

A silhouette of a person standing on a rocky outcrop, with their arms raised in a gesture of triumph or celebration. The background is a dark, atmospheric landscape of mountains under a twilight sky.

**Peak Trial:  
Bezuclastinib + Sunitinib in  
Gastrointestinal Stromal Tumors  
(GIST) Top-Line Results**

Investor Webcast  
November 10, 2025

**Real Challenges. Real Solutions.**

Precision therapies for genetically defined diseases

# Forward-Looking Statements and Risk Factors

This presentation and the accompanying oral commentary contain forward-looking statements that involve risks, uncertainties and assumptions. If the risks or uncertainties ever materialize or the assumptions prove incorrect, our results may differ materially from those expressed or implied by such forward looking statements. All statements other than statements of historical fact could be deemed forward-looking, including, but not limited to, any statements of the plans, strategies, and objectives of management for future operations, including our clinical development and commercialization plans; any projections of financial information; any statement about historical results that may suggest trends for our business; any statement of expectation or belief regarding future events; potential markets or market size, technology developments, our clinical product pipeline, clinical and pre-clinical data or the implications thereof, enforceability of our intellectual property rights, competitive strengths or our position within the industry; any statements regarding the anticipated benefits of our collaborations or other strategic transactions; and any statements of assumptions underlying any of the items mentioned.

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All of Cogent Biosciences, Inc. ("Cogent") product candidates are investigational product candidates and their safety and efficacy have not yet been established. Cogent has not obtained marketing approval for any product, and there is no certainty that any marketing approvals will be obtained or as to the timelines on which they will be obtained.

# Agenda and Speakers



**Andrew Robbins**

President and Chief Executive Officer



**Neeta Somaiah, M.D.**

Professor and Department Chair,  
Department of Sarcoma Medical Oncology,  
Division of Cancer Medicine, The University  
of Texas MD Anderson Cancer Center

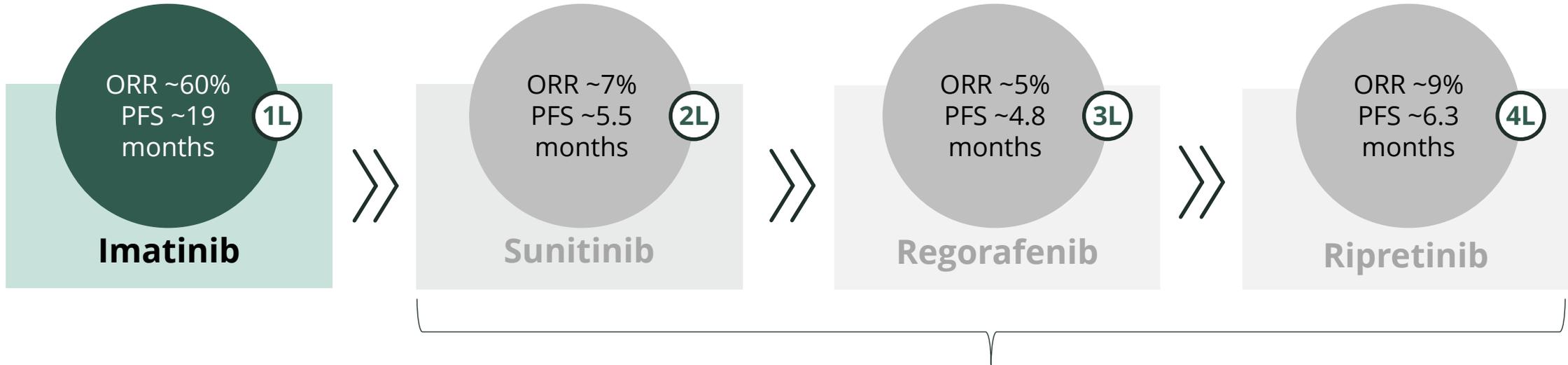


**Jessica Sachs, M.D.**

Chief Medical Officer

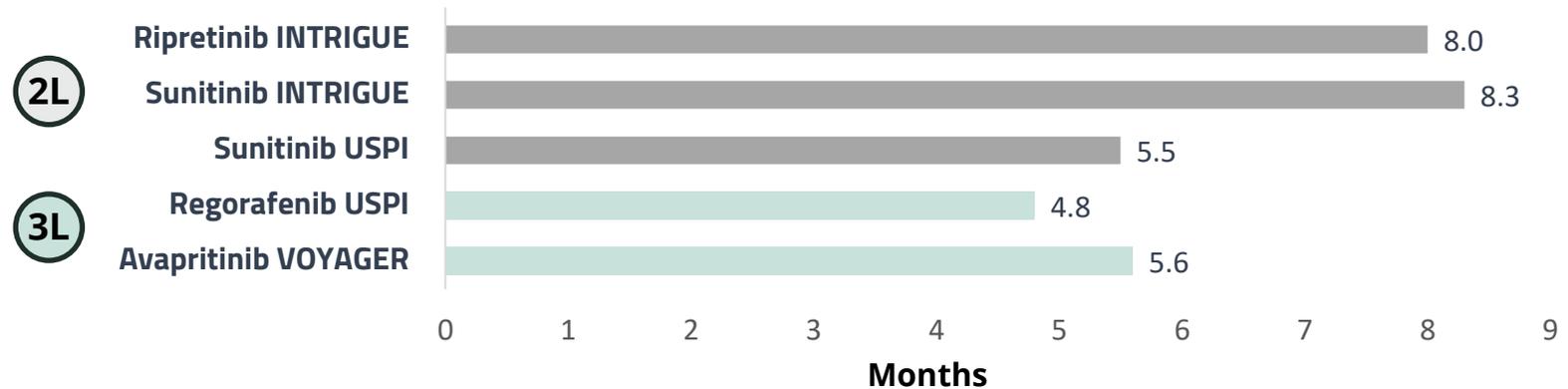
• Introduction	Andrew Robbins
• GIST Disease Overview	Dr. Neeta Somaiah
• Peak Top-Line Results	
• Patient Cases	
• Summary	Andrew Robbins
• Q&A	All

# Unmet Medical Need Remains for Patients with Imatinib-Resistant or Intolerant GIST



Modest historical performance of novel agents in imatinib-resistant setting emphasizes unmet need

GIST mPFS benchmarks





# Peak Phase 3 Top-Line Results

**Real Challenges. Real Solutions.**

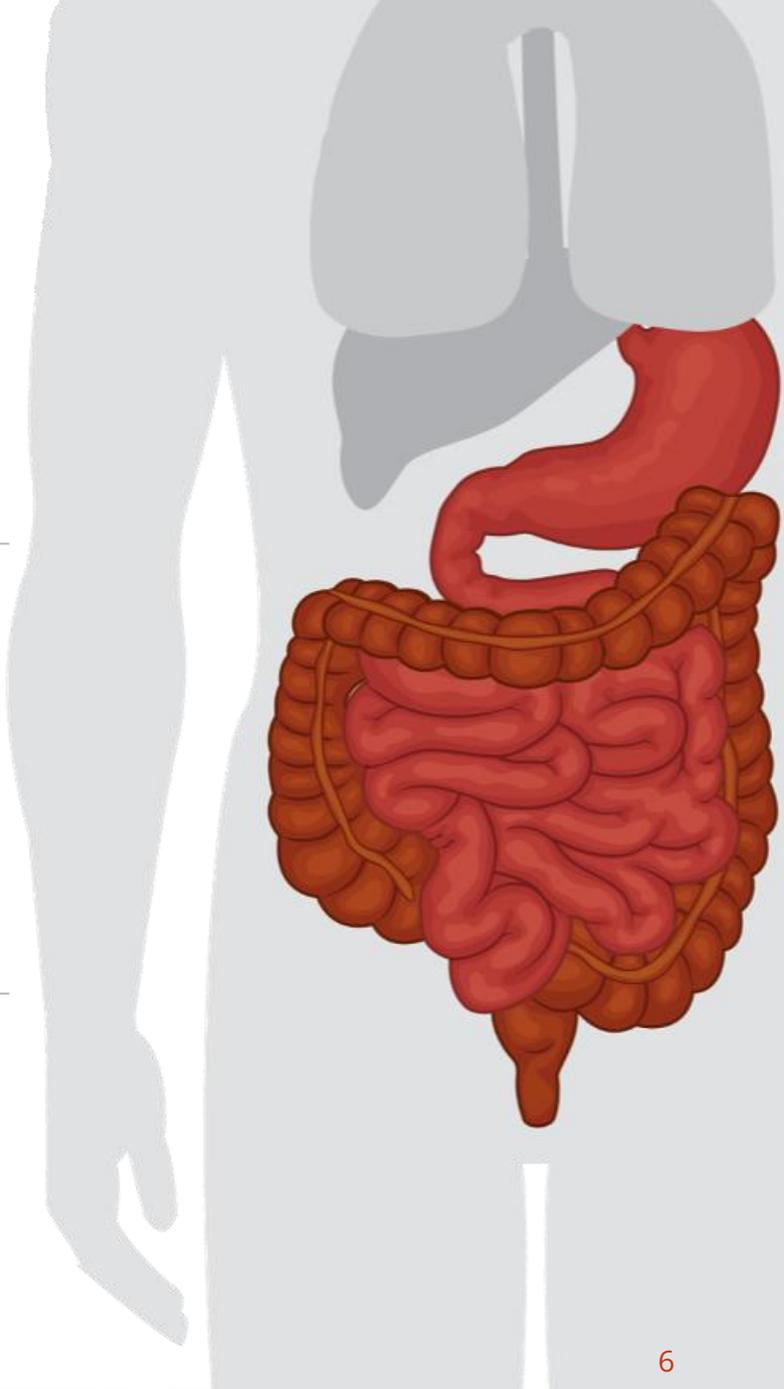
Precision therapies for genetically defined diseases

# Significant Unmet Need Remains for Patients with Gastrointestinal Stromal Tumors (GIST)

- Up to 6,000 GIST cases diagnosed annually in US, over 80% of which express KIT mutations, typically exons 11 and 9.<sup>1,2</sup>
- Tumors can start anywhere in the GI tract, but they occur most often in the stomach (about 60%) or the small intestine (about 35%).<sup>1</sup>
- While imatinib provides disease control in the majority of patients in the 1L setting, ~60% of patients with GIST develop resistance within 2 years, primarily due to mutations in exon 13/14 and/or exon 17/18.<sup>1,2</sup>
- Additional FDA-approved sequential lines of therapy include sunitinib, regorafenib, and ripretinib; however, each is only effective against a subset of resistance mutations and disease progression results from clonal heterogeneity.

## Symptoms<sup>3</sup>

Diarrhea, Nausea, Vomiting,  
Abdominal pain, Bloating,  
Gastroesophageal reflux  
disease, GI bleeding, Loss of  
appetite, Weight loss



# Combination of Bezuclastinib + Sunitinib Inhibits the Full Spectrum of Primary and Secondary Mutations

- No single TKI inhibits all KIT mutations.<sup>1-11</sup>
- The combination of bezuclastinib + sunitinib inhibits mutations in KIT exons 9, 11, 13, 14, 17, and 18, targeting the full spectrum of primary and secondary mutations relevant in advanced GIST.

Treatments	Exon 9	Exon 11	Exon 13	Exon 14	Exon 17	D816V	Exon 18
Imatinib	Moderate Inhibition	Strong Inhibition	No Inhibition	No Inhibition	No Inhibition	No Inhibition	No Inhibition
Regorafenib	Strong Inhibition	Strong Inhibition	No Inhibition	Strong Inhibition	Moderate Inhibition	No Inhibition	Strong Inhibition
Velzatinib (IDRX-42)	Strong Inhibition	Strong Inhibition	Moderate Inhibition	No Inhibition	Strong Inhibition	No Inhibition	Strong Inhibition
Ripretinib	Moderate Inhibition	Strong Inhibition	Moderate Inhibition	No Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition
Sunitinib	Strong Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition	No Inhibition	No Inhibition	No Inhibition
Bezuclastinib + Sunitinib	Strong Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition	Strong Inhibition

No Inhibition
  Moderate Inhibition
  Strong Inhibition

<sup>1</sup> Plexikon. Data on file.

<sup>2</sup> Serrano C et al. Br J Cancer, 2019.

<sup>3</sup> Evans EK et al. Sci Transl Med, 2017.

<sup>4</sup> Trent J et al. CTOS [presentation]. 2020.

<sup>5</sup> Smith P et al. AACR [poster]. 2018.

<sup>6</sup> Wagner AJ et al. JAMA Oncol. 2021.

<sup>7</sup> Serrano C and Fletcher O. Oncotarget, 2019.

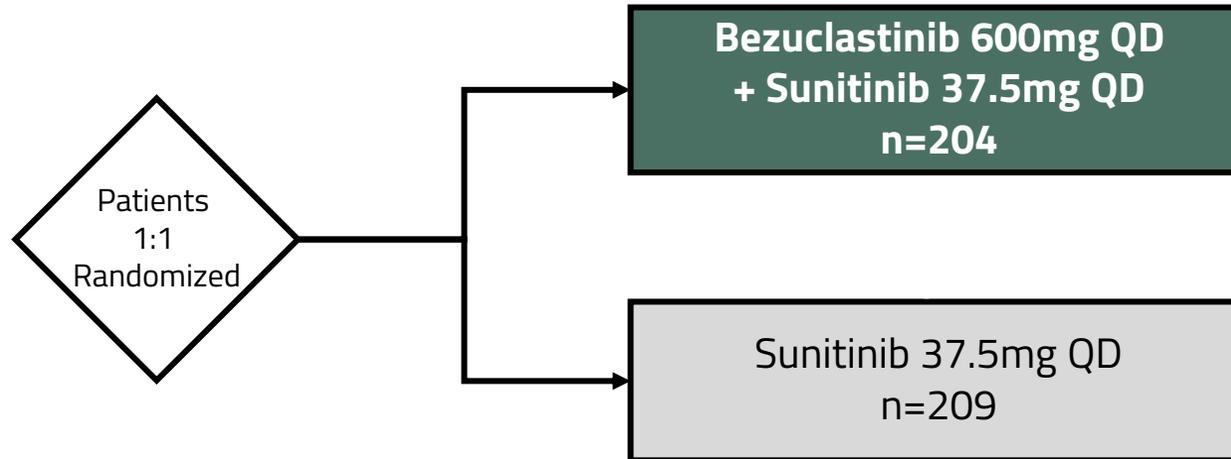
<sup>8</sup> Muhlenberg T et al. J Clin Oncol, 2024.

<sup>9</sup> Heinrich MC, et al. Nature Medicine, 2024.

<sup>10</sup> Blum SM, et al. JMedChem, 2023.

<sup>11</sup> Wagner AJ et al. CTOS 2022.

# Peak: Randomized Clinical Study Evaluating Bezuclastinib in Combination with Sunitinib in Patients with GIST



*Crossover allowed following BICR confirmed PD*

Patient Eligibility
<ul style="list-style-type: none"> <li>• Age ≥ 18 years</li> <li>• Histologically confirmed GIST with at least 1 measurable lesion per mRECIST v1.1</li> <li>• Locally advanced, unresectable or metastatic GIST</li> <li>• Documented disease progression on or intolerance to imatinib</li> </ul>

<b>Primary Endpoint</b>	<ul style="list-style-type: none"> <li>• Progression Free Survival per BICR</li> </ul>
<b>Key Secondary Endpoints</b>	<ul style="list-style-type: none"> <li>• Objective Response Rate per BICR</li> <li>• Overall Survival</li> </ul>
<b>Secondary Endpoints</b>	<ul style="list-style-type: none"> <li>• Progression Free Survival per Investigator</li> <li>• Disease Control Rate</li> <li>• Time to Response</li> <li>• Duration of Response</li> </ul>

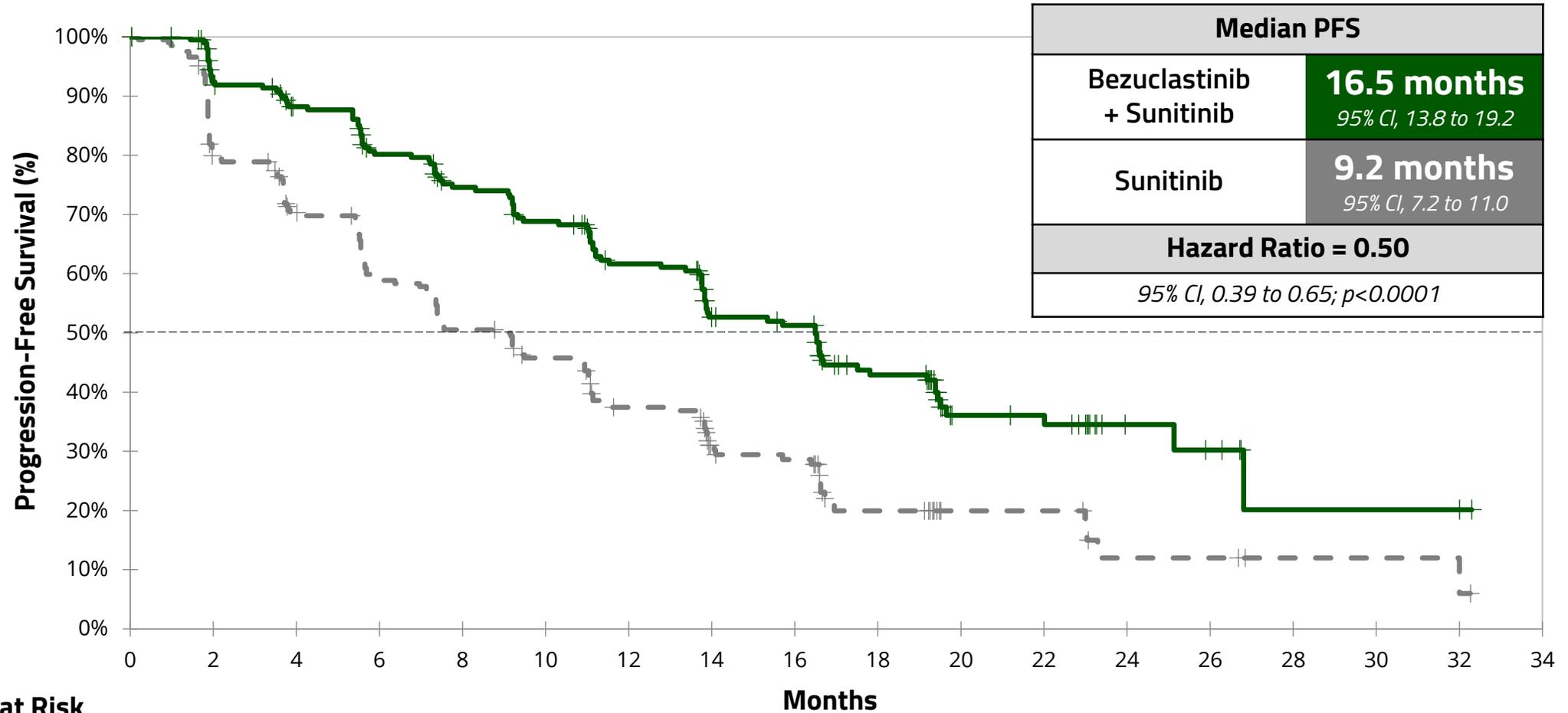
## Peak Part 2 Population is Representative of Second-Line Patients with GIST

Patient Demographics	Bezuclastinib + Sunitinib	Sunitinib	Overall
<b># Patients</b>	204	209	413
<b>Male, n (%)</b>	131 (64.2)	133 (63.6)	264 (63.9)
<b>Median Age in years, (range)</b>	63 (32 - 83)	64 (30 - 88)	63 (30 - 88)
<b>ECOG PS at baseline, n (%)</b>			
0	140 (68.6)	132 (63.2)	272 (65.9)
1	61 (29.9)	74 (35.4)	135 (32.7)
2	3 (1.5)	3 (1.4)	6 (1.5)

Region	Bezuclastinib + Sunitinib	Sunitinib	Overall
<b>North America, n (%)</b>	76 (37.3)	85 (40.7)	161 (39.0)
<b>Europe, n (%)</b>	94 (46.1)	94 (45.0)	188 (45.5)
<b>Latin America, n (%)</b>	20 (9.8)	11 (5.3)	31 (7.5)
<b>Asia-Pacific, n (%)</b>	14 (6.9)	19 (9.1)	33 (8.0)

Baseline Characteristics	Bezuclastinib + Sunitinib	Sunitinib	Overall
<b>KIT Mutations per molecular pathology report, n (%)</b>			
<b>Mutation Detected</b>			
Any Exon 9	31 (15.2)	34 (16.3)	65 (15.7)
Exon 11 only	120 (58.8)	126 (60.3)	246 (59.6)
Neither Exon 9 nor 11	10 (4.9)	11 (5.3)	21 (5.1)
Other	30 (14.7)	34 (16.3)	64 (15.5)
<b>No KIT Mutation Detected</b>	13 (6.4)	4 (1.9)	17 (4.1)
<b>Treatment History</b>			
<b>Imatinib intolerance</b>	6 (2.9)	8 (3.8)	14 (3.4)
<b>Prior Radiotherapy</b>	14 (6.9)	8 (3.8)	22 (5.3)
<b>Prior Anti-Cancer Surgery</b>	156 (76.5)	167 (79.9)	323 (78.2)

# Bezuclastinib Combination Extends PFS with 50% Reduction in Risk of Progression or Death



Patients at Risk	Months																	
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Bezuclastinib + Sunitinib	204	180	166	146	130	119	102	76	72	51	24	23	8	6	2	2	2	0
Sunitinib	209	161	137	113	97	85	64	39	35	19	9	9	4	4	2	2	2	0



PFS: Progression-Free Survival; mRECIST v1.1: modified Response Evaluation Criteria in Solid Tumors version 1.1; BICR: Blinded Independent Central Review

Data cut-off as of 30Sep2025

# Bezuclastinib + Sunitinib Demonstrates Unprecedented 46% Objective Response Rate

ORR per BICR , %, n [95% CI]	
<b>Bezuclastinib + Sunitinib (n=204)</b>	<b>45.6%</b> 93 [38.6, 52.7]
<b>Sunitinib (n=209)</b>	<b>25.8%</b> 54 [20.0, 32.3]
Difference in ORR, % [95% CI]; P Value	
19.8 [10.6, 28.6]; <b>P Value &lt;0.0001</b>	

BOR per BICR, n (%)	Bezuclastinib + Sunitinib	Sunitinib
Complete Response (CR)	<b>13 (6.4)</b>	4 (1.9)
Partial Response (PR)	<b>80 (39.2)</b>	50 (23.9)
Stable Disease (SD)	91 (44.6)	108 (51.7)
Progressive Disease (PD)	15 (7.4)	41 (19.6)
Not Evaluable (NE)	5 (2.5)	6 (2.9)

## Bezuclastinib + Sunitinib is Generally Well Tolerated with a Favorable Safety Profile

	Study Treatment	
	Bezuclastinib + Sunitinib (n=204)	Sunitinib (n=208) <sup>1</sup>
<b>TEAEs, n (%)</b>	204 (100)	207 (99.5)
<b>TRAEs, n (%)</b>	202 (99.0)	204 (98.1)
<b>Gr3+ TRAEs, n (%)</b>	146 (71.6)	109 (52.4)
<i>Bezuclastinib related Gr3+</i>	126 (61.8)	N/A
<i>Sunitinib related Gr3+</i>	141 (69.1)	109 (52.4)
<b>SARs, n (%)</b>	34 (16.7)	24 (11.5)
<i>Bezuclastinib related SAEs</i>	25 (12.3)	N/A
<i>Sunitinib related SAEs</i>	31 (15.2)	24 (11.5)
<b>TRAEs leading to death, n (%)</b>	0	1 (0.5)
<b>Reductions of either drug due to TRAEs, n (%)</b>	114 (55.9)	92 (44.2)
<b>DC of study treatment due to TRAEs, n (%)</b>	15 (7.4)	8 (3.8)

Randomized Period Data; 1: One patient randomized to sunitinib but never dosed

- The incidence of TEAEs and TRAEs was similar between treatment arms
- No TRAEs leading to death in patients on bezuclastinib + sunitinib combination
- Only TRAEs leading to discontinuation of either drug in >1 patient on the combination arm were neutropenia (2.9%), ALT/AST increased (1.5%), and diarrhea (1%)

## All Grade TEAEs ≥ 20% Demonstrate Balance Between Arms

Preferred term, n (%)	Bezuclastinib + Sunitinib (n=204)		Sunitinib (n=208) <sup>1</sup>	
	All Grade	Grade 3+	All Grade	Grade 3+
Diarrhea	159 (77.9)	16 (7.8)	138 (66.3)	15 (7.2)
ALT/AST increased*	115 (56.4)	22 (10.8)	35 (16.8)	3 (1.4)
Hypertension	106 (52.0)	60 (29.4)	108 (51.9)	57 (27.4)
Taste disorder*	97 (47.5)	0	52 (25.0)	0
Nausea	81 (39.7)	1 (0.5)	56 (26.9)	2 (1.0)
Hair color changes	79 (38.7)	0	37 (17.8)	0
Fatigue	72 (35.3)	9 (4.4)	70 (33.7)	5 (2.4)
Neutropenia*	71 (34.8)	31 (15.2)	70 (33.7)	32 (15.4)
PPE	59 (28.9)	6 (2.9)	95 (45.7)	5 (2.4)
Vomiting	56 (27.5)	2 (1.0)	45 (21.6)	4 (1.9)
Decreased appetite	55 (27.0)	6 (2.9)	46 (22.1)	0
Anemia	54 (26.5)	19 (9.3)	42 (20.2)	10 (4.8)
Abdominal pain	51 (25.0)	6 (2.9)	52 (25.0)	4 (1.9)
Stomatitis	46 (22.5)	6 (2.9)	68 (32.7)	10 (4.8)
GERD	45 (22.1)	0	30 (14.4)	0
Dyspepsia	43 (21.1)	5 (2.5)	29 (13.9)	0
Thrombocytopenia*	39 (19.1)	2 (1.0)	55 (26.4)	9 (4.3)

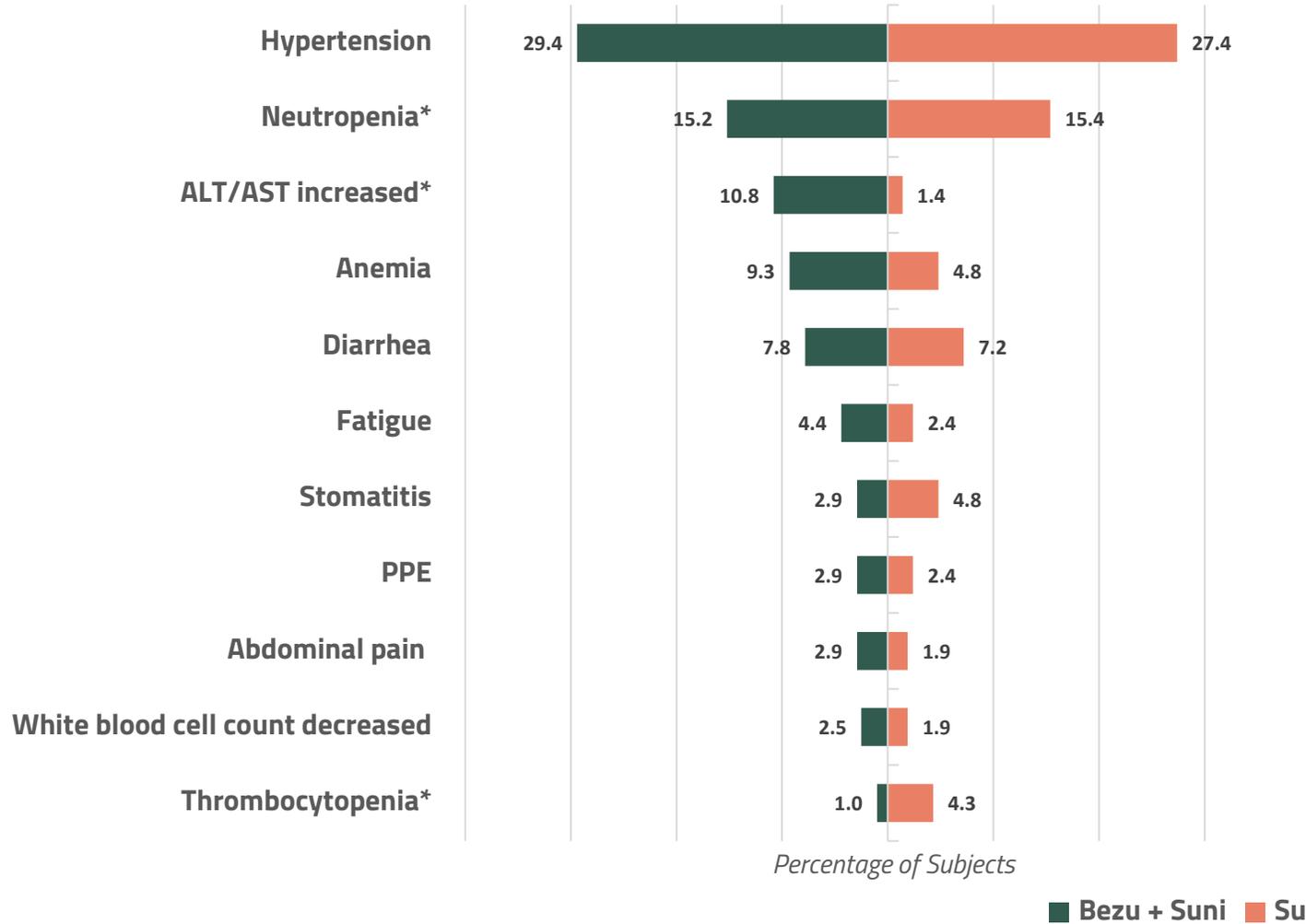
- TEAEs reported at a higher frequency (>15%) in combination arm: ALT/AST increased, taste disorder, and hair color changes
- TEAEs reported less frequently in combination arm: PPE, stomatitis and thrombocytopenia
- The safety profile of bezuclastinib combination is generally consistent with the known safety profile of sunitinib alone and no new risks were identified with the combination

Randomized Period Data; 1: One patient randomized to sunitinib but never dosed



Data cut-off as of 30Sep2025; \*Pooled terms; TEAE, treatment-emergent adverse event; PPE, Palmar-Plantar Erythrodysesthesia; GERD Gastroesophageal Reflux Disease

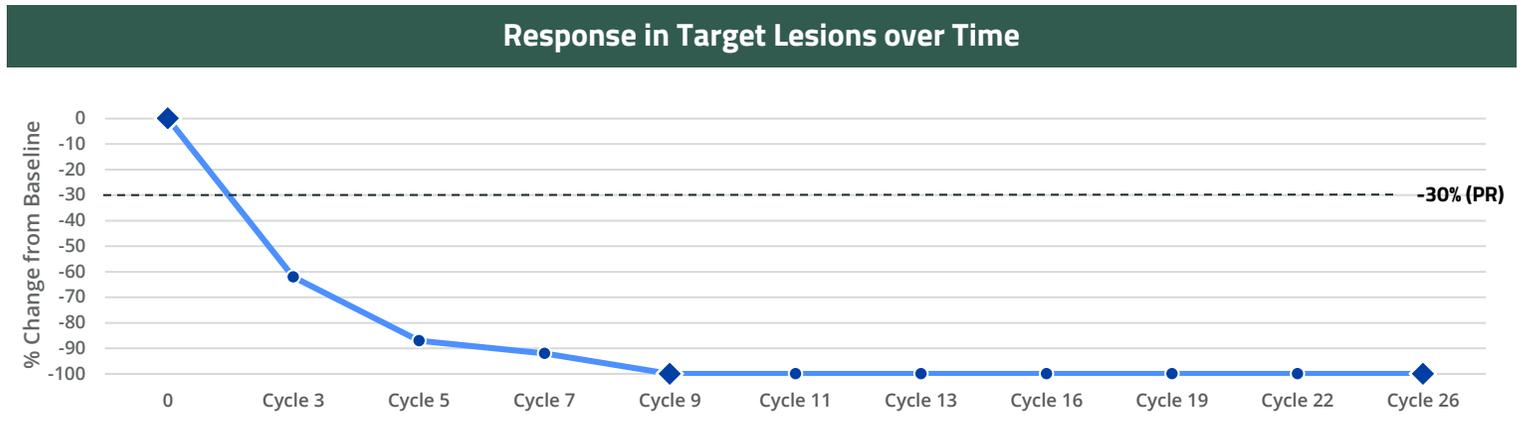
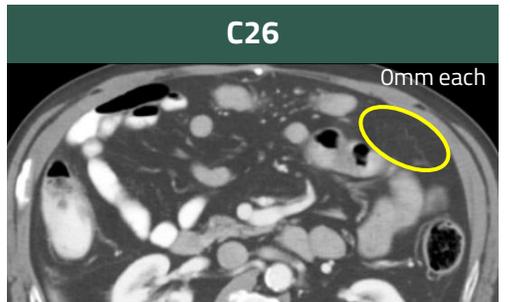
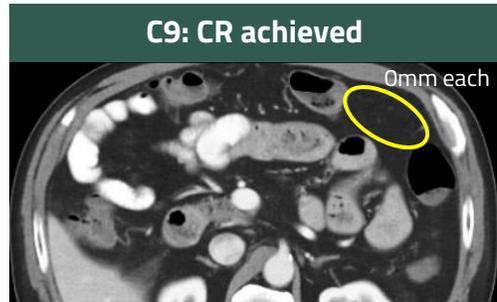
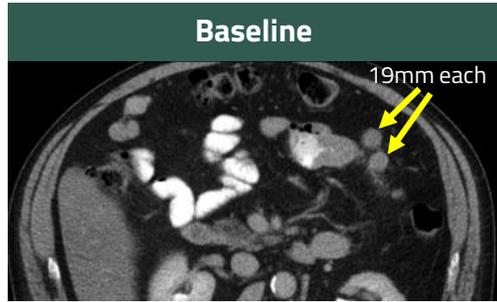
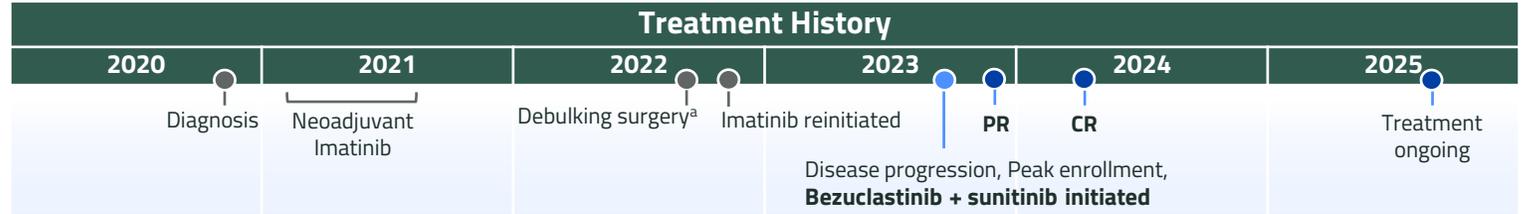
# Incidence of Grade 3+ TEAEs ( $\geq 2\%$ ) Balanced Across Arms



- Majority of the Gr 3+ TEAEs were reported at a similar rate between combination and monotherapy arms; ALT/AST increase and anemia reported at higher incidence in the combination arm
- No increase in frequency of severe events observed in combination arm for some key risks seen with sunitinib (hypertension, neutropenia and diarrhea)
- ALT/AST elevations led to bezuclastinib dose reductions in 12.7% of patients and only 1.5% of patients discontinued. All Grade 3 ALT/AST events resolved, and no Grade 4 elevations were reported across the study

# 66 yo Man with Metastatic GIST who Experienced an Early (PR at C3, CR at C9) and Durable Response to bezuclastinib + sunitinib (ongoing at C26)

Relevant Medical History	
Site of tumor diagnosis: Jejunum/Ileum	
Sites of disease:	
<ul style="list-style-type: none"> <li>Target lesions: Peritoneum, mesentery, small intestine</li> <li>Baseline Sum of Diameters: 84 mm</li> </ul>	
Relevant comorbidities: Obesity; hypertension; anemia; elevated ALT and creatinine; abdominal distention; leg swelling; back pain; GERD	
Peak Treatment and Dose Modifications	
Bezuclastinib 600 mg QD + sunitinib 37.5 mg QD	
<ul style="list-style-type: none"> <li>Sunitinib reduced to 25 mg for diarrhea</li> </ul>	
TRAEs (maximum Gr reported)	
Gr 1	<ul style="list-style-type: none"> <li>Acneiform dermatitis</li> <li>Hair color changes</li> <li>Nausea</li> </ul>
Gr 2	<ul style="list-style-type: none"> <li>Localized edema</li> </ul>
Gr 3	<ul style="list-style-type: none"> <li>Diarrhea (resolved)</li> <li>Neutropenia (resolved)</li> </ul>



Data cut-off as of 30Sep2025; C: Cycle; 1 cycle = 28 days; <sup>a</sup>Excision of abdominal tumors, intestinal resection; AE: adverse event; ALT: alanine transaminase; Gr: grade; GERD: gastroesophageal reflux disease; TRAE: treatment-related AE

# 69 yo Man with Metastatic GIST Responded to bezuclastinib + sunitinib Treatment at Cycle 5 (PR) and is Continuing to Benefit at Cycle 38

## Relevant Medical History

**Site of tumor diagnosis:** Small intestine/bowel

### Sites of disease:

- Target lesions: Peritoneum
- Baseline Sum of Diameters: 65 mm

**Relevant comorbidities:** Hemorrhoids; Gr 1 hypertension, Gr 1 anemia, anxiety, sleep apnea, hyperlipidemia, irregular heartbeat

## Peak Treatment and Dose Modifications

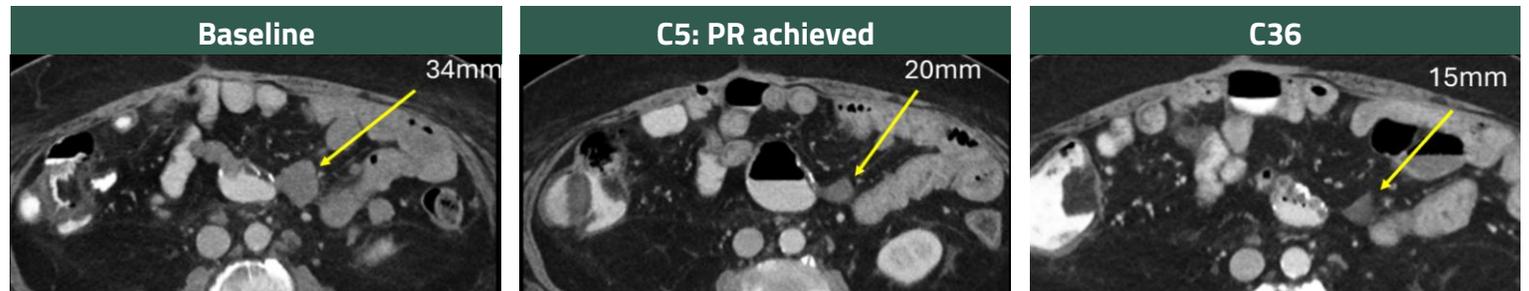
Bezuclastinib 600 mg QD + sunitinib 37.5 mg

- Following Gr 3 anemia/neutropenia:
  - Bezuclastinib interrupted → resumed at 600mg
  - Sunitinib interrupted → reduced to 25 mg

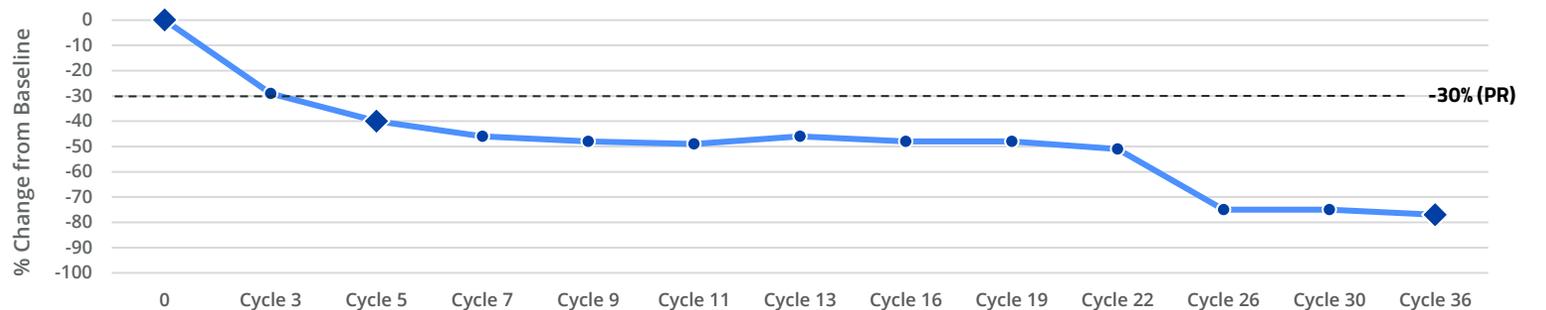
## TRAEs (maximum Gr reported)

<b>Gr 1</b>	<ul style="list-style-type: none"> <li>• Diarrhea</li> <li>• Hair color changes</li> </ul>
<b>Gr 2</b>	<ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Hypothyroidism</li> </ul>
<b>Gr 3</b>	<ul style="list-style-type: none"> <li>• Neutropenia (resolved)</li> <li>• Anemia (related to Sunitinib only, resolved)</li> </ul>

## Treatment History



## Response in Target Lesions over Time



# We Believe Peak Results are Transformative and Practice Changing

- Bezuclastinib combination establishes first new benchmark for 2L GIST in 20 years
  - **50% reduced risk of progression or death** compared to current standard of care
  - **16.5 months mPFS** compared to 9.2 months for sunitinib alone ( $p < 0.0001$ )
  - **46% ORR** compared to 26% for sunitinib alone ( $p < 0.0001$ )
  - OS immature with event rate of less than 20% at time of PFS analysis
- Generally well tolerated with **no unique risks observed** when compared to the known safety profile of sunitinib
- Estimated **19 months+ mean treatment duration** for bezuclastinib combination patients based on projection for patients remaining on combination therapy
- Active **Expanded Access Program allowing immediate availability** of the bezuclastinib combination for 2L patients with GIST
- **NDA submission** for bezuclastinib in imatinib-resistant or intolerant GIST planned 1H 2026 based on results of the Peak trial

# Bezuclastinib GIST Expanded Access Program is Currently Open to Requests for Access from Treating Physicians in the United States (NCT06948955<sup>1</sup>)

## Aim

Designed to provide bezuclastinib coadministered with sunitinib outside of a clinical trial to real-world patients with GIST who meet specific criteria including, but not limited to, having no comparable or satisfactory alternative therapy to treat the disease.

## Methods

Patients will receive oral bezuclastinib 600 mg QD plus sunitinib 37.5 mg QD. Treating physician to assess patients, report any SAEs, and determine treatment duration.

## Key Inclusion Criteria\*

Age ≥ 18 years

Diagnosis of histologically confirmed locally advanced metastatic and/or unresectable GIST, disease progression on imatinib or intolerance to imatinib

Lack of adequate disease control on current therapies

## Key Exclusion Criteria\*

Eligibility for and/or enrolled in an ongoing bezuclastinib clinical trial

Discontinuation of investigational bezuclastinib due to toxicity or withdrawal of consent

Pregnant or currently breastfeeding



1. ClinicalTrials.gov. Expanded Access to Bezuclastinib to be Coadministered With Sunitinib for Patients With Gastrointestinal Stromal Tumors Identifier: NCT06948955. Retrieved July 16, 2025 from: <https://clinicaltrials.gov/study/NCT06948955> ; \*Other protocol-defined criteria apply

# Several Additional Near Term Cogent Biosciences Catalysts

## Top-line Results: Expected Dec 2025



**Bezuclastinib 150 mg QD**

## Primary endpoint: ORR using mIWG-MRT-ECNM

- *Apex enrollment complete Q1 2025; TLR on track for Dec 2025*
- *Positive Summit results provide expected read-through to Apex*
- *Current standard of care associated with significant safety concerns; no other investigational products in clinical development*

### Key Entry Criteria

- Centrally Confirmed ASM, SM-AHN, or MCL
- Measurable disease per mIWG-MRT-ECNM
- ECOG PS 0 to 3

## • ASH 2025 Presentations

- Two oral presentations from Summit in NonAdvanced Systemic Mastocytosis (NonAdvSM)
- Novel selective JAK2 V617F inhibitor showcasing best-in-class potential

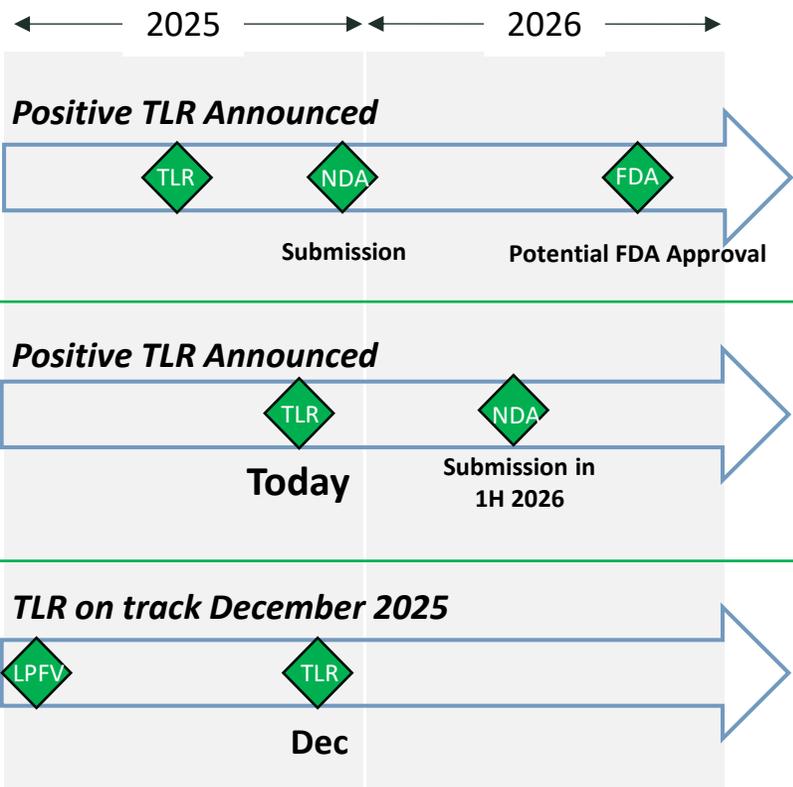
## • Submit first NDA for bezuclastinib in NonAdvSM expected by the end of 2025

## • Submit NDA for bezuclastinib in imatinib-resistant or intolerant GIST patients expected in the first half of 2026

# Bezuclastinib Emerging as Potential Best-in-Class KIT Inhibitor Across Indications



Registration-directed study in NonAdvSM  
bezuclastinib vs. placebo  
Positive Results Announced July 2025



**\$3 billion+ Global annual market opportunity;**  
Best-in-class symptomatic improvement and biomarker data support potential market leadership



Phase 3 study in 2nd-line GIST  
sunitinib +/- bezuclastinib  
Positive Results Announced November 2025

**\$4 billion+ Global annual market opportunity;** first positive 2<sup>nd</sup>-line GIST trial in over 20 years, 50% reduction in risk of progression or death



Registration-directed study in AdvSM  
bezuclastinib monotherapy  
Results on Track for December 2025

**\$500 million Global annual market opportunity;** differentiated safety/tolerability results would provide clear path to market leadership

**Estimated aggregate global annual sales opportunity >\$7.5 billion with limited competition; IP protection anticipated through 2043 based on strength of COM, PTE and pending formulation patent application**





**Q&A**

**Real Challenges. Real Solutions.**

Precision therapies for genetically defined diseases