

Effectiveness and safety of avatrombopag for treatment of immune thrombocytopenia in older patients and those with comorbidities or prior TPO-RA exposure: Interim results from the phase 4 ADOPT study

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CONCLUSIONS

- In this interim analysis of real-world data from ADOPT, avatrombopag for the treatment of ITP was effective across patients aged ≥65 years and those with comorbidities or prior TPO-RA exposure
- No new safety concerns have been identified to date
- Understanding avatrombopag's profile among these patient subgroups that may have increased TEE risk will provide valuable insights for optimizing treatment strategies in diverse real-world populations, which often differ from those enrolled in clinical trials

BACKGROUND

- Avatrombopag is a thrombopoietin receptor agonist (TPO-RA) approved for the treatment of chronic immune thrombocytopenia (ITP) in adults with insufficient response to a previous treatment¹
- The efficacy and safety of avatrombopag have been established in phase 3 clinical trials^{2,3}; however, data on real-world usage are limited, particularly among patient subpopulations that may have increased risk for thromboembolic events (TEEs)
- ADOPT (NCT04943042) is an ongoing phase 4, multicenter, observational study designed to examine real-world outcomes with avatrombopag in clinical practice

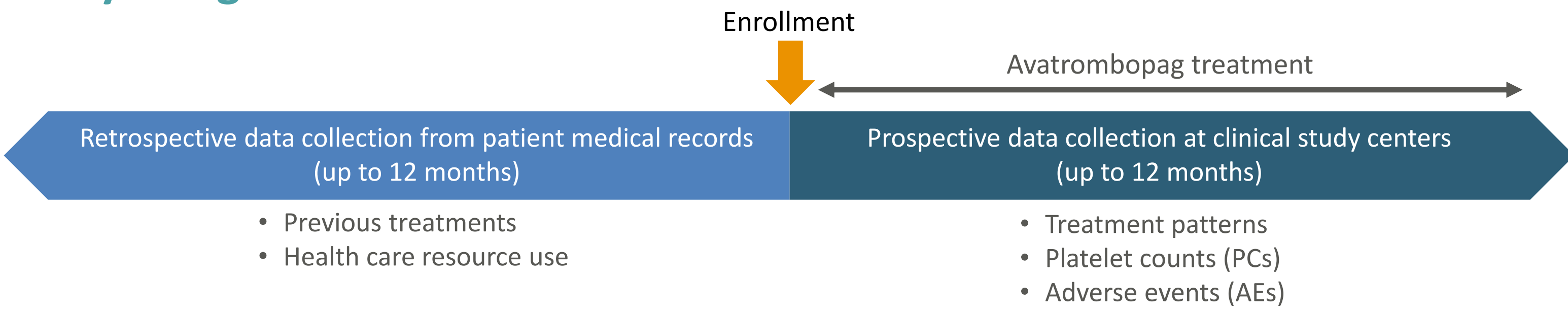
AIMS

- To examine interim efficacy and safety results from ADOPT among patients aged ≥65 years and those with comorbidities or prior TPO-RA exposure

METHODS

- Setting:** 60 clinical study centers across 9 European countries
- Patients:** Adults (aged ≥18 years) with an established ITP diagnosis who were initiating or already being treated with avatrombopag
 - Patients with ITP secondary to other conditions were excluded
- Statistical analysis:** Results were analyzed descriptively by subgroups, including patients aged ≥65 years, those with comorbidities considered to be TEE risk factors, and those with prior TPO-RA exposure

Study design



Patient subgroups



^aIncludes obesity/overweight, cardiovascular disease, chronic renal disease, smoking/alcohol use, oral contraceptive use, personal/family history of TEE, recent major surgery, and cancer.

Study endpoints

Primary endpoint: Cumulative weeks with PC ≥30×10⁹/L

Key secondary endpoints

- Cumulative weeks with PC ≥50×10⁹/L
- PC ≥30×10⁹/L for ≥8 consecutive weeks
- PC ≥50×10⁹/L for ≥8 consecutive weeks
- Rescue medication use

Safety endpoints

- Serious AEs (SAEs)
- AEs of special interest (AESIs); thromboembolic events, bleeding events of WHO grade ≥3)
- AEs leading to avatrombopag discontinuation

RESULTS

- As of November 12, 2024, 200 patients were enrolled and 51 (25.5%) had completed the study overall; the patient distribution across subgroups is shown in **Figure 1**
- The majority of patients had been previously treated with a TPO-RA (**Figure 2**)
- The median cumulative number of weeks with PC ≥30×10⁹/L or PC ≥50×10⁹/L was high across groups (**Figure 3**), and all patients with ≥8 weeks of follow-up data had ≥8 consecutive weeks with PC ≥50×10⁹/L
- Use of rescue therapy was ≤20% in all groups (**Figure 4**)
- The prevalences of AEs, SAEs, and AESIs were comparable across groups (**Table 1**); reported AESIs (6.7%–8.0% of patients in subgroups) included atheroembolism, deep vein thrombosis, pulmonary embolism, and cerebral venous thrombosis
- Three deaths were reported, none of which were determined to be avatrombopag related (**Table 1**)

Figure 1: Patient disposition as of November 12, 2024

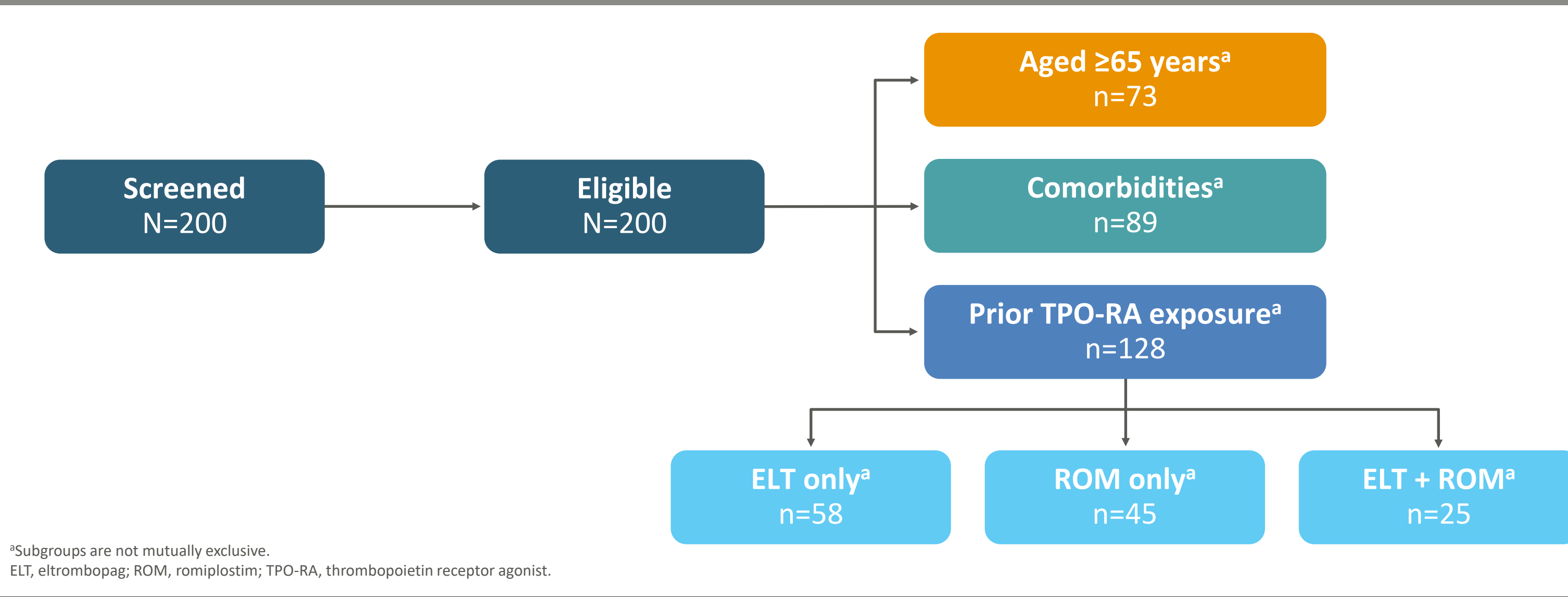


Figure 2: Baseline patient demographic and clinical characteristics

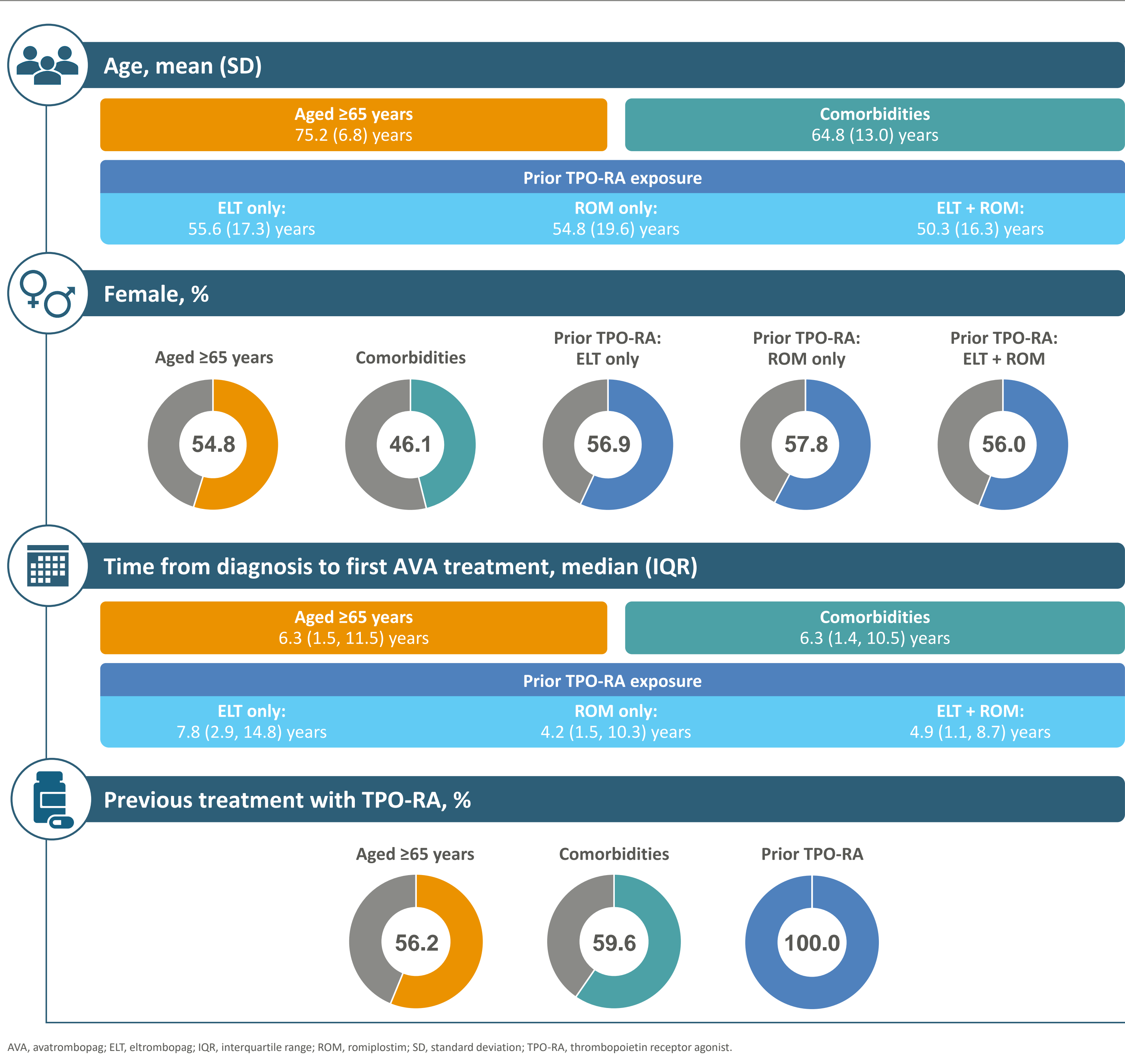


Figure 3: Interim effectiveness outcomes among patients with 12 months of follow-up

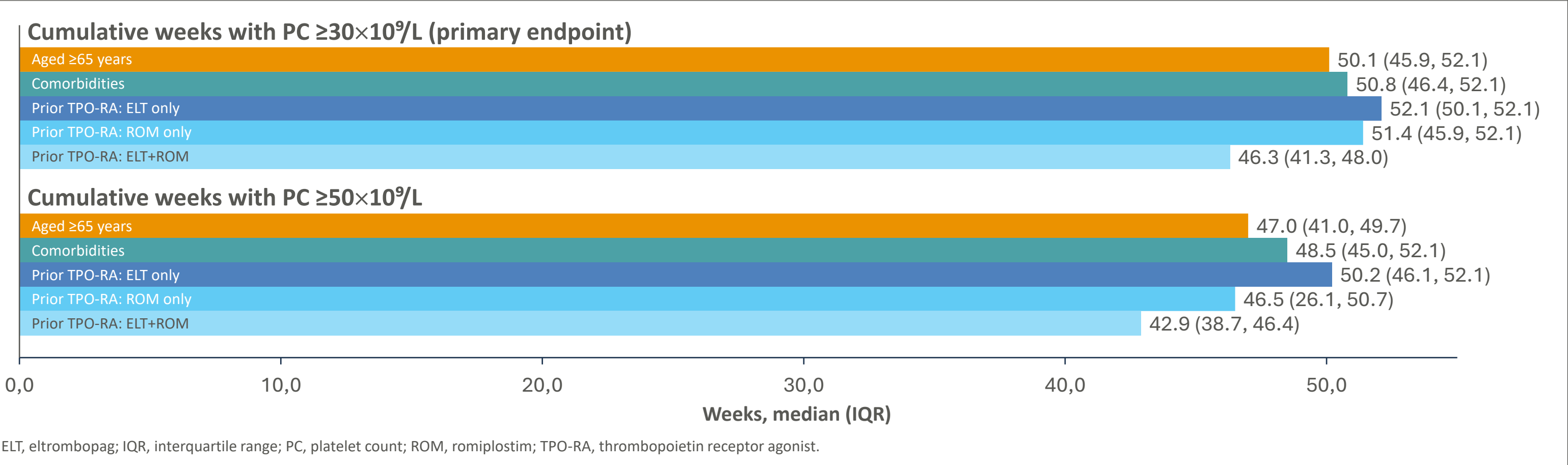


Figure 4: Interim treatment characteristics from enrollment to 12 months

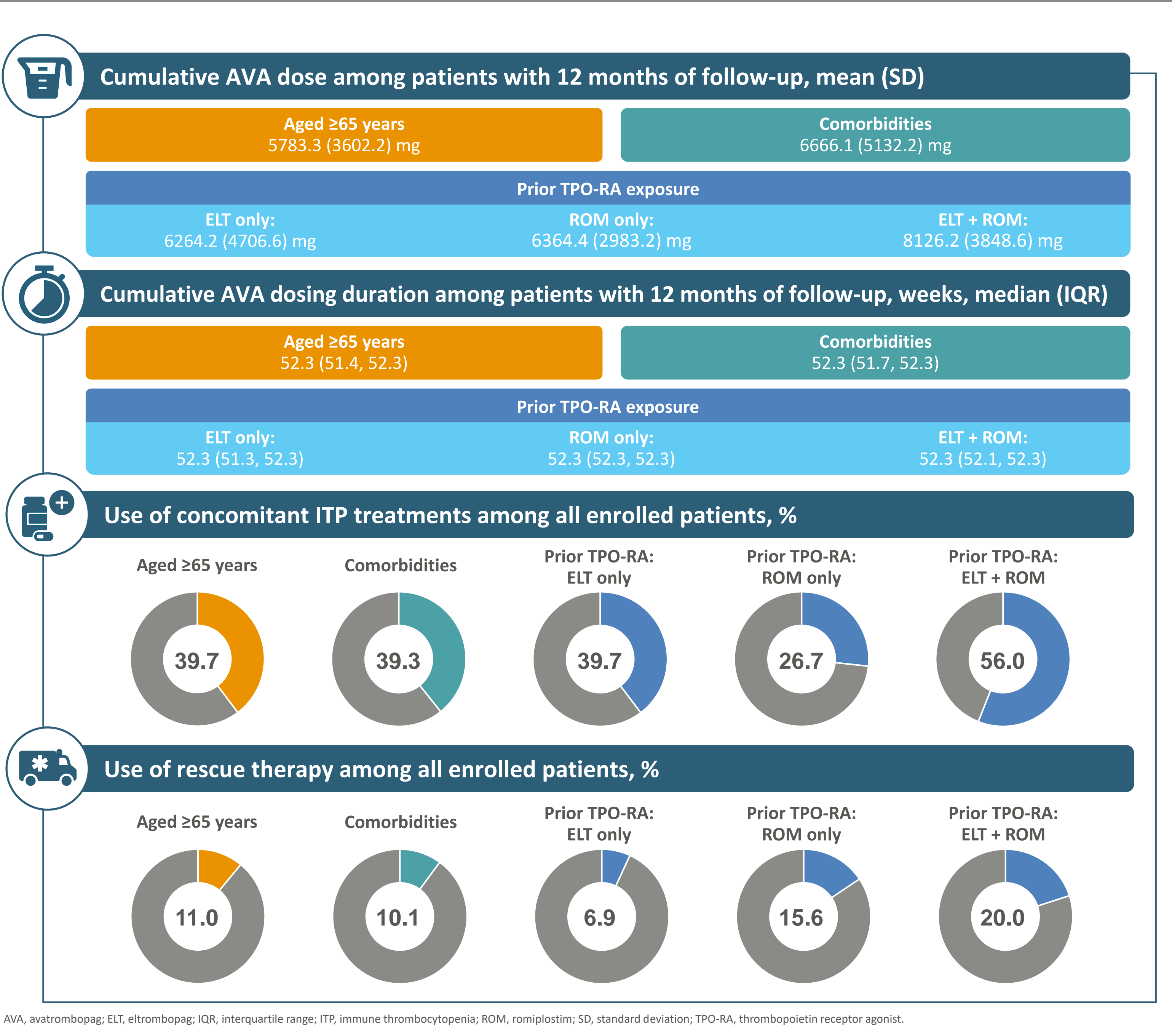


Table 1: Interim safety outcomes

| | Total (N=200) | Aged ≥65 years (n=73) | Comorbidities ^a (n=89) | Prior TPO-RA exposure (n=128) | | |
|---|---------------|-----------------------|-----------------------------------|-------------------------------|----------------------|----------------------|
| | | | | ELT only (n=58) | ROM only (n=45) | ELT+ROM (n=25) |
| Patients with AEs, n (%) ^b | 34 (17.0) | 17 (23.3) | 18 (20.2) | 11 (19.0) | 8 (17.8) | 4 (16.0) |
| Treatment-related AEs | 11 (5.5) | 6 (8.2) | 4 (4.5) | 3 (5.2) | 2 (4.4) | 1 (4.0) |
| AEs resulting in discontinuation | 3 (1.5) | 2 (2.7) | 0 | 1 (1.7) | 1 (2.2) | 0 |
| Patients with SAEs, n (%) ^b | 22 (11.0) | 10 (13.7) | 15 (16.9) | 6 (10.3) | 7 (15.6) | 4 (16.0) |
| Deaths ^c | 3 (1.5) | 1 (1.4) | 2 (2.2) | 1 (1.7) | 0 | 1 (4.0) |
| Patients with AESIs, n (%) ^b | 10 (5.0) | 5 (6.8) ^d | 6 (6.7) ^e | 4 (6.9) ^f | 3 (6.7) ^g | 2 (8.0) ^h |

AE, adverse event; AESI, AE of special interest (thromboembolic events, bleeding events of WHO grade ≥3); ELT, eltrombopag; ROM, romiplostim; SAE, serious AE; TEE, thromboembolic event; TPO-RA, thrombopoietin receptor agonist.
^aComorbidities considered to be risk factors for TEEs, including obesity/overweight, cardiovascular disease, chronic renal disease, smoking/alcohol use, oral contraceptive use, personal/family history of TEE, recent major surgery, or cancer. ^bBecause patient subgroups are not mutually exclusive, a single reported AE could appear across multiple subgroups. ^cNo deaths were determined to be avatrombopag-related. ^dIncludes 1 report each of pulmonary embolism, deep vein thrombosis, embolism, and cerebral venous thrombosis and 1 uncodable AE. ^eIncludes 1 report each of atheroembolism, deep vein thrombosis, embolism, thrombosis, pulmonary embolism, and cerebral venous thrombosis and 1 uncodable AE. ^fIncludes 1 report each of atheroembolism, deep vein thrombosis, and pulmonary embolism and 2 uncodable AEs. ^gIncludes 1 report of cerebral venous thrombosis and 1 uncodable AE.

References

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2. Jancsik W, et al. *Br J Haematol*. 2018;183:479-490.
3. Mei H, et al. *Rev Pract Thromb Haemost*. 2023;7:102158.

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