

Report Tecvayli® - teclistamab

| Product & Mechanism of action | Authorized indications Licensing status | Essential therapeutic features | NHS impact |
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| <p>Substance: teclistamab</p> <p>Brand Name: Tecvayli</p> <p>Originator/licensee: Janssen-Cilag International N.V.</p> <p>Classification: NCE</p> <p>ATC code: /</p> <p>Orphan Status: Eu: Yes Us: No</p> <p>Mechanism of action: Teclistamab is a bispecific antibody that targets the CD3 receptor expressed on the surface of T cells and BCMA, which is expressed on the surface of malignant multiple myeloma B-lineage cells [1].</p> | <p>Authorized Indication: EMA: teclistamab is indicated as monotherapy for the treatment of adults with relapsed and refractory multiple myeloma, who have received at least three prior therapies, including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 antibody and have demonstrated disease progression on the last therapy [1].</p> <p>Route of administration: SC</p> <p>Licensing status EU CHMP P.O. date: 21/07/2022 FDA M.A. date: /</p> <p>EU Speed Approval Pathway: No FDA Speed Approval Pathway: /</p> <p>-----</p> <p>ABBREVIATIONS: AE: Adverse Event BCMA: B cell maturation antigen CHMP: Committee for Medicinal products for Human Use CRS: Cytokine Release Syndrome FIH: First in human ICANS: immune effector cell–associated neurotoxicity syndrome M.A.: Marketing Authorization MM: Multiple Myeloma MRD: minimal residual disease ORR: overall response rate P.O.: Positive Opinion Pts: patients Yrs: years</p> | <p>Summary of clinical EFFICACY: <u>MajesTEC-1 (NCT04557098)</u> is a phase I/II, FIH, open-label, dose escalation study of teclistamab in pts aged ≥ 18 yrs, who had relapsed or refractory MM after at least three therapy lines. Including triple-class exposure to an immunomodulatory drug, a proteasome inhibitor and an anti-CD38 antibody. The primary end-point was the ORR (partial response or better). Pts (N=165) received teclistamab 1.5 mg/kg once weekly, after receiving step-up doses of 0.06 mg and 0.3 mg/kg. With a median follow-up of 14.1 months, the ORR was 63.0%, with 65 pts (39.4%) having a complete response or better. A total of 44 pts (26.7%) were found to have no MRD; the MRD-negativity rate among the pts with a complete response or better was 46% [2].</p> <p>Summary of clinical SAFETY: Common AEs included CRS (in 72.1% of the pts; grade 3, 0.6%; no grade 4), neutropenia (in 70.9% of the pts; grade 3 or 4, 64.2%), anemia (in 52.1% of the pts; grade 3 or 4, 37.0%), and thrombocytopenia (in 40.0% of the pts; grade 3 or 4, 21.2%). Infections were frequent (in 76.4% of the pts; grade 3 or 4, 44.8%). Neurotoxic events occurred in 24 pts (14.5%), including ICANS in 5 pts (3.0%; all grade 1 or 2) [2].</p> <p>Ongoing studies:</p> <ul style="list-style-type: none"> • <i>For the same indication:</i> Yes • <i>For other indications:</i> Yes <p>Discontinued studies (for the same indication): No</p> <p>References:</p> <p>[1]. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/tecvayli</p> <p>[2]. https://www.nejm.org/doi/10.1056/NEJMoa2203478?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed</p> <p>[3]. https://pubmed.ncbi.nlm.nih.gov/30470751/</p> <p>[4]. https://www.io.nihr.ac.uk/wp-content/uploads/2022/01/30599-Teclistamab-for-Multiple-Myeloma-V1.0-JAN2022-NON-CONF.pdf</p> | <p>Cost of therapy: Price is not available yet.</p> <p>Epidemiology: MM is a plasma cell neoplasm that accounts for 1%-1.8% of all cancers and is the second most common hematological malignancy with an estimated incidence in Europe of 4.5-6.0/100,000/year. Despite the significant improvement in patient's survival over the past 20 years, only 10%-15% of pts achieve or exceed expected survival compared with the matched general population [3].</p> <p>-----</p> <p>POSSIBLE PLACE IN THERAPY NICE guidelines recommend Pomalidomide in combination with low-dose dexamethasone, for treating MM in adults at third or subsequent relapse; that is, after three previous treatments including both lenalidomide and bortezomib [4].</p> <p>OTHER INDICATIONS IN DEVELOPMENT: No</p> <p>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: No</p> <p>OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: No</p> <p>*Service reorganization: No *Possible off label use: No</p> |