

GSK's Blenrep returns to the U.S. market with significant caveats

Market Event Summary

The FDA grants restricted Blenrep approval, unlike Europe and Japan

Background

- Blenrep (belantamab mafodotin), a **BCMA-directed** monoclonal antibody linked to MMAF, received FDA accelerated approval in 2020 for **relapsed or refractory (R/R) multiple myeloma** patients who had received at least four prior therapies. This approval was based on Phase 2 **DREAMM-2** trial results. U.S. marketing authorization was **withdrawn** in 2023 following negative confirmatory data from the Phase 3 **DREAMM-3** trial.

Event

- On October 23, 2025, the **FDA approved Blenrep in combination with bortezomib and dexamethasone (Bela-Vd)** for adults with **R/R multiple myeloma** who have received at least two prior lines of therapy (**third line onward**), including a proteasome inhibitor and an immunomodulatory agent. Approval was based on Phase 3 **DREAMM-7** trial results. GSK sought approval for Bela-Vd from the second line onward, which was not granted.
- The FDA also rejected Blenrep in combination with pomalidomide and dexamethasone (**Bela-Pd**). In contrast, Bela-Vd and Bela-Pd received approval from the **second line onward** in Europe and Japan.
- The FDA ODAC voted 5-3 against Bela-Vd, citing limited U.S. enrollment (< 5%) and concerns that a safe and effective dose had not been established due to high rates of ocular toxicity. Consequently, the U.S. label includes a **boxed warning** for ocular toxicity and restricts access via the **BLNREP REMS** program.
- The **DREAMM-7** trial (Bela-Vd vs. DVd) reported a median PFS of 36.6 vs. 13.4 months (HR: 0.41, P < 0.00001). Although median OS was not reached in either arm, results significantly favored Bela-Vd (HR 0.58, P = 0.00023).

Clarivate's takeaways



Market outlook

The R/R multiple myeloma market is highly dynamic, complex, and fragmented. In 2034, Clarivate forecasts Blenrep sales of \$700 million. Collectively, in 2034 BCMA-targeting agents will generate \$9.3 billion in sales.



Ongoing trials

Blenrep is in Phase 3 development in combination with lenalidomide and dexamethasone (Bela-Rd) for first-line ASCT-ineligible patients in the DREAMM-10 trial. This trial is expected to support a future approval, underscoring GSK's continued confidence in the therapy.



Competition

Blenrep will face strong competition from BCMA-targeting CAR T-cell therapies (ciltacabtagene autoleucel and idecabtagene vicleucel) and BiTEs (elranatamab, teclistamab, and linvoseltamab). Although BiTEs are in Phase 3 trials for earlier-line use, Blenrep may be preferred in certain circumstances for its simpler dosing.

About the author



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Julia Morris is a pharmaceutical industry analyst with over 10 years of experience in oncology research and drug discovery. Before joining Clarivate, Julia was a senior bioscientist in the Drug Discovery Unit at Cancer Research UK Manchester Institute. During this time, she developed and conducted assays to assess the effect of preclinical small-molecule inhibitors on in vitro cellular proliferation in breast, ovarian, and uterine cancer cell lines. She earned her Ph.D. in molecular biology from the University of Sheffield and a B.Sc. (Honors) in cellular and molecular medicine with study in industry from the University of Bristol.

Clarivate coverage of multiple myeloma

- Multiple Myeloma *Disease Landscape & Forecast (G7)*.
- Multiple Myeloma *Disease Landscape & Forecast (China)*.
- Multiple Myeloma and Non-Hodgkin's Lymphoma: *Chimeric Antigen Receptor (CAR) T-cell Therapy Access & Reimbursement*.
- Multiple Myeloma *Current Treatment: Physician Insights (US)* - explores the prescribing trends of hematologist-oncologists treating multiple myeloma.
- Multiple Myeloma *Treatment Sequencing (US)* - presents surveyed hematologist-oncologists' most frequent treatment sequences for multiple myeloma.
- Multiple Myeloma *Unmet Need (US/EU)* - provides detailed and expanded analysis insights into areas of unmet need in specific subpopulations.



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