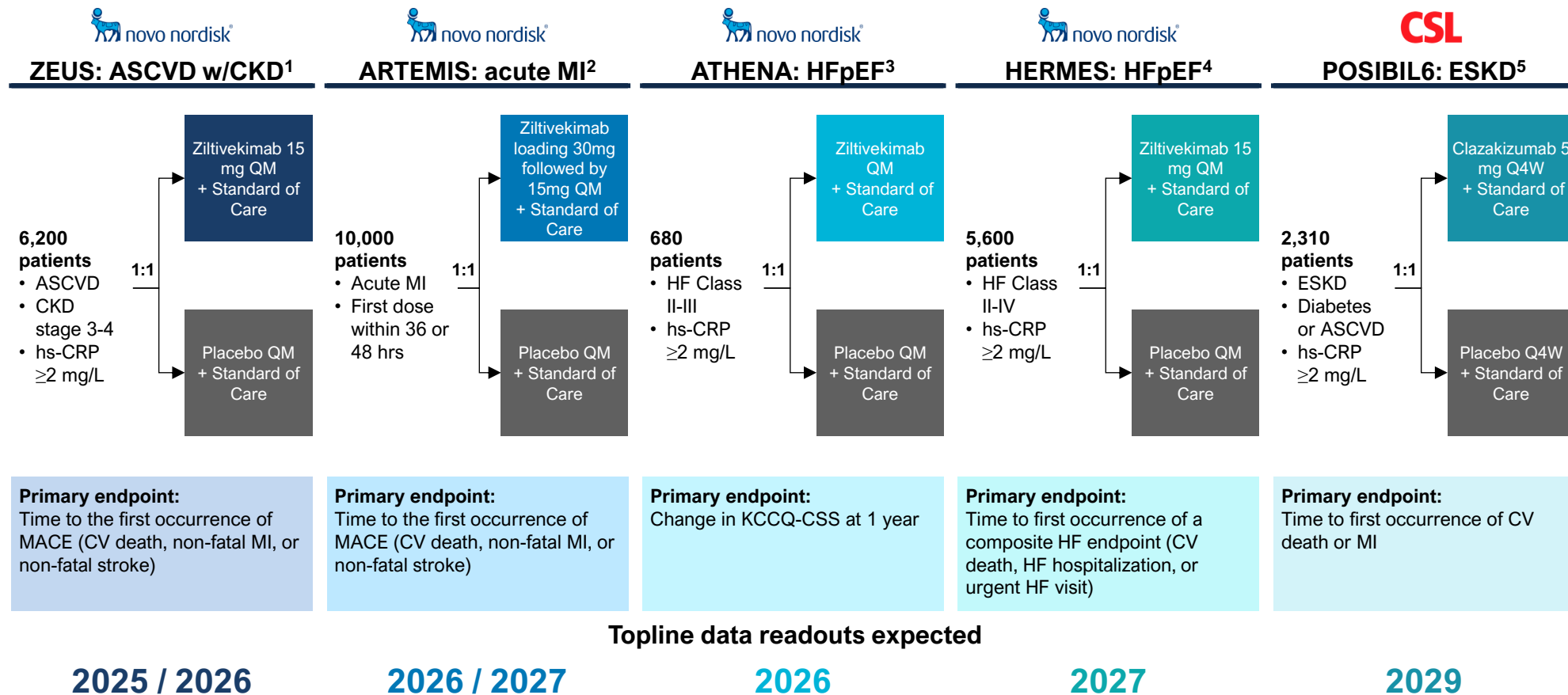
Percent reduction in hs-CRP



% of patients with hs-CRP <2 mg/L





Five Phase 3 CVOTs enrolling >24,000 patients

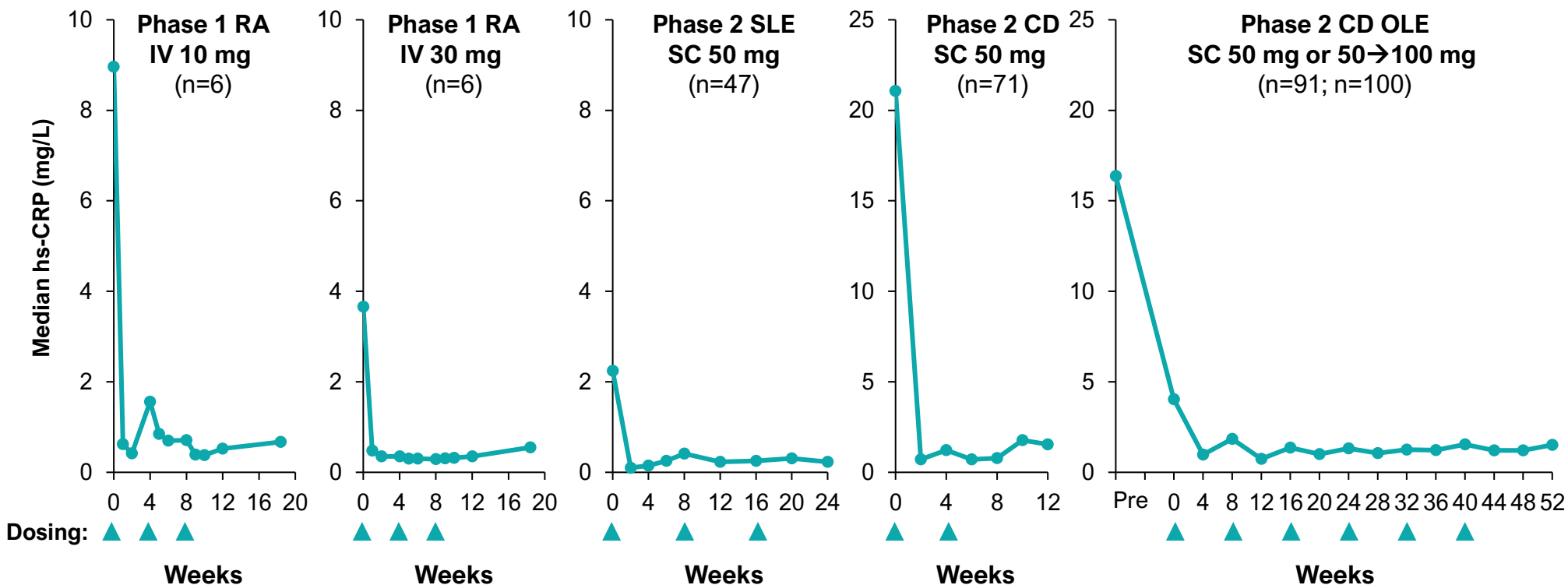


Topline data readouts expected

Pacibekitug designed to offer best-in-class potential profile in cardiovascular diseases

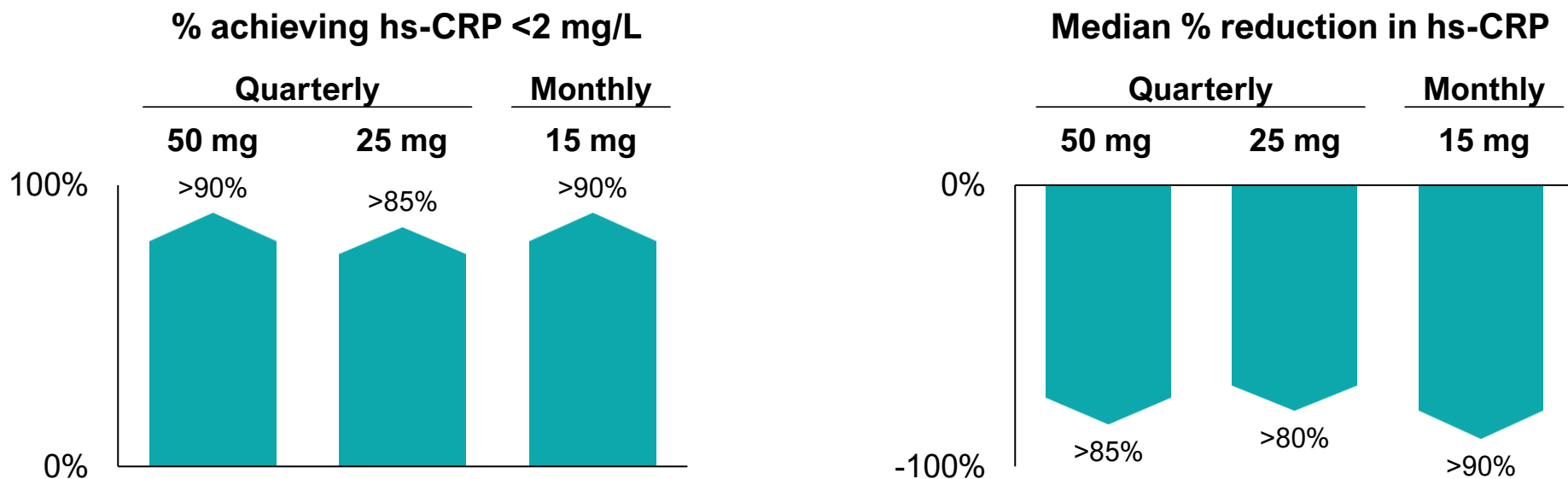
	Pacibekitug	Ziltivekimab	Clazakizumab
Company	TOURMALINE	 novo nordisk®	
Monoclonal antibody	fully human (IgG2)	fully human (IgG1k, YTE mutation)	humanized rabbit (IgG1k)
Anti-drug antibodies ¹	0-1%	6-13% ^{3,4}	0-10% ⁷⁻⁹
Route of administration ²	SC 0.6 mL	SC ^{5,6} 1.0 mL	IV ¹⁰
Longest dosing intervals in completed studies	Q8W (SLE, CD)	Q4W (NDD-CKD) ^{5,6}	Q4W ¹⁰ (HD-CKD)
Targeted dosing intervals	Quarterly	Monthly	Monthly

Pacibekitug achieved robust and durable suppression of CRP in patients with high-grade inflammatory autoimmune disorders



PK/PD modeling supports potential for quarterly dosing of pacibekitug SC in ASCVD

Results of PK/PD model developed from five studies in patients with RA, SLE, CD and healthy volunteers

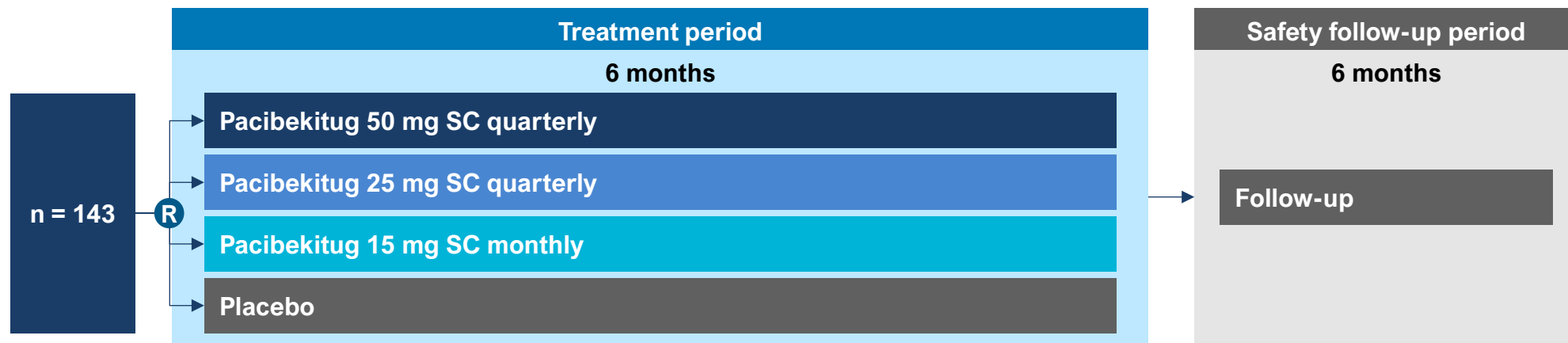


Ziltivekimab 15 mg monthly¹
% achieving hs-CRP <2 mg/L: 82%

median % reduction: 88%

TRANQUILITY⁶ Phase 2 trial supporting development in ASCVD

Double-blinded, placebo-controlled Phase 2 trial (NCT06362759) | Status: **over-enrollment completed**



Study population:

- CKD stage 3-4 (eGFR 15-59 ml/min/1.73m²) or UPCR>200 mg/g
- hs-CRP ≥2 mg/L and <15 mg/L
- Exclude patients at higher risk for safety complications (e.g., immunocompromised patients)

Primary pharmacodynamic endpoint:

- Change from baseline in hs-CRP through Day 90

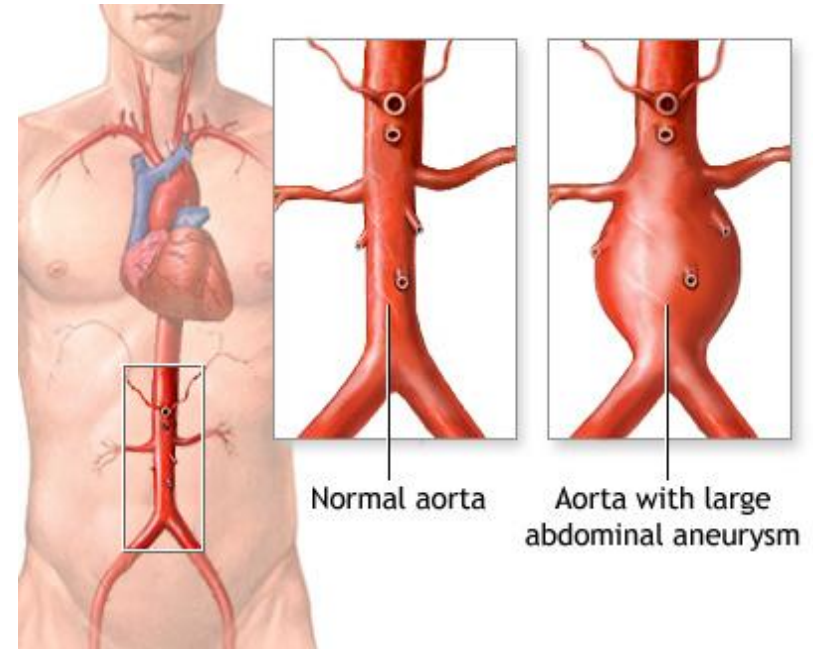
Additional endpoints:

- Percent of participants who achieve hs-CRP <2 mg/L
- Other pharmacodynamic markers, including lipoprotein (a)
- Safety and tolerability

ASCVD: atherosclerotic cardiovascular disease. CKD: chronic kidney disease. eGFR: estimated glomerular filtration rate. hs-CRP: high-sensitivity C-reactive protein. UPCR: urine protein-creatinine ratio.

Abdominal aortic aneurysm: a high-mortality, first-in-disease opportunity for pacibekitug

- High-risk vascular disease with **significant unmet need in approximately 2M people in US**¹
- **Strong strategic fit** with ASCVD due to overlapping prescribers
- Progressive disease with increasing risk of **rupture, usually a fatal event**²
- **In less than 5 years**, majority of medium-sized AAA grow to threshold for surgical repair^{3,4}
- Surgical repair, recommended for large AAA to prevent rupture, is **associated with complications**⁵⁻⁹



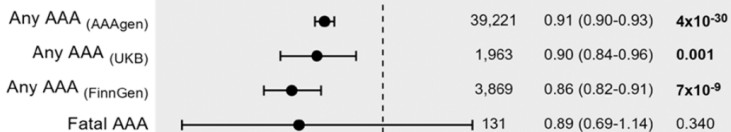
No FDA approved treatment

Compelling evidence supports IL-6 inhibition to slow AAA growth

Human genetic evidence

Genetic variant associated with reduction in risk of AAA¹

Abdominal aortic aneurysm outcomes



Related cardiovascular outcomes



Positive control outcomes

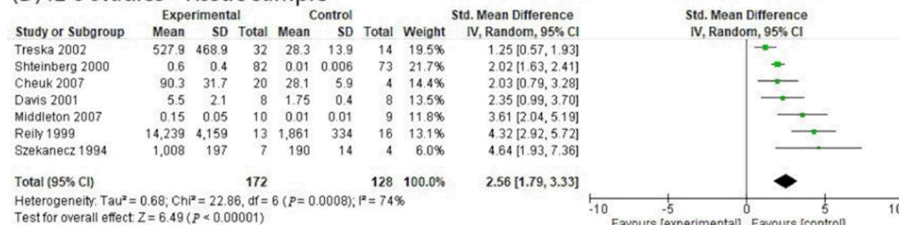


Odds ratio per rs2228145 C allele

Epidemiological evidence

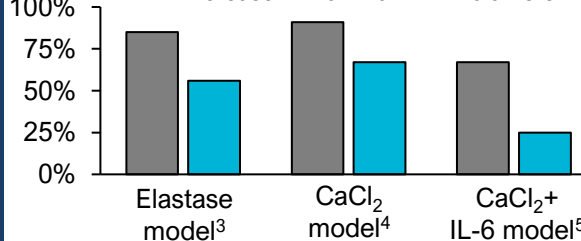
Higher IL-6 levels associated with AAA²

(D) IL-6 studies - Tissue sample



Experimental evidence

Increase in maximum AAA diameter



Inhibition of IL-6 pathway signaling decreased AAA expansion in multiple preclinical models³

¹Burgess et al., Arterioscler Thromb Vasc Biol (2024). ²Thanigaimani et al., Biomedicine (2022). ³Kokje et al., Atherosclerosis (2016). Results at day 14. ⁴Nishihara et al., PLoS One (2017). Results at day 42. ⁵Patel et al., Vasc Endovascular Surg (2023). Results at day 21. AAA: abdominal aortic aneurysm.

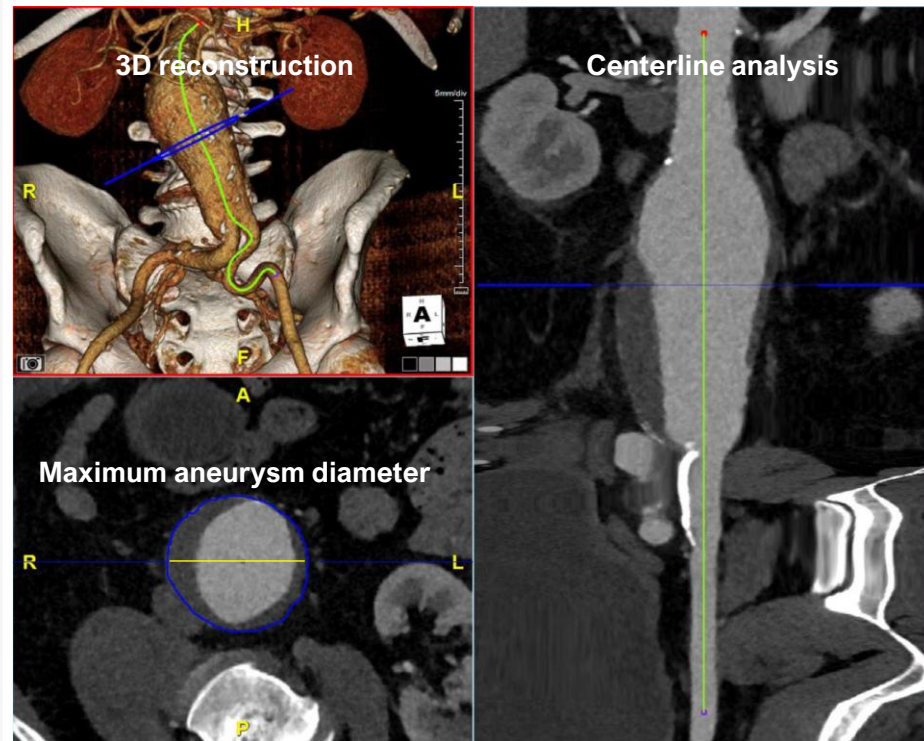
Phase 2 PoC study expected to use imaging to evaluate the ability of pacibekitug to inhibit AAA growth

- Serial imaging is the foundation of clinical care¹
- Phase 2 PoC expected to use multimodality imaging to efficiently characterize pacibekitug

Next steps:

- TRANQUILITY topline data in Q2 2025
- Alignment with FDA on Phase 2 PoC design
- Details to be shared prior to study start

CT



¹Chaikof et al., J Vasc Surg (2018). Isselbacher et al., Circulation (2022). Figure adapted from Perry et al., Ann Vasc Surg (2022). AAA: abdominal aortic aneurysm. PoC: proof of concept.

Thyroid Eye Disease

TED: our beachhead indication designed to validate pacibekitug's potential in autoantibody-driven diseases

1 High unmet medical need with significant market opportunity

- TED patients experience significant disease burden driven by inflammation, proptosis, double-vision, and pain
- ~30k new patients each year in the U.S. (average age at diagnosis is ~45)^{1,2}
- ~80%³ of moderate-to-severe TED patients not receiving an FDA-approved treatment, which we believe may be related to significant limitations such as risk of permanent hearing impairment / loss:
 - Vast majority of US treaters report unmet need across all aspects of treatment (efficacy, safety, administration)⁴

2 Extensive third-party clinical support that IL-6 inhibition may address key unmet needs

- 50+ publications with 400+ patients demonstrate the therapeutic potential of IL-6 pathway inhibition in TED
- IL-6 may play a more central and upstream role in TED pathogenesis than IGF-1R or FcRn
- Many TED treaters already routinely utilize IL-6 inhibition in their practice⁴

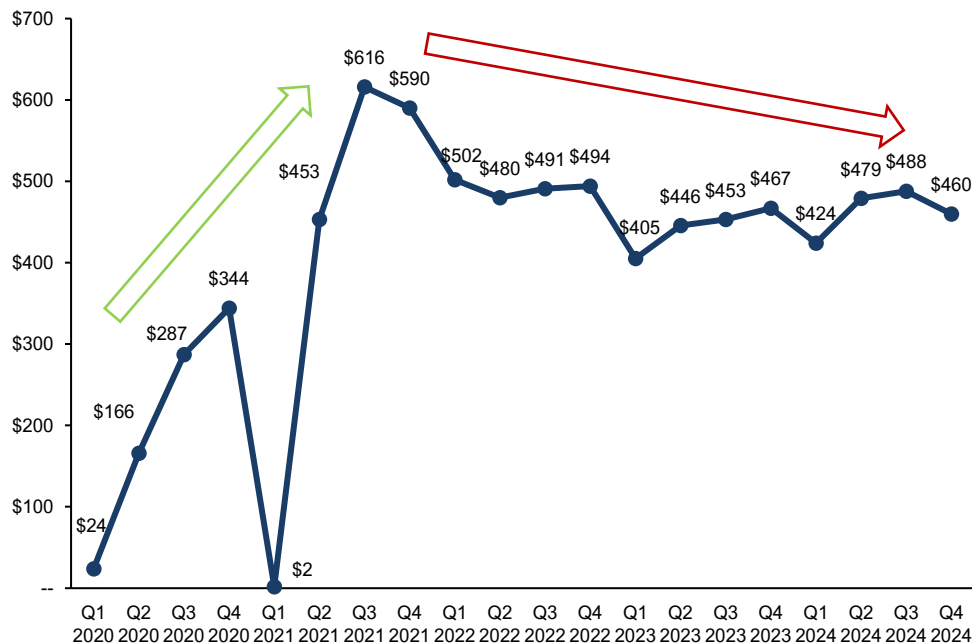
3 Pacibekitug has best-in-disease potential in TED

- Deep inhibition of IL-6 pathway observed to date offers potential for durable efficacy across many endpoints
- Existing clinical database supports the potential for a well-tolerated profile at selected doses
- Q8W dosing would allow for a patient-friendly, low burden treatment course

IGF-1R class limitations present a significant opportunity for novel therapeutic approaches in TED

TEPEZZA U.S. revenues have been stagnating since 2021...

Sales (\$M)¹



...believed to be due to real-world experience

1. Safety issues: Risk of potentially permanent hearing loss²

WARNINGS AND PRECAUTIONS

- Hearing Impairment Including Hearing Loss:** TEPEZZA may cause severe hearing impairment including hearing loss, which in some cases may be permanent. Assess patients' hearing before, during, and after treatment with TEPEZZA and consider the benefit-risk of treatment with patients

2. Limited durability: Growing real-world effectiveness data reveals larger than anticipated number of non-responders / high relapse rate^{3,4}

3. High level of inconvenience & complexity:

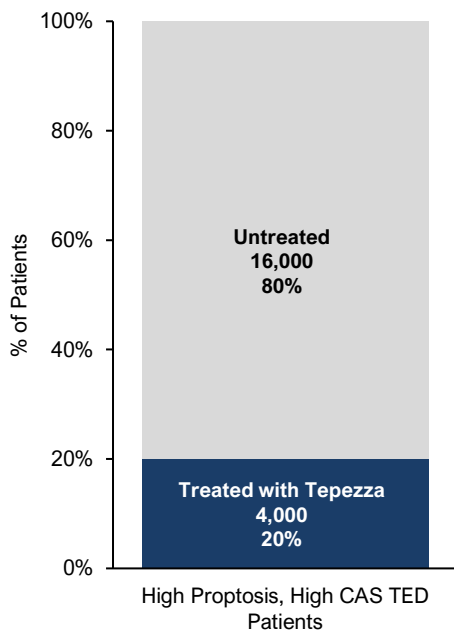
- IV Q3W (n=8)² but limited access to infusion centers⁵
- Numerous visits and high time commitment (HCPs and patients)⁵
- Need for serial audiograms, as per label^{2,6}
- Burdensome reimbursement approval process⁷

Despite an FDA-approved medicine, the vast majority of moderate-to-severe TED patients remain untreated

Most TED patients are not receiving TEPEZZA...

...or only get it relatively late in the treatment journey²

TEPEZZA US LTM penetration¹

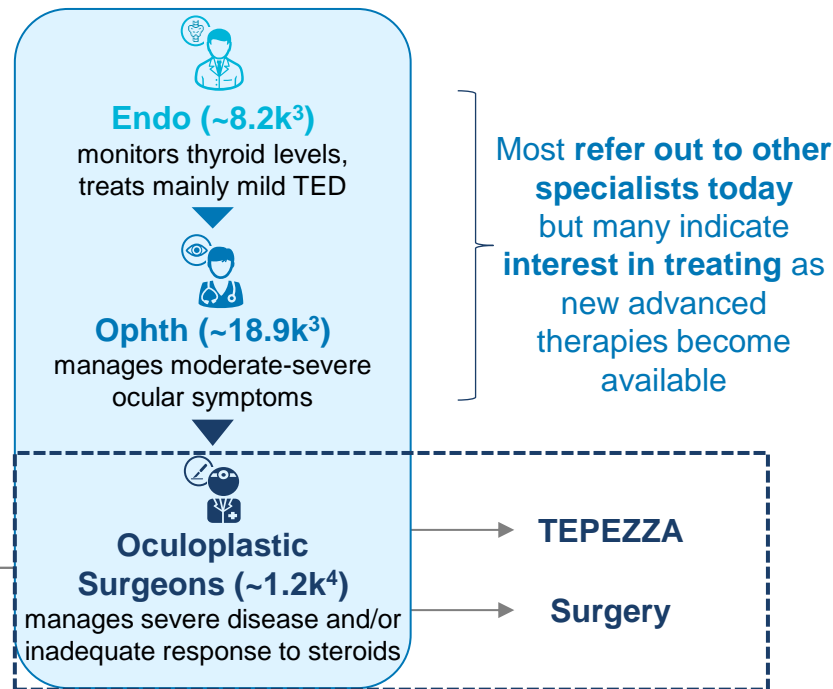


Simplified Treatment Journey²

Mild

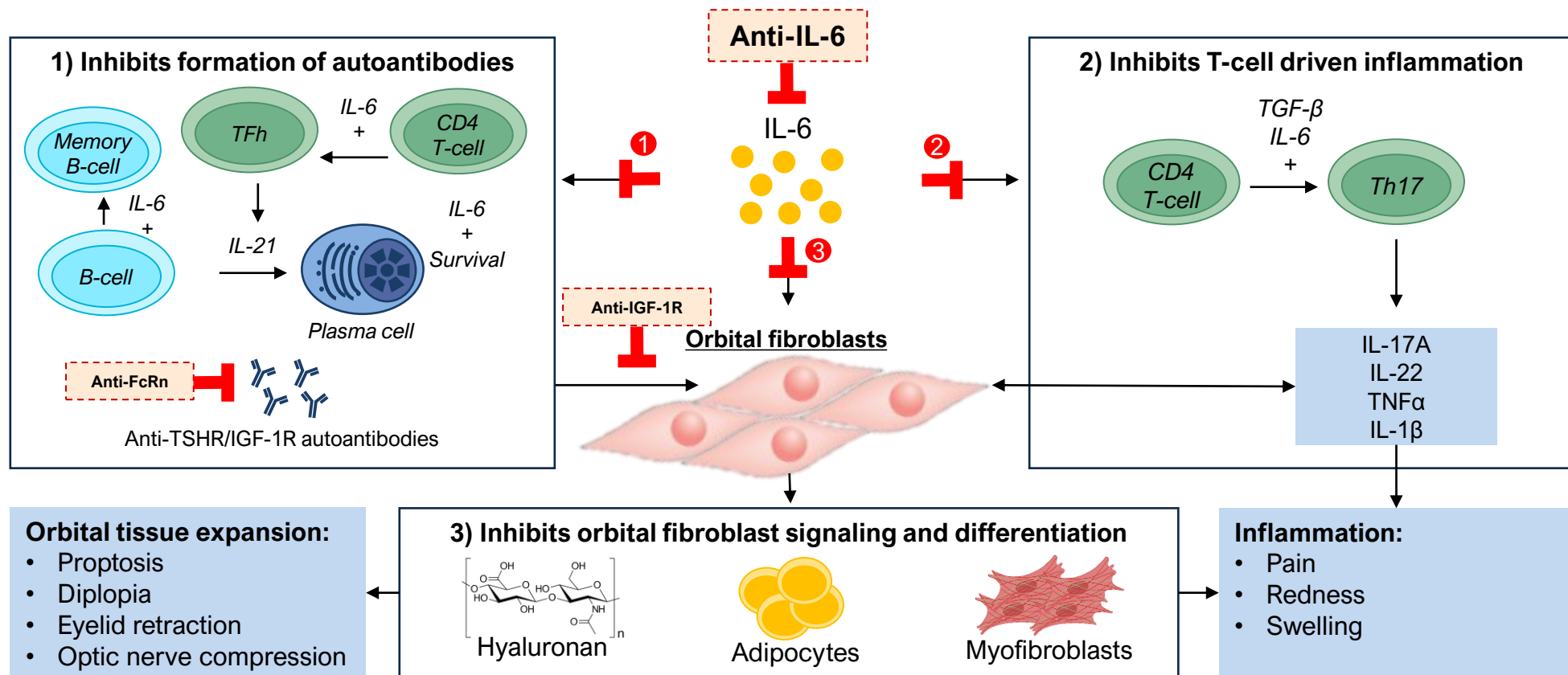
Moderate

Severe /
Sight-Threatening



¹Horizon Q3 2022 earnings call; LTM = last twelve months. ²Tourmaline market research; endo = endocrinologist; opth = ophthalmologist. ³AAMC 2022 Physician Specialty Data Report. ⁴Hussey and Tao, Orbit (2022).

IL-6 inhibition has the potential to address a central and upstream driver of TED



Adapted from Huang et al., Eye (2018); Hodgson and Rajai, Ophthalmol Ther (2020); Fang et al, Front Endocrinol (2021); Smith et al., Eye (2019); and Cabezas et al., Front. Immunol. (2022)

Over 50 publications support the therapeutic potential of IL-6 pathway inhibition in TED

Study Details				Key Endpoints		
First author	Year	Study type	N treated	Proptosis response rate	CAS response rate	% autoantibody reduction
Pérez-Moreiras	2021	Retro	54	78	89	75
Sánchez-Bilbao	2020	Obs	48	NR	NR	NR
Atienza-Mateo	2018	Retro	29	NR	NR	NR
Farde	2024	Retro	23	64	NR	75
Lee	2024	Prosp	19	11	47	56
Pérez-Moreiras	2014	Prosp	18	72	100	76
Pérez-Moreiras	2018	RCT	15	93	60	NS
de la Fuente Bursón	2020	Retro	15	NR	NR	NR
Pereira	2023	Retro	14	NR	NR	NR
Habroosh	2024	Prosp	13	100	31	68
Boutzios	2023	Obs	12	NR	NR	84
Pampín-Sánchez	2022	Retro	11	75	73	NR
Moi	2022	Retro	10	CI	80	75
Cortez	2022	Prosp	10	10	100	81
Guo	2024	Retro	10	NR	NR	NR
Silkiss	2020	CS	9	CI	56	74
Smith	2021	Retro	9	78	100	54
Bielefeld	2019	Obs	8	NR	NR	NR
Ceballos-Marcias Jose	2020	CS	8	NR	75	41
Bennedjai	2020	Retro	7	NR	NR	73
Moás	2022	Obs	7	NR	NR	92
Toro-Tobon	2023	Retro	6	50	NR	NR
de Pablo Gomez	2018	CS	5	NR	60	NR
Navarrete	2022	Retro	5	NR	NR	NR
Ribi	2017	CS	3	33	67	NR
Maldiney	2020	CS	3	67	NR	NR
Stevens	2022	Retro	3	100	67	NR
Russell	2017	CS	2	NR	0	NR
Sy	2017	CS	2	CI	50	69

Study Details				Key Endpoints		
First author	Year	Study type	N treated	Proptosis response rate	CAS response rate	% autoantibody reduction
Copperman	2019	CS	2	100	0	NR
Coy	2019	CS	2	NR	50	NR
Sierra Osorio	2020	CS	2	100	100	NR
Park	2021	CS	2	100	100	NR
Abeillon-du Payrat	2022	CS	2	100	50	NR
Butnaru	2013	CR	1	NR	100	NR
Gómez Rodríguez	2014	CR	1	NR	100	NR
Bielefeld	2017	CR	1	CI	NR	NR
Canas	2018	CR	1	100	NR	NR
Pascual-Camps	2018	CR	1	NR	NR	NR
Garreta Fontelles	2019	CR	1	NR	NR	93
Mehmet	2020	CR	1	0	NR	NR
Kaplan	2020	CR	1	NR	0	85
Cayon-Blanco	2020	CR	1	NR	100	NR
Tran	2020	CS	1	NR	NR	NR
Ruiz	2021	CR	1	NR	NR	NR
Albrashdi	2022	CR	1	100	NR	NR
Cezara	2022	CR	1	NR	0	NR
Mohamed	2022	CS	1	0	0	NR
Moleiro	2022	CR	1	100	NR	86
Almazrouei	2023	CR	1	NR	NR	NR
Cuculescu	2023	CR	1	CI	0	NR
Nirmalan	2023	CS	1	NR	NR	NR
Pramono	2023	CR	1	NR	NR	NR
Rymuza	2024	CR	1	100	0	8
Weighted Mean				68%	72%	72%
Smith 2017 (tepro Phase 2)				71%	69%	N/A
Douglas 2020 (tepro Phase 3)				83%	59%	N/A

We believe many of these reports may underestimate the true efficacy of IL-6 inhibition

- 400+ mostly steroid-refractory patients
- Late IL-6 inhibition (>9 months post symptom onset) when disease may have exited active phase
- Exposure to IL-6 inhibition may have been suboptimal (<6 months)
- Tourmaline market research with over 100 TED treaters suggests many HCPs already routinely utilize IL-6 inhibition in their practice

Pacibekitug's target product profile is expected to be well-differentiated in TED...

Target product profile in TED*

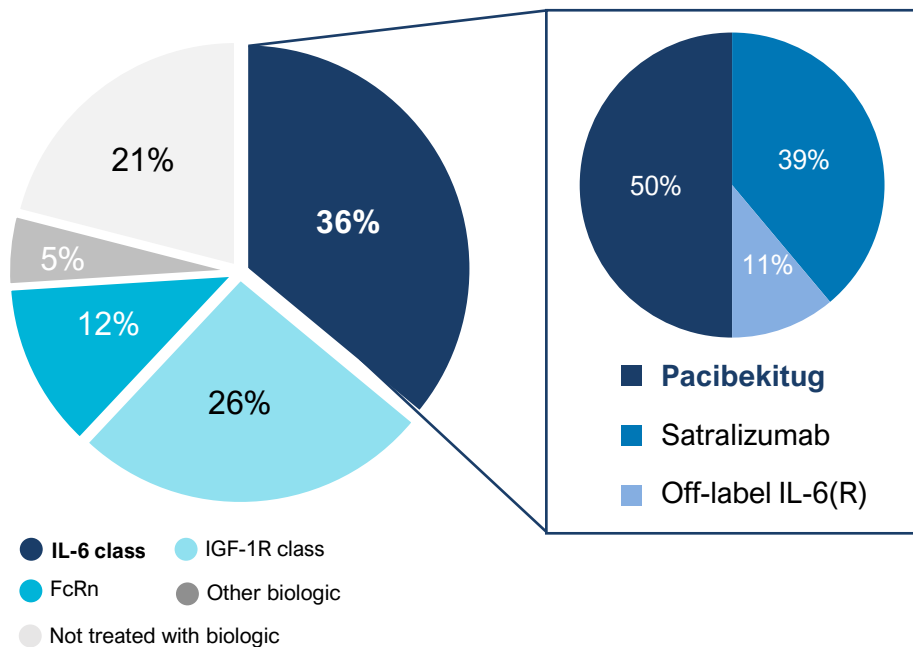
Study population		• Moderate-to-severe active TED patients
MOA		• IL-6 inhibition
Efficacy	Primary endpoint	• Proptosis
	Secondary endpoints	• Diplopia, clinical activity score (CAS), inflammation, and lid retraction
	Additional measures	• Lower rate of relapse and retreatment • Rapid time to response • Lower rate of surgical intervention
Safety	Warnings & precautions	• No anticipated risk of permanent hearing loss or warnings beyond typical IL-6 safety considerations
Dosing & administration		• Every 8-week, low volume subcutaneous injection through pre-filled syringe • Finite dosing

Targeted points of differentiation

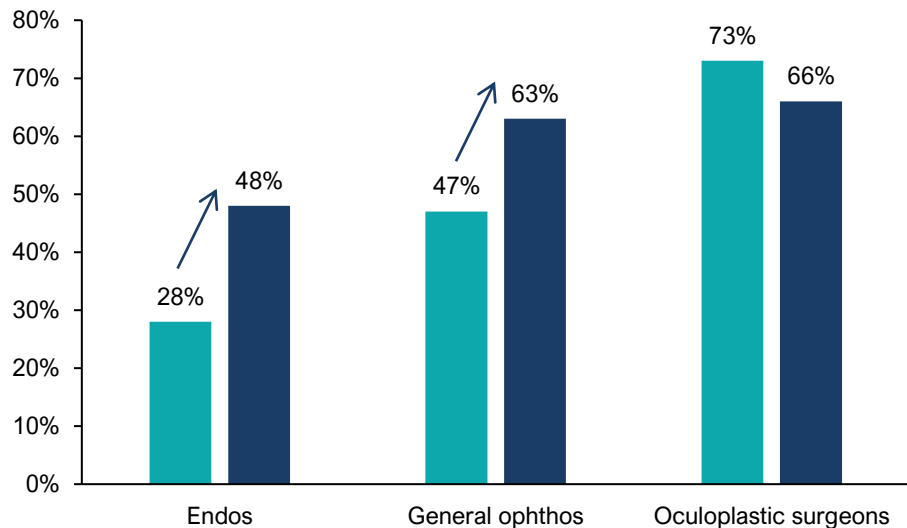
- **Targeting inflammation** which is at core of disease
- **Holistic impact** on many QoL-impacting symptoms
- Emphasis on **response durability**
- **Well-tolerated** without the risk of hearing loss
- Least frequent and **most patient-friendly SC dosing**

...resulting in leading market share, capitalizing on increasing Rx from endocrinologists and ophthalmologists

Pacibekitug ranked highest in future market share among 140 TED treaters in US¹



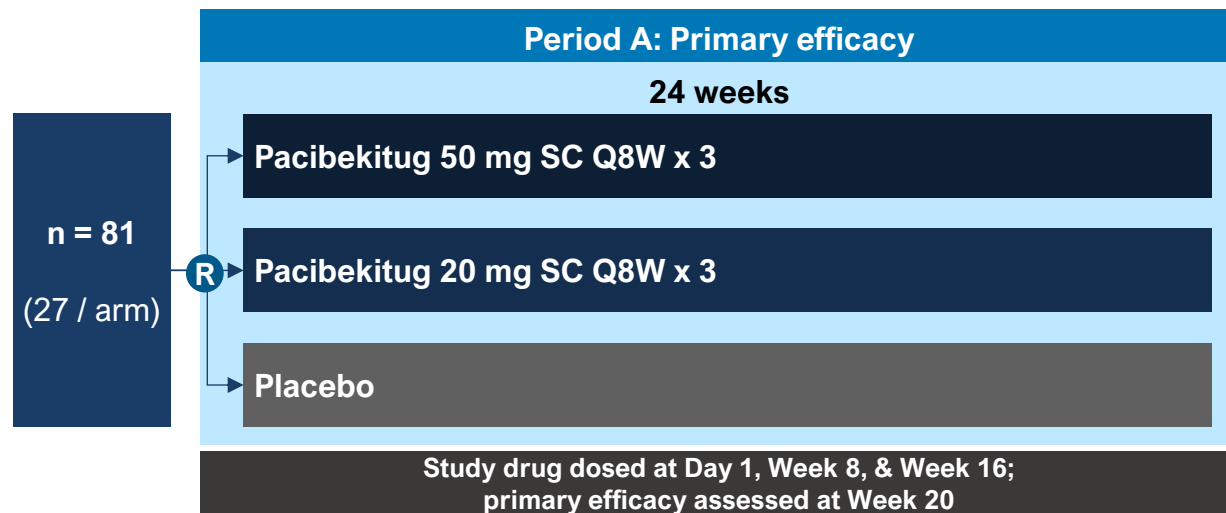
Impact on Rx if SC therapies are available¹



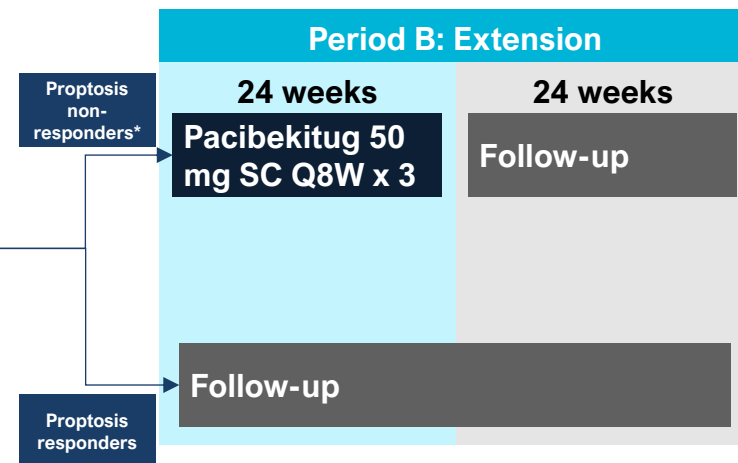


spiriTED pivotal trial in first-line TED

Double-masked, placebo-controlled Phase 2b trial (NCT06088979)



Open label



Study population:

- Moderate-to-severe TED, with proptosis ≥ 3 mm above normal (based on race and gender)
- Active phase, with symptom onset ≤ 15 months, CAS ≥ 4 and positive TSI
- First-line setting, with cap on prior corticosteroid use (< 1 g methylprednisolone or equivalent)

Primary efficacy endpoint:



- Proptosis response rate at week 20

Additional endpoints:

- CAS
- Diplopia
- QoL, safety, PK/PD/ADA

*Any patient who receives rescue therapy/intervention in Period A will not receive pacibekitug in Period B and will instead undergo follow-up only

Key upcoming milestones

Disease focus	Indication	Milestone	Expected timing
Cardiovascular inflammation	ASCVD	 Phase 2 topline data	Q2 2025
	AAA	Phase 2 trial start	Post-TRANQUILITY topline data
Autoimmune disease	TED	 Phase 2b topline data	H2 2025

TOURMALINE