

Corporate Presentation

November 2024

Forward Looking Statements

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Internally Discovered Clinical-Stage Pipeline

Addressing Major Autoimmune and Inflammatory Diseases with High Unmet Need

Target	Program	Preclinical	Phase 1	Phase 2	Phase 3	Next Anticipated Milestones
NLRP3 CNS-Penetrant	VTX3232	Parkinson's disease, obe	sity and cardiometabolic	disease, other neuroinf	lammatory diseases	Ph 2a Parkinson's data H1 2025 Initiate Ph 2 Obesity/CV trial by YE 2024
NLRP3 Peripheral	VTX2735	Recurrent pericarditis; oth	ner cardiovascular and sy	vstemic inflammatory dis	seases	Initiate Ph 2 RP trial by YE 2024
S1P1R	VTX002	Ulcerative colitis				Identify partner for Phase 3 trial
TYK2	VTX958	Crohn's disease				Phase 2 analysis underway

Cash, cash equivalents and marketable securities of \$274.8M as of September 30, 2024, are expected to fund operations into at least the second half of 2026



NLRP3 Inhibition

Broad Potential in Inflammatory Diseases



NLRP3 Inflammasome: A Key Component of Innate Immunity

Dysregulation Linked to a Broad Range of Inflammatory Diseases

Inflammasomes are activated by molecular hallmarks of infection or cellular injury

NLRP3 mediates release of proinflammatory cytokines
 IL-1β and IL-18 and drives a form of cell death called pyroptosis

active NLRP3 inflammasome disk

Nod-Like Receptor family Pyrin domain containing 3





NLRP3 Is a High Value Therapeutic Target

Broad Potential Across Systemic and CNS Inflammatory Disease

VTX2735

Systemic Diseases

NLRP3 inhibition has therapeutic potential in a broad range of systemic diseases, particularly where IL-1β antibodies have demonstrated therapeutic benefit

- Cardiovascular
- Dermatologic
- Rheumatic
- CAPS (FCAS)
- Other orphan indications

VTX3232

Neuroinflammatory Diseases

NLRP3 activation (inhibition) has been linked to a range of neuroinflammatory and neurodegenerative conditions with high unmet medical need

- Parkinson's Disease
- Multiple Sclerosis
- Alzheimer's Disease
- Obesity & Cardiometabolic

VTX3232 CNS-Penetrant NLRP3 Inhibitor



VTX3232: Phase 2-Ready CNS-Penetrant NLRP3 Inhibitor



Rapid equilibration across BBB to reach microglial target cells

Rationally Designed and Optimized for CNS Efficacy

Highly Potent and Selective

- Hu WB IC₅₀ (IL-1 β) = **15 nM**
- Mu WB IC₅₀ (IL-1 β) = **94 nM**
- Inhibits palmitate-induced IL-1β
- No inhibition of other inflammasomes

Optimal PK, PD and Safety Profile

- Safe and well-tolerated in Phase 1 Study
- Equal CNS partitioning; human Kp,uu = 0.5
- $T\frac{1}{2} = -17$ h with high free-drug fraction
- Robust effects on inflammatory biomarkers

Pharmaceutics

- Single polymorph
- BCS Class 1
- Solubility (pH 7.4 PB) = 0.4 mg/mL

QD dosing achieves therapeutic drug levels in the CSF

VTX3232 Efficacy In Neuroinflammation Models



VTX3232 activity translates to CNS-relevant assays and models

VTX3232 Phase 1 SAD and 14-Day MAD Trial in Healthy Volunteers

Phase 1 SAD and MAD Study Goals	Status
SAD and MAD to assess safety, tolerability and exposure	Complete
Ex vivo pharmacodynamic assessment of IL-1 β inhibition*	Complete
Separate cohorts for VTX3232 exposure in CSF**	Complete
Plasma and CSF biomarkers	Complete
Relative bioavailability of VTX3232 tablets	~100%
Food effect study	No food effect







VTX3232 Safety Assessment

All Adverse Events Considered Mild or Moderate (Phase 1 MAD Cohorts)

		VTX3232 (MAD)				
Treatment Emergent AEs	Placebo (n=10)	1 mg (n=6)	3 mg (n=6)	10 mg (n=6)	20 mg (n=6)	40 mg (n=6)
Vomiting	1 (10%)	-	-	-	-	-
Conjunctivitis	1 (10%)	-	-	-	-	-
Constipation	1 (10%)	1 (16.7%)	-	-	-	-
COVID-19	1 (10%)	-	-	-	-	1 (16.7%)
Viral Syndrome	1 (10%)	-	-	-	-	-
Gastroenteritis	-	-	-	1 (16.7%)	-	-
Contact dermatitis	-	-	-	-	1 (16.7%)	-
Dry skin on legs	-	-	-	-	1 (16.7%)	-
Lightheaded	-	-	-	-	-	1 (16.7%)
Headache	-	-	-	-	-	1 (16.7%)
Nausea	-	-	-	-	-	1 (16.7%)
Drowsiness	-	-	-	-	-	1 (16.7%)

Safety Findings

- VTX3232 was well tolerated in Phase 1 SAD/MAD trial
- All treatment emergent AEs considered mild or moderate (CTCAE Grade 1 or 2)
- No dose-limiting toxicities
 observed
- Safety profile supports wide therapeutic window

Note: MAD CSF cohorts are excluded in the table above as the safety profile in these cohorts is obscured by AEs related to indwelling spinal catheters.

VTX3232 Phase 1 SAD and 14 Day MAD Pharmacokinetics



Dose-related, linear exposure from 1 mg to 80 mg

3 mg QD achieves 24 h IL-1β IC₅₀ coverage

VTX3232 Whole Blood Ex Vivo Stimulation Assay

Potent Target Engagement Demonstrated At and Above 3 mg QD



2. Day 14 pre dose (D14). Pre dose baseline (BL).

VTX3232 Pharmacokinetics in Cerebrospinal Fluid (CSF)



VTX3232 Effects on Inflammatory Biomarkers

Reduction in hsCRP and IL-6 Comparable to that Achieved by Canakinumab* (IL-1β mAb)





1. Ridker PM, MacFadyen JG, Everett BM *et al.*. *Lancet* 2018; 391:319-28; Ridker PM, Libby P, MacFadyen JG *et al. Eur Heart J*. 2018; 39:3499-507. 2. Day 14 pre dose samples not available for 40mg cohort. Data 2hr post dose displayed.

Source: Ventyx internal data. BL: pre-dose baseline. D14: Day 14 pre-dose samples, unless otherwise noted.

Conclusions from the Phase 1 Trial of VTX3232 in NHV

Potentially Class-leading Safety and Efficacy Profile for Neuroinflammatory Diseases



- Well-tolerated in healthy volunteers
- Robust target coverage achieved in the plasma and CNS
- **Potent, dose-dependent PD effect** in *ex vivo* IL-1β assay and on inflammatory biomarkers
- CSF IL-1β IC₉₀ coverage for 24h at 40 mg QD
- Data predict target coverage
 <u>></u> IC₉₀ at doses
 <u>></u> 12 mg



VTX3232: Potential First-Mover Position in NLRP3-Mediated Neuroinflammation

Highly Potent & Selective

- Structurally unique, unrelated to MCC-950
- $K_d < 1$ nM to NLRP3 NACHT domain
- $IC_{50} = 13 \text{ nM}$ hu WB, 2.7 nM in microglia
- Selective vs AIM2/NLRC4
- Doses >3 mg suppress IL-1 β release for >24 h

High CNS Target Coverage

- $T\frac{1}{2} = -17$ h with high free fraction
- High CNS penetration; human Kp,uu = 0.5
- 3 mg QD repeat dosing maintains CSF IC₅₀ coverage
- 40 mg QD repeat dosing exceeds CSF IC₉₀ coverage

Promising Safety Profile

- No CYP, hERG, or transporter interactions
- No toxicological signals for further non-clinical study
- Well-tolerated in all SAD/MAD dose groups

Phase 2 Ready

- IP position secure; patent application published 09/23
- Multi-kilo API production complete
- Solid-oral dosing form with high bioavailability



VTX3232 Has Potential for Disease Modification in Parkinson's Disease

Strong Mechanistic Rationale and High Unmet Need

High Unmet Need

- ~1 million U.S. patient prevalent population (2nd most common neurodegenerative disease)
- No disease-modifying therapies approved for Parkinson's disease

Large Addressable Market

- >\$4B annual market for symptomatic therapies in 2021¹
- Estimated ~\$10-\$15B+ annual TAM for first disease-modifying therapy²

Strong Biologic Rationale

- **Neuroinflammation** is central to Parkinson's disease pathogenesis
- Strong evidence in preclinical models and PD patient samples for NLRP3 as a key driver of neuronal degeneration

NLRP3 Is a Promising Therapeutic Target in Parkinson's Disease

Neuroinflammation Plays a Central Role in Parkinson's Pathogenesis



Source: Liang T et al. 2022 Front. Pharmacol. 13:845185. Ising, C et al. Nature 575, 669–673 (2019). Panicker et al. Neuron. 2022;110(15):2422-2437.e9. Grotemeyer, A. et al., J Neuroinflammation 20, 79 (2023). Huang et al., J Nueroimmunology, Volume 354, 2021, 577543. Gordon et al., Sci. Transl. Med. 10, eaah4066(2018).

Phase 2a Trial in Participants with Early Parkinson's Disease

Disease-Relevant Biomarkers and Exploratory Neuroimaging

• Topline data from a Phase 2a trial in participants with early Parkinson's disease are expected in H1 2025

- Impact on relevant plasma and CSF biomarkers: hsCRP, IL-1β, IL-18, α-synuclein, NfL, Aβ40/42
- Impact on microglial inflammation via neuroimaging (TSPO-PET, exploratory)
- Test of therapeutic hypothesis that CNS NLRP3 inhibition will result in reduced inflammation and disruption of PD pathophysiology



Objectives

- · Safety and tolerability
- Disease and NLRP3-related biomarkers in plasma and CSF
- Neuroimaging for microglial inflammation (exploratory)

NLRP3 Is Emerging as a Potential Important Target in Obesity

The NLRP3 Inflammasome in Obesity and Related Metabolic Disease

- The NLRP3 inflammasome is emerging as an important axis in obesity and obesity-related metabolic disease
 - Obesity is a chronic inflammatory condition associated with release of NLRP3-related cytokines such as IL-1β and IL-6
 - This inflammation may drive a range of metabolic disorders, including insulin resistance, diabetes, and atherosclerosis
 - Calorie restriction and exercise-mediated weight loss are associated with reduced expression of NLRP3 and decreased systemic inflammation¹
 - In preclinical studies, NLRP3 activation is associated with obesity-related insulin resistance¹
- VTX3232 demonstrates broad cardiometabolic benefits in dietinduced obesity (DIO) mouse model
 - Reduced food intake and decreased body weight
 - Decreased markers of systemic inflammation (IL-1β, IL-6, fibrinogen)
 - Improved markers of metabolic function (decreased cholesterol, triglycerides, insulin resistance, and HbA1c)



Phase 2 Trial of VTX3232 in Obese Participants with Elevated CV Risk

Measuring Key Inflammatory Biomarkers and Changes in Body Composition

- A 12-week randomized, placebo-controlled trial of VTX3232 in obese participants with elevated CV risk is expected to initiate by YE 2024
 - Adult participants with obesity and additional cardiovascular and cardiometabolic risk factors
 - Evaluate the safety of VTX3232 as a monotherapy and in combination with a GLP-1 receptor agonist
 - Other endpoints include inflammatory and metabolic biomarkers and change in body weight

Endpoints

- Safety and tolerability
- Inflammatory biomarkers
- Cardiometabolic biomarkers
- Change in body weight

VERTLYX BIOSCIENCES Note: preliminary trial design, subject to change pending regulatory feedback.

VTX2735 Peripheral NLRP3 Inhibitor



VTX2735: A Potent & Selective Peripheral NLRP3 Inhibitor

Phase 2 Ready for Systemic Inflammatory Diseases

Highly Potent & Selective

- hu WB IC₅₀ (IL-1 β) = 80 nM
- No inhibition of other inflammasomes



Nonclinical & Phase 1 Package

- Demonstrated PD and in vivo efficacy in rodent models
- High exposures & target coverage achieved in Phase 1
- Promising clinical safety profile
 - No signals that raise safety concerns that require further nonclinical study for genetox, safety pharmacology and phototoxicity
 - Chronic tox studies initiated, to finish H2 2024
 - Current tox data support 3 months of human dosing
- Potent inhibitor in PBMC from CAPS (FCAS) patients

Phase 2 proof-of-concept study in CAPS patients (FCAS) completed

VTX2735 Phase 2 Open-Label Trial in CAPS (FCAS)

Trial Design and Participants

- CAPS is an ultra rare condition driven by excess NLRP3 activity; FCAS is the most common subtype
- Following washout of SoC, VTX2735 dosed for 14 days in two treatment periods (TP1 and TP2, 28 days total)
- Key endpoints: safety/tolerability and improvement in Key Symptom Score (KSS, mean of 5 symptom scores)
 - Pharmacodynamic assessments: hsCRP; acute phase reactants (SAA, IL-1α, IL-1β, IL-6, and IL-18)
- 7 participants enrolled (diverse NLRP3 mutations, prior SoC therapies, and symptoms)
 - 5 participants completed the trial; 1 withdrew consent after TP1 and 1 withdrew due to lack of efficacy



Treatment with VTX2735 Drives Reductions in Disease Activity

Disease Activity as Assessed by Key Symptom Score (KSS) and General Well-Being





VTX2735 Biomarker Changes

Reductions in IL-6, hsCRP and SAA Observed as Expected with NLRP3 Inhibition

- The pleiotropic cytokine IL-6 induces acute-phase reactant proteins, including C-reactive protein (CRP) and Serum amyloid A (SAA)
- Treatment with VTX2735 reduced plasma IL-6, hsCRP, and SAA in patients with elevations at baseline, consistent with reductions in disease activity
 - Lack of baseline elevations in some patients is likely attributable to long half-life of SoC antibodies (canakinumab)



Conclusions from the Phase 2 Trial of VTX2735 in FCAS Patients

Clinical Proof of Concept Achieved in CAPS Patients

- VTX2735 showed clinically-meaningful effects on disease activity and relevant biomarkers
- VTX2735 was well-tolerated
 - All adverse events were mild or moderate and resolved without treatment interruption
- These data represent a major milestone for VTX2735 and for NLRP3 inhibition
 - Dr. Hal Hoffman (UCSD): "Results similar to what we have seen in IL-1 inhibition studies" (Ilaris, Kineret, etc.)
 - Particularly impressive in a treatment-experienced population



VTX2735 is a Phase 2 Ready Peripheral NLRP3 Inhibitor

Highly Potent & Selective

- Structurally unique, selective inhibitor of NLRP3
- Potent inhibitor of NLRP3 with IC₅₀ = 80 nM in human whole blood assay
- Highly potent vs. CAPS mutation variants

Biologic-like Activity in CAPS Trial

- Concentration dependent suppression of IL-1β ex vivo
- Reduction in hsCRP and other inflammation markers (IL-6, SAA, neutrophils)
- Clinically-meaningful benefits observed in CAPS patients

Promising Safety Profile

- No CYP, hERG or transporter interactions
- No toxicological signals of concern
- Well-tolerated in all Phase 1 SAD/MAD dose groups and Phase 2 CAPS trial

Phase 2 Ready

- IP position secure; patent issued (US Pat. No. 11,603,375)
- Multi-kilo API production completed
- Extended-release dosing form in development



Attractive Opportunity for NLRP3 in Recurrent Pericarditis

De-risked Mechanism and Efficient Path to Market

• Recurrent pericarditis (RP) is a debilitating autoinflammatory condition

- ~40,000 patient U.S. prevalent population with RP1
- Autoinflammatory process characterized by IL-1 β/α release (downstream of NLRP3)
- 2021 approval of Arcalyst (rilonacept) validates IL-1α/β approach (de-risking for NLRP3)
 - Arcalyst generated \$233M in 2023 sales in 2nd full year of commercial availability; consensus sales >\$800M in 2028²
- Regulatory precedent for efficient path to market
 - Open-label Phase 2 trial followed by a single Phase 3 trial
- A Phase 2 trial of VTX2735 in participants with recurrent pericarditis to initiate by YE 2024
 - Open-label trial planned to evaluate safety and the impact of VTX2735 on disease-relevant biomarkers and pain scores



VTX002 S1P1 Receptor Modulator for Ulcerative Colitis



VTX002 Phase 2 Study in Moderate-to-Severe UC

Designed to Serve as the First of Two Pivotal Trials

Key Eligibility Criteria

- Patients with moderately to severely active UC as defined by the Modified (3-component) Mayo Score
- Insufficient response, loss of response, and/or intolerance to conventional or advanced therapies

Endpoints

- **Primary Endpoint:** Clinical remission at Week 13 as defined by the Modified Mayo Score
- Key Secondary Endpoints: Endoscopic improvement; symptomatic remission; histologic remission; endoscopic improvement-histologic remission





* Protocol version 1 study design. All patients had the option to roll-over regardless of response status. Subsequent protocol versions had patients with NR or loss of response only enter OLE Note: NCT05156125. MMS: Modified Mayo Score; R: responder; NR: non-responder; UC: ulcerative colitis.

Overview of VTX002 Induction Data

Robust Week 13 Clinical Remission with Differentiated Complete Endoscopic Remission



Baseline MMS 5 to 9 (N=209): Week 13

Clinical remission by modified Mayo Score (MMS) is defined as stool frequency subscore = 0 or 1, rectal bleeding subscore = 0, and endoscopic subscore \leq 1 (excluding friability). Endoscopic remission is defined as a Mayo endoscopic subscore of 0. P-value for testing the treatment difference is based on Cochran-Mantel-Haenszel test adjusted for prior use of advanced therapies, baseline corticosteroid use and baseline disease activity. Full analysis set with non-responder imputation. Source: Ventyx data on file

Induction Subgroup Analysis: Advanced Therapy Prior Use

Clinical Remission and Endoscopic Remission at Week 13



Clinical remission by modified Mayo Score (MMS) is defined as stool frequency subscore = 0 or 1, rectal bleeding subscore = 0, and endoscopic subscore \leq 1 (excluding friability). Endoscopic remission is defined as a Mayo endoscopic subscore of 0. P-value for testing the treatment difference is based on Cochran-Mantel-Haenszel test adjusted for prior use of advanced therapies, baseline corticosteroid use and baseline disease activity. Full analysis set with non-responder imputation. Source: Ventyx data on file

Preliminary Open-Label Extension Data

Further improvement in clinical and endoscopic remission rates at OLE week 39

- - - - % absolute endpoint rate (clinical or endoscopic remission) in induction dose arm at 13 weeks



At least half (NRI) of patients in 60mg treat-through group reach clinical remission or endoscopic remission at week 52



¹ Irrespective of the clinical response at the end of the 13-week induction phase; VTX002 60mg / 60mg represents 52 weeks treat-through efficacy; other groups received 60mg for 39 weeks post- induction; ² MES =0; Source: Ventyx data on file.

Endoscopic Remission is a Consensus Long-Term Treatment Goal

Current therapeutic outcomes remain disappointing: VTX002 has demonstrated the potential to set a new bar





VTX002 Program Status

Ventyx to Identify Partner or Other Source of Non-Dilutive Financing for Phase 3

- Preliminary OLE data continue to support the differentiated profile of VTX002 in ulcerative colitis
- LTE phase completed mid 2024; data to be reported at future medical meeting
- VTX002 is Phase 3 ready (clinical, CMC, regulatory)
 - End of Phase 2 meeting with FDA completed; EMA Scientific Advice meeting completed
 - Phase 2 trial expected to serve as the first of two pivotal trials*
- Ventyx to identify partner or other source of non-dilutive financing to support pivotal Phase 3 trial of VTX002 in ulcerative colitis



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