

**1033P** Efficacy and safety of bosutinib vs imatinib in Indian and non-Indian patients with newly diagnosed chronic phase chronic myeloid leukemia: Subgroup analysis from the BELA trial

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**Background:** The international, phase 3 BELA trial (NCT00574873) evaluated first-line bosutinib vs imatinib in Philadelphia chromosome-positive patients (pts) with chronic phase chronic myeloid leukemia.

**Methods:** Pts were randomized to receive bosutinib 500 mg once daily (QD) or imatinib 400 mg QD; the primary endpoint was complete cytogenetic response (CCyR) rate at 12 mo. We compared efficacy and safety of bosutinib and imatinib in Indian and non-Indian pts after 48 mo of follow-up. Efficacy was assessed in the intent-to-treat population; safety was assessed in all pts who received  $\geq 1$  dose of study drug.

**Results:** In all, 54 Indian pts (median age 34.5 y; 61% male) and 448 non-Indian pts (median age 48.5 y; 56% male) were randomized to receive bosutinib (n = 25 and n = 225 [2 untreated]), respectively) or imatinib (n = 29 and n = 223 [1 untreated]). At 12 mo, major molecular response (MMR) and CCyR rates, respectively, for bosutinib vs imatinib were 44% vs 24% and 72% vs 86% in Indian pts, and 37% vs 26% and 70% vs 66% in non-Indian pts (Table). After 48 mo of follow-up, cumulative MMR and CCyR rates, respectively, for bosutinib vs imatinib were 64% vs 69% and 84% vs 97% in Indian pts, and 68% vs 67% and 78% vs 79% in non-Indian pts. The most frequently reported treatment-emergent adverse events (TEAEs; any grade) with bosutinib were diarrhea (44%) and thrombocytopenia (36%) in Indian pts, and diarrhea (73%) and nausea (39%) in non-Indian pts. 8 pts in the entire study were lost to follow-up while on-treatment; 7 (6 bosutinib; 1 imatinib) were from Indian sites.

**Table: 1033P**

	Indian pts		Non-Indian pts	
	Bosutinib n = 25	Imatinib n = 29	Bosutinib n = 225	Imatinib n = 223
Sokal Risk Group, n (%)				
Low	11 (44)	13 (45)	77 (34)	76 (34)
Medium	11 (44)	13 (45)	106 (47)	105 (47)
High	3 (12)	3 (10)	42 (19)	42 (19)
Cumulative response, any time on-treatment, % (95% CI)				
MMR	64 (45–83)	69 (52–86)	68 (61–74)	67 (61–73)
CCyR	84 (70–98)	97 (90–100)	78 (73–84)	79 (74–84)
Response at 12 mo, % (95% CI)				
MMR	44 (25–64)	24 (9–40)	37 (31–44)	26 (20–31)
CCyR	72 (54–90)	86 (74–99)	70 (64–76)	66 (60–72)
Probability of retaining response at 48 mo (95% CI)*				
MMR	80 (49–93)	100 (100–100)	93 (86–96)	98 (93–99)
CCyR	89 (62–97)	78 (58–90)	93 (88–96)	91 (85–95)
Transformation to AP/BP CML, n (%)	1 (4)	2 (7)	4 (2)	10 (5)
Overall survival				
Deaths, n (%)	1 (4)	1 (3)	14 (6)	14 (6)
At 48 mo (95% CI)*	96 (72–99)	96 (77–100)	95 (91–97)	94 (89–96)

\*Kaplan-Meier estimate

AP=accelerated phase; BP=blast phase; CCyR=complete cytogenetic response; CI=confidence interval; CML=chronic myeloid leukemia; MMR=major molecular response

**Conclusions:** Response rates for bosutinib were comparable between Indian and non-Indian pts. MMR rates were higher for bosutinib vs imatinib at 12 mo, but not 48 mo, in Indian pts; comparison of bosutinib vs imatinib was limited by the small number of Indian pts. TEAEs were consistent with the known bosutinib safety profile, although Indian pts had a lower rate of diarrhea than non-Indian pts.

**Clinical trial identification:** NCT00574873.

**Editorial acknowledgement:** Medical writing support was provided by Emily Balevich, PhD, of Engage Scientific Solutions, and funded by Pfizer.

**Legal entity responsible for the study:** Pfizer Inc.

**Funding:** Pfizer Inc.

**Disclosure:** E. Leip, R.J. Crescenzo: Employment and stock ownership: Pfizer. C. Gambacorti-Passerini: Consultancy: BMS, Pfizer; Honoraria and research funding: Pfizer. J.E. Cortes: Consultancy: Ariad, BMS, ImmunoGen, Novartis, Pfizer; Research funding: Ariad, BMS, ImmunoGen, Novartis, Pfizer, Sun Pharma, Teva. All other authors have declared no conflicts of interest.