NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Health Technology Evaluation

Belantamab mafodotin for treating relapsed or refractory multiple myeloma after 4 or more therapies [ID2701]

Final scope

Remit/evaluation objective

To appraise the clinical and cost effectiveness of belantamab mafodotin within its marketing authorisation for treating relapsed or refractory multiple myeloma after 4 or more therapies.

Background

Multiple myeloma is a form of cancer that arises from plasma cells (a type of white blood cell) in the bone marrow. Myeloma cells produce large quantities of an abnormal antibody, known as paraprotein. Unlike normal antibodies, paraprotein has no useful function and lacks the capacity to fight infection. Myeloma cells supress the development of normal blood cells that are responsible for fighting infection (white blood cells), carrying oxygen around the body (red blood cells) and blood clotting (platelets). The term multiple myeloma refers to the presence of more than one site of affected bone at the time of diagnosis. People with multiple myeloma can experience bone pain, bone fractures, tiredness (due to anaemia), infections, hypercalcaemia (too much calcium in the blood) and kidney problems.

Approximately 5,000 people are diagnosed with multiple myeloma in England each year (2016 to 2018 data).[1] Five-year prevalence of multiple myeloma in the UK is 26 per 100,000.[2] It is most frequently diagnosed in older people, with 43% of new cases of multiple myeloma in England in people aged 75 years or older.[1] The 5-year survival rate for adults with multiple myeloma in England and Wales is estimated to be 52%.[3] Multiple myeloma is more common in men than in women and the incidence is also reported to be higher in people of African and Caribbean family background.[4]

The main aims of therapy are to prolong survival and maintain a good quality of life by controlling the disease and relieving symptoms. If the disease progresses after initial treatment, the choice of subsequent therapy is influenced by previous treatment and response to it, duration of remission, comorbidities and patient preference.

For people who have had at least 2 prior therapies:

- NICE technology appraisal guidance 171 recommends lenalidomide plus dexamethasone as a treatment option for people who have had at least 2 previous therapies.

- NICE technology appraisal guidance 380 recommends panobinostat plus bortezomib and dexamethasone as a treatment option for adults who have had at least 2 previous therapies including bortezomib and an immunomodulatory agent.

- NICE technology appraisal guidance 505 recommends ixazomib citrate plus lenalidomide and dexamethasone for use within the Cancer Drugs Fund as a treatment option for adults who have had 2 or 3 previous therapies.

For people who have had at least 3 prior therapies:

- NICE technology appraisal guidance 427 recommends pomalidomide plus low-dose dexamethasone as a treatment option for adults who have had at least 3 previous treatments including both lenalidomide and bortezomib.

- NICE technology appraisal guidance 783 recommends daratumumab monotherapy for use as a treatment option for adults who have had 3 previous therapies including a proteasome inhibitor and an immunomodulator.

- NICE technology appraisal guidance 658 recommends isatuximab plus pomalidomide and dexamethasone for use within the Cancer Drugs Fund as a treatment option for adults who have had at least 3 previous treatments including both lenalidomide and a proteasome inhibitor.

Treatment options for people who have had at least 4 therapies are limited and will vary depending on a number of factors, such as response to prior treatments. People who have had at least 4 therapies can have pomalidomide plus dexamethasone (NICE technology appraisal guidance 427), and panobinostat with bortezomib and dexamethasone (NICE technology appraisal guidance 380). Other drug combinations that people who have had at least 4 therapies can have include a combination of chemotherapy with or without a steroid and with or without thalidomide as well as enrolment into clinical trials and compassionate use schemes.

The technology

Belantamab mafodotin (BLENREP, GlaxoSmithKline) has a marketing authorisation in the UK for treating adults with multiple myeloma who have had at least 4 prior therapies and whose disease is refractory to at least:

- one proteasome inhibitor
- one immunomodulatory agent
- an anti-CD38 monoclonal antibody

and who have demonstrated disease progression on the last therapy.

Intervention	Belantamab mafodotin
Population	Adults with relapsed or refractory multiple myeloma who have had at least 4 prior therapies, and whose disease is refractory to at least 1 proteasome inhibitor, 1 immunomodulatory agent, and an anti-CD38 monoclonal antibody, and whose disease has progressed on the last therapy
Comparators	Established clinical management without belantamab mafodotin including: • Pomalidomide plus dexamethasone • Panobinostat with bortezomib and dexamethasone • Chemotherapy with or without a steroid and with or without thalidomide
Outcomes	The outcome measures to be considered include: • overall survival • progression-free survival • response rates • time to next treatment • adverse effects of treatment • health-related quality of life.

Economic analysis	The reference case stipulates that the cost effectiveness of treatments should be expressed in terms of incremental cost per quality-adjusted life year. If the technology is likely to provide similar or greater health benefits at similar or lower cost than technologies recommended in published NICE technology appraisal guidance for the same indication, a cost comparison may be carried out. The reference case stipulates that the time horizon for estimating clinical and cost effectiveness should be sufficiently long to reflect any differences in costs or outcomes between the technologies being compared. Costs will be considered from an NHS and Personal Social Services perspective. The availability of any commercial arrangements for the intervention, comparator and subsequent treatment technologies will be taken into account. The availability and cost of biosimilar and generic products should be taken into account.
Other considerations	Guidance will only be issued in accordance with the marketing authorisation. Where the wording of the therapeutic indication does not include specific treatment combinations, guidance will be issued only in the context of the evidence that has underpinned the marketing authorisation granted by the regulator.
Related NICE recommendations	**Related Technology Appraisals:** 'Daratumumab monotherapy for treating relapsed and refractory multiple myeloma' (2022). NICE Technology appraisal guidance 83. Review date to be confirmed. 'Carfilzomib with dexamethasone and lenalidomide for previously treated multiple myeloma' (2021). NICE Technology appraisal guidance 695. Review date April 2024. 'Isatuximab with pomalidomide and dexamethasone for treating relapsed and refractory multiple myeloma' (2020). NICE Technology appraisal guidance 658. Review date to be confirmed. 'Carfilzomib for previously treated multiple myeloma' (2020). NICE Technology appraisal guidance 657. Review date November 2023. 'Lenalidomide for the treatment of multiple myeloma in people who have received at least 2 prior therapies'

	(2019). NICE Technology appraisal guidance 171. No current plans to review this guidance. 'Lenalidomide plus dexamethasone for previously untreated multiple myeloma' (2019). NICE Technology appraisal guidance 587. Review date June 2022. 'Lenalidomide plus dexamethasone for multiple myeloma after 1 treatment with bortezomib' (2019). NICE Technology appraisal guidance 586. Review date June 2022. 'Daratumumab with bortezomib and dexamethasone for previously treated multiple myeloma' (2019). NICE Technology appraisal guidance 573. Review date to be confirmed. 'Ixazomib with lenalidomide and dexamethasone for treating relapsed or refractory multiple myeloma' (2018). NICE Technology appraisal guidance 505. Review ongoing. 'Pomalidomide for multiple myeloma previously treated with lenalidomide and bortezomib' (2017). NICE Technology appraisal guidance 427. Review date to be confirmed. 'Panobinostat for treating multiple myeloma after at least 2 previous treatments' (2016). NICE Technology appraisal guidance 380. No current plans to review this guidance. 'Bortezomib monotherapy for relapsed multiple myeloma' (2007). NICE Technology appraisal guidance 129. No current plans to review this guidance. **Related appraisals in development:** 'Carfilzomib with daratumumab and dexamethasone for treating relapsed or refractory multiple myeloma' NICE technology appraisal guidance [ID2709]. Publication expected October 2022. 'Ciltacabtagene autoleucel for treating relapsed or refractory multiple myeloma' NICE technology appraisal guidance [ID3816]. Publication date to be confirmed. 'Idecabtagene vicleucel for treating relapsed and refractory multiple myeloma in people who have received at least 3 prior therapies' NICE technology appraisal guidance [ID1442]. Publication date to be confirmed. 'Isatuximab with pomalidomide and dexamethasone for treating relapsed and refractory multiple myeloma

	[Review of TA658]' NICE technology appraisal guidance [ID4067]. Publication date to be confirmed. 'Ixazomib with lenalidomide and dexamethasone for treating relapsed or refractory multiple myeloma (CDF review of TA505)' NICE technology appraisal guidance [ID1635]. Publication date to be confirmed. 'Selinexor with bortezomib and low-dose dexamethasone for treating relapsed refractory multiple myeloma' NICE technology appraisal guidance [ID3797]. Publication date to be confirmed. **Related Guidelines:** 'Myeloma: diagnosis and management' (2018). NICE guideline 35. No current plans to review this guidance. 'Haematological cancers: improving outcomes' (2016). NICE guidance 47. No current plans to review this guidance.
Related National Policy	The NHS Long Term Plan, 2019. NHS Long Term Plan NHS England (2018/2019) NHS manual for prescribed specialist services (2018/2019). Chapter 29: blood and marrow transplantation services (adults and children) Department of Health and Social Care, NHS Outcomes Framework 2016-2017 (published 2016): Domains 1 and 2**Error! Hyperlink reference not valid.**

References

1. Cancer Research UK, Myeloma incidence statistics. Accessed May 2022.
2. United Kingdom Fact sheet, International Agency for Research on Cancer. Accessed May 2022.
3. Cancer Research UK, Myeloma survival statistics. Accessed May 2022.
4. Cancer Research UK, Myeloma statistics. Accessed May 2022.