# Real-World Treatment Patterns & Clinical Outcomes in Thrombopoietin Receptor Agonist Naive Patients with Immune Thrombocytopenia Treated with Avatrombopag: Interim Results from the REAL-AVA 3.0 Study

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Poster #PS2239

# **SUMMARY**

- In this real-world (RW) study evaluating the effectiveness of avatrombopag (AVA) as the first thrombopoietin receptor agonist (TPO-RA) in primary immune thrombocytopenia (ITP), interim results demonstrate a high response rate in adult patients with low platelet counts (PCs) at AVA initiation, with all patients achieving a clinically meaningful PC threshold. Response-level PCs were maintained throughout the majority of the follow-up period, demonstrating AVA's durability
- These results are consistent with other RW studies among patients who were not TPO-RA naïve [1-3], further supporting AVA as a treatment for adult patients with primary ITP regardless of prior treatment
- All patients on concomitant medications were able to reduce or discontinue them, and few patients required rescue treatment while receiving AVA, supporting the effectiveness of AVA treatment
- Additional longitudinal follow-up is warranted to better understand the long-term durability of AVA

# **BACKGROUND**

- ITP is an autoimmune disorder characterized by low PCs and increased bleeding risk
- AVA is an orally administered TPO-RA that received FDA approval in June 2019 and EMA approval in December 2020 to treat chronic ITP in adults who had an insufficient response to prior treatments
- AVA does not bind to polyvalent cations thus no food type restrictions are required with administration, has no hepatotoxicity warning, and does not require in-office administration
- While prior RW studies support AVA's effectiveness in patients with chronic ITP [1-3], limited robust RW data exist on the use of AVA in TPO-RA naïve adult patients

# AIMS

 To describe RW treatment patterns and outcomes in TPO-RA naive adult patients with primary ITP treated with AVA in predominantly community settings within the United States (U.S.)

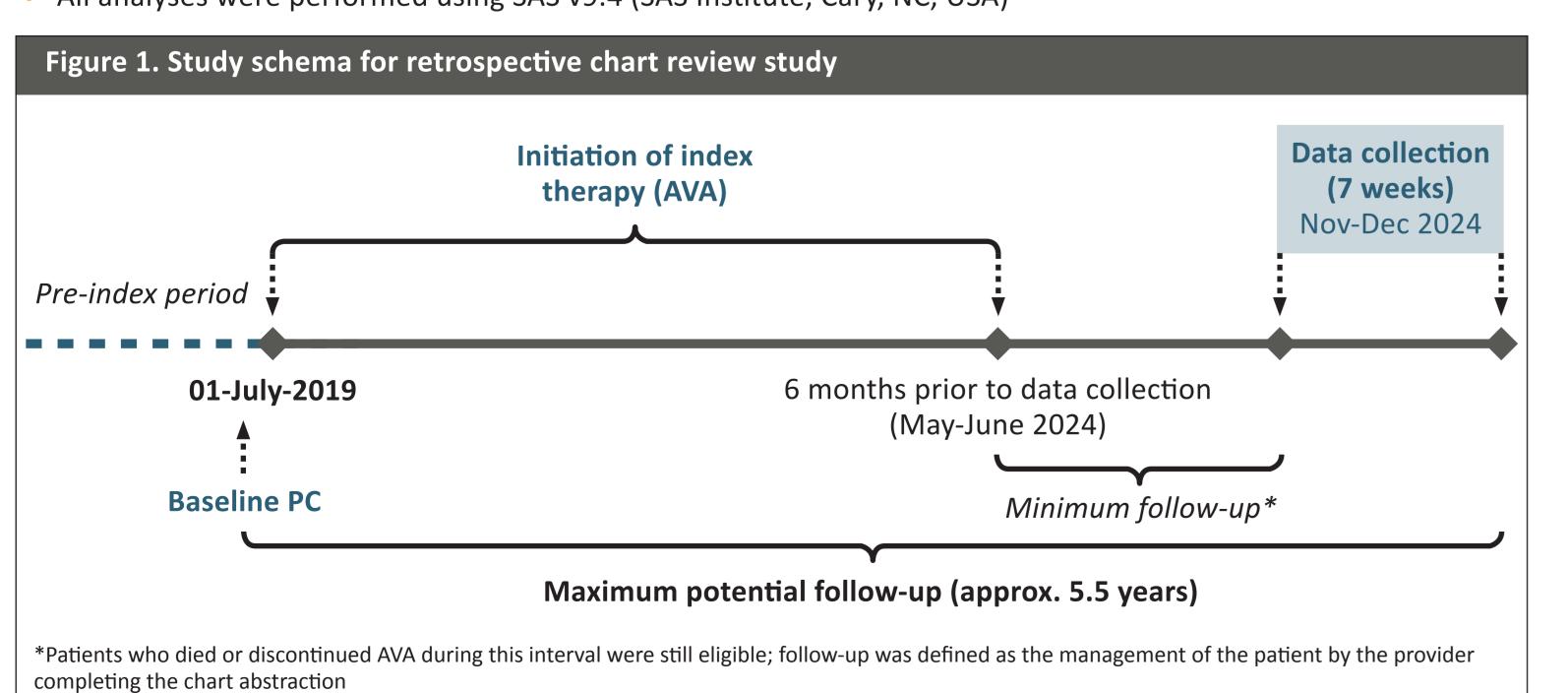
# **METHODS**

# **Patient Inclusion Criteria**

- Healthcare provider-confirmed diagnosis of primary ITP
- Initiated AVA as their first TPO-RA for primary ITP on or after 01 Jul 2019 (index)
- ≥18 years of age at time of initiation of AVA for primary ITP
- A minimum of 6 months of follow-up since initiation of AVA (patients were not required to have 6 months of AVA treatment for inclusion; patients deceased before 6 months were study eligible)

# **Patient Exclusion Criteria**

- Diagnosis of secondary ITP
- Received AVA for treatment of a non-primary ITP condition
- Participation in a clinical trial for ITP while receiving AVA
- This retrospective chart review study used the Cardinal Health Oncology Provider Extended Network (OPEN); results are presented from interim analyses (data collection: 12 Nov 2024 to 31 Dec 2024 [database lock])
- Patients were followed from AVA initiation until the end of data availability, death or study end (31 Dec 2024), whichever occurred first (Figure 1)
- Hematologists/oncologists abstracted data on patient demographics, clinical characteristics, treatment patterns, and PC response, which were analyzed descriptively; PC response results were stratified by PC closest to but prior to initiation of index treatment (baseline PC)
- Response to AVA was defined as achieving the following PC response thresholds at least once: ≥30x10<sup>9</sup>/L, ≥50x10<sup>9</sup>/L, ≥75x10<sup>9</sup>/L, or ≥100x10<sup>9</sup>/L. See Figure 2 for durability of response definition
- PCs obtained during or directly after rescue therapy (medication to facilitate a swift PC increase) were not eligible to be considered a response. PCs were not considered as a response if measured within 1-8 weeks during or after the stop of rescue therapy use, depending on the therapy administered
- All analyses were performed using SAS v9.4 (SAS Institute, Cary, NC, USA)



# **RESULTS**

Table 1. Patient Characteristics

# Demographics and clinical characteristics (Table 1)

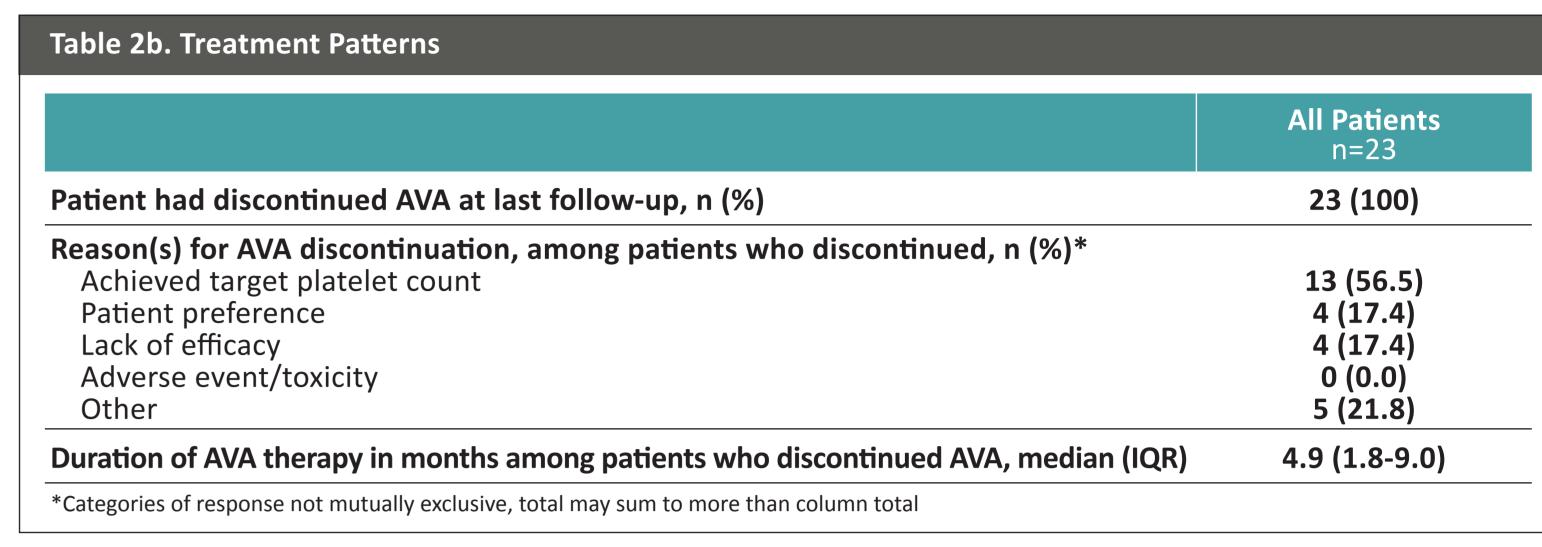
- Medical charts were abstracted by 32 physicians for 147 patients treated with AVA
- The majority of patients (99.3%) were alive at the time of data collection; median (IQR) follow-up was 8.6 (7.1-13.3) months and 124 patients (84.4%) were still receiving AVA at last follow-up
- Baseline PCs were <30x10<sup>9</sup>/L in 124 patients (84.4%) and <50x10<sup>9</sup>/L in 145 patients (98.0%)

	All Patients N=147
Age at primary ITP diagnosis in years, mean (SD)	57.3 (13.3)
Age at AVA initiation in years, mean (SD)	58.7 (13.2)
emale sex, n (%)	88 (59.9)
Race/ethnicity, n (%)*	
White	104 (70.7)
Black or African-American	24 (16.3)
Other	13 (7.5)
Unknown race	8 (5.4)
Ethnicity, n (%)	
Not Hispanic or Latino	113 (76.9)
Hispanic or Latino	27 (18.4)
Unknown ethnicity	7 (4.8)
U.S. region, n (%)	
South (AL, AR, DC, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV)	61 (41.5)
West (AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY)	38 (25.9)
Northeast (CT, DE, MA, ME, MD, NH, NJ, NY, PA, RI, VT)	26 (17.7)
Midwest (IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI)	22 (15.0)
Baseline PC, n (%)	
<30×10 <sup>9</sup> /L	124 (84.4)
$\geq 30 \times 10^9 / L$ to $< 50 \times 10^9 / L$	20 (13.6)
≥50×10 <sup>9</sup> /L	3 (2.0)
Follow-up since AVA initiation in months, median (IQR)	8.6 (7.1-13.3)
Patient was alive at data collection, n (%)	146 (99.3)
*Categories of response not mutually exclusive, total may sum to more than column total	

# **Treatment Patterns (Table 2a and 2b)**

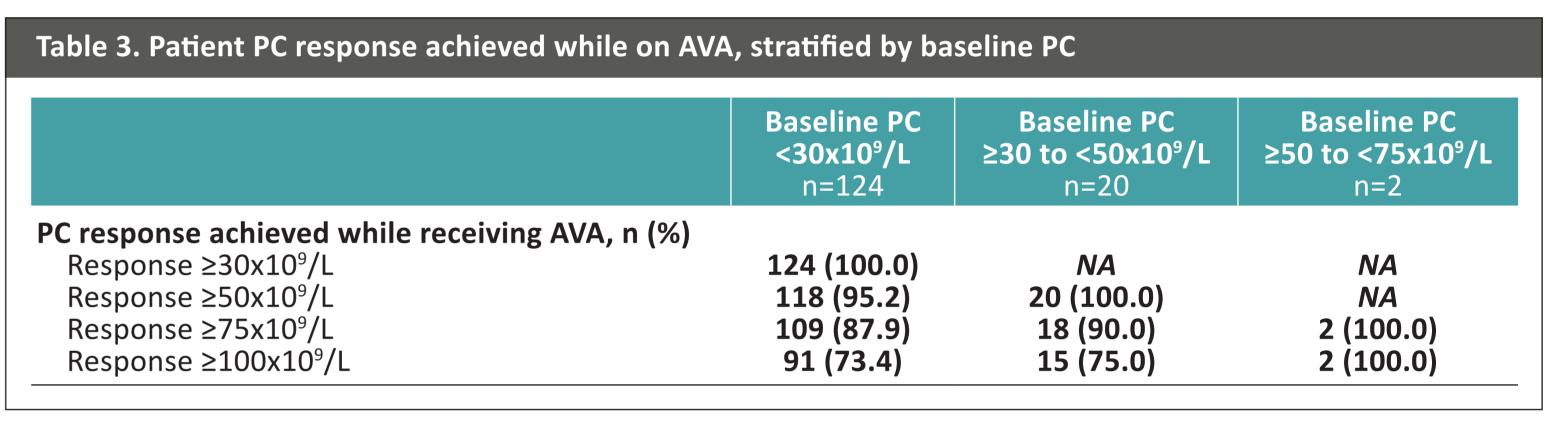
- Overall, median (IQR) duration of AVA treatment as of last follow-up was 8.1 (6.7-11.1) months
- While on AVA, 44 patients (29.9%) underwent a dose modification, with those patients reporting a median (IQR) of 1.0 (1.0-2.0) modification
- Twelve patients (8.2%) received concomitant medication while on AVA (10/12 steroids, 2/12 intravenous immunoglobulin [IVIG]), and all were able to discontinue (9/12) or reduce (3/12) their concomitant medication
- Few patients (8/147; 5.4%) received rescue therapy while on AVA, with steroids (5/147; 3.4%), IVIG (2/147; 1.4%), and platelet transfusions (1/147; 0.7%) reported
- Among patients who discontinued AVA (23/147; 15.6%), median AVA duration was 4.9 months (IQR: 1.8-9.0). Thirteen patients (13/23; 57.5%) discontinued AVA due to achieving target PC; none discontinued due to adverse events

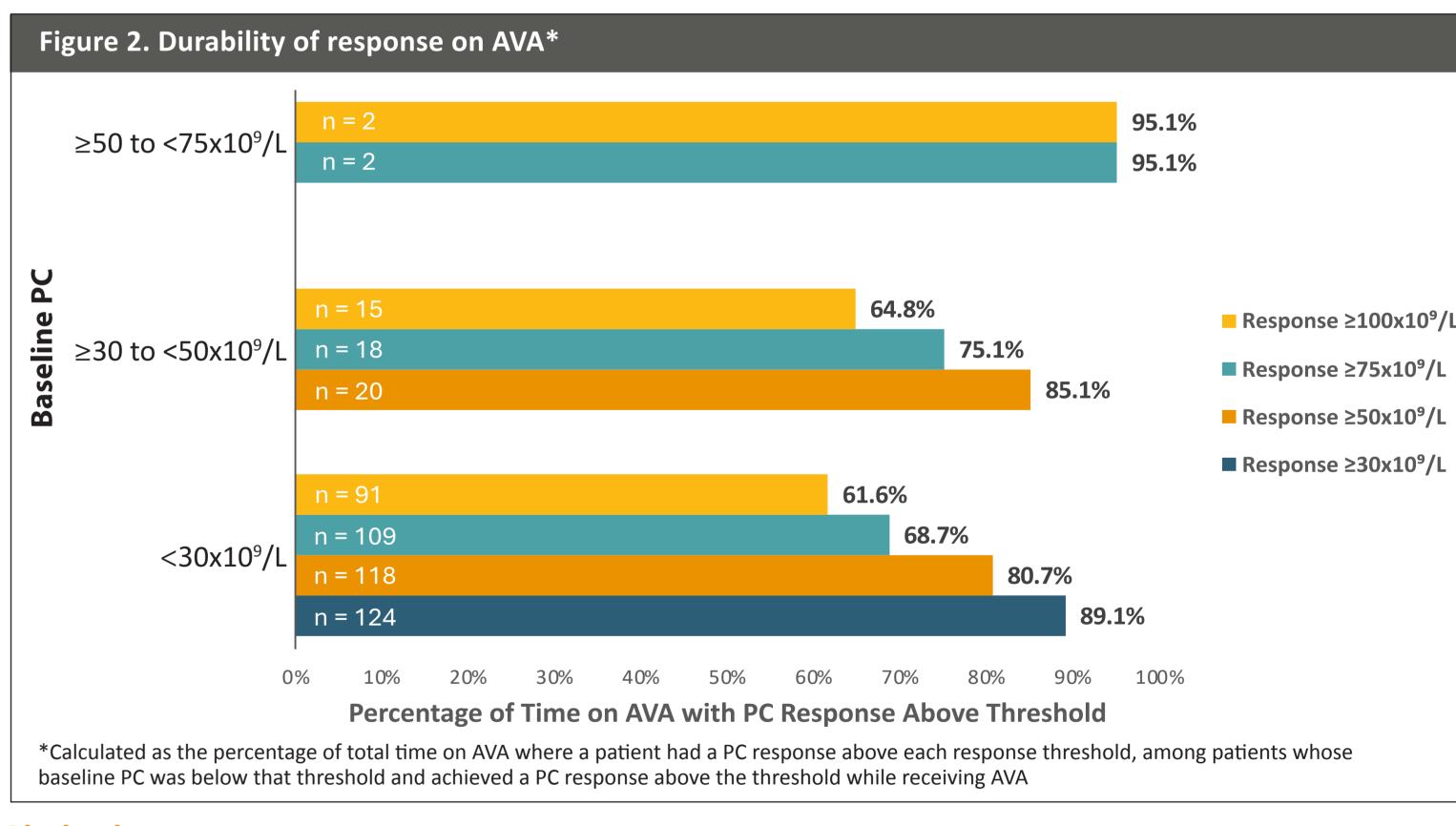
	All Patients N=147
AVA dosing at initiation, n (%) 20 mg PO, QD Other	142 (96.6) 5 (3.4)
Patient had at least one dose modification while on AVA, n (%)	44 (29.9)
Dose modifications while on AVA, n (%)*  Dose reduction  Dose increase  Treatment interruption	17 (11.6) 26 (17.7) 4 (2.7)
Concomitant medications received while on AVA, n (%) Steroids IVIG	10 (6.8) 2 (1.4)
Concomitant medication status while on AVA, among patients who received those concomitant medications, n (%) Reduced steroid Discontinued steroid Discontinued IVIG	3 (30.0) 7 (70.0) 2 (100.0)
concomitant medications, n (%) Reduced steroid Discontinued steroid	7 (70.0)
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Concomitant medications, n (%) Reduced steroid Discontinued steroid Discontinued IVIG  Patient received rescue therapy while on AVA, n (%)  Rescue therapy received while on AVA, n (%) Steroid IVIG	7 (70.0) 2 (100.0) 8 (5.4) 5 (3.4) 2 (1.4)



#### **Response Outcomes (Table 3 and Figure 2)**

- For patients with baseline PC <30x10<sup>9</sup>/L (n=124), all patients (100.0%) achieved a response ≥30x10<sup>9</sup>/L on AVA, and 118 (95.2%), 109 (87.9%), and 91 (73.4%) achieved a PC response ≥50x10<sup>9</sup>/L, ≥75x10<sup>9</sup>/L, and ≥100x10<sup>9</sup>/L on AVA, respectively (**Table 3**)
- For patients with baseline PC levels <30x10<sup>9</sup>/L who achieved a response ≥30x10<sup>9</sup>/L on AVA (n=124), durability of response was 89.1% (SD: 11.7%; **Figure 2**)





# Limitations

- These results represent only patients abstracted by hematologists/oncologists included in the survey, which may not be representative of the broader patient population with primary ITP who receive AVA as 1st TPO-RA. Additionally, events occurring outside of the treating physician's practice or that were not captured in the medical record may have been missing
- PCs were collected as part of routine medical care and not at standardized time intervals, which may lead to misestimation of response duration and durability
- As six months of follow-up was required, except in cases when patients died within that time to mitigate immortal time and survivorship bias, patients lost to follow-up may differ from those who continued their care at the same practice for 6 months or longer

# References

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- 3. Al-Samkari, H., et al., Adults with immune thrombocytopenia who switched to avatrombopag following prior treatment with eltrombopag or romiplostim: A multicentre US study. Br J Haematol, 2022. **197**(3): p. 359-366.

# **Disclosures**

Sarah Lucht, Emily Bland, Prathamesh Pathak, and Bruce Feinberg are employees of Cardinal Health. Bruce Feinberg has stock ownership in Cardinal Health. Abiola Oladapo, Scott Kolodny, and Michael Vredenburg are employees of Sobi Inc. This research is funded by Sobi Inc.

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