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c-Myc, cellular Myc; CUL4, cullin 4; DC, dendritic cell; DD81, DNA damage-binding protein 1; IFN, interferon; IL, interleukin; IRF4, interferon regulatory factor 4; HK, natural killer; ROC1, regulator of cullins-1; Ub, ubiquitin.

Phase 1: dose escalation

Cohort A
IBER + COHORT A
IBER + DEX

Cohort B
IBER + DEX

Cohort E
IBER + DARA + DEX

Cohort F
IBER + BORT + DEX

Cohort G
IBER + CFZ + DEX

Phase 2: dose expansion*

Cohort D
IBER + DEX

Cohort J1 (NDMM TNE)
IBER + BORT + DEX

Cohort K (NDMM TNE)
IBER + DARA + DEX

B Key eligibility criteria

- Adults (≥ 18 years) with NDMM
- Previously untreated symptomatic MM
- No ASCT planned for initial therapy or ASCT-ineligible†
- Measurable disease

Treatments

IBER + BORT + DEX
IBER (oral); 1.0, 1.5, or 1.6 mg on D1-14 in C1-8, and D1-21 in C-9
BORT (SC): starting at 1.3 mg/m² on D1, 4, 8, and 11 in C1-8
DEX (oral): 20 mg po on D1, 4, 8, 9, 8, 11, and 13 in C1-8 and 40 mg weekly in C-9
21-day cycles (C1-8)
28-day cycles (C-9)

Endpoints

- Primary: efficacy and safety
- Secondary: additional efficacy parameters (including DOR and PFS)
- Exploratory: pharmacodynamics assessment; MRD evaluation

*Cohorts C (IBER monotherapy expansion) and J2 (IBER + BORT + DEX in patients with NDMM who are transplant eligible) were planned but not opened; †1.6 mg on D1-21 of 28-day cycles; ‡Radiotherapy, bisphosphonates, or a single short course of steroids were permitted; †Patients ineligible for ASCT due to age (≥ 65 years) or severe comorbidities; †DEX was given at a dose of 10 mg in patients aged < 75 years; †DEX was given at a dose of 20 mg in patients aged ≥ 75 years.

BCMA, B cell maturation antigen; C, cycle; CFZ, carfilzomib; D, DARA, daratumumab; DOR, duration of response; MM, minimal residual disease; PFS, progression-free survival; SC, subcutaneous.

*Defined as PR or better; ^bData cutoff: May 29, 2024; ^cNon-evaluable patients discontinued prior to completing 1 treatment cycle due to consent withdrawal or were lost to follow-up. ITT, intent-to-treat; MR, minimal response; MS, missing; SD, stable disease.

¹Data cutoff: May 29, 2024; ²Defined as the presence of any abnormality for del(17p), and/or translocation t(4,14), and/or translocation t(14,16), and/or amplification 1q21; ³2/18 patients were not evaluable.
ECOG, Eastern Cooperative Oncology Group; ISS, International Staging System.

- Grade 3/4 TEAEs were primarily infections (47.1%), including pneumonia (23.5%) and COVID-19 (11.8%)
- The most common hematologic grade 3/4 TEAE was neutropenia (29.4%)
- 2 (11.8%) patients experienced grade 3/4 peripheral neuropathy
- Other grade 3/4 non-hematologic TEAEs, including fatigue, were rare
- No pulmonary embolism events were reported during treatment; 1 patient experienced deep-vein thrombosis

Responses with IberVd deepened over time

Legend: sCR (dark green), CR (light green), VGPR (blue), PR (orange), NE (grey)

Overall ORR: 88.9%

Response Category	IberVd TNE NDMM (June 23, 2023) (N = 18)	IberVd TNE NDMM (May 29, 2024) (N = 18)
sCR	7 (38.9%)	8 (44.4%)
CR	2 (11.1%)	4 (22.2%)
VGPR	5 (27.8%)	3 (16.7%)
PR	2 (11.1%)	1 (5.6%)
NE	2 (11.1%)	2 (11.1%)

	IberVd TNE NDMM (N = 18)
MRD negativity rate, ^{a,c} n (%)	8 (44.4)
Patients who had a response ^b (N = 16)	
Time to first response, median (range), months	0.7 (0.7-3.9)

Follow-up time, median (range), month

	IberVd TNE NDMM (June 23, 2023) (N = 18)	IberVd TNE NDMM (May 29, 2024) (N = 18)
Follow-up time, median (range), month	12.6 (3.9-16.4)	25.0 (0.7-29.5)

^aDefined as PR or better; ^bNon-evaluable patients discontinued prior to completing 1 treatment cycle due to consent withdrawal or were lost to follow-up; ^cFrom univariate analysis for all responders without adjusting for censoring; ^dMRD negativity rate was evaluated in patients with ≥ VGPR; ^eAt a threshold of 10³ by next-generation flow cytometry.

- The patients and families who made this study possible
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