

Report KESIMPTA® ofatumumab

Product Mechanism of action	Authorized indications Licensing status	Essential therapeutic features	NHS impact
<p>Substance: Ofatumumab</p> <p>Brand Name: Kesimpta®</p> <p>Originator/licensee: Novartis Ireland Ltd</p> <p>Classification: NCE</p> <p>ATC code: L01XC10</p> <p>Orphan Status:</p> <p>ES: No USA: No</p> <p>Mechanism of action: a fully human monoclonal antibody that targets a receptor called CD20 expressed on the B-cells, that provides rapid B-cell depletion.</p>	<p>Authorized Indication: EMA: Ofatumumab is indicated for the treatment of adult pts with relapsing forms of multiple sclerosis (RMS) with active disease defined by clinical or imaging features</p> <p>FDA: Ofatumumab is indicated for the treatment of relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults.</p> <p>Route of administration: SC</p> <p>Licensing status CHMP positive opinion: 28/01/2021 FDA M.A. date: 20/08/2020</p> <p>EU Speed Approval Pathway: No FDA Speed Approval Pathway: No</p> <p>----- ABBREVIATIONS: AIMS: Associazione Italiana Sclerosi Multipla ARR: Annualized Relapse Rate CDP: Confirmed Disability Progression DH: Day Hospital EDSS: Expanded Disability Status Scale IV: intravenously MS: Multiple Sclerosis Pts: patients RRR: Relative risk reduction SC: subcutaneous</p>	<p>Summary of clinical EFFICACY: The ASCLEPIOS I (NCT02792218) and ASCLEPIOS II (NCT02792231) studies are twin, identical design, flexible duration (up to 30 months), double-blind, randomized, multi-center Phase III studies. The ASCLEPIOS I and II studies enrolled 1,882 pts with MS, 18-55 years of age, EDSS score between 0 and 5.51. Ofatumumab demonstrated a significant reduction in ARR (primary endpoint) by 51% (0.11 vs 0.22) and 59% (0.10 vs 0.25) compared with teriflunomide (p<.001 in both studies) in ASCLEPIOS I and II, respectively. Ofatumumab also showed a RRR of 34.4% (p=.002) in 3-month CDP compared with teriflunomide in a pre-specified meta-analysis, as defined in ASCLEPIOS I. Ofatumumab significantly reduced the mean number of both Gd+ T1 lesions (98% and 94% RRR in ASCLEPIOS I and II, respectively, both p<.001) and new or enlarging T2 lesions (82% and 85% RRR in ASCLEPIOS I and II, respectively, both P<.001) vs. teriflunomide. [1]</p> <p>Summary of clinical SAFETY: Ofatumumab had a similar safety profile to teriflunomide, with the frequency of serious infections and malignancies also being similar across both treatment groups. Upper respiratory tract infection, headache, injection-related reactions, and local injection site reactions were the most commonly observed adverse reactions with Ofatumumab (incidence >10%). Injection-related reactions occurred in 20.2% in the ofatumumab group and in 15.0% in the teriflunomide group (placebo injections). Serious infections occurred in 2.5% and 1.8% of the pts, respectively. [1]</p> <p>Ongoing studies:</p> <ul style="list-style-type: none"> • For the same indication: Yes, NCT03650114 • For other indications: Yes <p><i>[Fase III, but if it is an O/OE drug, also Fase II]</i></p> <p>Discontinued studies (for the same indication): No</p> <p>References</p> <ol style="list-style-type: none"> 1. Hauser SL, Bar-Or A, Cohen JA, et al. ASCLEPIOS I and ASCLEPIOS II Trial Groups. Ofatumumab versus Teriflunomide in Multiple Sclerosis. <i>N Engl J Med.</i> 2020 Aug 6;383(6):546-557. doi: 10.1056/NEJMoa1917246. 2. https://www.express-scripts.com/corporate/articles/fda-approved-drugs-september-2020 3. https://www.epicentro.iss.it/sclerosi-multipla/epidemiologia 4. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/kesimpta 5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6281141/ 6. https://www.micromedexsolutions.com/home/dispatch 7. https://mymsaa.org/news/fda-approves-ofatumumab-the-first-self-administered-b-cell-therapy-for-relapsing-forms-of-ms/ 	<p>Cost of therapy In USA estimated wholesale acquisition cost (WAC) per dose is roughly \$6,900 (a single dose is a prefilled syringes and pen devices containing 20mg of Ofatumumab for SC injection).</p> <p>Posology: 20 mg every 4 weeks after 20-mg loading doses at days 1, 7, and 14. [2]</p> <p>Epidemiology In Italy MS has a prevalence of 113/100.000 and it is estimated that 68.000-75.000 people are affected with MS with 1800-2000 new cases every year. [3] Based on a recent study conducted by AISM, the total number of people with MS in Italy is over 118.000. [3] Relapsing-remitting MS is the most common form of the disease: about 85% of pts with MS have a relapsing-remitting disease onset; in about 65% of cases this form evolves towards the secondary progressive form. [4]</p> <p>----- POSSIBLE PLACE IN THERAPY Currently, most disease-modifying agents (immunomodulating or immunosuppressives) have been approved for use only in relapsing forms of MS. For pts with RMS who have failed previous therapies the use of natalizumab (second-line treatment) is recommended [5] [6]</p> <p>OTHER INDICATIONS IN DEVELOPMENT B-Cell Lymphomas, Small Lymphocytic Lymphoma, Chronic Lymphocytic Leukemia</p> <p>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT NO</p> <p>OTHER DRUGS IN DEVELOPMENT FOR THE SAME INDICATION Yes ----- *Service reorganization Y/N Yes (no more DH IV injection) [7] *Possible off label use Y/N Yes ----- NOTES Unlike the previously approved B-cell therapy Ocrevus (ocrelizumab), Kesimpta will be available as a subcutaneous injection that is auto-administered once monthly directly by the patient. This constitute a great advantage, allowing patients to receive the treatment at home. [4] [7]</p>