

Hematologic Improvement Experienced by Pacritinib-Treated Patients With Myelofibrosis in Real-World Clinical Settings

PF849

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CONCLUSIONS

- **More than half of pacritinib (PAC)-treated patients with thrombocytopenia experienced a platelet (PLT) response as defined per the International Working Group (IWG) criteria, with median PLT count increasing by more than 50% in this real-world analysis**
- **Patients who achieved PLT response also experienced an increase in median hemoglobin (Hb) levels by >1 g/dL**
- **Both platelet count and Hb levels remained stable in those who did not experience a platelet response**

BACKGROUND

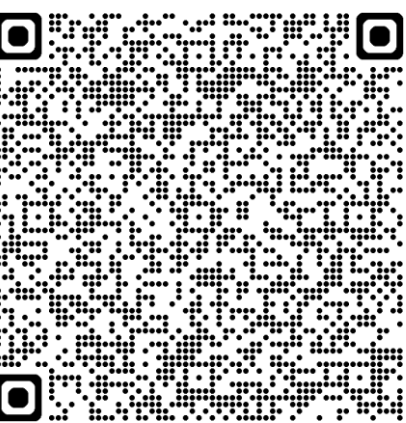
- Myelofibrosis (MF) is a rare myeloproliferative neoplasm characterized by a complex symptom profile (cytopenia-related fatigue, fever, weight loss, bleeding, bone pain), splenomegaly, potential for leukemic progression, and shortened survival¹
- Many patients with MF experience moderate to severe thrombocytopenia (PLT counts <100 x 10⁹/L) which correlates with poor prognosis^{2,3}
- PAC, a JAK1-sparing inhibitor of JAK2/IRAK1/ACVR1, is approved by the US Food and Drug Administration for the treatment of patients with MF and severe thrombocytopenia⁴
- In clinical trial settings, treatment with PAC is associated with PLT stability and, in some cases, improvement, but real-world evidence on hematologic response is limited^{5,6}

AIM

- To evaluate treatment patterns and outcomes in patients with MF and thrombocytopenia treated with PAC experiencing a PLT response in real-world clinical practice

METHODS

- Integra-PrecisionQ database, including electronic health data and practice management data (80% community oncology practices) was used to select patients with MF (based on *International Classification of Disease, Tenth Revision* [ICD-10] diagnostic codes: D47.4, D75.81, and D47.1) treated with PAC (index) between June 1, 2022, and June 30, 2024, in real-world clinical settings
- Data were extracted from index date to the end of data availability, end of study (September 30, 2024), or death, whichever occurred first
- This analysis was conducted on a subset of patients with a PLT count <100 x 10⁹/L at index who had data available for ≥90 days post-index
 - PLT response was defined per IWG criteria at any time following PAC initiation:
 - Baseline PLT <20 x 10⁹/L: increase to >20 x 10⁹/L and by at least 100%
 - Baseline PLT 20–100 x 10⁹/L: an absolute increase of ≥30 x 10⁹/L
 - Patients who achieved a PLT response within 90 days from index are reported on separately
- Treatment-related outcomes assessed included:
 - PLT and Hb levels from post-index day 90 through the end of the study period
 - Overall survival (OS) probabilities and 95% CIs from post-index day 90 were estimated using Kaplan-Meier method
 - Patients were followed from post-index day 90 until the end of data availability or death
- Continuous variables were summarized using median, and interquartile range, and categorical variables were described using counts and percentages



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References

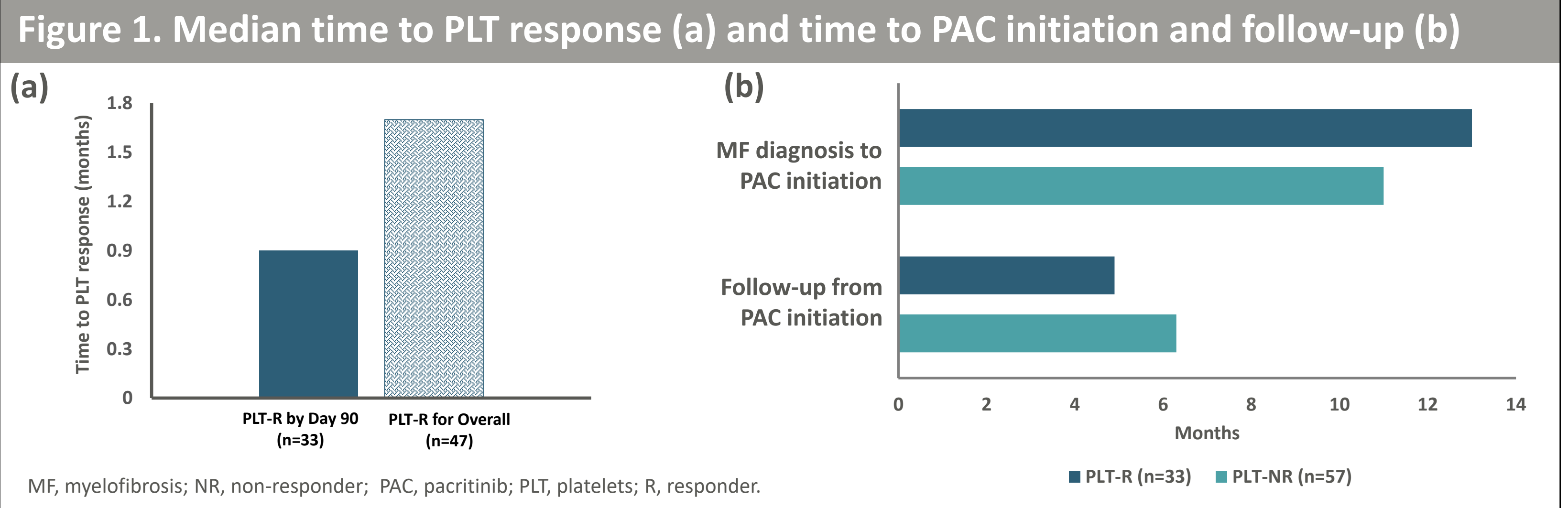
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RESULTS

- 90 patients were included (PLT count <100 x 10⁹/L at index and had data for ≥90 days post-index)
- Of the 90 patients, 47 (52.2%) met the criteria for PLT response (PLT-R), and 33 of the 47 (70.2%) achieved a response within 90 days
- A majority of patients with PLT-R by day 90 were male or White and had anemia at index with similar patient characteristic for those that did not achieve response (PLT-NR) by day 90 (**Table 1**)
- PLT-R had a higher median PLT count at index compared to PLT-NR (**Table 1**)

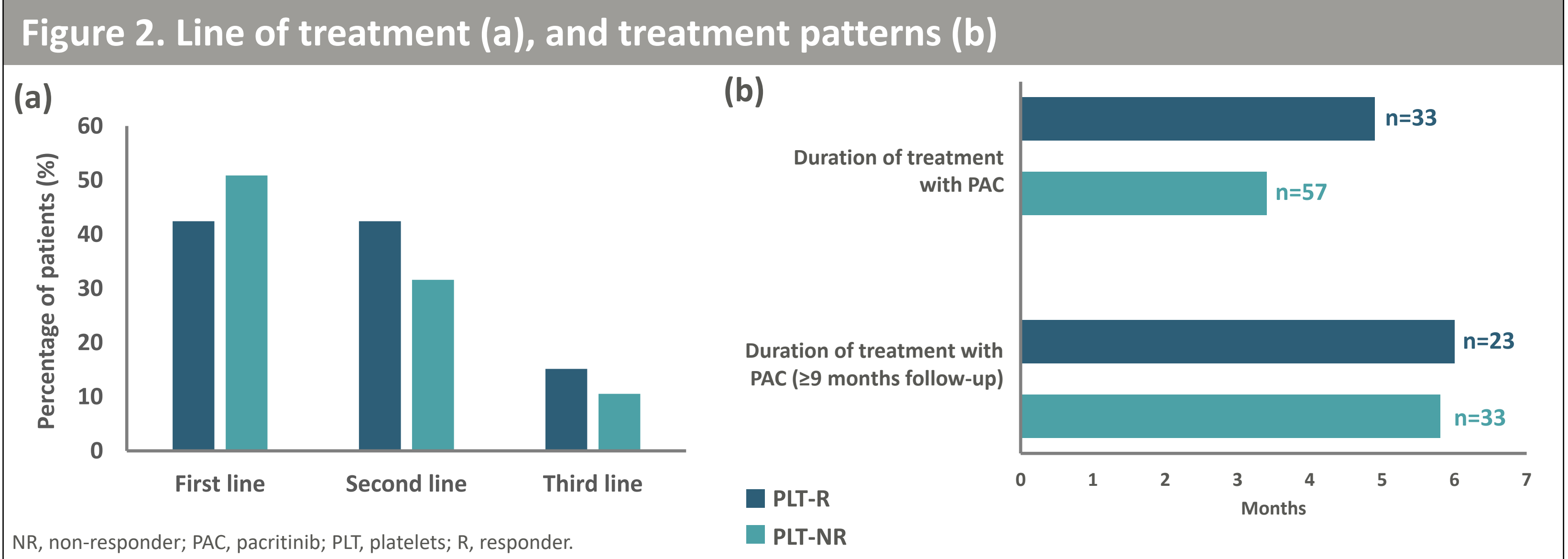
Table 1. Baseline treatment characteristics among patients with PLTL-R by day 90		
	PLT-R (n=33)	PLT-NR (n=57)
Age at PAC initiation (index), years		
Median (Q1, Q3)	76 (71, 82)	76 (68, 80)
Sex, n (%)		
Male	22 (66.7)	34 (59.6)
Race, n (%)		
White	21 (63.6)	36 (63.2)
Other/Unknown	11 (33.3)	16 (28.1)
Ruxolitinib use prior to PAC, n (%)		
16 (48.4)		26 (45.6)
PLT count at PAC initiation (index)		
Median (Q1, Q3)	64.5 (45.0, 81.0)	41 (23, 57)
Hb level at PAC initiation (index)		
Median (Q1, Q3)	8.8 (7.9, 10.1)	8.8 (7.5, 10.6)

- Median time to PLT response from index was 1.7 months overall (n=47) and 0.9 months for the 33 patients with a response by day 90 (**Figure 1a**)
- The median follow-up from index was longer in PLT-R (13 months) than PLT-NR (11 months) (**Figure 1b**)
- Median time from MF diagnosis to index was longer in PLT-NR (6.3 months) compared to PLT-R (4.9 months) (**Figure 1b**)



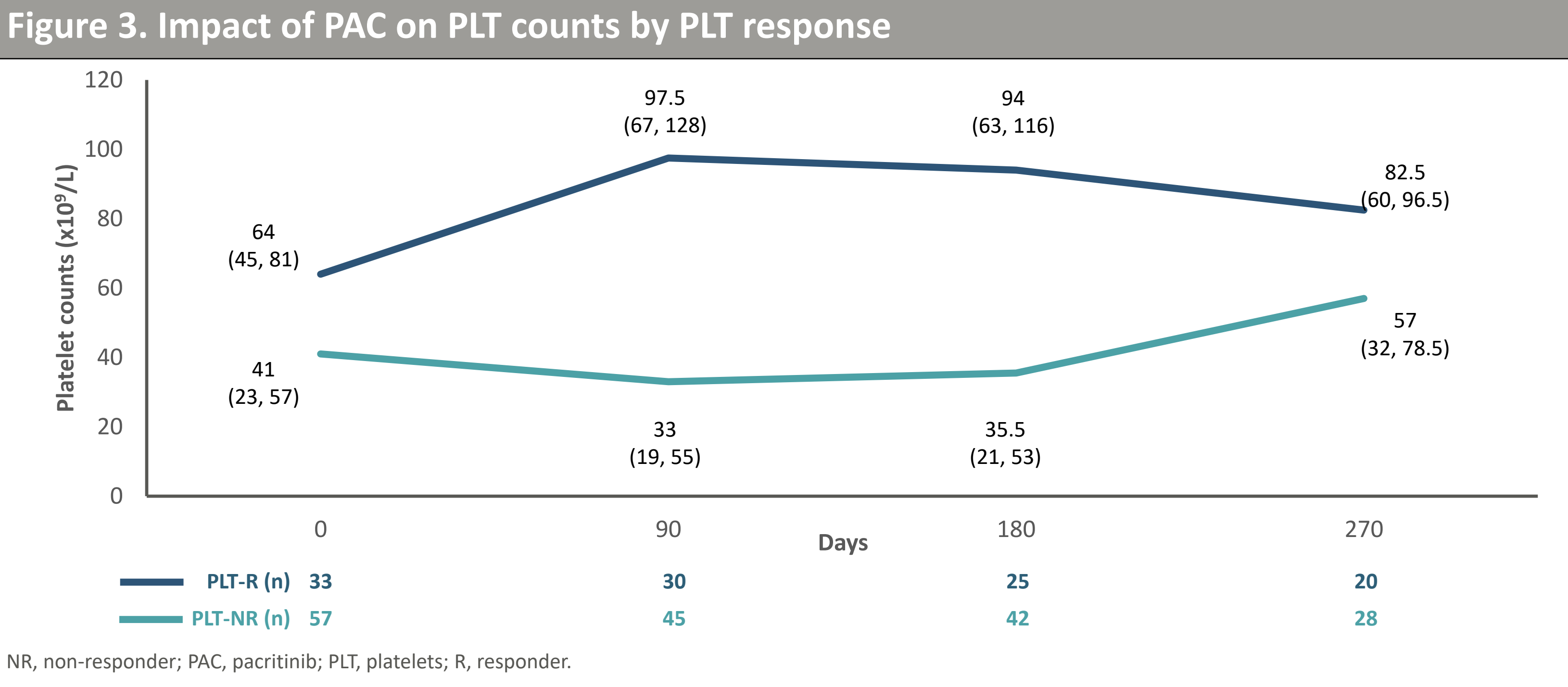
Treatment patterns with pacritinib

- First line (42%) and second line (42%) PAC was similar in PLT-R (**Figure 2a**)
- Duration of PAC treatment in patients with ≥9 months follow-up was 6 months in PLT-R (n=23) and 5.8 months in PLT-NR (n=33) (**Figure 2b**)



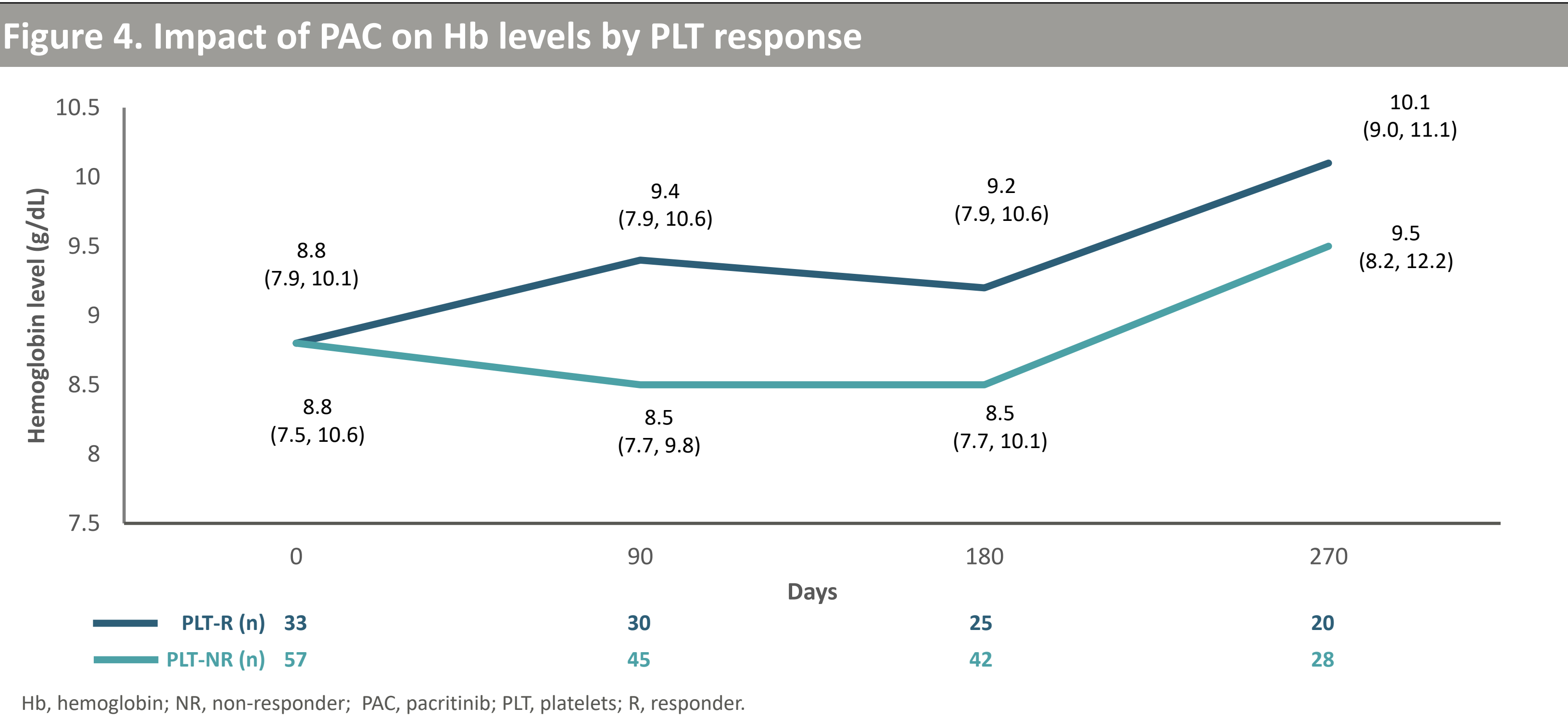
Platelet response with pacritinib treatment

- Median PLT count increased from index to day 90 by 58% in PLT-R, and remained stable through day 180 (41% median increase) and day 270 (32% median increase) (**Figure 3**)
- Median PLT count remained stable from index to day 180 (0% change) with a 14% median increase at day 270 in PLT-NR (**Figure 3**)



Hemoglobin response with pacritinib treatment

- Median Hb remained stable through day 180, and increased by a median of 4% and 2.8% from index to day 270 in PLT-R and PLT-NR respectively (**Figure 4**)



Overall Survival

- From day 90, 6-month survival probability was 80.8% (95% CI: 62.1, 90.9) in PLT-R and was similar in PLT-NR (80.7%; 95% CI: 66, 89.5) which also included 14 patients with a PLT response after day 90
- OS was consistent among PLT-R by day 90 and PLT-NR suggesting that longer follow-up may be required to delineate survival benefits for those with a PLT response including those with a response after day 90

Limitations

- As with other retrospective database studies, there is a risk of missing or incomplete information, as data may not have been uniformly available for all the patients
- Given the limited sample size of the study, results may not be generalizable beyond the study patients

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