

haematological malignancies

9060 Phase 3 randomised study of daratumumab, bortezomib and dexamethasone (DvD) vs bortezomib and dexamethasone (Vd) in patients (pts) with relapsed or refractory multiple myeloma (RRMM): CASTOR

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Background: Daratumumab (D), a human CD38 IgGκ monoclonal antibody, induces deep and durable responses with a favorable safety profile in RRMM pts. We report a pre-specified interim analysis of the first randomised, controlled study of D (CASTOR; NCT02136134).

Methods: Pts with ≥1 prior line of therapy were randomised (1:1) to 8 cycles q3w of bortezomib (V)/dexamethasone (d) (V: 1.3 mg/m² sc on Days 1, 4, 8, 11; d: 20 mg po on Days 1, 2, 4, 5, 8, 9, 11, 12) ± D (16 mg/kg iv qw in Cycles 1-3, Day 1 of Cycles 4-8, then q4w until progression). Primary endpoint was PFS.

Results: 498 pts (DvD, 251; Vd, 247) were randomised. Baseline demographics and disease characteristics were well balanced. Pts received a median of 2 prior lines of therapy (range 1-10). 76% received prior IMiD; 66% received prior V; 48% received prior PI and IMiD; 33% were IMiD-refractory; 32% were refractory to last line of prior therapy. With a median follow-up of 7.4 months, D significantly improved PFS (61% reduction in risk of progression), ORR, rates of ≥VGPR, rates of ≥CR, and delayed time to next therapy (Table). Median OS was NR in both groups. Most common (>25%) AEs (DvD/Vd) were thrombocytopenia (59%/44%), peripheral sensory neuropathy (47%/38%), diarrhea (32%/22%) and anemia (26%/31%). Most common grade 3/4 AEs (>10%) were thrombocytopenia (45%/33%), anaemia (14%/16%), neutropenia (13%/4%). 7%/9% of pts discontinued due to a TEAE. D-associated infusion-related reactions (45% of pts) mostly occurred during the first infusion; most were grade 1/2 (grade 3/4, 9%/0%). Additional subgroup analyses will be presented.

Table: 9060	DvD	Vd
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	DvD	Vd
PFS		
Median, mo	NR	7.2
HR (95% CI)	0.39 (0.28-0.53)	
P	<0.0001	
ORR, %	83	63
P	<0.0001	
≥VGPR, %	59	29
P	<0.0001	
≥CR, %	19	9
P	0.0012	
Time to next therapy		
Median, mo	NR	9.8
HR (95% CI)	0.30 (0.20-0.45)	
P	<0.0001	

Conclusions: D in combination with Vd significantly improved PFS and ORR and delayed time to next therapy vs Vd alone. DvD doubled both VGPR and sCR/CR rates vs Vd alone. Safety of DvD is consistent with the known safety profile of D and Vd. The addition of D to Vd should be considered a new standard of care for RRMM pts currently receiving Vd alone.

Clinical trial identification: NCT02136134

Legal entity responsible for the study: N/A

Funding: Janssen Research & Development, LLC

Disclosure: K. Weisel: Honoraria from BMS, Celgene, Amgen, Onyx, Janssen, Novartis, Takeda; Consulting / Advisory role for BMS, Celgene, Amgen, Onyx, Janssen, Novartis, Takeda; Research Funding (for my institution) from Celgene and Janssen. A. Palumbo: Honoraria from Janssen; Consulting / Advisory role for Janssen; Research Funding (for my institution) from Janssen. A. Chanan-Khan: Research Funding (for my institution) for clinical research. A.K. Nooka: Consulting or advisory role for Novartis, Amgen, Spectrum Pharm. I. Spicka: Honoraria from Celgene, Janssen, Amgen; Consulting or advisory role for Celgene, Janssen, Amgen, BMS. T. Masszi: Consulting or advisory role for Takeda, Novartis, BMS, Janssen-Cilag. M. Beksac: Honoraria from Janssen-Cilag, Celgene, Amgen, Novartis, BMS; Speaker's Bureau for Janssen-Cilag, Celgene, Amgen, BMS. V. Hungria: Consulting or advisory role for Janssen, Takeda. M. Munder: Consulting or advisory role for Janssen, Amgen, Teva, Takeda; Travel, Accommodations, Expenses from Janssen, Takeda, BMS. M.-V. Mateos: Honoraria from Janssen, Celgene, Amgen, BMS, Takeda; Consulting or advisory role for Janssen, Celgene, Amgen, BMS, Takeda, Novartis. T.M. Mark: Stock or other ownership from Abbvie; Consulting or advisory role for Celgene, Takeda, Amgen, Janssen; Speakers Bureau for Celgene, Takeda, Bristol Myers Squibb, Amgen; Research funding (for my institution) from Celgene, Takeda, Amgen. A. Spencer: Honoraria from Janssen-Cilag; Consulting or advisory role for Janssen-Cilag; Speakers Bureau for Janssen-Cilag; Research Funding from Janssen-Cilag. M. Qi: Employment with Johnson & Johnson, Stock or other ownership in Johnson & Johnson. J. Schecter: Employment with Janssen; Stock or other ownership from Janssen. H. Amin: Employment with Janssen Research & Development, LLC; Stock or other ownership from Johnson & Johnson, Merck, others via mutual funds. X. Qin: Employment with Janssen R&D. W. Deraedt: Employment with Johnson & Johnson; Stock or other ownership with Johnson & Johnson. T. Ahmadi: Employment with Janssen Research & Development; Stock or other ownership with Johnson & Johnson. P. Sonneveld: Honoraria from Amgen, Janssen, Celgene, Takeda; Consulting or advisory role for Amgen, Janssen, Celgene, Takeda; Research Funding (for my institution) from Amgen, Janssen, Celgene, Karyopharm.