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- [Resources](#)
- [Links](#)
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Placebo-Controlled, Randomized, Phase I/II Trial Of The Thrombopoietin Receptor Agonist Eltrombopag In Thrombocytopenic Patients With Advanced Myelodysplastic Syndromes Or Acute Myeloid Leukemia

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Background: Patients (pts) with advanced myelodysplastic syndrome (MDS) or acute myeloid leukemia (AML) often develop platelet (plt) transfusion-dependent thrombocytopenia. Eltrombopag (EPAG), an oral thrombopoietin receptor agonist, increases plts in chronic immune thrombocytopenia, hepatitis C virus-associated thrombocytopenia, and severe aplastic anemia.

Aims: To evaluate the safety and tolerability of EPAG in thrombocytopenic pts with advanced MDS and AML (primary end point). Secondary end points include plt transfusions, plt response, and overall survival (OS).

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Methods: Pts with relapsed/refractory MDS or AML ineligible for antileukemic therapies, with 10%>50% bone marrow (BM) blasts and plts <30 Gi/L were randomized 2:1 to EPAG 50 mg qd (increases q2 weeks in pts without a plt response, up to 300 mg [150 mg for Asian pts]) or placebo (PLB) for 6 months. Standard supportive care and disease-modifying treatments were permitted at the investigator's discretion.

Results: Overall, 98 pts were enrolled (EPAG: n=64; PLB: n=34). Most pts had AML (Table) and received ≥1 prior antileukemic treatments, including hypomethylating agents (EPAG: 24 [38%];

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PLB: 11 [32%]) and chemotherapy (EPAG: 10 [16%]; PLB: 3 [9%]). Most pts received the maximum dose (EPAG: 36 [56%]; PLB: 20 [59%]). Mean treatment duration was 102 days for EPAG and 78 days for PLB; 9 (14%) pts on EPAG continued treatment >6 mo versus 1 (3%) pt on PLB. Twenty-one (33%) EPAG and 17 (50%) PLB pts died on therapy or <30 days from the last dose; primary cause of death in both arms was underlying disease. The most common ($\geq 20\%$ in the EPAG arm) adverse events (AEs) on therapy +30 days were pyrexia, nausea, diarrhea, fatigue, decreased appetite, and pneumonia. Serious AEs in $\geq 5\%$ of pts in either arm included sepsis, pyrexia, febrile neutropenia, and pneumonia. Hepatobiliary events were reported in 11 (17%) EPAG and 5 (15%) PLB pts; 3% (EPAG: 2; PLB: 1) reported thromboembolic events. Of 26 pts with MDS (WHO criteria) at baseline, 14 (EPAG: 9; PLB: 5) had postbaseline BM examination results available; 8 (EPAG: 5 [56%]; PLB: 3 [60%]) of 14 pts developed BM blasts $\geq 20\%$ during treatment. Plt transfusion independence for ≥ 8 weeks was reported for 24 (38%) EPAG and 7 (21%) PLB pts ($P=0.0979$). Ten (16%) EPAG and 9 (26%) PLB pts had \geq Grade 3 hemorrhages ($P=0.1472$). More EPAG versus PLB pts started antileukemic/palliative treatment during the study (26 [41%] versus 11 [32%], respectively), including hypomethylating agents and salvage chemotherapy. Median OS was 27 weeks for EPAG versus 15.7 weeks for PLB (hazard ratio=0.71, $P=0.1931$). During treatment weeks 5-12, fewer pts receiving EPAG experienced clinically relevant thrombocytopenic events (plt counts <10 Gi/L, plt transfusions, or \geq Grade 3 hemorrhagic events) per week than PLB (weighted average [range]: EPAG: 38% [30%>48%]; PLB: 66% [56%>88%]).

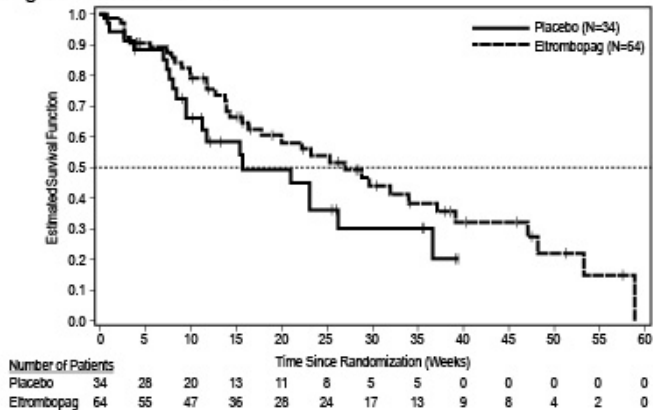
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Table. Baseline Disease Characteristics

	Placebo (N=34)	Eltrombopag (N=64)
WHO criteria, n (%) ^a		
MDS	11 (32)	15 (23)
AML	22 (65)	48 (75)
French-American-British criteria n (%) ^b		
MDS	15 (44)	23 (36)
AML	19 (56)	41 (64)
Poor prognosis karyotype, n (%)	14 (41)	19 (30)
Received prior treatments, n (%) ^c	21 (62)	46 (72)
	Median (range)	
Absolute neutrophil count, Gi/L	0.55 (0-9.8)	0.85 (0-17.6)
Hemoglobin, g/dL	8.5 (6.0-11.2)	8.8 (4.3-13.2)
Platelets, Gi/L ^d	12 (2-38)	17 (2-71)
% BM blasts	20 (10-50)	26 (10-50)

^aTwo pts (1 PLB, 1 EPAG) had missing information. ^bFAB criteria assessed by local morphology review. ^cExcludes palliative treatments (eg, hydroxyurea). ^dBaseline platelet count was derived using an average of platelet counts during screening, excluding within 3 days of a transfusion.

Figure. Overall Survival



Summary / Conclusion: EPAG ≤ 300 mg was well tolerated in pts with advanced MDS or AML. Pts treated with EPAG showed a trend toward fewer plt transfusions, fewer \geq Grade 3 hemorrhages, and improved OS compared with PLB. Additional studies with EPAG to evaluate potential antileukemic activity in advanced MDS or AML are warranted.

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