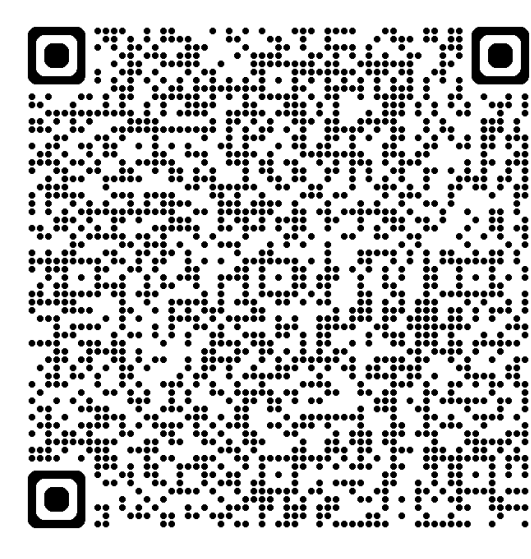


Real-World Use of Pacritinib in Myelofibrosis: Results from the TriNetX Analysis on Patient Characteristics, Treatment Patterns, and Outcomes in Patients with Platelets $\geq 50 \times 10^9/L$ at Initiation (TRIPAC)

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CONCLUSIONS

- In this real-world retrospective analysis of patients with myelofibrosis (MF) and platelet (PLT) counts $\geq 50 \times 10^9/L$ at index, treatment with pacritinib (PAC) resulted in an improvement of hematologic parameters in a notable proportion of patients at 6 months.
- These findings provide real-world evidence supporting PAC use in patients with MF and $PLT \geq 50 \times 10^9/L$ at initiation.

BACKGROUND

- Pacritinib, a JAK1-sparing inhibitor of JAK2, IRAK1, and ACVR1, received accelerated approval for use in patients with MF who have severe thrombocytopenia ($PLT < 50 \times 10^9/L$), where it has demonstrated spleen volume reduction and symptom improvement^{1,2}
- In Phase 3 clinical trials, PAC reduced splenomegaly and disease symptoms in patients with MF across a broad range of baseline PLT counts, including patients with $PLT \geq 50 \times 10^9/L$ ^{1,3}
- Cytopenias in MF limit the tolerability, dose intensity, and durability of other JAK inhibitors, leaving a high unmet need across the cytopenic MF spectrum, including patients with $PLT \geq 50 \times 10^9/L$
- Real-world evidence describing PAC treatment patterns and hematologic and survival outcomes in patients with $PLT \geq 50 \times 10^9/L$ at initiation remains limited

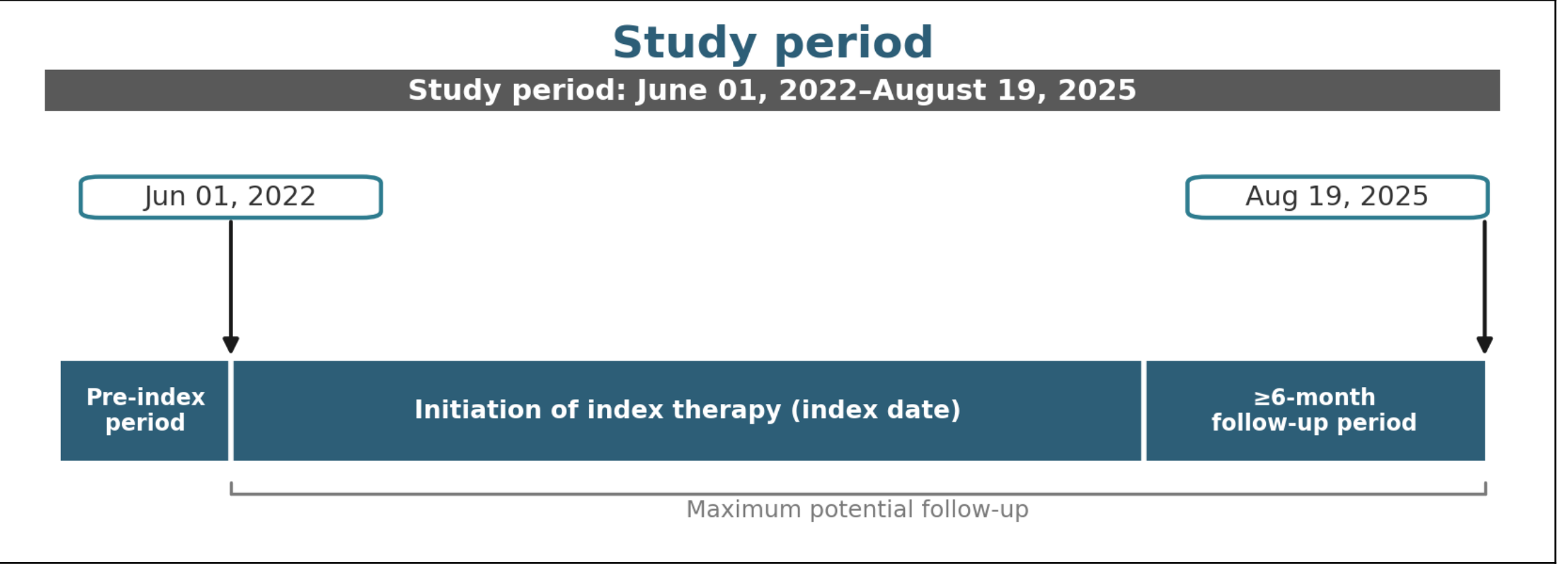
AIM

- To describe real-world patient characteristics, treatment patterns, hematologic outcomes (PLT and hemoglobin [Hb]), and overall survival (OS) in patients with MF and $PLT \geq 50 \times 10^9/L$ at index who initiated PAC

METHODS

- Retrospective analysis of de-identified electronic health record (EHR) data from the TriNetX US Dataworks network
- Included adults with an MF diagnosis and $PLT \geq 50 \times 10^9/L$ at PAC initiation (index) on or after June 1, 2022
- Patients were required to have ≥ 2 PAC prescriptions and ≥ 6 months of follow-up unless death occurred earlier, but were not required to remain on PAC for the full 6 months (Figure 1)

Figure 1. Study design



- Within this population, a subgroup with concurrent anemia ($PLT \geq 50 \times 10^9/L$ and $Hb < 10$ g/dL at index) was also examined
- Index PLT and Hb were defined as the most recent laboratory value prior to the index date, within 30 days prior to or on the index date
- Outcomes included changes in PLT and Hb, and OS, from index; for Day 90 and Day 180 assessments, labs from the corresponding post-index window were used, selecting the value closest to, but prior to, the timepoint when multiple were available; outcomes were observed among patients who continued to be prescribed PAC
- Hematologic change was categorized as improved, stable, or worsened by comparing the category at index with the category at the specified timepoint (using the laboratory value closest to that timepoint), using the following strata — Hb (g/dL): < 6.5 , $6.5 - < 8.0$, $8.0 - < 10.0$, ≥ 10 ; PLT ($\times 10^9/L$): < 50 , $50 - < 100$, $100 - < 150$, ≥ 150

- Categorical Hb response was assessed in patients with concurrent anemia ($Hb < 10$ g/dL), and categorical platelet response in patients with index $PLT 50 - 149 \times 10^9/L$; patients with $Hb \geq 10$ g/dL or $PLT \geq 150 \times 10^9/L$ at index were excluded from the respective categorical analyses
- OS was estimated by the Kaplan-Meier method from the second PAC prescription, required of all patients, to avoid immortal time bias

RESULTS

Patient characteristics and treatment patterns

- Patients had received a median of 2 (IQR: 1–2) prior lines of MF-directed therapy
- Of 69 patients with $PLT \geq 50 \times 10^9/L$, PAC was used first-line in 30.4% (21/69) and second-line in 52.2% (36/69), third-line in 13.0% (9/69), and fourth-line in 4.3% (3/69)
- Among the 48 patients who received PAC second-line or later, 95.8% (46/48) had received ruxolitinib, 16.7% (8/48) fedratinib, and 8.3% (4/48) momelotinib (categories not mutually exclusive)
- At index, median PLT was $123 \times 10^9/L$ (IQR: 71, 201) and Hb was 9.3 g/dL (IQR: 7.9, 10.7); 62.9% (39/62) had $Hb < 10$ g/dL

Table 1. Patient characteristics, treatment patterns, and hematologic values at index

Characteristic	PLT $\geq 50 \times 10^9/L$ (N=69)	PLT $\geq 50 \times 10^9/L$ & Hb < 10 g/dL (N=39)
Age at index, years — median (Q1– Q3)	72 (68–77)	72 (66–78)
Male, n (%)	34 (49.3)	20 (51.3)
Follow-up, months — median (Q1–Q3)	15.4 (10.1–23.7)	14.8 (9.5–20.3)
Primary MF, n (%)	33 (47.8)	18 (46.2)
Prior lines of MF therapy — median (Q1–Q3)	2 (1–2)	2 (1–2)
PAC as 1st JAK inhibitor, n (%)	21 (30.4)	9 (23.1)
Prior ruxolitinib (of those with prior JAKi), n (%)	46/48 (95.8)	29/30 (96.7)
PLT, $\times 10^9/L$ — median (Q1–Q3)	123 (71–201)	123 (77–226)
PLT $< 150 \times 10^9/L$, n (%)	43 (62.3)	26 (66.7)
Hb, g/dL — median (Q1–Q3)	9.3 (7.9–10.7)	8.1 (7.4–9.3)
Hb < 10 g/dL, n (%)	39 (62.9)	39 (100)
Hb < 8 g/dL, n(%)	16 (25.8)	16 (41.0)
Hb < 6.5 g/dL, n(%)	2 (3.2)	2 (5.1)

Hematologic changes at Day 90 and Day 180

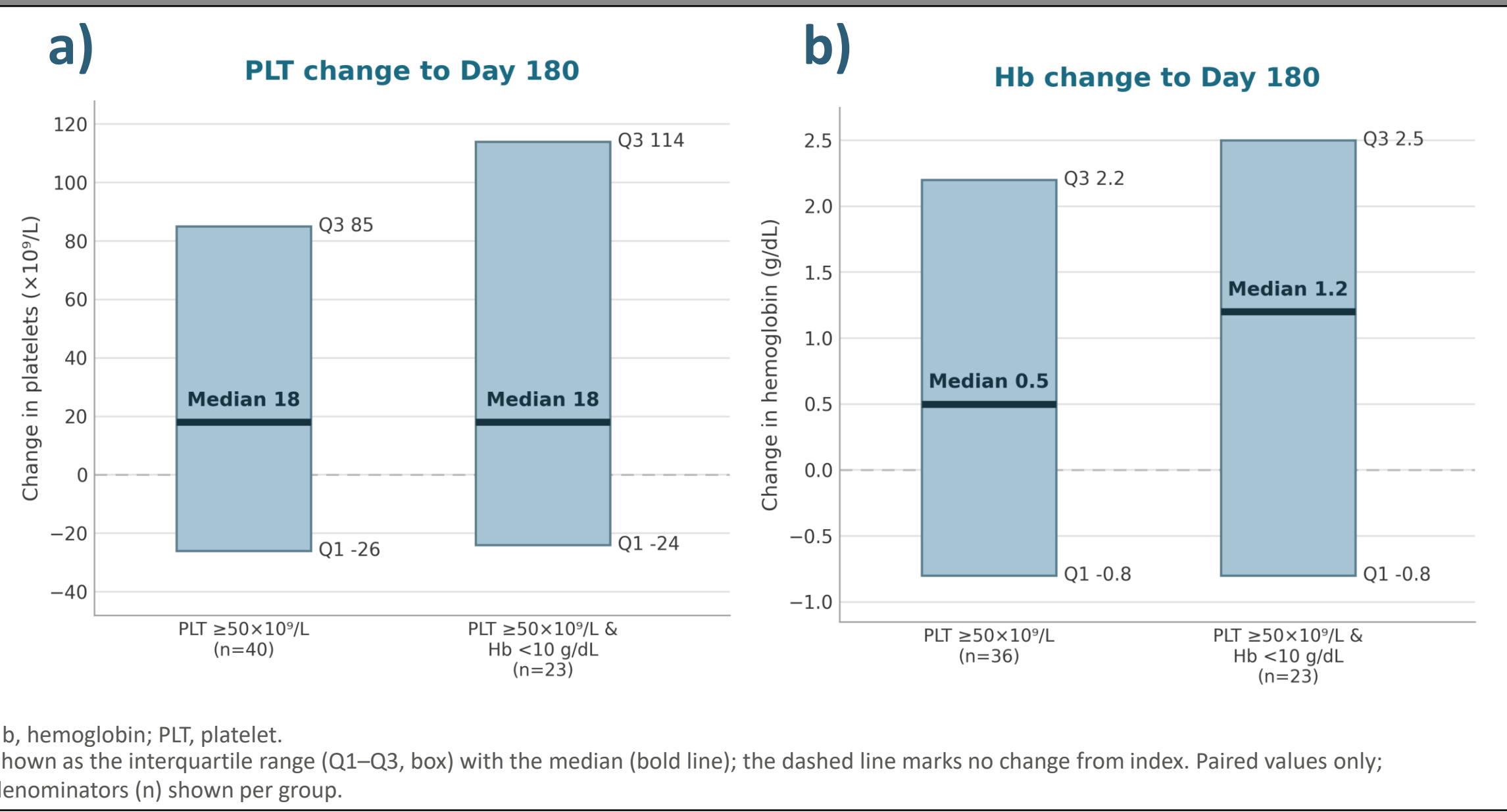
At Day 90:

- Among patients with values at index and Day 90, median PLT change was $0 \times 10^9/L$ (IQR: -37 , $+60$; $n=42$), with 25% achieving increases $\geq 60 \times 10^9/L$
- Median Hb change was $+0.4$ g/dL (IQR: -0.7 , $+1.1$; $n=38$), with 25% achieving increases ≥ 1.1 g/dL
- Among patients with $PLT \geq 50 \times 10^9/L$ and $Hb < 10$ g/dL at index, median Hb increased by 0.3 g/dL at Day 90 (IQR: -0.7 , $+1.3$; $n=24$), with 25% achieving increases ≥ 1.3 g/dL

At Day 180 (Figure 2a and 2b):

- Among patients with values at index and Day 180, median PLT change was $+18 \times 10^9/L$ (IQR: -26.0 , $+85.0$; $n=40$), with 25% achieving increases $\geq 85 \times 10^9/L$
- Median Hb change was $+0.5$ g/dL (IQR: -0.8 , $+2.2$; $n=36$), with 25% achieving increases ≥ 2.2 g/dL
- Among patients with $PLT \geq 50 \times 10^9/L$ and $Hb < 10$ g/dL at index, median Hb increased by 1.2 g/dL at Day 180 (IQR: -0.8 , $+2.5$; $n=23$), with 25% achieving increases ≥ 2.5 g/dL

Figure 2. Change from index to Day 180 in platelets (left) and hemoglobin (right)



Platelet response category in patients with thrombocytopenia

- At Day 90, 70% (19/27) of patients with thrombocytopenia (index $PLT 50 - 149 \times 10^9/L$) had improved or stable platelet category (40.7% [11/27] improved, 29.6% [8/27] stable) (Figure 3a)
- At Day 180, 79% (22/28) had improved or stable platelet category (46.4% [13/28] improved, 32.1% [9/28] stable) (Figure 3b)
- Among patients with $PLT \geq 150 \times 10^9/L$ at index, 86.7% (13/15) remained $\geq 150 \times 10^9/L$ at Day 90 and 58.3% (7/12) at Day 180 (91.7% [11/12] remained $\geq 100 \times 10^9/L$ at Day 180)

Figure 3. PLT response category at (a) Day 90 and (b) Day 180 in patients with thrombocytopenia

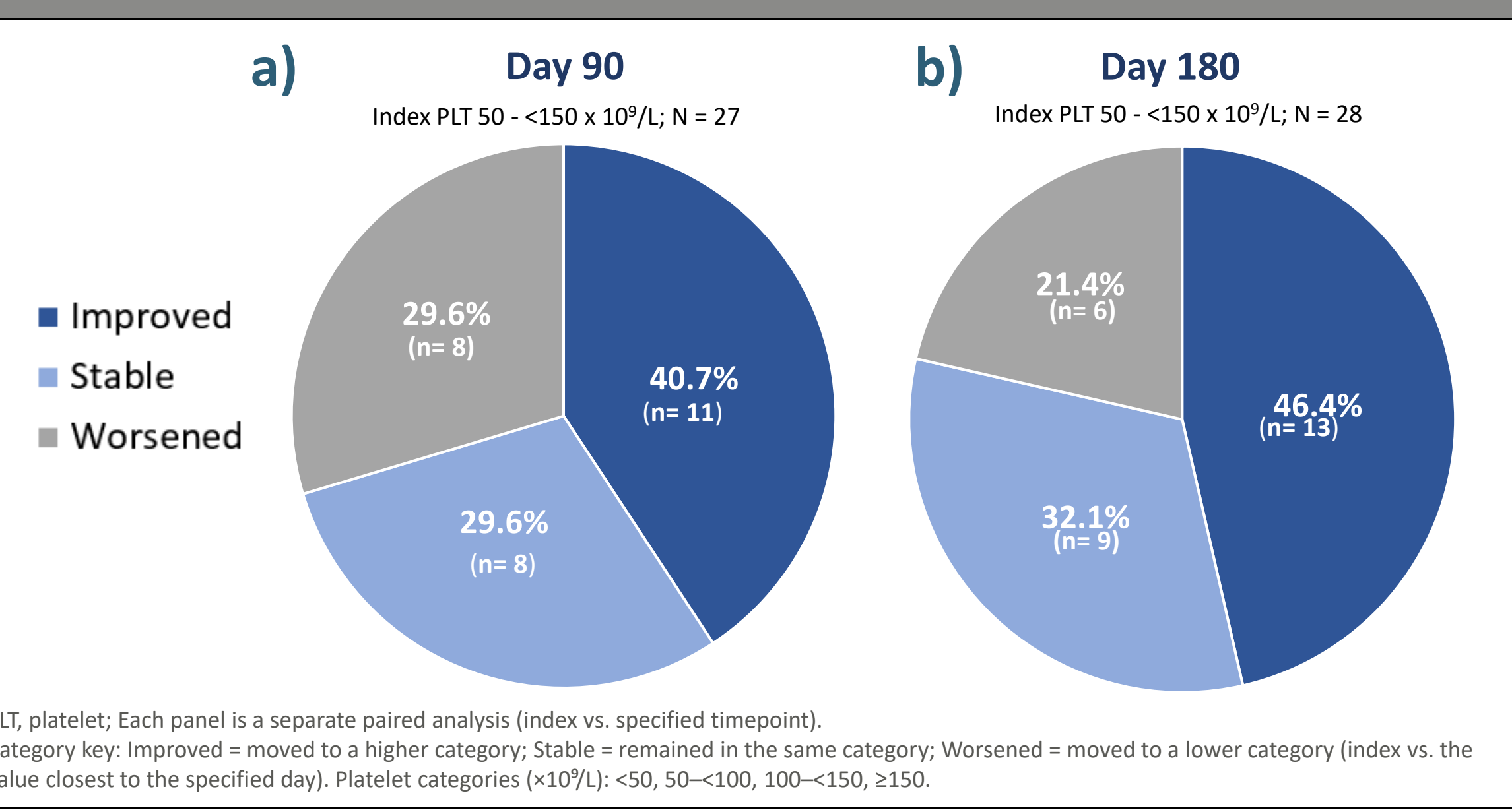
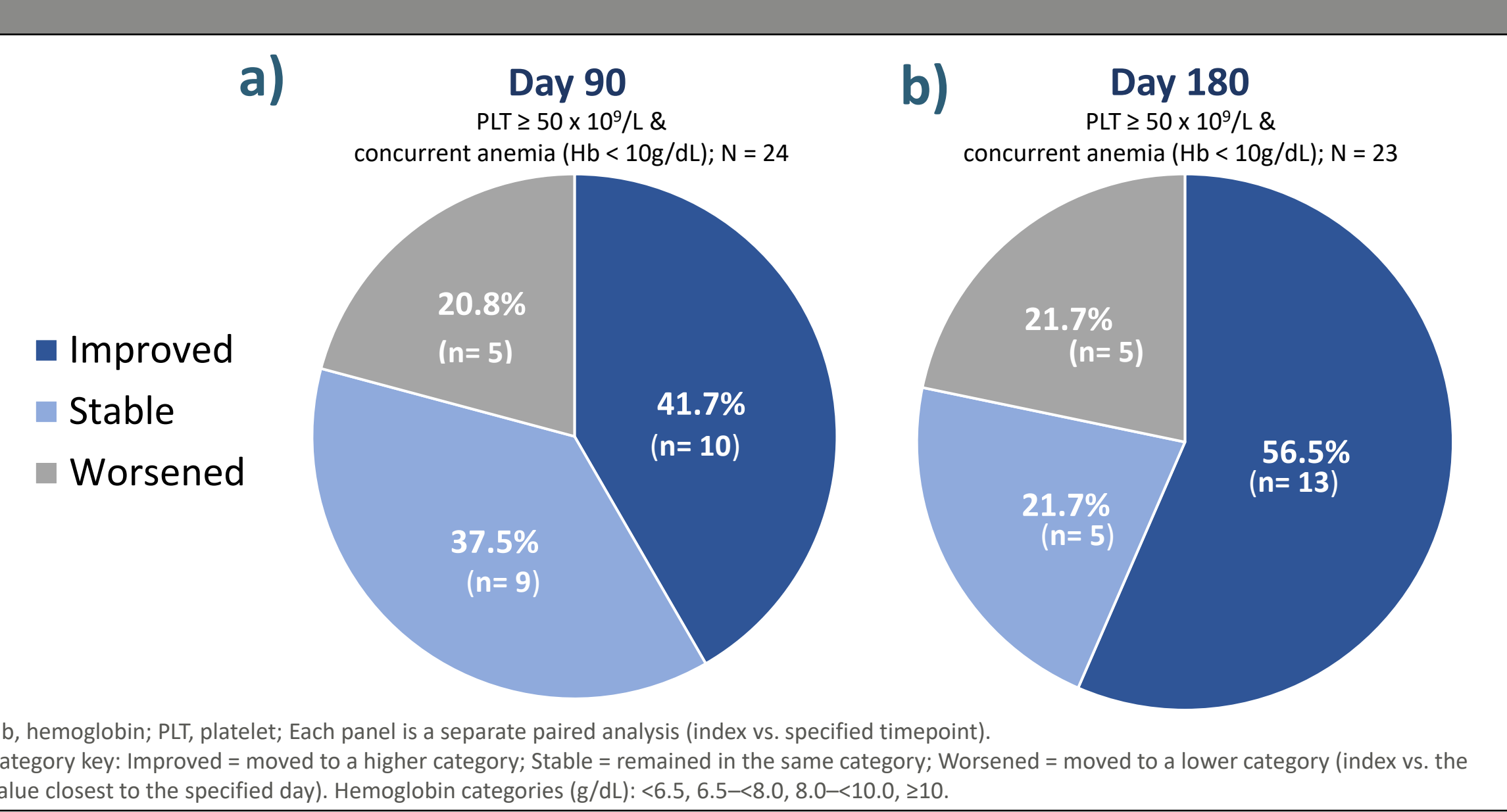


Figure 4. Hb response category at (a) Day 90 and (b) Day 180



Hemoglobin response category in patients with concurrent anemia

- At Day 90, 79% (19/24) of patients with concurrent anemia ($Hb < 10$ g/dL) had improved or stable Hb category (41.7% [10/24] improved, 37.5% [9/24] stable) (Figure 4a)
- At Day 180, a similar proportion (78.2%, 18/23) had improved or stable Hb category (56.5% [13/23] improved, 21.7% [5/23] stable) (Figure 4b)
- Among patients with $Hb \geq 10$ g/dL at index, most remained ≥ 10 g/dL — 78.6% (11/14) at Day 90 and 76.9% (10/13) at Day 180

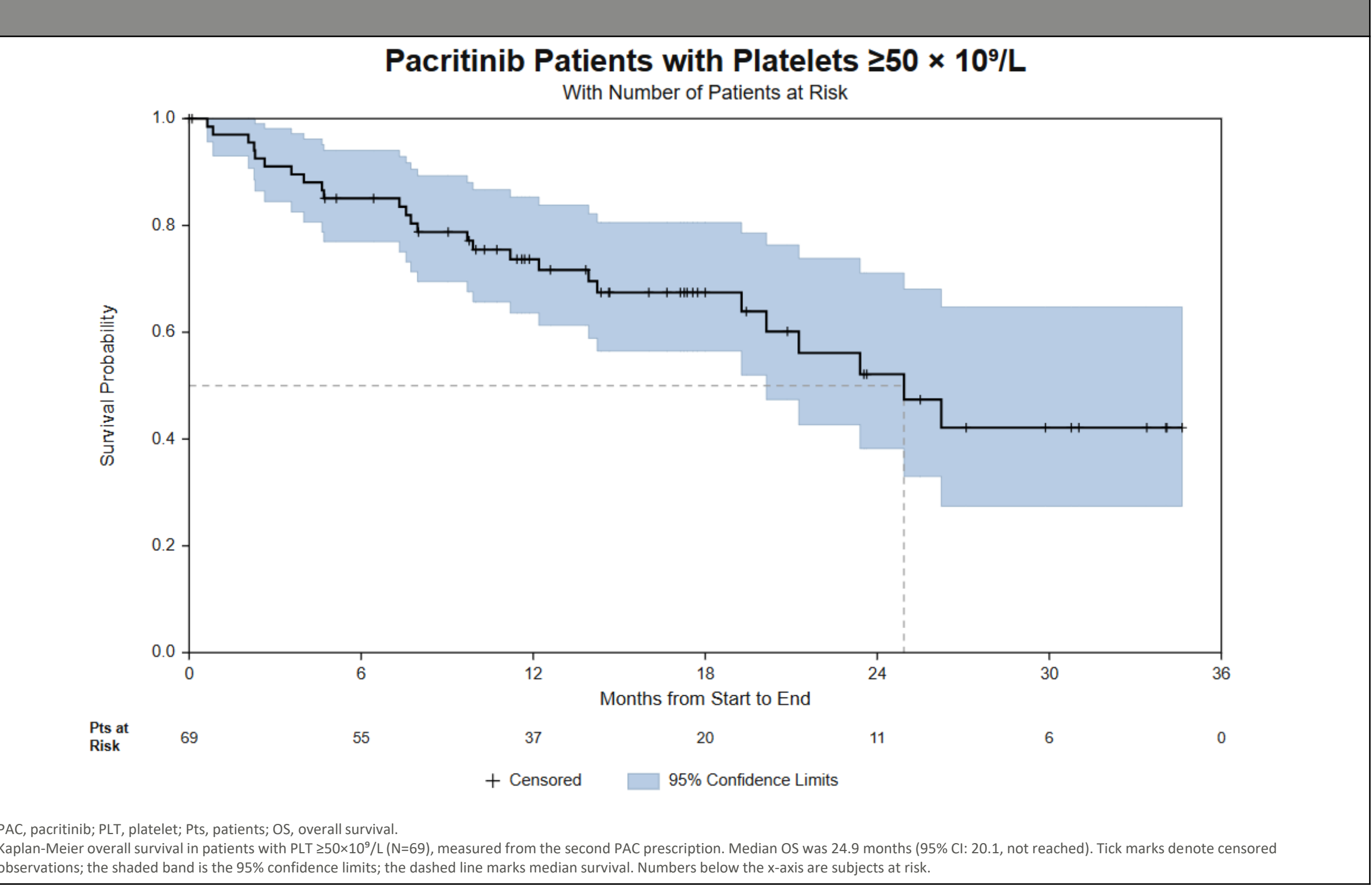
Overall Survival

Table 2. Overall survival (from second PAC prescription)

Overall survival	PLT $\geq 50 \times 10^9/L$ (N=69)
KM median OS, months (95% CI)	24.9 (20.1, NR)
Censored, n (%)	43 (62.3)
Events (deaths), n (%)	26 (37.7)

- Median OS was 24.9 months (95% CI: 20.1, not reached) in patients with $PLT \geq 50 \times 10^9/L$ over a median follow-up of 15.4 months, with 62.3% (43/69) of patients remaining alive at last observation (Table 2 & Figure 5)

Figure 5. Overall survival (Kaplan-Meier)



Study limitations

- Limited sample size may reduce generalizability beyond the study population
- PLT and Hb evaluations were collected as part of routine medical care and not at standardized time intervals
- Spleen size, symptom burden, RBC transfusion status, and molecular/risk features were not available to fully characterize clinical characteristics and treatment outcomes
- PAC dose was not captured; however, a recent real-world study (MY-PAC) reported that $>95\%$ of pacritinib-treated patients received the full 400 mg total daily dose, largely in community practices⁴

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