Report Bimzelx® - Bimekizumab

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features										NHS impact		
Substance: Bimekizumab Brand Name: Bimzelx® Originator/lic ensee: UCB Pharma S.A. Classification: NCE ATC code: L04AC21 Orphan Status: Eu: No Us: - Mechanism	Authorized Indication: EMA: Bimekizumab is indicated for the treatment of MSPP in adults who are candidates for systemic therapy [1]. Route of administration: SC Licensing status EU CHMP P.O. date: 24/06/2021 FDA M.A. date: - EU Speed Approval Pathway: No ABBREVIATIONS: ADA:Adalimumab Adj:Adjusted AE:Adverse event BIM: Bimekizumab CHMP:Committee for Medicinal Products for Human Use CI: Confidence Interval IIca: Investigator's Global Assessment II: Interleukin M.A.: Marketing Authorization P.O.: Positive Opinion MSPP:Moderate-to-Severe Plaque Psoriasis PASI90: 90% or greater improvement from baseline in the PASI pts:patients Q4W: Every four weeks Q8W: Every eight weeks RD: Risk Difference SC: Subcutaneous TEAE:Treatment-emergent AE URTI:Upper respiratory tract infection UST: Ustekinumab	Summary of clinical EFFICACY: BE READY trial (NCT03410992): is a phase 3, multicentre, randomised, double-blind, placebo-controlled trial; 435 adults (≥18 yrs) with MSPP were randomly assigned (4:1) to receive BIM 320 mg Q4W (n = 349) or placebo (n=86) for initial treatment. Coprimary endpoints were the proportion of pts achieving PASI90 and an IGA score of 0 or 1*, both at week 16. At week 16, PASI90 was achieved by 317 (91%) pts in the BIM group vs. one (1%) in the placebo group (RD 89.8 [95% CI 86.1-93.4] p<0.0001). An IGA score of 0 or 1 was achieved by 323 (93%) BIM arm vs. one (1%) in the placebo arm (RD 91.5 [95% CI 88.0-94.9] p<0.0001) [2]. BE VIVID trial (NCT03370133): is a phase 3, multicentre, randomised, double-blind, active comparator and placebo-controlled trial where 567 adult pts with MSPP were randomly assigned (4:2:1) to receive BIM 320 mg Q4W (n=321), UST 45 mg or 90 mg at weeks 0 and 4, then Q12W (n= 163), or placebo Q4W (n=83). The coprimary efficacy endpoints were the proportion of pts achieving PASI90 and an IGA score of 0 or 1, both at week 16. 273 (85%) pts in the BIM group had PASI90 at week 16, compared with 81 (50%) in the UST group (RD 35 [95%CI 27-43] p<0.0001) and four (5%) in the placebo group (RD 80 [95% CI 74-86] p<0.0001). 270 (84%) pts receiving BIM had an IGA response at week 16, compared with 87 (53%) receiving UST (RD 30 [95% CI 22-39] p<0.0001) and four (5%) of 83 receiving placebo (RD 79 [95% CI 73-85]; p<0.0001) [3]. BE SURE trial (NCT03412747): is a phase 3, multicentre, randomised, double-blind trial; 478 adults with MSPP were randomly assigned in a 1:1:1 ratio to receive SC BIM 320 mg Q4W for 56 weeks (n=158); SC BIM 320 mg Q4W for 16 weeks then Q8W for weeks 16 to 56 (n=161); or SC ADA 40 mg Q2W for 24 weeks, followed by BIM 320 mg Q4W to week 56 (n=159). The primary endpoints were the proportion of pts achieving PASI90 and an IGA score of 0 or 1, both at week 16. 275 pts (86.2%) who received BIM and 1GA score of 0 or 1 (adj. RD, 28.2 [95% CI, 19.7-36.7] p<0.001										Cost of therapy:Not available. Epidemiology:plaque psoriasis is the most frequent clinical variant of psoriasis. In the general Italianpopulationit is estimated at 2.8%, with a higher frequency in males. It is estimated that about 1,500,000 Italians are affected by the disease [5] [6]. POSSIBLE PLACE IN THERAPY Systemic treatments for MSPP approved in Italy include either phototherapy, narrowband UV B light, or photochemotherapy (i.e. psoralen plus UVA light), and systemic agents such as cyclosporine, methotrexate, acitretin, apremilast, TNF-1 blockers (etanercept, infliximab, adalimumab), ustekinumab and secukinumab [7]. Recently, certolizumab, brodalumab, dimethyl fumarate, ixekizumab, tildrakizumab and guselkumab		
of action: Bimekizumab		Tuble 1: TEAES III the sujety population.		READY ks 0-16)		BE VIVID (Weeks 0-16)			BE SURE (Weeks 0-24)]	received authorization for th treatment of MSPP in adults who ar		
is arecombinant humanised IgG1 monoclonal antibody that works by inhibiting IL- 17A and IL- 17F signalling[1].		Any TEAE Serious TEAEs Drop-out due to TEAEs Deaths **Safety results refer to weeks 0-16 for BE REA Ongoing studies: • For the same indication: Yes (No • For other indications: Yes Discontinued studies (for the same References: [1]. https://www.ema.europa.eu/en/medicines/hu [2]. Gordon K. B., et al. Bimekizumab efficacy and s [3]. Reich K., et al. Bimekizumab versus ustekinum: Lancet 2021; 397: 487-98 [4]. Warren R. B., et al. Bimekizumab versus Adalin [5]. https://www.ordinemedicilatina.it/files/LG_Ps [6]. Gruppo di lavoro multidisciplinare in dermatola Aggiornamento maggio 2019. Assessorato Cura de [7]. Gisondi P., Altomare G., et al.: Italian guideline [8]. https://clinicaltrials.gov/ct2/results?cond=&ter e&strd_e=&prcd_s=&prcd_e=&sfpd_s=&sfpd_e=& [10].https://clinicaltrials.gov/ct2/results?cond=&ter e&strd_e=&prcd_s=&prcd_e=&sfpd_s=	Placebo (n=86) 35 (41%) 2 (2%) 0 0 DY and BE VIVID CT03598790). e indication): man/summaries-o afety in moderate to b for the treatmen numab in Plaque Ps oriasi.pdf ggia Regione Emilia ia persona, Salute et on the systemic tr m=8type=8rsit=8tr fpd s=8trfpd e=8tr number systemic tr m=8type=8rsit=8tr fpd s=8trfpd e=8tr number systemic tr m=8type=8rsit=8tr number systemic tr m=8type=8rsit=8tr number systemic tr m=8type=8rsit=8tr number systemic tr m=8type=8rsit=8tr number systemic sys	BIM Q4W (n=349) 213 (61%) 6 (2%) 3 (1%) 0 Clinical trials and to NCT03536884 NO pinion/bimzelx to severe plaque psori t of moderate to seve oriasis. N Engl J Med 2 -Romagna. Trattamen e Welfare Regione Em eatments of moderat tecrs=b&recrs=a&recr	iasis (BE READY): a mu ere plaque psoriasis (B 2021; 385:130-141. nto sistemico della pso iilla Romagna. re-to-severe plaque ps s=f&recrs=d&recrs=e urt= s=b&recrs=a&recrs=f	BIM Q4W (n=321) 181 (56%) 5 (2%) 6 (2%) 1 (<1%) URE clinical trial. hed. stiticentre, double-blind E VIVID): efficacy and striasi cronica a placche roriasis. JEADV, 2017; 3	afety from a 52-we moderata-grave co. 1, 774–790. Bimekizumab&titles	ek, multicentre, doi n particolare riferin :=&outc=&spons=&	BIM Q4W → Q8W (n=161) 116 (72%) 1 (<1%) 6 (4%) 0 drawal phase 3 trial. Lancet uble-blind, active comparate uble-blind affarmaci biotecnolog	r and placebo cont ici. Linee guida tera city=&dist=&locn=i	speutiche n.1. &phase=2&rsub=&strd_s	treatment of MSPP in adults who are candidates for systemic therapy [8]. OTHER INDICATIONS IN DEVELOPMENT: Ankylosing Spondylitis (NCT03355573); Hidradenitis Suppurativa (NCT04901195); Axial Spondyloarthritis (NCT04436640); Psoriatic Arthritis (NCT04009499) [9]. SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: - OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: SHR-1314; SB17 (Proposed Ustekinumab Biosimilar); CF101; Mirikizumab; BMS-986165; Risankizumab [10]. *Service reorganization: No *Possible off label use: Yes		