BasecaMMp: An oBservational retrospective Analysis of treatment patternS and Effectiveness of standard of CAre for Multiple Myeloma patients exposed to lenalidomide and a Proteasome inhibitor

Objectives



This analysis explored real-world characteristics and clinical outcomes of patients with RRMM with 1-3 prior lines of therapy (LOTs) and previously treated with LEN and a PI from a large dataset in Germany

Conclusions



- This study supports the findings from prior research on the outcomes of LEN-refractory patients (Yong et al, 2025⁴), whilst focusing on real-world patients as opposed to those treated in a clinical trial setting
- There is no clear standard of care for patients post-LEN and a PI
- The median PFS was approximately 1 year, underscoring the poor outcomes and the unmet need for more effective therapies in this patient population. It should also be noted that there is a risk that PFS in the TM MM dataset is overestimated due to the missing progression data
- Further research is needed to optimize treatment strategies for this patient population as there is no clear standard of care for patients with RRMM post-LEN and a PI with the most used regimen only being prescribed to <20% of patients



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References: 1. Joseph NS, et al. Blood Cancer J. 2024;14:159. **2.** Dimopoulos MA, et al. Nat Rev Clin Oncol 2025;22:680-700. **3.** Therapy Monitor Multiple Myeloma German database. **4**. Yong K, et al. Eur J Cancer 2025;215:115157.

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Background

- Most patients with relapsed or refractory multiple myeloma (RRMM)
 have been previously treated with combination therapies including
 lenalidomide (LEN) and proteasome inhibitors (PIs) in the front-line
 setting^{1,2}
- There is no clear standard of care for patients with RRMM following treatment with LEN and a PI²
- Thus, there is a need to understand treatment patterns and clinical outcomes in real-world settings to optimize treatment strategies for this patient population

Methods

- We analysed data from the Therapy Monitor Multiple Myeloma (TM MM) (Germany) electronic health record database. Patients who had received prior LEN and a PI with 1-3 prior LOTs were included if they initiated their next therapy (index therapy) between May 2016 and December 2023
- To align with most ongoing randomized-controlled trials (RCTs) in this population, patients with an ECOG performance status >2 were excluded, among other criteria. Patient characteristics, number of prior LOTs, and treatment regimens were analyzed
- Kaplan-Meier curves were calculated for progression-free survival (PFS) and overall survival (OS). In the dataset, biochemical progression was not available; therefore, PFS was defined as time from index to death or start of a new LOT
- Analyses were also undertaken for the subpopulation of patients who were refractory to LEN

Results

PATIENTS AND PRIOR TREATMENT

- A total of 1834 patients were included in this analysis and baseline characteristics are summarized in **Table 1**. In summary for the full basecaMMp population³:
- Median age was 73 years

Age, median (min-max), years

Prior LOT, median (min-max)

Prior LOTs, n (%)

Prior therapy, n (%)

Anti-CD38 mAb

Selinexor

Double-class^a

Triple-class^b

Quad-class^c

Penta-drug^d

Lenalidomide

Double-class^a

Triple-class^b

Penta-drug^d

Standard

Unknown

ECOG PS, n (%)

ISS/R-ISS, n (%)

del(17p) chromosomal abnormalities.

therapy; mAb=monoclonal antibody; R-ISS=Revised ISS

Anti-CD38 mAb

Proteasome inhibitor

Exposure status, n (%)

Refractory status, n (%)

Proteasome inhibitor

Cytogenetic risk, n (%)

- Patients had previously received a median of 2 prior LOTs
- Approximately one third of patients (30%) were double refractory with nearly half (48%) refractory to LEN and one third (36%) refractory to a PI
- Table 1 also presents the baseline characteristics for the LEN refractory population

Table 1. Demographics and baseline characteristics

Full basecaMMp

population

N=1834

73 (22-96)

2 (1-3)

370 (20.17)

1280 (69.79)

184 (10.03)

1834 (100)

78 (4.25)

1834 (100)

1834 (100)

78 (4.25)

30 (1.64)

874 (47.66)

668 (36.42)

557 (30.37)

316 (17.23)

208 (11.34)

1310 (71.43)

193 (10.52)

850 (46.35)

791 (43.13)

42 (2.29)

968 (52.78)

567 (30.92)

257 (14.01)

Note: refractoriness is based on documentation of relapsed/refractory status of entire line if patient has progressed to the next. (ie, LEN-

^a Double-class refers to ≥2 of the following classes: Proteasome inhibitor, Immunomodulatory drug and anti-CD38 antibody; ^b Triple-class refers to ≥1 proteasome inhibitor, ≥1 immunomodulatory drug, and ≥1 anti-CD38 antibody; ^c Quad-class refers to ≥2 proteasome inhibitor, ≥1 immunomodulatory drug, and ≥1 anti-CD38 antibody; ^d

Penta-drug refers to ≥2 proteasome inhibitors, ≥2 immunomodulatory drugs and ≥1 anti-CD38 antibody; e Includes t(4;14), t(14;16), and

ECOG PS=Eastern Cooperative Oncology Group performance status; ISS=International Staging System; LEN=lenalidomide; LOT=line of

refractory = refractory to a prior line where lenalidomide was used as part of any therapeutic measure).

LEN-refractory

population

n=874

73 (29-96)

3 (1-3)

48 (5.49)

714 (81.69)

112 (12.81)

874 (100)

25 (2.86)

874 (100)

874 (100)

25 (2.86)

8 (0.92)

874 (100)

556 (63.62)

556 (63.62)

93 (10.64)

83 (9.50)

698 (79.86)

80 (9.15)

391 (44.74)

403 (46.11)

7 (0.80)

542 (62.01)

239 (27.35)

86 (9.84)

INDEX TREATMENTS

- Index treatment regimens (first treatment after patient had been exposed to LEN and a PI within 1-3 LOTs) were heterogenous (Table 2)
- The most common regimen in each source was used by <25% of patients
- Full basecaMMp population: daratumumab + bortezomib + dexamethasone (19.85%)
- LEN-refractory population: daratumumab + bortezomib + dexamethasone (24.83%)
- The 3 most common regimens were collectively used by <50% of patients in the full population and <56% in the LEN-refractory subpopulation

Table 2. Index treatment regimens

Top 5	most used	regimens	at index,	n (%))
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	Full base popul N=1	lation	LEN-refi popula n=8	ation
1	DVd	364 (19.85)	DVd	217 (24.83)
2	Pd	270 (14.72)	Pd	161 (18.42)
3	D mono	202 (11.01)	Kd	108 (12.36)
	DRd	181 (9.87)	DRd	70 (8.01)
5	Kd	150 (8.18)	D mono	52 (5.95)

Top 5 most used regimens after index (subsequent therapy), n (%)

	Full base popul n=1	ation	LEN refr popula n=59	ntion
12345	D mono	131 (12.32)	Pd	72 (12.14)
	Pd	126 (11.85)	D mono	71 (11.97)
	IxaRd	113 (10.63)	IxaRd	71 (11.97)
	EPd	91 (8.56)	EPd	53 (8.94)
	ERd	88 (8.28)	IsaPd	41 (6.91)

Pd=pomalidomide, dexamethasone; EPd=elotuzumab, pomalidomide, dexamethasone; DVd=daratumumab, bortezomib, dexamethasone; Kd=carfilzomib, dexamethasone; ERd=elotuzumab, lenalidomide, dexamethasone; IxaRd=ixazomib, lenalidomide and dexamethasone; DRd= daratumumab, lenalidomide and dexamethasone; D mono=daratumumab monotherapy; IsaPd=isatuximab, pomailomide and dexamethasone

EFFICACY

Median (95% CI) PFS was 12.68 (12.22 - 13.14) and 11.30 (10.28 - 12.09) months for the full basecaMMp population and the LEN refractory population, respectively. Median OS was 37.09 (34.17 - 40.71) and 34.33 (31.11 - 41.03) months

Table 3. Survival outcomes

	Full basecaMMp population n=1063	LEN-refractory population n=593
PFS, median (95% CI), months	12.68 (12.22 - 13.14)	11.30 (10.28 - 12.09)
OS, median (95% CI), months	37.09 (34.17 - 40.71)	34.33 (31.11 - 41.03)
LEN=lenalidomide; OS=overall survival; PFS=progres	sion-free survival	

Figure 1. Progression-free survival 1.0 0.9 | Expression-free survival | Full population | LEN refractory | LEN refractory 0.7 0.9 0.7 0.9 0.7 0.9 0.7 0.9 0.7 0.9 0.7 0.8 0.7 0.9 0.9 Months

LEN=lenalidomi

