

Multiple Myeloma (NDMM)

Gay et al., Blood, 2018

the efficacy and safety analysis during induction treatment.

RESULTS. In February 2017, the protocol was amended due to a low enrolment and the IBd arm, the only one including an iv drug, was closed. After closing this arm, all the other all oral arms continued the enrolment. Overall, 175 pts were enrolled (Id 42, ICd 61, ITd 61, and IBd 11 pts) and 171 pts started treatment.

Median age was 74 years, 20% of pts had high risk cytogenetics, 44% were fit, 30% intermediate and 26% frail, according to the IMWG frailty score. Median follow-up was 13.2 months (IQR 8.9-20.7).

During the first 4 cycles, at least VGPR rate was 24% with Id, 33% with ICd, 31% with ITd and 18% with IBd. In March 2018, after the analysis of the 4th cohort, the Id arm was closed due to high risk of inefficacy.

Overall response rate (ORR) during induction was 73%, VGPR was 39%. ≥VGPR rates were 24% in Id, 48% in ICd, 43% in ITd and 27% in IBd. Median time to first response was 2.4 and to the best response 4 months.

Responses were comparable according to cytogenetics: in high risk pts, ORR was 77%, ≥VGPR 46% and ≥nCR 17% as compared to 71%, 36% and 18% in standard risk pts (p=0.53, p=0.33 and p=1, respectively).

Response rates were also comparable according to frailty status: in frail pts, ORR was 73%, ≥VGPR 36% and ≥nCR 11% as compared to 75%, 40% and 17% in intermediate and 70%, 40% and 22% in fit pts (p=0.78, p=0.90 and p=0.32, respectively).

Median number of induction cycles was 9 (IQR 5-9); 93 (53%) pts completed induction treatment and 14 (8%) pts are still on induction treatment.

During the first 4 cycles, hematologic toxicity was limited, and non-hematologic toxicity manageable. The most frequent G3-4 adverse event (AE) was rash in ITd arm (11%); discontinuation rate due to toxicity was 6%.

During induction, the rate of at least 1 hematologic G≥3 AE was 11% and at least 1 non-hematologic G≥3 AE was 44%. The most frequent G≥3 AEs were neutropenia (8%), gastrointestinal (9%), infections (11%), neurologic (11%) and dermatologic (6%). G3thrombocytopenia (3%) and PN (5%) were limited. Ixazomib dose reduction due to AEs was required in 15% of pts. The rate of non-hematologic AEs was slightly higher in ITd arm (37% in Id, 37% in ICd, 53% in ITd, 55% in IBd). Early death rate (<60 days from start therapy) was 1%.

CONCLUSIONS. ITd and ICd are convenient all-oral induction regimens for ASCT-ineligible NDMM, confirming an improved efficacy of a triplet vs a doublet combination, also in intermediate and frail patients. Id showed lower efficacy, thus suggesting a possible effect of the dose of Ixazomib or the absence of a third drug. Treatment was feasible, with limited toxicity and low discontinuation rate due to AEs, although ITd induced a slightly higher toxicity, but mainly attributable to Thalidomide.

INDUCTION	All	ld	ICd	ITd	IBd
Efficacy	N=175	N=42	N=61	N=61	N=11
≥nCR	18%	14%	25%	15%	9%
≥VGPR	39%	24%	48%	43%	27%
≥PR	73%	55%	75%	82%	73%
Safety	N=171	N=41	N=59	N=60	N=11
Hematologic AEs ≥ Grade 3	11%	5%	12%	13%	18%
Non-Hematologic AEs ≥ Grade3	44%	37%	37%	53%*	55%
Neurologic	11%	7%	7%	18%	9%
Dermatologic	6%	2%	2%	13%	0
Infections	11%	10%	8%	13%	9%
Vascular	7%	5%	7%	10%	0
Gastrointestinal	9%	7%	8%	12%	9%
Discontinuation due to AEs	10%	7%	7%	15%	9%
Ixazomib dose reduction due to AEs	15%	2%	22%	17%	18%

Directed Assembly Network phase three launch: a round-up of success to date and strategy for the future 🗹

J. A. R. Rose et al., BMC Chemistry, 2017

Transcriptomic landscape of lncRNAs in inflammatory bowel disease Aashiq H Mirza et al., Genome Med, 2015

Early Data on Long-Term Efficacy and Safety of Inotersen in Patients With Hereditary Transthyretin Amyloidosis: A 2-Year Update From the Open-Label Extension of the NEURO-TTR Trial T. H. Brannagan et al, Wiley, 2020

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* ITd vs ICd, p=0.10; ITd vs Id p=0.11.

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OffLabel Disclosure:

The presentation includes discussion of off-label use of a drug or drugs for the treatment of multiple myeloma.

Topics: bendamustine, cyclophosphamide, dexamethasone, ixazomib, multiple myeloma, older adult, thalidomide, brachial plexus neuritis, impedance threshold device, implantable defibrillators

Author notes

* Asterisk with author names denotes non-ASH members.

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