UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934

Date of Report (date of earliest event reported): September 5, 2024

TOURMALINE BIO, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 001-40384 (Commission File Number) 83-2377352 (I.R.S. Employer Identification No.)

27 West 24th Street, Suite 702 New York, NY (Address of principal executive offices)

10010 (Zip Code)

Registrant's telephone number, including area code: (646) 481-9832

Not Applicable

(Former Name or Former Address, if Changed Since Last Report)

.

Check the	appropriate box below if the Form 8-K filing is intended to simultaneously satisfy	the filing obligation of the registrant under any of the fo	llowing provisions (see General Instruction A.2. below):					
П	Written communications pursuant to Rule 425 under the Securities Act (17 CF)	R 230 425)						
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)							
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))							
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))							
Securities	registered pursuant to Section 12(b) of the Act:							
	Title of each class	Trading Symbol	Name of each exchange on which registered					
	Common Stock, par value \$0.0001 per share	TRML	The Nasdaq Global Select Market					

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company $\ oxtimes$

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure.

On September 5, 2024, Tourmaline Bio, Inc. (the "Company") made available an updated corporate presentation that may be used in connection with presentations at conferences and investor meetings, which can be found on the Company's website (the "Corporate Presentation"). The Corporate Presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K and incorporated by reference in this Item 7.01.

The information furnished under this Item 7.01, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference into any of the Company's filings with the Securities and Exchange Commission under the Exchange Act or the Securities Act of 1933, as amended, whether made before or after the date hereof, regardless of any general incorporation language in such a filing, except as otherwise expressly stated in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Corporate Presentation dated September 5, 2024
104	Cover Page Interactive Data File (embedded within the Inline XBRI, document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

TOURMALINE BIO, INC.

Date: September 5, 2024 By: /s/ Brad Middlekauff

Name: Brad Middlekauff Title: Corporate Secretary

TOURMALINE

Corporate Overview

September 2024

Disclaimer

The material in this presentation regarding Tourmaline Bio, Inc. ("we," "us" or the "Company") is for informational purposes only. This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding the timing of initiation, progress and results of the Company's current and future preclinical and clinical trials for its product candidates, including pacibekitug (also referred to as TOUR006); the therapeutic potential of pacibekitug; the timing and likelihood of seeking regulatory approval for the Company's product candidates, including pacibekitug; the timing of submitting investigational new drug applications and other regulatory documents; the Company's ability to achieve planned milestones; the competitive landscape for the Company's product candidates; and the Company's estimates regarding expenses, future revenue, capital requirements, cash runway and needs for additional financing. The words "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. The Company may not actually achieve the plans, intentions, or expectations disclosed in these forward-looking statements, and you should not place undure reliance on these forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in these forward-looking statements, and these forward-looking statements or clinical strained or clinical studies, clinical site activation rates or clinical trial enrollment rates that are lower than expected, changes in the regulatory environment, changes in expected or existing competition, unexpected diff

In addition, certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While the Company believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while we believe our own internal research is reliable, such research has not been verified by any independent source.

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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



Yung Chyung, MD Chief Medical 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 Chief Regulatory Officer



Emil deGoma, MD Senior Vice Presider Medical Research



Gerhard Hagn Senior Vice President, Head of Commercial & BD



Don Fitch Senior Vice President, Product Development



Dora Rau Senior Vice President, Head of Quality

Board of Directors

Clay Siegall, PhD Chairman

Caley Castelein, MD

Aaron Kantoff

Mark McDade

Sapna Srivastava, PhD

Parvinder Thiara

Sandeep Kulkarni, MD

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 strategic paths to significant value creation: (1) FcRn+ and (2) cardiovascular inflammation



A late-stage clinical company: pivotal Phase 2b spiriTED TED trial and Phase 2 TRANQUILITY CV trial ongoing, pivotal Phase 3 TED trial also expected to commence in 2H 2024



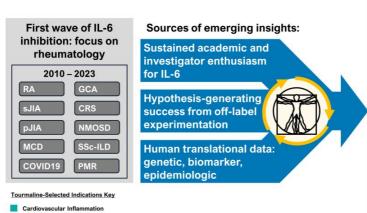
Accomplished leadership team: extensive experience developing and commercializing antibodies for immune and inflammatory diseases



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

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We are in an IL-6 renaissance



Second wave of IL-6 Inhibition: driven by emerging insights 2024+: Large body of potential 2024: Late-stage indications AAA programs Cardio: Stroke AE Derm: ВР PV AMI Endo: Graves' ASCVD UC GI: CD ITP TTP Hem: MN Neph: MOGAD Neuro: MS TED UME DME NIU Ophth: IPF Resp: PAP IgG4-RD AAV Rheum SjS

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Pacibekitug: an anti-IL-6 antibody with the potential to deliver significant value to patients

Pacibekitug 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 pt3

High affinity to IL-64

Existing data from 448 study participants¹

Potential value to patients

Dosing every 8 weeks⁵ or quarterly⁶

Fast, deep, and durable impact across diseases

Durable benefit without need to increase dose

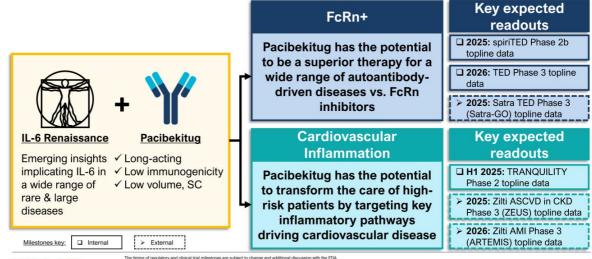
Volume of ≤1ml for SC injection⁵

Generally well-tolerated safety profile observed to date

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Across six clinical trials in healthy volunteers and RA, SLE, and CD patients. "Data on file; single intravenous 10mg dose in Ph.1 MAD study in RA patients; as measured by C-reactive protein (CRP), a pharmacodynamic marker of IL-6 ignaling." Generated from Mediates transperin crouse platform; across 448 subjects dosed with pacibektup, only 2 subjects generated anti-drup antibodies (ADAs) following treatment. "Data on file. "To be assessed based on data from increphase 2 trials," To be evaluated in CV Phase 2 trial.

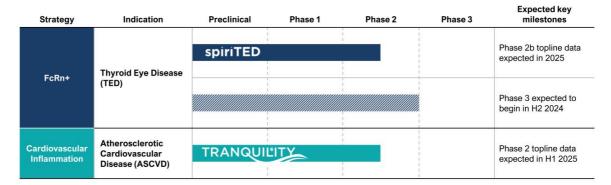
Two strategic paths to unlock major value creation



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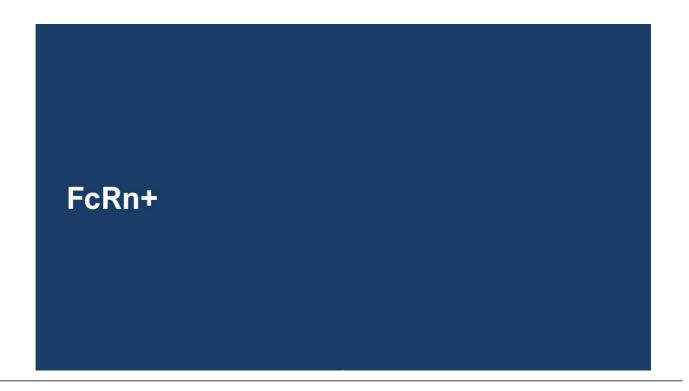
The timing of regulatory and clinical trial milestones are subject to change and additional discussion with the FDA AMI: acute myocardial infarction; ASCVD: atherosclerotic cardiovascular disease; CKD: chronic kidney disease; Satra: satralizumab; Zilti: ziltivekima

Clinical development plan for pacibekitug



Expect to announce at least one additional indication in 2024

Note: Hatched bars represent trials that have not yet commenced.



FcRn inhibition has garnered substantial attention to date, however significant unmet need persists

What is FcRn?¹

- · Neonatal Fc receptor (FcRn) inhibition observed to lower IgG antibodies
- Mechanism relevant in disorders mediated by pathogenic IgG autoantibodies
- Two anti-FcRn therapies approved for myasthenia gravis with additional supportive data in CIDP, RA, and TED2,3,4

FcRn market adoption

- · First approved FcRn inhibitor annualizing ~\$1.5B sales in 2nd year of launch in MG5
- FcRn companies account for >\$30B in market capitalization6

Key limitations of FcRn inhibition⁷

- · Efficacy limitations: incomplete clinical response observed
- · Lack of durable efficacy: clinical worsening occurs soon after cessation of therapy
- High burden dosing profile: burdensome weekly or biweekly IV or high-volume SC infusions/injections
- · Unknown long-term safety profile: uncertain rate of infectious or other complications from sustained non-specific reduction of total IgG

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Pyzk et al., Nat Rev Immunol (2023). *Chronic inflammatory demyelinating polyneuropathy (CDP): ARGX, *argenx Reports Post Topline Data from ADHERE study., **July 17, 2023. *Rheumatoid arthritis (RA): Tayfor et al., presentation at ACR Convergence (2023). *Thyroid ey disease (TED): Krahayl et al., J Clin Endocrinol Metab (2023). *ARGX company reports and filings. *FactSet as of 12/29/23, assumes Momenta acquisition for \$6.58, UCB market capitalization not included.

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WYCMART, WYCMART HYTMUL, out RYTHOGO POSI babbles.

Pacibekitug has broad potential beyond autoantibody reduction

An FcRn+ opportunity

Modes of action for IL-6 inhibition^{1,2}

Potential benefits of IL-6 inhibition versus FcRn inhibition

	IL-6 inhibition impacts:
-	Pathogenic B-cell and plasma cell proliferation
-	Pathogenic Th17 and Tfh cell proliferation and differentiation
4	Acute phase proinflammatory signaling
Н	Circulation of pathogenic autoantibodies

	IL-6 inhibition ^{1,2,3}	FcRn inhibition ^{4,5,6}
Autoantibody reductions	✓	✓
Inhibition of autoantibody production	✓	×
Anti-inflammatory effects beyond autoantibody reduction	✓	×
Durability of effect	✓	×
Low administration burden	✓	×
Favorable long-term safety profile observed to date	✓	?

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Cabezas et al., Front Immunol (2022), Dienz et al., J Exp Med (2009). *Tourmaline PK/PD modelling. *Howard et al., Lancet Neurol (2021), *Petel and Bussel, J Allergy Clin Immunol (2020). *VVVGART, VVVGART HYTRULO, and RYSTIGGO CON Lebels.**

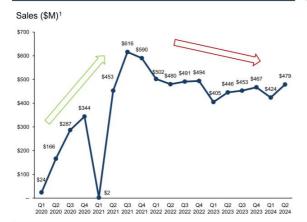
TED: our beachhead indication designed to validate pacibekitug's FcRn+ potential in autoantibody-driven diseases

- 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 350+ 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
- 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

Lazarus, Best Pract. Res. Clin. Endocrinol. Metab. (2012). ²Bartalena et al., Front. Endocrinol. (2020). ³Horizon Q3 2022 earnings call. ⁴Tourmaline market research

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

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



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

1. Safety issues: Risk of potentially permanent hearing loss²

-----WARNINGS AND PRECAUTIONS-

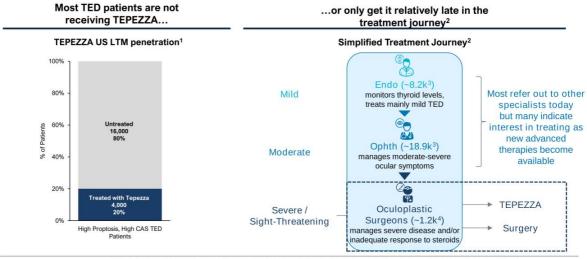
- Hearing Impairment Including Hearing Loss: TEPEZZA may cause severe hearing impairment including hearing loss, which in some cases may be permanent. Assess patients' hearing before, during, and after treatment with TEPEZZA and consider the benefit-risk of treatment with patients
- 2. Limited durability: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

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Horizon and Amgen company reports and filings. *TEPEZZA FDA label. *Kaitaly et al., Thyroid (2021) (ATA 2021 presentation). *Rosenblatt et al., Ophthalimic Plast Reconstr Sung (2023), *Tournaline market research. *Chow and Sikiss, BMJ Case Rep (2022), *Horizon Therapeutics Public Ltd. Co. Q2 2023 Form 10-Q.

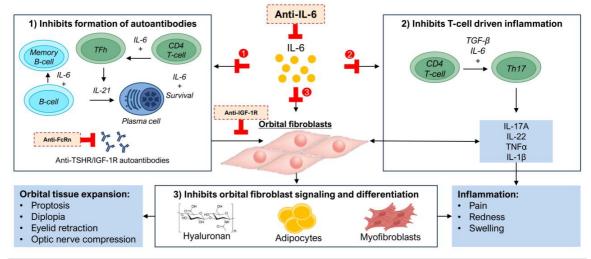
Despite an FDA-approved medicine, the vast majority of moderate-to-severe TED patients remain untreated



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Horizon Q3 2022 earnings call; LTM = last twelve months. *Tourmaline market research; endo = endocrinologist, ophth= ophthalmologist. *AAMC 2022 Physician Specialty Data Report. *Hussey and Tao, Orbit (2022 Physician Specialty Data Report. *Hussey and Data R

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



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

- 1

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

Study	Detail	s			ey Endpoin	ts	Study Details		Key Endpoints				
First author	Year	Study	N treated	Proptosis response rate	CAS	% autoantibody reduction	First author	Year	Study	N treated	Proptosis response rate	CAS response rate	% autoantibody reduction
Pérez-Moreiras				78	7ate 89			2019	CS				
	2021	Retro	54				Copperman		CS	2	0.000	(
Sánchez-Bilbao	2020	Obs	48	NR	NF		Coy	2019		2		50	
Atienza-Mateo	2018	Retro	29	NR	NF		Sierra Osorio	2020	CS	2		100	
Lee	2024	Prosp	19	11	47		Park	2021	CS	2	100	100	
Pérez-Moreiras	2014	Prosp	18	72	100		Abeillon-du Payrat	2022	CS	2		50	
Pérez-Moreiras	2018	RCT	15	93	60		Butnaru	2013	CR	1	NR	100	
de la Fuente Bursón	2020	Retro	15	NR	NF		Gómez Rodríguez	2014	CR	1	NR	100	
Pereira	2023	Retro	14	NR	NF		Bielefeld	2017	CR	1	CI	NF	
Habroosh	2024	Prosp	13	100	31	1 100000	Canas	2018	CR	1	100	NF	
Boutzios	2023	Obs	12	NR	NF		Pascual-Camps	2018	CR	1	NR	NF	
Pampín-Sánchez	2022	Retro	11	75	73	NR	Garreta Fontelles	2019	CR	1	NR	NF	
Moi	2022	Retro	10	CI	80	75	Mehmet	2020	CR	1	0	NF	
Cortez	2022	Prosp	10	10	100	81	Kaplan	2020	CR	1	NR	(33 15
Silkiss	2020	CS	9	CI	56	74	Cayon-Blanco	2020	CR	1	NR	100	
Smith	2021	Retro	9	78	100	54	Tran	2020	CS	1	NR	NF	N N
Bielefeld	2019	Obs	8	NR	NF	NR	Ruiz	2021	CR	1	NR	NF	N N
Ceballos-Marcias Jose	2020	CS	8	NR	75	41	Albrashdi	2022	CR	1	100	NF	R N
Bennedjai	2020	Retro	7	NR	NF	73	Cezara	2022	CR	1	NR) NI
Moás	2022	Obs	7	NR	NF	92	Mohamed	2022	CS	1	0	() N
Toro-Tobon	2023	Retro	6	50	NF	NR	Moleiro	2022	CR	1	100	NF	8 9
de Pablo Gomez	2018	CS	5	NR	60	NR.	Almazrouei	2023	CR	1	NR	NF	N N
Navarrete	2022	Retro	5	NR	NF	NR	Cuculescu	2023	CR	1	CI	() NI
Ribi	2017	CS	3	33	67	NR	Nirmalan	2023	CS	1	NR	NF	N S
Maldinev	2020	CS	3	67	NF	NR	Pramono	2023	CR	1	NR	NF	N N
Stevens	2022	Retro	3	100	67		Rymuza	2024	CR	1	100	()
Russell	2017	CS	2	NR				100	5000000	100	5(555)		= .
Sy	2017	CS	2	CI	50			Weigl	hted Mea	in	68%	72%	719
							Smith 201	17 (tepr	o Phase	2)	71%	69%	N/A
							Douglas 202	20 (tepr	o Phase	3)	83%	59%	N/A

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

- 350+ mostly steroidrefractory 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

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optobis response rate is generally defined in the data outlined here as a 2.2 mm proptosis improvement in the voice eye at baseline without any versioning in the other eye. ACS response rate is generally defined in the data outlined here as 2.8.5 of or 1.5 tuber, referenced in this table represent investigation-of studies and were not designed with in the intent of generally evidence for an appropriat of locilizumab or sanitimab in TED. The ampropriy of these studies were not designed with power to defined tabliscial significance. Retro: refrospective, Obe: observational. Prosp. prospective, RCT: randomized controlled trial. CS: case series. CR: case report. NR: not reported. NS: not significant. CI: clear improvement. service transmissional behaviored an outlined an operation of the controlled of the controlle

Market research indicates pacibekitug's potential to become an optimal first-line therapy and market leader in TED

Potential target profile of pacibekitug

Deep & broad efficacy

Durable

Well-tolerated

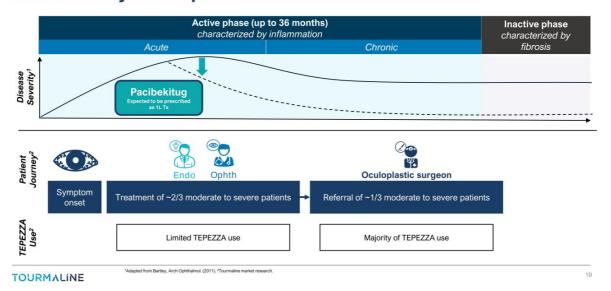
Patient-friendly

- · Meaningful reduction of proptosis
- · Important improvement of CAS and diplopia
- · Inhibition of production of anti-TSHR auto-antibodies
- Durable response, in part due to low immunogenicity
- Well-tolerated safety profile, manageable with routine monitoring
- · Lack of permanent or irreversible side effects
- SC, ≤1ml injections, every 8 weeks
- · Finite treatment for most of patients with flexibility where needed

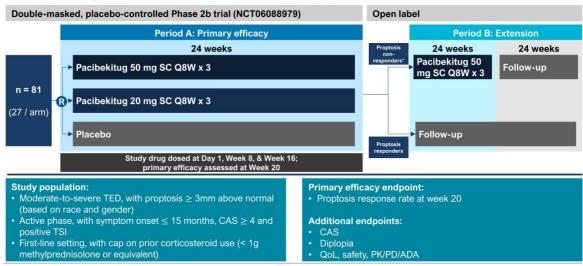
The characteristics presented reflect outcomes that may not be representative of pacibekitug. The results of past clinical trials may not be indicative of future results, and the results of future or ongoing clinical trials may not demonstrate some or any of the characteristics presented.

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Pacibekitug offers the potential to stop disease progression in the inflammatory active phase

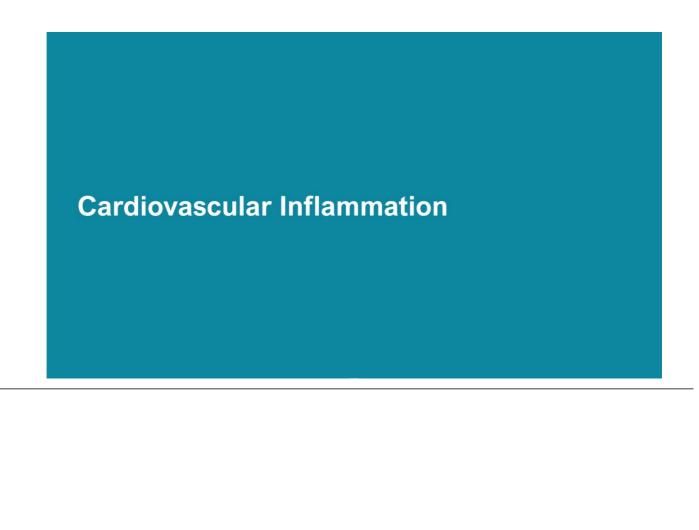


spiriTED pivotal trial in first-line TED



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



Pacibekitug could address a critical but poorly-addressed risk factor in cardiovascular diseases



IL-6 driven inflammation has increasingly been validated as a critical modifiable risk factor driving residual cardiovascular risk



The 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

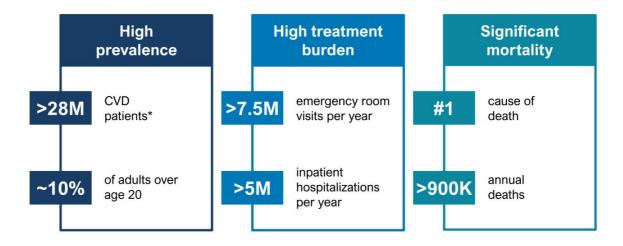


IL-6 inhibition is being evaluated in multiple cardiovascular outcomes trials, and Tourmaline is well-positioned to capitalize on emerging clinical enthusiasm



Pacibekitug's potentially best-in-class profile, including quarterly subcutaneous administration, is being evaluated in the Phase 2 TRANQUILITY study and is anticipated to be Phase 3-ready in 2025

Cardiovascular disease continues to be the largest area of unmet medical need in the US¹

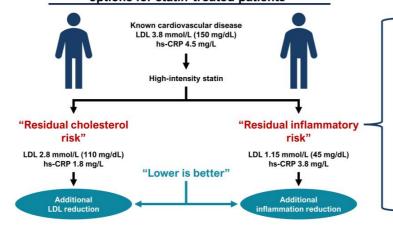


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¹Tsao et al., Circulation (2023). *Includes coronary heart disease, heart failure and stoke; excludes hypertension CVD: Cardiovascular disease.

Many patients suffering from cardiovascular diseases continue to experience residual inflammatory risk

Differential secondary prevention treatment options for statin-treated patients¹



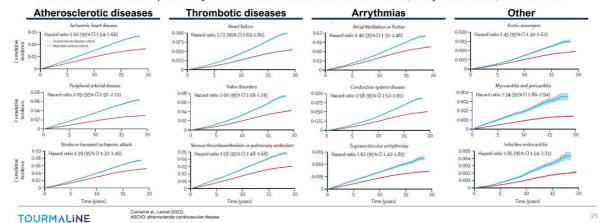
- A growing body of evidence supports addressing residual inflammatory risk in cardiovascular disease patients whose inflammation is not wellcontrolled on existing therapies, such as statins.
- As of August 2024, the European Society of Cardiology guidelines recommend hs-CRP screening for patients with suspected chronic coronary syndrome²

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¹Adapted from Ridker, Eur Heart J (2016). ²Vrints et al., Eur Heart J (2024)

Inflammation is a strong predictor of risk across several cardiovascular indications

- Landmark study of >440,000 patients with chronic inflammatory disorders
- Each of the 19 most common autoimmune diseases showed increased CV risk
- Excess risk reflected in a wide range of cardiovascular diseases beyond ASCVD
- · Risk elevation was not explained by traditional risk factors such as cholesterol, body-mass index, and diabetes



Significant unmet need for targeted anti-inflammatory therapies for cardiovascular diseases

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

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ACEL angiotensin-converting enzyme inhibitor. ANGPTL3: angiopoietin-like protein 3. Apo8: apolipoprotein 8. AR8: angiotensin receptor blocker, GLP-1: glucagon-like peptide-1, MTP: microsomal triglyceride transfer protein, NPC1L1: Neman-Pick C1-Like 1, PAR; protease-activated receptors, PCSR2: proprotein convertes subtlishi kexin type 9, SGLT2: sodium-glucose corraresporter 2

Research increasingly highlights inflammation as a driver of CV risk and supports therapeutic potential of IL-6 inhibition



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

RESEARCH LETTER

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

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

Genetically Proxied IL-6 Receptor Inhibition and Coronary Artery Disease

Sizheng Steven Zhao 1,4, Dipender Gill 2

Circulating Interleukin-6 Levels and Incident Ischemic Stroke

A Systematic Review and Meta-analysis of Prospective Studies

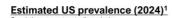
Quantifying inflammation using interleukin-6 for improved phenotyping and risk stratification in acute heart failure

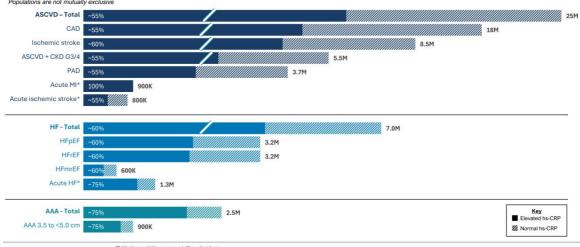
Eleni Michou ¹⁶, Desirce Wussler^{1,2}, Maria Belkin¹, Cernelia Simmen¹, Ivo Strebel¹, Albina Nowak³, Nikola Kozhuharov¹, Samyut Shresthal Pedro Lopez-Agala¹, Zald Sabi¹, Constantin Mori, Matthias Diebold¹, Tiffany Pequignot¹, Katharina Rentsch³, Amold von Eckardstein⁴, Danielle M. Gualandov¹, Tobias Berdidhard^{1,2}, and Christian Hueller¹

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

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

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

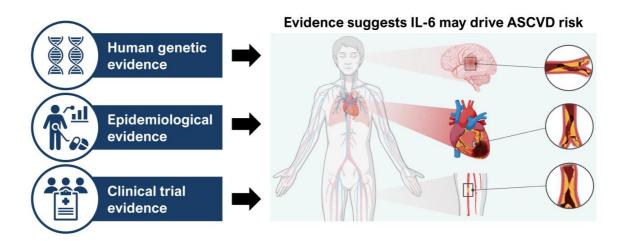




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Publications available upon request. "Annual incidence:
AAX. abdominal ancts areauran ASCVD: atherosacelerois cardiovascular disease. CAD: coronary artery disease. CKD: chronic liding disease. HF: heart failure. HFmrEF: Heart Failure with Mid-Range Ejection Fraction. HFpEF: heart failure with
28
preserved ejection fraction. HFpEF: heart failure with reduced ejection fraction. Mt. myocardial infarction. PAD: perspheral artery disease.

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



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ASCVD: atherosclerotic cardiovascular disease

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
Inhibiting TNFα to treat multiple sclerosis ^{11,12}	Negative (harm)	Negative (harm)
Inhibiting IL-6 to lower ASCVD risk ¹³	Positive	Trials Ongoing

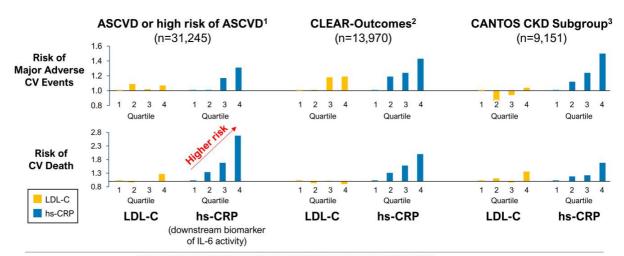
"Probability of success for drug mechanisms with genetic support is 2.6 times greater than those without." 14

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Ference et al., J. Am. Col. Cardiol. (2012). "Casule et al., Pharm. Res. (2019). "Zhao et al., Anne Rhom. Dis (2022). "Spiera et al. N. Engl Med (2023). "Wan et al., Hypertension (2021). "The Blood Pressure Lowering Treatment Trialists" ollobration. Lancet (2011). "Voigit et al., Lancet (2012). "Keene et al., BMJ (2014). "Gregson et al., Eur J Prev Cardiol. (2017). "Firs et al., Arch Med Sci. (2021). "Mang et al., Neurology (2021). "Lenercept Multiple Scierois Study Group eurology (1999). "Univin et al. Circulation Research (2011). "Winkiel et al., Nature (2012).

**The Committee of the Committee Research (2011). "Brigge and Committee (2012). "The Committee Research (2011). "The Committee Rese

Multiple observational studies show inflammation predicts future MACE even better than cholesterol in high-risk populations



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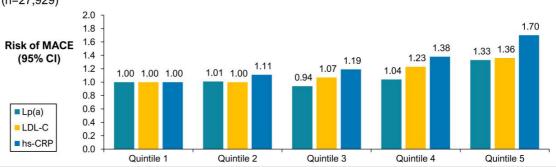
zard ratios shown. Major adverse cardiovascular events (MACE) include mycoardial infarction, strick, coronary revascularization, cardiovascular (VV) death.

(C) chronic kingly elsess he-CPPh injarceshiptify C-existive periote) (Dictive devent) (popprieth cholseshiption). Clerain data in this presentation are based on a cross-trial comparison and are not based on head-to-head clinical trials. Crossall comparisons are inherently limited and may suggest misseating similarities or differences in outcomes. Results of head-to-head comparisons may differ significantly from those set forth herein.

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 Study (n=27,929)



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Women'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).

Analysis of CANTOS implicates IL-6 as a key ASCVD risk factor



Greater IL-6 pathway inhibition associated with greater CV benefit

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

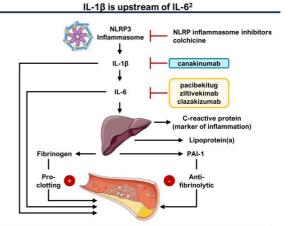
10,061 patients • Stable CAD (post MI) • On Statin, ACE/ARB, BB, ASA • hs-CRP \geq 2 mg/L

Primary endpoint:

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

On-treatment analysis:

- Reduction in MACE & CV death stratified by on treatment hs-CRP reduction (pre-specified)
 Reduction in MACE & CV death stratified by on treatment IL-6
- reduction

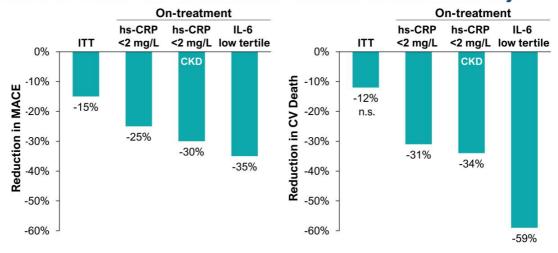


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¹Ridker et al., N. Engl. J. Med. (2017). ²Adapted from Ridker et al., Circ. Res. (2016), Arnold et al., Eur. J. Cardiol. (2021) and Muller et al., J Lipid Res (2015)

Lessons from canakinumab (anti-IL-1β mAb): "Lower is better" for downstream biomarkers of IL-6 activity



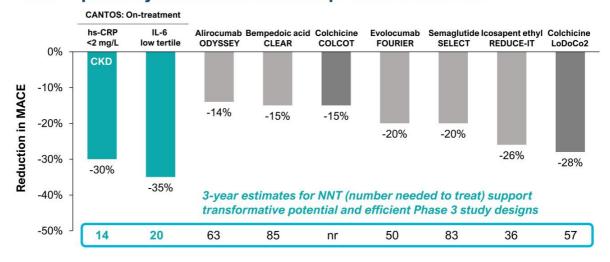


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duction in MACE shown as 1-Hazard Ratio. ITT: Intent to treat. MACE: major adverse cardiovascular events including CV death, myocardial infarction [Mi], stroke, n.s.: not statistically significant. ITT CANTOS analysis presents data for 150mg segroup; values for CANTOS submanlyses combine all doses [50, 150, 300 mg], Ricker et al., IRELINI (2017), Ricker et al., Lancet (2018), Adjusted for age, gender, smoking, hypertension, diabetes, BMI, baseline hs-CRP, baseline LDL-C.

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



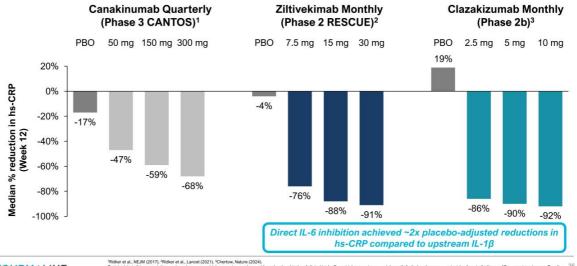


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Reduction in MACE shown as 1-Mazert Ratio. MACE major adverse cardiovascular events including CV death, myocardal infercition (M), stoke except for ODYSSEY OUTCOMES (all death, M), ischemic stroke; ICOLOT (CV death, M), stoke except for ODYSSEY OUTCOMES (all death, M), ischemic stroke; inscribed in the stroke are based on a cross-trial comparison and are not based on head-to-head critical trials. Cross-trial comparisons are inherently imited and may suggest misleading similarities or differences in outcomes. Results of head-to-head critical trials. Cross-trial comparisons are inherently imited and may suggest misleading similarities or differences in outcomes. Results of head-to-head comparisons may differ significantly from those set for the herein. NIT commands in the stroke in the strok

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



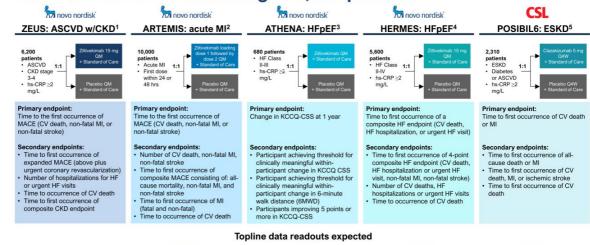


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idder et al., NEJM (2017). "Ribler et al., Lancet (2021). "Chertow, Nature (2024).

retain data in this presentation are based on a cross-friel comparison and are not based on head-to-head clinical trials. Cross trial comparisons are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the present of the presentation are based on a cross-frield comparison and are not based on the present of the presentation are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the presentation are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the presentation are based on a cross-friend comparison and are not based on the presentation are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the presentation are based on a cross-friend comparison are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the presentation are based on a cross-friend comparison and are not based on head-to-head clinical trials. Cross trial comparisons are inherently limited and may suggest misleading similarities or differences in outcomes. Resultended to the present and the presentation are inherently limited and may suggest misleading similarities or differences in outcomes.

Five Phase 3 CVOTs enrolling >24,000 patients



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he limit of clinical trial milestones are subject to change.

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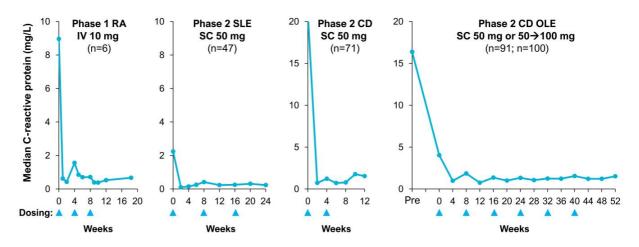
Pacibekitug designed to offer best-in-class potential profile in cardiovascular diseases

	Pacibekitug	Ziltivekimab	Clazakizumab
Company	ompany TOURMALINE		CSL
Monoclonal antibody	fully human (IgG2) Medarex UltiMAb platform	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

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D: Corbin's disease, CRD: chronic kidney disease, MD: hemodalysis, MDD: non-dialysis dependent, SLE systemic luguas enthematosus. "Incidence of ADAs an repeat-dose studies calculated as reported per dosing arm. "Route of ministration in planeties of programs," incident size, and some systems of programs of the profession of programs of the profession planeties with or a florishing high-risk of ASCID." Chinicaltrisis gov NCT01490450. Elinicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01545500, "Mechatet et al., Arbritish Rheum (2015). "Cinicaltrisis gov NCT01490450. Linicaltrisis gov NCT01490450. Linicaltrisis gov NCT01490450. Linicaltrisis gov NCT01490450. See all control of the professional profess

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

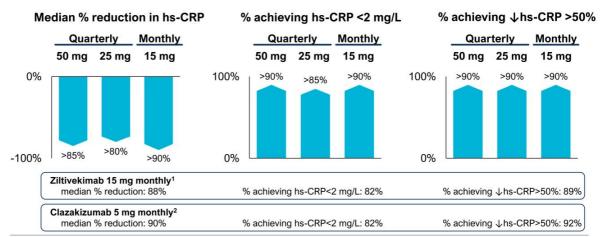


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PP. C-reactive protein, CD. Crothn's disease, CLE: open-sized extension, RA: rheumatoid arthrifs, SLE: systemic lupus erythematious. Rheumatoid arthrifs: 80151002 shudy report. Table 14.4.7.1.1. Median baseline CRP 9.0 mg/L. Key policy in the disease, background methoriseate. Croth's disease. 80151003 study report. Table 14.4.1.3. Median baseline hat CRP 2.1 mg/L. key eligibility active disease, inside/indicent to sin-TNPs. CD OLE 80151005 study report. Between the 14.4.1.3. Median baseline hat CRP 2.2 mg/L. studies in Language in the 14.4.1.3. Median baseline hat CRP 2.2 mg/L. studies in Language i

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

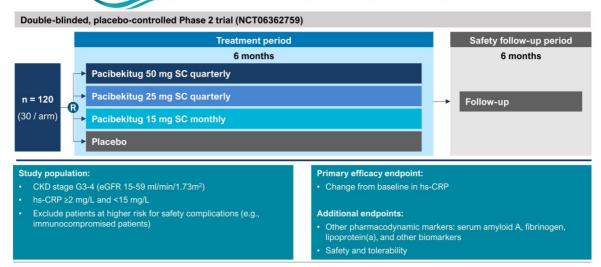
Results of PK/PD model developed from five studies in patients with RA, SLE, CD and healthy volunteers



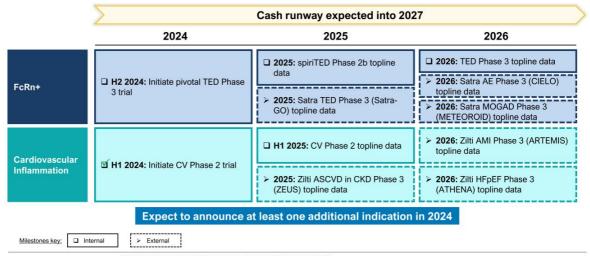
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SCVD: attended reduce and downsould releases, RA: Household effects, SLE systemic layer erythemiotous, CD: Crohm's disease. The PK and PKPVP modes for pacification and expended to provide the property of the pacific and provides or pacification and

TRANQUILITY Phase 2 trial supporting development in ASCVD



Key milestones expected through 2026



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e liming of regulatory and clinical first milestones are subject to change and additional discussion with the FDA it autoimmune encephalitis, AMIs acute myocardial infarction; ASCVD, atherosclerotic cardiovascular disease; HFpEF: heart failure with preserved ejection fraction, MOGAD, myelin oligodendrocyte glycoprotein antibody-essociated diser