Health technology assessment (HTA) and reimbursement decisions for the new anti-IL-13 monoclonal antibody lebrikizumab for patients with moderate-to-severe atopic dermatitis (AD) in Europe

Laia Solé-Feu¹, Bülent Akmaz¹, Jean Michel Joubert², Matthew Cressey³, Maria del Barrio¹

¹Global Market Access, Pricing and Medical Affairs, Almirall S.A., Barcelona, Spain.

²Affaires Gouvernementales, Almirall SAS, Issy-les-Moulineaux, Paris, France. ³Value and Access, Almirall Ltd, London, UK.

Almirall, S.A. has licensed the rights to develop and commercialize lebrikizumab for the treatment of dermatology indications, including atopic dermatitis, in Europe. Lilly has exclusive rights for the development and commercialization of lebrikizumab in the United States and the rest of the world outside of Europe.

BACKGROUND & OBJECTIVE

- Almirall applied for reimbursement to the national health technology assessment (HTA) bodies across Europe and the United Kingdom for lebrikizumab, an anti-interleukin-13 monoclonal antibody approved by the EMA and the MHRA for the treatment of moderate-to-severe atopic dermatitis (AD).
- This analysis illustrates the complexity of adapting the regulatory clinical package to local HTA requirements in three key European countries.

CONCLUSION

- Based on this targeted approach to meet local HTA agencies' requirements, lebrikizumab has been positively recommended for reimbursement in Germany, France, and the United Kingdom.
- The robustness of the clinical data presented, together with the PICO methodology delivered was reinforced from the G-BA/IQWiG, HAS and NICE outcomes.
- As a result, Almirall has been able to enable AD patients' access to lebrikizumab, covering an unmet need.

		ISPOR Europe 2024; Barcelona, Spain; November 17 – 20, 2024					
HTA by European country	GERMANY	Gemeinsamer Bundesausschuss IQWiG	FRANCE	HAS HAUTE AUTORITÉ DE SANTÉ	ENGLAND	NICE National Institute for Health and Care Excellence	
Clinical evidence submitted	EMA regulatory clidata from the three blind, placebo-constudies: - ADvocate 1 and (NCT04146363 and ADhere (NCT042)	and NCT04178967) ^{1,2} 250337) ³ ension study ADjoin	placebo-controlled F - ADvocate 1 and A - ADhere ³ - ADvantage (NCT)	Dvocate 2 ^{1,2} 5149313) sion study ADjoin of the	placebo-controlled - ADvocate 1 and - ADhere ³ - ADvantage - Data from the ext	ndomized, double-blind, d Phase 3 studies: I ADvocate 2 ^{1,2} ension study ADjoin of the 2, and ADhere trials.	
Target population for reimbursement	older with a body	scents aged 12 years and weight ≥40 kg with ere AD who are candidates	 Target subgroup of patients based on an additional efficacy/safety clinical trial of lebrikizumab (ADvantage): Adults and adolescents aged 12 years and older with a body weight ≥40 kg with moderate-to-severe AD who are candidates for systemic treatment and who have failed, are not adequately controlled or non-eligible for cyclosporine. 		 Adults and adolous older with a book moderate-to-set for systemic treates to ≥1 systemic in the sys	 Subgroup of patients: Adults and adolescents aged 12 years and older with a body weight ≥40 kg with moderate-to-severe AD who are candidates for systemic treatment and who have failed to ≥1 systemic immunosuppressant or are not suitable for these treatments. 	
Outcomes for decision making	and available in th	es pre-defined by G-BA e clinical study reports in lity, morbidity, quality of life,	or 1, ≥75% reduction Severity Index (EAS	ary outcomes of Assessment score of 0 in the Eczema Area an I 75), EASI 90, and ≥4- Pruritus Numeric Ratin	reduction in the Dand Index. EASI 75 was access	ne of EASI 50 plus ≥4-point ermatology Life Quality epted as proxy due to he combined outcome for all	
Head-to-head / Indirect comparisons	and/or topical calc determined by the comparator therap	opical corticosteroids ineurin inhibitors) was G-BA as the appropriate yto-head comparative data		ndirect comparisons	comparing lebrikize comparators. Thus, a network response rate odd with biologics (du	nical trials directly zumab with its relevant neta-analysis to obtain ds comparing lebrikizumab pilumab and tralokinumab) s (upadacitinib, abrocitinib, as conducted.	
Pharmacoeconomic model	 the appropriate co To calculate the required number first determined The pharmaceut calculated based 	mparison was done with mparator (dupilumab) annual therapy costs, the of packs by potency was based on consumption. I cal costs were then statutory discounts, using acks by potency.	No pharmacoeconor evaluated.	nic model was	a short-term (1 ye treatment induction model (year 2 on) The model structure previous NICE metals.	s model which consisted of ear) decision tree capturing on and a long-term Markov wards) in a lifetime horizon. are was aligned with altiple technology appraisal itinib, abrocitinib, and reating AD.	
Evaluation	from G-BA/IQWiG results from the the to the EMA label.	ived a positive evaluation based on the clinical ree pivotal trials, according d benefit was determined.	service) provided by "Important" in the po- controlled or non-elig The ASMR level was	pulation not adequately gible for cyclosporine. S V (no added therapeution of care)	 effective against i Cost-effectivenes compared with cu ic (dupilumab or tral 	nonstrated to be cost ts class (biologics). s estimates for lebrikizumation rrent biological medicines okinumab) were within the considers a cost-effective irces.	

METHODS

■ In the absence of the EU having an overarching and unified approach to HTA (EU HTA), Almirall prepared specific HTA dossiers by country: G-BA/IQWiG in Germany, HAS in France, and NICE in England.

References

- 1. Silverberg JI, et al. Two Phase 3 Trials of Lebrikizumab for Moderate-to-Severe Atopic Dermatitis. N Engl J Med. 2023;388:1080–91. 2. Blauvelt A, et al. Efficacy and safety of lebrikizumab in moderate-to-severe atopic dermatitis: 52-week results of two randomized
- double-blinded placebo-controlled phase III trials. Br J Dermatol. 2023;188:740-8. 3. Simpson EL, et al. Efficacy and safety of lebrikizumab in combination with topical corticosteroids in adolescents and adults with
- moderate-to-severe atopic dermatitis. JAMA Dermatol. 2023;159:182-191

Acknowledgments The authors would like to thank TFS HealthScience for their writing and editorial contributions. This bespoke approach was based on the regulatory clinical package of lebrikizumab, the PICO (Patient, Intervention or exposure, Comparator, Outcome) methodology, and the local HTA requirements.

Abbreviations

AD=atopic dermatitis; ASMR=amélioration du service medical rendu; EASI=Eczema Area and Severity Index; EMA=European Medicines Agency; EU=European Union; G-BA=Gemeinsamer Bundesausschuss; HAS=Haute Autorité de Santé; HTA=health technology assessment; IQWiG=Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen; JAK=Janus kinase; MAIC=matching-adjusted indirect comparison; MHRA=Medicines and Healthcare products Regulatory Agency; NHS=National Health Service; NICE=National Institute for Health and Care Excellence; PICO=Patient, Intervention, Comparator, Outcome; SMR=service médical rendu.

Disclosures

LS-F, BA, JMJ, MC, and MdB are employees of Almirall

