

# Clinical Data from SUMMIT Part 1b

Investor Webcast February 23, 2024

## Real Challenges. Real Solutions.

Precision therapies for genetically defined diseases

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## **Agenda and Speakers**



Andrew Robbins
President and
Chief Executive Officer



Frank Siebenhaar, M.D.
Head, University Outpatient Clinic,
Institute of Allergology, Charite Universitätsmedizin Berlin



**Jessica Sachs, M.D.**Chief Medical Officer

<ul> <li>Introduction and Corporate Overview</li> </ul>	Andrew Robbins
<ul> <li>Review of SUMMIT Part 1b Data with Bezuclastinib in Nonadvanced Systemic Mastocytosis</li> </ul>	Dr. Frank Siebenhaar
<ul> <li>Presentation Summary</li> </ul>	Andrew Robbins
• Q&A	All



## Multiple Clinical and Preclinical Programs with Upcoming Catalysts

Program	Indication	Early Stage Development	Late Stage Development	Regulatory Submission	Approval
<b>Clinical Programs</b>					
	Advanced Systemic Mastocytosis	Apex		Part 2 (Registi Top-line results	ration-Directed) by mid-2025
Bezuclastinib (KIT inhibitor)	Nonadvanced Systemic Mastocytosis	Summit		MIT Part 2 (Reg Top-line results	<b>sistration-Directed)</b> by YE 2025
	Gastrointestinal Stromal Tumors	Peak	• PEAK	Part 2 (Global Top-line results	Phase 3 trial)

#### **Research Programs**

Indication	Hit ID	Lead Generation	Lead Optimization	Candidate Selected	IND Submission
ErbB2 mut				>	
FGFR2					
ΡΙ3Κα			$\rightarrow$		
Target 4			>		
Target 5					
Target 6					



## **Objectives of Today's Presentation**

- Review Summit Part 1b results, with a focus on newly announced RP2D 100 mg optimized formulation:
  - Well tolerated safety profile, generally consistent with placebo
  - Impressive pharmacodynamic effects, evidence of strong target engagement
  - 51% mean change in TSS with 70% of patients achieving ≥50% reduction at week 12
  - 49% mean improvement in quality-of-life (McQoL) at week 12
- Introduce MS2D2, a novel, refined patient reported outcomes measure (PROM) for symptomatic severity in NonAdvSM patients
- Announce the initiation of SUMMIT Part 2, a 159-patient, registration-directed clinical trial of bezuclastinib vs.
  placebo in NonAdvSM patients
- Provide clinical context to the SUMMIT Part 1b findings
- Review upcoming milestones for Cogent Biosciences



## Systemic Mastocytosis (SM) is a Rare and Debilitating Disease of Neoplastic Mast Cells with Significant Unmet Medical Need Remaining for New Therapies<sup>1</sup>

- Nonadvanced SM (NonAdvSM)<sup>2</sup> includes smoldering SM (SSM),<sup>3</sup> for which no therapies are approved, as well as indolent SM (ISM).
- Patients with NonAdvSM experience a variety of disabling, potentially serious and severe symptoms caused by mast cell degranulation, including life-threatening anaphylaxis.<sup>4</sup>
- Agents targeting KIT D816V are used to treat Advanced SM (AdvSM) and NonAdvSM, but unmet need remains.<sup>5-7</sup>
- Adverse events, such as cognitive impairment, bleeding, and edema, may limit dosing of other agents.



<sup>1.</sup> Pardanani A. AmJ Hematol 2021; 96(4):508-525. 2. NORD 2021. Mastocytosis; available at: https://rarediseases.org/rare-diseases/mastocytosis/.

<sup>3.</sup> Trizuljak J, et al. Allergy 2020 Aug;75(8):1927-1938. 4. Pyatilova P and Siebenhaar F. Immunol Allergy Clin North Am 2023; 43(4):751-762.

<sup>5.</sup> DeAngelo D, et al. Nat Med, 2021, 27(12):2183-2191. 6. Ayvakit (avapritinib) [product information]. Cambridge, MA: Blueprint Medicines Corporation; May 2023. 7. DeAngelo et al. [abstract] In: Blood (ASH) 2022; 140 (Supplement 1): 1512-13. Modena B., et al. AAAAI Annual Meeting; Washington D.C. 25 Feb 2024: Poster #694

## **Development of MS2D2 Total Symptom Score**

- Rigorous process, in accordance with FDA guidelines, was followed for the development of a novel patient reported outcomes measure (PROM)
- Literature review, patient and physician interviews, and data from SUMMIT Part 1 were used to design a reliable, valid and fit-for-purpose PROM
- Pending FDA approval, a comparison of week 24 mean absolute change from baseline in MS2D2 score between bezuclastinib and placebo will serve as the primary endpoint of SUMMIT Part 2

### MS2D2 TSS Additions based on:

- Literature review
- Patient interviews
- SUMMIT Part 1 psychometric analysis

Itching			
Flushing			
Spots			
Skin redness			
Difficulty Concentrating			
Difficulty Remembering			
Nausea			
Abdominal Pain			
Headache			
Bone Pain			
Feeling Tiredness			

MS2D2 TSS comprised of 11 items scored on 0-110 scale

#### MS2D2 TSS

## MS2D2 TSS Exclusions based on:

- FDA feedback
- KOL advice
- SUMMIT Part 1 psychometric analysis

#### Brain Fog

Dizziness

Diarrhea Severity

Each of these items will be collected as part of MS2D2 secondary analyses in SUMMIT Part 2



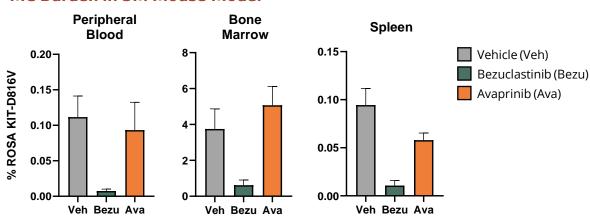
## Nonclinical Data Suggests Optimal Activity Against Mastocytosis May Require Higher Exposures Than Clinically Tolerable With Available Therapy

- Mice engrafted with SCF-independent human ROSA<sup>KIT D816V</sup> cells<sup>8</sup> were treated daily for 8 weeks with a KIT inhibitor at doses matching clinical exposures observed in NonAdvSM patients
- Only bezuclastinib led to statistically significant decreases (p<0.05) in mutant MC burden compared to vehicle
- At exposures comparable to those achieved in NonAdvSM patients, bezuclastinib led to statistically significant decreases (P<0.05) in bone marrow and spleen compared to avapritinib

#### **Total Drug Exposure Ratio Measured in SM Mouse Model**

	Mouse Plasma AUC <sub>0-24</sub> (ng∙hr/mL) <sup>a</sup>	NonAdvSM Clinical Plasma AUC <sub>0-24</sub> (ng·hr/mL) <sup>b</sup>	Total Drug Exposure Ratio (mouse/clinic)
Bezuclastinib	11775	16900	0.7X
Avapritinib	2118	1548	1.4X

#### MC Burden in SM Mouse Model





## Initial Results from Summit: An Ongoing, 3-Part, Multi-Center, Randomized, Double-Blind, Placebo-Controlled Phase 2 Clinical Study of Bezuclastinib in Adult Patients with NonAdvanced Systemic Mastocytosis (NonAdvSM)

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American Academy of Allergy, Asthma & Immunology (AAAAI) Annual Meeting Washington D.C.

25 Feb 2024 Poster #694.

## SUMMIT: Phase 2 Clinical Study Evaluating Bezuclastinib in NonAdvSM

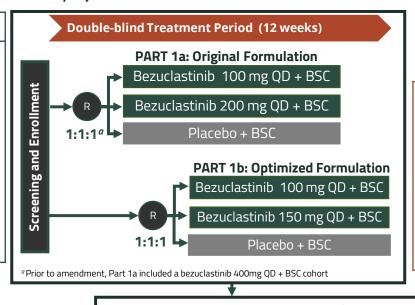
#### PART 1: DOSE OPTIMIZATION (enrollment complete)

**Primary Objective:** Determine recommended dose of bezuclastinib

#### **Eligibility**

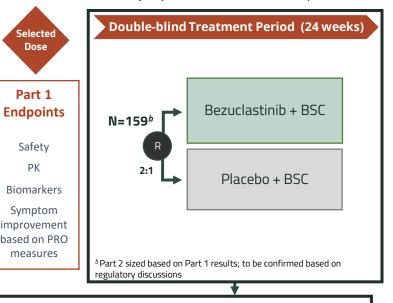
ISM or SSM based on 2016 WHO classification

Moderate severe symptoms on ≥2 anti-mediator therapies



#### **PART 2: EXPANSION (actively enrolling)**

Primary Objective: Determine efficacy of bezuclastinib



#### **OPEN-LABEL EXTENSION (OLE)**

Selected Dose

Part 1

**Endpoints** 

Safety

PK

**Biomarkers** 

Symptom

improvement

measures

**Primary Objective:** Characterize long-term safety and tolerability of bezuclastinib treatment



#### Summit Part 1 Enrolled NonAdvSM Patients with Moderate to Severe Disease

#### Patient Demographics, Characteristics, and Disposition

Patient Demographics	Part 1a (N=20)	Part 1b (N=34)
Female, n (%)	15 (75)	21 (61.8)
Median Age in years, n (range)	50.5 (38 – 75)	52.0 (27-76)
ECOG PS, n (%)		
0	3 (15)	16 (47.1)
1	15 (75)	17 (50.0)
2	2 (10)	1 (2.9)
Clinical Characteristics	Part 1a (N=20)	Part 1b (N=34)
NonAdv Subtype per PI, n (%)		
Indolent SM (ISM)	18 (90)	33 (97)
Smoldering SM (SSM)	2 (10)	1 (3)
Median (range) MAS Total Score at Eligibility	45.56 (26.3 – 71.6)	43.44 (28.6 – 65.4)
Mast Cell Burden	Part 1a (N=20)	Part 1b (N=34)
KIT D816V in Whole Blood, Positive, n (%)	15 (75)	28 (82.4)
Median KIT D816V VAF, % (range)	0.49 (BLD - 32.48)	0.085 (BLD - 19.58)
Median Bone Marrow MC Burden, % (range)	22.5 (1 – 80)	15 (2 – 50)
Median Serum Tryptase, ng/mL (range)	74.35 (10.2-592.0)	37.15 (9.2 - 206.0)
<20 ng/mL, n (%)	3 (15)	7 (20.6)
≥20 ng/mL, n (%)	17 (85)	27 (79.4)

SM Therapy	Part 1a (N=20)	Part 1b (N=34)
Prior avapritinib, n (%)	1 (5.0)	1 (2.9)
Baseline Supportive Care Medications, Median (range)	3 (2-7)	2.5 (2 – 9)
H1 blockers, n (%)	19 (95)	30 (88.2)
H2 blockers, n (%)	18 (90)	27 (79.4)
Leukotriene receptor antagonists, n (%)	8 (40)	14 (41.2)
Proton pump inhibitors, n (%)	7 (35)	9 (26.5)
Cromolyn sodium, n (%)	4 (20)	3 (8.8)
Omalizumab, n (%)	3 (15)	1 (2.9)
Corticosteroids, n (%)	1 (5)	1 (2.9)
Patient Disposition	Part 1a (n=20)	Part 1b (N=34)
Months on Study (Part 1 + OLE), median (range)	7.03 (2.8 – 16.0)	4.09 (2.7-6.6)
Completed Part 1 (a or b), n (%)	20 (100)	34 (100)
On Study as of Data Cut-off, n (%)	18 (90)	33 (97.1)
Discontinued study, n (%)	2 (10)	1 (2.9)
AE, n (%)	1 (5)	1 (2.9)
Patient Decision, n (%)	1 (5)	0



## Bezuclastinib 100 mg QD Optimized Formulation Selected as Summit Part 2 Dose Based on Part 1 Safety, PK, Biomarker and Efficacy Results



#### Encouraging Safety and Tolerability Profile for Bezuclastinib 100 mg Dose in Part 1b

- The majority of TEAEs were low grade and reversible without dose modification
- No bleeding or cognitive impairment events reported across bezuclastinib cohorts
- No dose reductions at 100mg cohort; two dose reductions at 150mg: Gr1 ALT, Gr2 abdominal pain
- Only one SAE reported in bezuclastinib cohorts (150mg patient experienced ALT/AST increase that led to discontinuation)

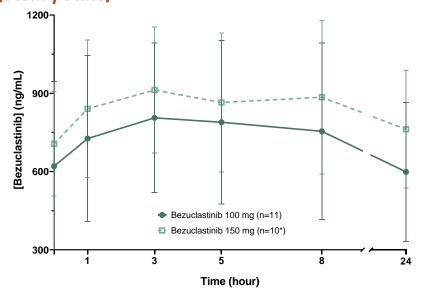
#### All TEAEs Occurring >1 Patient in Any Cohort in Part 1b

	Placebo (n=12)		Bezuclastinib			
			<b>100mg QD</b> (n=11)		<b>150mg QD</b> (n=11)	
Preferred Term	Gr 1/2	Gr 3+	Gr 1/2	Gr 3+	Gr 1/2	Gr 3+
Hair color changes	-	_	3	-	7	-
Diarrhea	2	_	2	-	2	_
Nausea	3	_	3	-	1	-
Taste disorder <sup>#</sup>	-	_	1	-	2	-
Dizziness	2	-	-	-	2	-
Fatigue	1	-	-	-	2	-
Noncardiac chest pain	1	-	-	-	2	-
ALT/AST increased#	1	-	-	-	1	1*
Neutropenia <sup>#</sup>	-	-	-	-	1	1*
COVID-19	3	_	1	-	_	-
Insomnia	2	_	_	-	_	_
Decreased appetite	2	_	_	-	-	_
Vomiting	2	_	-	-	-	-
Urticaria	2	_	-	-	-	-
Palpitations	2	_	_	-	-	_



## Bezuclastinib Demonstrated Dose Dependent Increase in Mean Steady State Exposure

## Summit Part 1b: Mean (± SD) Concentration on C2D1 (Steady State)



## Comparable Exposures for Low and High Dose Across Part 1a and 1b

	Dose (mg), Study Part	N	Mean S.S. AUC <sub>0-24h</sub> (ng.h/mL)
Low Dose	100, 1a	7	16900
	100, 1b	11	16900
High Dose	200, 1a	5	19200
	150, 1b	10*	19700



#### Bezuclastinib Elicited Deep Reductions Across Markers of Mast Cell Burden Within 12 Weeks

#### **Serum Tryptase**

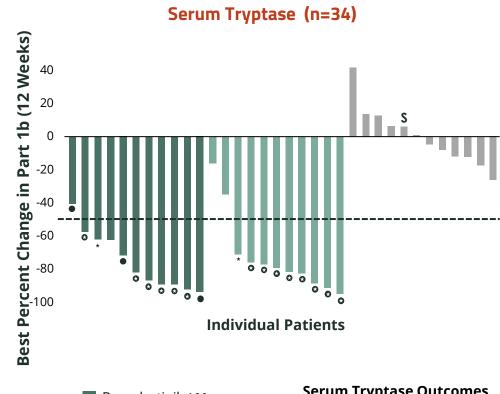
- Of patients with baseline tryptase ≥20ng/mL, nearly all patients treated with bezuclastinib achieved <20ng/mL (100% on 100 mg, 89% on 150 mg, 0% on placebo)
  - Overall, mean time to tryptase <20ng/mL was 4.5</li> weeks for patients treated with bezuclastinib
- Of patients with baseline tryptase ≥11.4ng/mL: 70% on 100mg, 90% on 150mg and 0% on placebo achieved <11.4ng/mL

#### KIT D816V VAF

Among patients with detectable KIT D816V at baseline: 100% on 100mg, 89% on 150mg and 0% on placebo achieved at least 50% reduction or undetectable KIT D816V at Week 12

#### **Bone Marrow Mast Cells (BM MC)**

- Among patients with evaluable BM: 86% on 100mg, 78% on 150mg and 40% on placebo achieved ≥50% reduction in BM MC at Week 12
  - Mean % change from baseline in BM MC at Week 12 for patients treated with bezuclastinib 100mg was -70% vs -30% on placebo



- Bezuclastinib 100 mg Bezuclastinib 150 mg Placebo
- **s** Smoldering SM

#### **Serum Tryptase Outcomes**

- Achieved <20ng/mL<sup>µ</sup>
- ★ Achieved <11.4ng/mL<sup>µ</sup>
- ◆ Achieved both

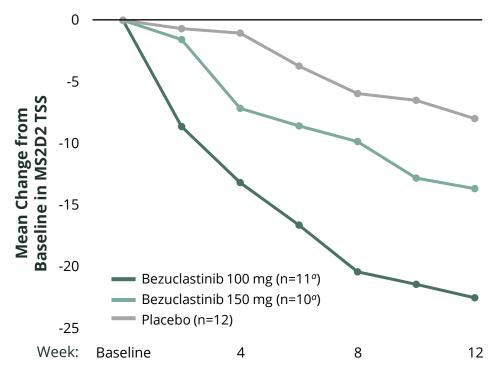
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## Patients Treated With Bezuclastinib 100 mg Reported Rapid and Significant Improvement in Symptom Severity

- 51% mean improvement in overall symptom severity (MS2D2 TSS) from baseline at Week 12 for patients receiving 100 mg bezuclastinib vs. 18% improvement for placebo patients
- Patients treated with 100 mg bezuclastinib reported a significant reduction in total symptom severity vs. placebo at Week 12 (-23.78 vs. -9.03; p=0.0003)
- 70% of patients treated with 100 mg bezuclastinib achieved ≥50% reduction in MS2D2 TSS at Week 12 vs. 8% placebo patients

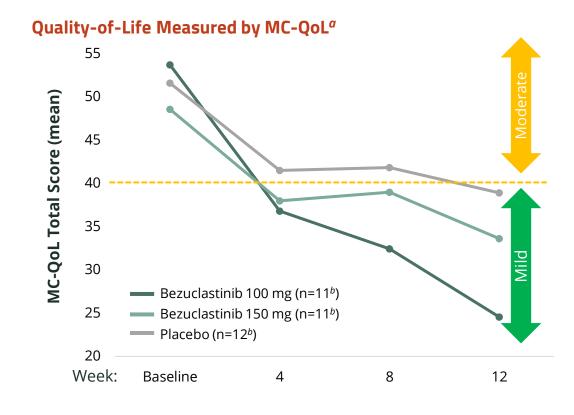
#### **Symptom Severity Measured by MS2D2**





### Patients Treated With Bezuclastinib 100 mg Reported Rapid and Significant Improvement in Quality of Life

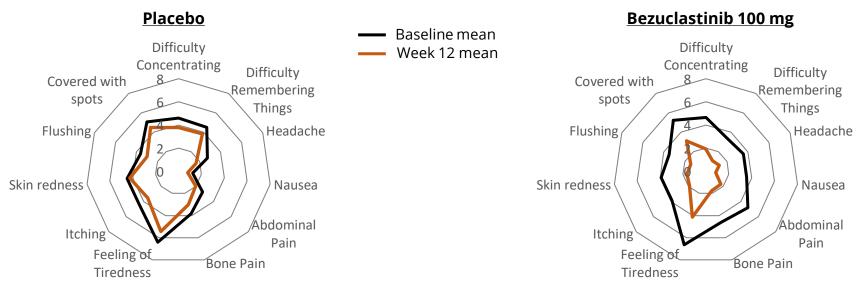
- 49% mean improvement in quality of life (MC-QoL) from baseline at Week 12 in patients treated with 100 mg bezuclastinib vs 24% for placebo
- Patients reported a significant improvement in quality of life after 12 weeks of bezuclastinib 100mg QD compared to placebo (-24.86 vs. -12.39, p=0.046)



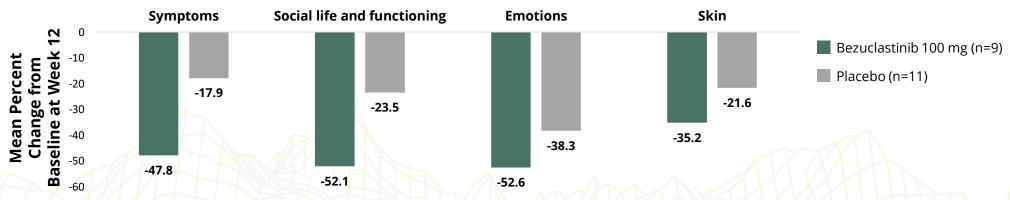


### Bezuclastinib 100mg Demonstrated Improvement Compared to Placebo Across Symptoms of SM

Greater Improvement Observed in the MS2D2 TSS With 12 Weeks of Bezuclastinib 100 mg vs Placebo



#### Health-Related QoL Across All MC-QoL<sup>a</sup> Domains Improved With 12 Weeks of Bezuclastinib 100mg vs Placebo



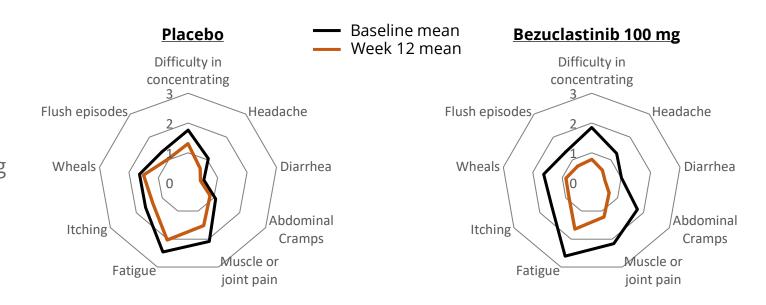


<sup>a</sup>MC-OoL is a disease-specific HROoL questionnaire with 27 items in 4 domains. Total score is linearly transformed to a 0 to 100 scale.9 9. Siebenhaar et al. Allergy 2016 71(6):869-77.

## Bezuclastinib 100 mg Demonstrated Improvement Compared to Placebo **Across Symptoms of SM**

Bezuclastinib 100 mg Improved Symptom Severity, As Measured by the Mastocytosis Activity Score<sup>a</sup> (MAS), Compared to Placebo

- 41% mean improvement from baseline in MAS at Week 12 for patients receiving 100 mg bezuclastinib vs. 21% improvement for placebo
- 50% of patients treated with 100 mg bezuclastinib achieved ≥50% improvement in MAS at week 12 vs. 0% placebo patients





### Conclusions: Totality of Results from Summit Part 1 Support 100 mg QD as the Optimal Dose of Bezuclastinib for Patients With NonAdvSM

#### In Part 1b, bezuclastinib 100mg QD resulted in:

- Safety and tolerability profile generally consistent with placebo results
  - No bleeding, cognitive impairment, or edema AEs reported
  - No dose reductions or discontinuations due to AFs
- Rapid reductions across markers of mast cell burden, supported by KIT D816V mechanism and exposure evidence from nonclinical studies
- Significant improvement versus placebo at 12 weeks in both symptom severity and quality of life, based on mean change from baseline in MS2D2 and MC-QoL total scores which corresponds to:
  - 51% reduction in symptom severity (measured by MS2D2)
  - 49% improvement in health-related quality-of-life (measured by MC-QoL)
- 70% of patients achieving ≥50% improvement in symptom severity versus 8% on placebo, as measured by MS2D2

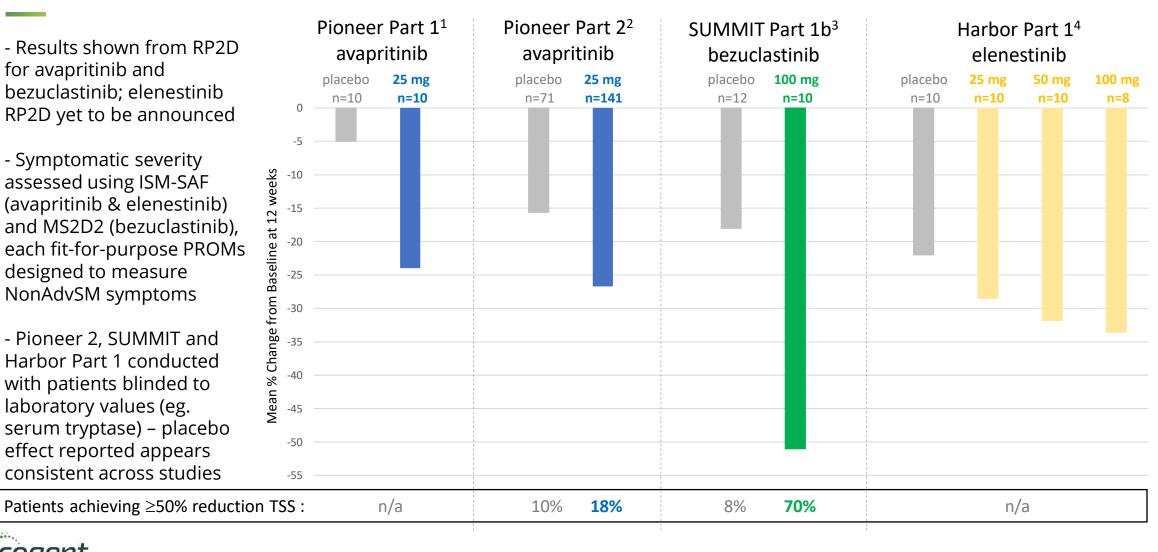
Summit Part 2 is expected to include 159 patients and is actively enrolling





### NonAdvSM Clinical Results: Symptomatic Severity Reduction – Week 12 Means

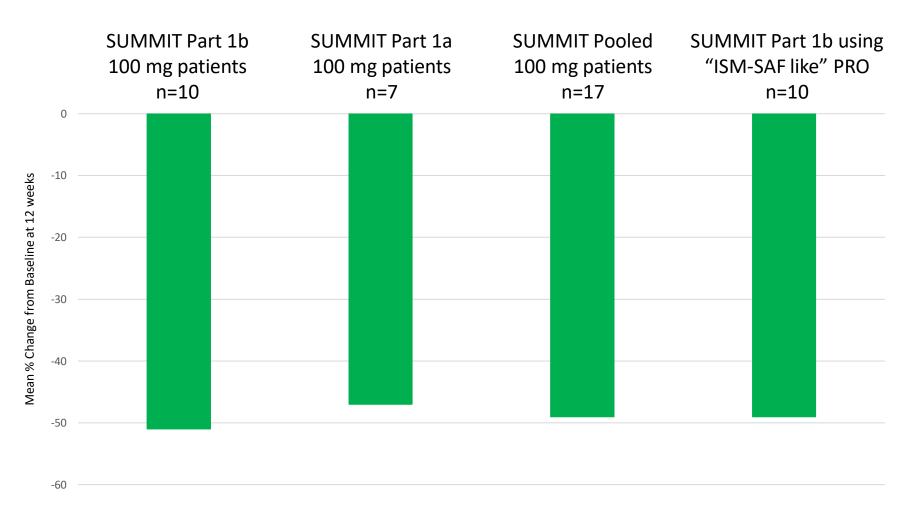
- Results shown from RP2D for avapritinib and bezuclastinib; elenestinib RP2D yet to be announced
- Symptomatic severity assessed using ISM-SAF (avapritinib & elenestinib) and MS2D2 (bezuclastinib), each fit-for-purpose PROMs designed to measure NonAdvSM symptoms
- Pioneer 2, SUMMIT and Harbor Part 1 conducted with patients blinded to laboratory values (eg. serum tryptase) – placebo effect reported appears consistent across studies





## Consistent Magnitude of Symptomatic Improvement for Patients Receiving 100 mg Bezuclastinib

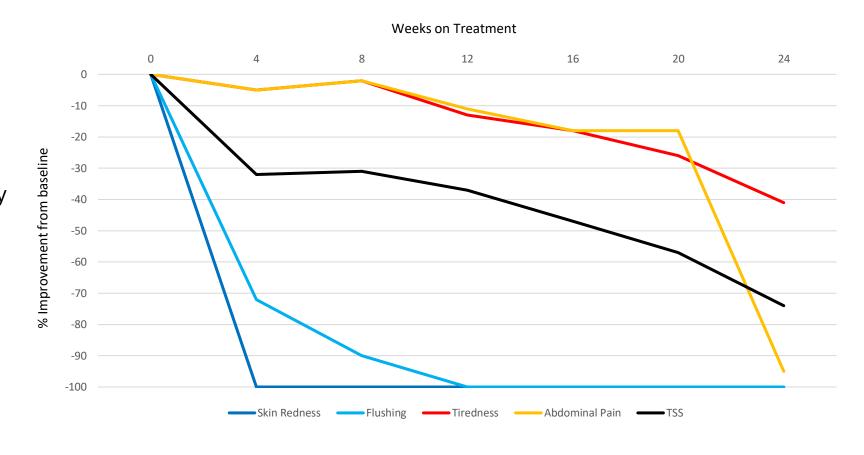
- 100 mg bezuclastinib patients reported very similar symptomatic improvement (week 12 mean change TSS) across SUMMIT 1a and 1b
- Constructing a scoring system using the same symptoms as ISM-SAF results in consistent week 12 mean change in TSS vs. MS2D2
- Improvements across domains in SUMMIT Part 1 support finding that magnitude of effect is not sensitive to item selection in TSS





#### Optimizing Dose in NonAdvSM is Critical as Adverse Events May Confound TSS

- 52yr old patient receiving 150 mg bezuclastinib in Part 1b
- Serum tryptase reduced from 74.1 ng/ml baseline to 8.6 ng/ml at week 12
- Skin symptoms resolvedquickly, but TSS at week 12 only-37% due to persistenttiredness and Gr 2 abdominalpain
- Dose reduced to 100 mg at week 20. Following dose reduction, rapid elimination of abdominal pain, improvement in tiredness and resulting TSS of -73% by week 24







## **Bezuclastinib Offers Best-in-Class KIT Inhibitor Opportunity**



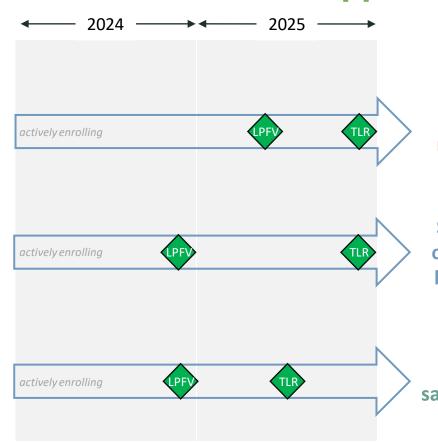
Registration-directed study in ISM bezuclastinib vs. placebo n=159, 24 week MS2D2 primary endpoint



Phase 3 study in 2nd-line GIST bezuclastinib +/- sunitinib n=388, mPFS primary endpoint



Registration-directed study in ASM bezuclastinib monotherapy n=65, ORR primary endpoint



\$1.5 billion US annual market opportunity; SUMMIT Part 1b results provide path to market leadership

\$700 million US annual market opportunity, no competition for broad 2nd-line GIST population

\$300 million US annual market opportunity; avapritinib safety/tolerability concerns provides path to market leadership

Recent \$225M fundraising provides cash runway into 2027, more than 12 months after results from all three registration trials expected; aggregate US annual sales opportunity \$2.5 billion with limited competition



