## Report ADTRALZA® Tralokinumab

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Product &	Authorized	Essential therapeutic features					NHS impact	
Mechanism of	indications							
action	Licensing status							
Substance:	Authorized Indication:	Summary of clinical EFFICACY:					Cost of therapy:	
Tralokinumab	EMA: tralokinumab is	ECZTRA 1 (NCT03131648) and ECZTRA 2 (NCT03160885): were identically designed 52-week, multinational, randomized, double-					In US a single dose of Tralukinumab costs \$1,601.70 (300 mg Q2W), while the yearly price is \$31,131.56. [5]	
	indicated for the							
Brand Name:	treatment of MSAD in	therapy due to inadequate response to topical treatment were recruited. Pts were randomized 3:1 to subcutaneous Tralokinumab					Epidemiology:	
Adtralza®	adults who are	300 mg Q2W, after a 600-mg loading dose on day 0, or placebo for 16 weeks. Pts achieving an IGA score of 0 or 1 and/or EAS reduction >75% with Tralokinumab at week 16 were re-randomized 2:2:1 to Tralokinumab Q2W or Q4W or placebo, for 36 week					Among adults AD has a prevalence of 2%–10% in Europe and	
	candidates for systemic	_		, for 36 weeks	6.6% in Italy. [6,7]			
Originator/licensee:	therapy. [2]	(maintenance treatment period).					0.070 111 (6,7)	
Leo Pharma A/S		Primary endpoints were IGA score of 0 or 1 and at least 75% reduction in EASI at week 16 and at week 52 (maintenance end points)					POSSIBLE PLACE IN THERAPY Emollients and topical corticosteroids are 1st-line therapies;	
	Route of [3] administration: SC ECZTRA 3 (NCT03363854): is a 32-week, multinational, randomized, double-blind, placebo-controlled, phase of the control of t							
Classification: NCE	administration: SC	,				,	topical calcineurin inhibitors are 2nd-line options, while	
		criteria of study population are the same as in the ECZTRA 1 and ECZTRA 2. The primary endpoints were IGA score of 0 or 1 and at					phototherapy and ciclosporin are considered as 3rd and 4th-	
ATC code: D11AH07	least 75% reduction in EASI at week 16. Pts were randomized 2:1 to sc Tralokinumab. 300 mg with TCS or placebo with TCS C						·   Inic options, respectively.	
Oughan Cost	Licensing status						Dupilumab and Baricitinib are recommended if the pt has not	
Orphan Status:	EU CHMP P.O. date:	Tralokinumab. at week 16 were re-randomized 1:1 to T. Q2W or Q4W or placebo with TCS, for another 16 weeks. [4]					responded at least to one systemic therapy (5th-line) [6,8]	
Eu: No	22/04/2021	Efficacy outcome of ECZTRA 1. Results are expressed as difference vs. placebo (95% CI):					OTHER INDICATIONS IN DEVELOPMENT	
Us: No	FDA M.A. date: -		At 16 W	At 52 W			Asthma, Idiopathic Pulmonary Fibrosis asthma, alopecia areata [9,10]	
Mashaulau of	FIL Coard Assessed	IGA score	8.6% (CI 4.1-13.1)**	Q2W and Q4W were not sta	atistically			
Mechanism of	EU Speed Approval	EASI 75	12.1% (CI 6.5-17.7)***	significant for both primary e	ndpoints			
action: Tralokinumab is an	Pathway: No	L					SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: No	
IL-13-neutralising	FDA Speed Approval	Efficacy outcom	ne of ECZTRA 2. Results are expr	essed as difference vs. placebo (95	% CI):		OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION:	
human IgG4	Pathway: -		At 16 W	At 52 W Q2W	At 52 W Q4W		Yes: Nemolizumab, Ruxolitinib, Benralizumab, Lebrikizumab,	
monoclonal	ABBREVIATIONS:	IGA score	11.1% (CI 5.8-16.4)***	34.1% (CI 13.4-54.9)**	19.9% (CI 1.2-40.9) ns		Bermekimab, Upadacitinib, rizankizumab, Mepolizumab,	
antibody; IL-13 is	AD: Atopic Dermatitis	EASI 75	21.6% (CI 15.8-27.3)***	33.7% (CI 17.3-50.0)***	30.0% (CI 13.7-46.4)***		Secukinumab, Etrasimod. [1,9]	
over expressed	AE: adverse event		,	·	,		, , , , ,	
locally and has a	CHMP: Committee for	-	ne of ECZTRA 3. Results at 16 W	*Service reorganization Y/N: No				
significant impact	Medicinal Products for	as % of pts that achieve IGA score 0/1 and EASI 75:					*Possible off label use Y/N: Yes	
on skin biology,	Human Use		At 16 W	At 32 W Q2W	At 32 W Q4W		Defense	
including the	<b>DLQI</b> : Dermatology Life Quality Index	IGA score	12.4% (CI 2.9-21.9)*	89.6% (CI 77.8-95.5) nr	77.6% (CI 64.1–87.0) nr		References: 1 https://adisinsight.springer.com/drugs/800019573	
recruitment of	EASI: Eczema Area and	rea and Policy   EASI 75   20.2% (CI 9.8-30.6)***   92.5% (CI 83.7–96.8) nr   90.8% (CI 81.3–95.7) nr   p<0.05; **P<0.01; ***P<0.001; ns = not significant nr = not reported					2 https://www.ema.europa.eu/en/medicines/human/summaries-opinion/adtralza	
inflammatory cells,	Severity Index						3 Wollenberg A, et al. Tralokinumab for moderate-to-severe atopic dermatitis:	
the alteration of the	EASI 50 75 90: 50% 75%	Summary of clinical SAFETY:					results from two 52-week, randomized, double-blind, multicentre, placebo-controlled phase III trials (ECZTRA 1 and ECZTRA 2). Br J Dermatol 2021;	
skin microbiome,	90% improvement in	1					437-449.	
and the decrease in	Eczema Area and Severity Index	pts receiving Tralokinumab vs. 77% of pts treated with placebo experienced AEs; in ECZTRA 3, 71.4% of subjects with Tralokinumab					4 Silverberg JI, et al. Tralokinumab plus topical corticosteroids for the treatment of moderate-to-severe atopic dermatitis: results from the double-blind, randomized,	
the epidermal	IGA: Investigator's Global	and 66.7% with placebo showed AEs.					multicentre, placebo-controlled phase III ECZTRA 3 trial. Br J Dermatol. 2021; 450-	
barrier function.	Assessment	The most frequently reported AEs in ECZTRA 1, 2 and 3 were: viral upper respiratory tract infection (23.1%, 8.3% and 19.4%,					463.	
Tralokinumab binds	IL-13: linterleukin 13	respectively) conjunctivitis (10%, 5.2% and 13.1%, respectively) eye disorders (10.3%, 5.6% and 13.5%, respectively). In ECZTRA 3					5 Atlas SJ, et al., JAK Inhibitors and Monoclonal Antibodies for the Treatment of Atopic Dermatitis: Effectiveness and Value; Draft Evidence Report. Institute for	
to IL-13 helices A	M.A.: Marketing	only headache (8.7%) was reported; six pts (2.4%) receiving Tralokinumab had AEs leading to permanent discontinuation vs. one pt					Clinical and Economic Review, May 14, 2021. https://icer.org/assessment/atopic-	
and D, thus	Authorization	(0.8%) in the placebo arm. No fatal AEs were reported. [3,4]					dermatitis-2021/#timeline	
preventing IL-13	MSAD: Moderate-to-Severe Atopic Dermatitis	SAEs were reported in a lower percentage of pts treated with Tralokinumab compared with those treated with placebo in all the					6 Wollenberg A, et al. European Task Force on Atopic Dermatitis/EADV Eczema Task Force. ETFAD/EADV Eczema task force 2020 position paper on diagnosis and	
from interacting	NRS: Numerical Rating Scale	three trials considered (ECZTRA 1: 3.8% with Tralokinumab vs. 4.1% with placebo; ECZTRA 2: 1,7% with Tralokinumab vs. 2.5% with					treatment of atopic dermatitis in adults and children. J Eur Acad Dermatol	
with IL-13Rα1 and	P.O.: Positive Opinion		A 3: 0,8% with Tralokinumab vs	Venereol. 2020 Dec;34(12):2717-2744. doi: 10.1111/jdv.16892. Epub 2020 Nov 17. PMID: 33205485.				
IL-13Rα2. [1]	pts: patients	•		7 Kowalska-Olędzka E, et al., Epidemiology of atopic dermatitis in Europe. J Drug				
	Q2W: every 2 weeks	Ongoing studies:					Assess. 2019 Jun 12;8(1):126-128.	
	Q4W: every 4 weeks	• For the same indication: Yes [5,6]					8 nice.org.uk/guidance/ta681 9 https://clinicaltrials.gov/	
	<b>SAE</b> : Serious Adverse Event <b>sc</b> : subcutaneous	For other inc	dications: Yes		10.http://www.io.nihr.ac.uk/wp-content/uploads/2019/12/10753-TSID 9983-			
	TCS: Topical Corticosteroids			Tralokinumab-for-Atopic-Dermatitis-V.1.0-NOV2019-NON-CONF.pdf				
	w: week	[Phase III, but if						
	Discontinued studies (for the same indication): No							