

Report PONVORY® Ponesimod

| Product & Mechanism of action | Authorized indications Licensing status | Essential therapeutic features | NHS impact |
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| <p>Substance: ponesimod</p> <p>Brand Name: Ponvory®</p> <p>Originator/licensee: Janssen-Cilag International N.V.</p> <p>Classification: NCE</p> <p>ATC code: L04AA50 [1]</p> <p>Orphan Status: Eu:No Us:No</p> <p>Mechanism of action: ponesimod is a selective immunosuppressant. It binds with high affinity to S1P receptor located on lymphocytes, blocking the capacity of lymphocytes to egress from lymph nodes and reducing the number of lymphocytes in peripheral blood. [2]</p> | <p>Authorized Indication: EMA: ponesimod is indicated for the treatment of adult pts with RMS with active disease defined by clinical or imaging features. [2]</p> <p>FDA: ponesimod is indicated for the treatment of RMS, to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults. [3]</p> <p>Route of administration: OS</p> <p>Licensing status EU CHMP P.O. date: 25/03/2021 FDA M.A. date: 18/03/2021</p> <p>EU Speed Approval Pathway: No</p> <p>FDA Speed Approval Pathway: No</p> <p>ABBREVIATIONS: AESI: adverse event of special interest AISM: associazione italiana sclerosi multipla ALT: alanine aminotransferase ARR: annualized relapse rate AST: aspartate aminotransferase CHMP: Committee for Medicinal Products for Human Use M.A.: Marketing Authorization MS: multiple sclerosis OS: oral administration P.O.: Positive Opinion Pts: patients RMS: relapsing multiple sclerosis RR: relapsing-remitting RRMS: relapsing-remitting multiple sclerosis SAE: serious adverse event S1P: sphingosine 1-phosphate TEAE: treatment-emergent adverse event URTI: upper respiratory tract infection</p> | <p>Summary of clinical EFFICACY: OPTIMUM(NCT02425644) is a phase 3, multicenter, double-blind, active-comparator, superiority randomized clinical trial designed to compare ponesimod vs. teriflunomide in pts with RMS. 1,133 pts were randomized (1:1) to 20 mg ponesimod or 14 mg teriflunomide once daily for 108 weeks. The primary efficacy endpoint was the ARR based on the number of confirmed relapses per patient-year from randomization to the end of the study. Ponesimod reduced ARR by 30.5% compared with teriflunomide (mean ARR, 0.202 vs 0.290; rate ratio, 0.695 [99% confidence limits, 0.536-0.902]; p<0.001). [4]</p> <p>Summary of clinical SAFETY: The proportion of pts who had at least one TEAE was similar between the two groups (ponesimod 88.8% vs. teriflunomide 88.2%). The most common TEAEs reported in at least 5% of pts treated with ponesimod, occurring with higher frequency compared to the teriflunomide group, are the following: an increased ALT level (19.5% vs 9.4%), nasopharyngitis (19.3% vs 16.8%), URTI (10.6% vs 10.4%), hypertension (8.0% vs 7.8%), an increased AST level (6.4% vs 3.5%), urinary tract infection (5.7% vs 5.1%), dyspnea (5.3% vs 1.2%) and dizziness (5.0% vs 2.7%) [5]. The proportion of pts who had at least one treatment-emergent SAE was similar in both treatment arms (8.7% vs 8.1%). Overall, TEAEs leading to treatment discontinuation were more frequent in the ponesimod group (8.7% vs. 6.0%). Two patients in the teriflunomide group died; both deaths were considered not associated with the study drug. [4]</p> <p>Ongoing studies:</p> <ul style="list-style-type: none"> • For the same indication: Yes • For other indications: No <p>Discontinued studies (for the same indication): Yes</p> <p>References:</p> <ol style="list-style-type: none"> 1. https://www.whooc.no/ddc/lists_of_temporary_atc_ddds_and_alterations/atc_codes/ 2. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/ponvory 3. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/213498s000lbl.pdf 4. Kappos L, Fox RJ, et al.: Ponesimod Compared With Teriflunomide in Patients With Relapsing Multiple Sclerosis in the Active-Comparator Phase 3 OPTIMUM Study: A Randomized Clinical Trial. 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Based on a recent study conducted by AISM, the total number of people with MS in Italy is over 118'000. [6] RRMS is the most common form of the disease: about 85% of pts with MS have a RR disease onset; in about 65% of cases this form evolves towards the secondary progressive form. [7]</p> <p>-----</p> <p>POSSIBLE PLACE IN THERAPY There are several available drugs for the treatment of RRMS: beta interferons, peginterferon beta-1a, glatiramer acetate, teriflunomide, dimethylfumarate, cladribine, fingolimod, daclizumab, natalizumab, ocrelizumab and alemtuzumab. The choice of the treatment depends on some factors, such as patient characteristics and comorbidities, disease severity/activity, drug safety profile and accessibility of the drug. [8]</p> <p>OTHER INDICATIONS IN DEVELOPMENT: No. [9][10]</p> <p>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: No. [9]</p> <p>OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: Ozanimod, fenebrutinib, tolebrutinib, ublituximab, evobrutinib, masitinib, daclizumab. [11][12]</p> <p>*Service reorganization: No *Possible off label use: No</p> <p>Notes: The ongoing long-term extension study investigates safety, tolerability and disease control of ponesimod 20 mg in pts with RMS (OPTIMUM-LT; NCT03232073). [13]</p> |