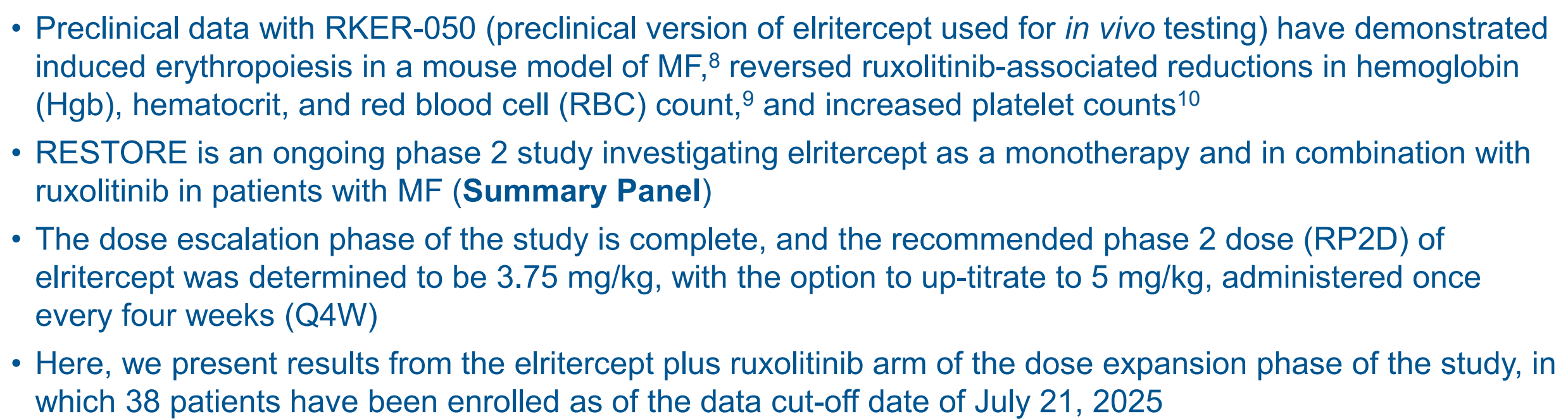


MPN-832

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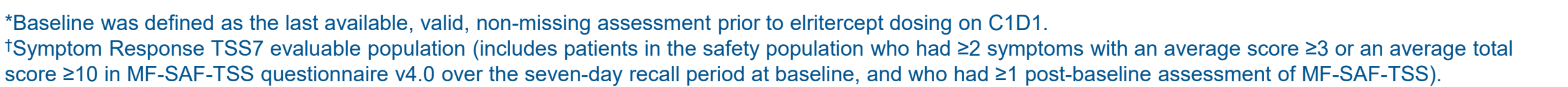
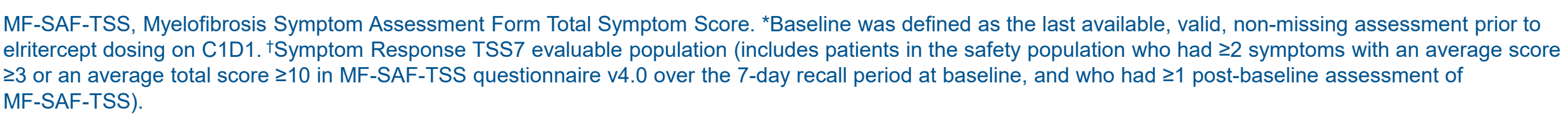
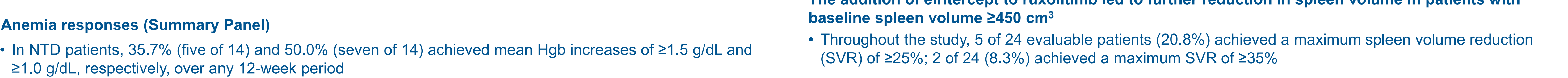
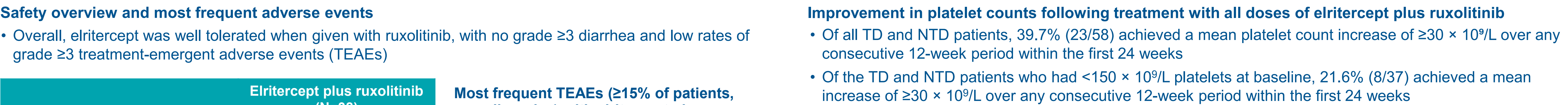
- Dysregulated signaling of transforming growth factor β (TGF- β) superfamily ligands contributes to bone marrow dysfunction and bone marrow fibrosis^{1,2}
- Anemia affects 35–38% of patients with myelofibrosis (MF) at the time of diagnosis,³ and over 80% beyond one year of diagnosis³⁻⁵
 - Anemia in MF is associated with fatigue, transfusion dependence, reduced quality of life, and reduced survival³
- Janus kinase (JAK) inhibitors, such as ruxolitinib, are effective in reducing spleen size and symptoms in patients with MF, but are associated with anemia and thrombocytopenia⁶
 - This can limit their use, leading to suboptimal dosing and reduced clinical benefit
- There is a need for therapies that rebalance the bone marrow microenvironment and restore functional hematopoiesis, in addition to reducing spleen size and symptoms
- Elriterccept is a modified activin receptor type IIA/IgG1 fusion protein that selectively binds and potently blocks downstream signaling of the TGF- β superfamily ligands activin A and B and growth differentiation factors 8 and 11⁷



Patients and BL characteristics

- Patients have been enrolled in seven countries across Europe, Asia, Australia, and South America
- MF diagnosis was a mix of primary, post-essential thrombocythosis (ET), and post-polycythemia vera (PV)
- Patients had severe anemia; 60.5% were transfusion-dependent (TD)
- Notable splenomegaly was observed despite ongoing ruxolitinib treatment, with >70% of patients having spleen volume ≥ 450 cm³
- At the time of data cut-off, study treatment was ongoing in 28/38 patients (73.7%); median treatment duration was 47.4 weeks

*Received ≥ 3 RBC units/12 weeks; †received 0–2 RBC units/12 weeks.
C1D1, cycle 1 Day 1; DIPSS, Dynamic International Prognostic Scoring System; NTD, non-transfusion dependent.



Changes in JAK2 V617F VAF following treatment with elritercept plus ruxolitinib



- Of 35 evaluable patients at baseline, 10 had a *CALR* mutation, two had a *MPL* mutation, and 22 had a *JAK2* *V617F* mutation
 - Median *JAK2* *V617F* VAF was 47% (range, 1–91%)
 - Twenty-one patients had a *JAK2* *V617F* mutation VAF $\geq 5\%$
- *JAK2* *V617F* VAF reduction of $\geq 50\%$ was observed in three of 19 evaluable patients at Week 24, with sustained reductions observed at Week 52
 - One of the three patients responded to treatment, demonstrating clinically meaningful changes in Hgb, MF-SAF-TSS, platelet counts, and spleen volume
- For the majority of patients with available longitudinal data, the VAF remained largely unchanged at Weeks 24 and 52

- Elirercept at the RP2D, in combination with ruxolitinib, given to patients with MF with poorer prognoses (89.5% classified as DIPSS intermediate-2 or high risk), demonstrated:
 - Robust efficacy, including anemia improvement, reduction of RBC transfusions, and increasing Hgb and platelets
 - Further reduction in spleen volume and MF-SAF-TSS in patients already maintained on a stable dose of ruxolitinib
 - An acceptable and manageable safety profile with mild (grade 1–2), transient diarrhea, and low rates of drug-related grade ≥3 TEAEs
- These results suggest that elirercept has potential effects on clonal architecture and hematopoietic restoration, consistent with its proposed mechanism of action

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