

Report CIBINQO® abrocitinib

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features								NHS impact																																																																																
Substance: abrocitinib	Authorized Indication: EMA: abrocitinib is indicated for the treatment of moderate-to-severe AD in adults who are candidates for systemic therapy [2].	Summary of clinical EFFICACY:								Cost of therapy: According to ICER, the cost per QALY gained of abrocitinib is \$148,300 [6].																																																																																
Brand Name: Cibinqo	Route of administration: OS	<table border="1"> <thead> <tr> <th>Trial</th><th>Treatment Arms</th><th>Primary Endpoint</th><th>Results</th></tr> </thead> <tbody> <tr> <td>JADE Mono-1 (NCT03349060) is a multicentre, double-blind, randomised phase 3 trial in pts aged ≥12 years, with moderate to severe AD</td><td>• abrocitinib 100 mg (n=156), • abrocitinib 200 mg (n=154), • placebo (n=77) All treatments were administrated once daily for 12 weeks</td><td>• Percentage of pts achieving IGA response of clear (0) or almost clear (1) and ≥2 points improvement from BL to week 12 • Percentage of pts EASI response of at least 75% improvement from BL to week 12</td><td>• An IGA response was achieved in 24% of pts in the abrocitinib 100 mg arm vs. 8% of pts in the placebo arm; (p<0.0037) • An IGA response was achieved in 44% of pts in the abrocitinib 200 mg arm vs. 8% of pts in the placebo arm (p<0.0001) • EASI-75 response at week 12 was observed in 40% of pts in the abrocitinib 100 mg arm and in 3% of pts in the abrocitinib 200 mg arm vs. 12% of pts in the placebo arm (p<0.0001) [3]</td></tr> </tbody> </table>								Trial	Treatment Arms	Primary Endpoint	Results	JADE Mono-1 (NCT03349060) is a multicentre, double-blind, randomised phase 3 trial in pts aged ≥12 years, with moderate to severe AD	• abrocitinib 100 mg (n=156), • abrocitinib 200 mg (n=154), • placebo (n=77) All treatments were administrated once daily for 12 weeks	• Percentage of pts achieving IGA response of clear (0) or almost clear (1) and ≥2 points improvement from BL to week 12 • Percentage of pts EASI response of at least 75% improvement from BL to week 12	• An IGA response was achieved in 24% of pts in the abrocitinib 100 mg arm vs. 8% of pts in the placebo arm; (p<0.0037) • An IGA response was achieved in 44% of pts in the abrocitinib 200 mg arm vs. 8% of pts in the placebo arm (p<0.0001) • EASI-75 response at week 12 was observed in 40% of pts in the abrocitinib 100 mg arm and in 3% of pts in the abrocitinib 200 mg arm vs. 12% of pts in the placebo arm (p<0.0001) [3]																																																																									
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Originator/licensee: Pfizer Europe MA EEEG	Licensing status EU CHMP P.O. date: 14/10/2021 FDA M.A. date: -	<table border="1"> <tbody> <tr> <td>JADE Mono-2 (NCT03575871) is a phase 3 randomized, double-blind, placebo-controlled, parallel group, multi-center study in pts aged ≥12 years, with moderate to severe AD</td><td>• abrocitinib 100 mg (n=158), • abrocitinib 200 mg (n=155), • placebo (n=78) All treatments were administrated once daily for 12 weeks</td><td>• Percentage of pts achieving IGA response of clear (0) or almost clear (1) and ≥2 points improvement from BL to week 12 • Percentage of pts EASI response of at least 75% improvement from BL to week 12</td><td>• An IGA response at week 12 was observed in 38.1% of pts in the 200 mg abrocitinib arm vs. 28.4% of pts in the 100 mg abrocitinib arm vs. 9.1% the placebo arm (p<0.001) • EASI-75 response at week 12 was observed in 61.0% of pts in the abrocitinib 200 mg group vs. 44.5% of pts in the abrocitinib 100 mg group vs. 10.4% placebo arm (p<0.001) [4]</td></tr> </tbody> </table>								JADE Mono-2 (NCT03575871) is a phase 3 randomized, double-blind, placebo-controlled, parallel group, multi-center study in pts aged ≥12 years, with moderate to severe AD	• abrocitinib 100 mg (n=158), • abrocitinib 200 mg (n=155), • placebo (n=78) All treatments were administrated once daily for 12 weeks	• Percentage of pts achieving IGA response of clear (0) or almost clear (1) and ≥2 points improvement from BL to week 12 • Percentage of pts EASI response of at least 75% improvement from BL to week 12	• An IGA response at week 12 was observed in 38.1% of pts in the 200 mg abrocitinib arm vs. 28.4% of pts in the 100 mg abrocitinib arm vs. 9.1% the placebo arm (p<0.001) • EASI-75 response at week 12 was observed in 61.0% of pts in the abrocitinib 200 mg group vs. 44.5% of pts in the abrocitinib 100 mg group vs. 10.4% placebo arm (p<0.001) [4]																																																																													
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ATC code: D11AH	ABBREVIATIONS: AD: Atopic Dermatitis BL: Baseline CHMP: Committee for Medicinal Products for Human Use EASI: Eczema Area and Severity Index EASI-75: 75% improvement in EASI score from BL	<table border="1"> <thead> <tr> <th colspan="3">Summary of clinical SAFETY [3-5]:</th><th colspan="3">JADE MONO-1</th><th colspan="3">JADE MONO-2</th><th colspan="3">JADE COMPARE</th></tr> <tr> <th>ARMS</th><th>abrocitinib 100 mg</th><th>abrocitinib 200 mg</th><th>placebo</th><th>abrocitinib 100 mg</th><th>abrocitinib 200 mg</th><th>placebo</th><th>abrocitinib 100 mg</th><th>abrocitinib 200 mg</th><th>dupilumab 300 mg</th><th>placebo</th></tr> </thead> <tbody> <tr> <td>TOTAL AEs</td><td>69%</td><td>78%</td><td>57%</td><td>62.7%</td><td>65.8%</td><td>53.8%</td><td>50.8%</td><td>61.9%</td><td>50.0%</td><td>53.4%</td></tr> <tr> <td>SERIOUS AEs</td><td>3%</td><td>3%</td><td>4%</td><td>3.2%</td><td>1.3%</td><td>1.3%</td><td>2.5%</td><td>0.9%</td><td>0.8%</td><td>3.8%</td></tr> </tbody> </table> <p>MOST FREQUENT NON SERIOUS AEs:</p> <table border="1"> <tbody> <tr> <td>NAUSEA</td><td>9%</td><td>20%</td><td>3%</td><td>7.6%</td><td>14.2%</td><td>2.6%</td><td>4.2%</td><td>11.1%</td><td>2.9%</td><td>1.5%</td></tr> <tr> <td>NASOPHARYNGITIS</td><td>15%</td><td>12%</td><td>10%</td><td>12.7%</td><td>7.7%</td><td>6.4%</td><td>9.2%</td><td>6.6%</td><td>9.5%</td><td>6.9%</td></tr> <tr> <td>HEADACHE</td><td>8%</td><td>10%</td><td>3%</td><td>5.7%</td><td>7.7%</td><td>2.6%</td><td>4.2%</td><td>6.6%</td><td>5.4%</td><td>4.6%</td></tr> </tbody> </table> <p>Ongoing studies:</p> <ul style="list-style-type: none"> • For the same indication: Yes • For other indications: Yes <p>Discontinued studies (for the same indication): No</p>											Summary of clinical SAFETY [3-5]:			JADE MONO-1			JADE MONO-2			JADE COMPARE			ARMS	abrocitinib 100 mg	abrocitinib 200 mg	placebo	abrocitinib 100 mg	abrocitinib 200 mg	placebo	abrocitinib 100 mg	abrocitinib 200 mg	dupilumab 300 mg	placebo	TOTAL AEs	69%	78%	57%	62.7%	65.8%	53.8%	50.8%	61.9%	50.0%	53.4%	SERIOUS AEs	3%	3%	4%	3.2%	1.3%	1.3%	2.5%	0.9%	0.8%	3.8%	NAUSEA	9%	20%	3%	7.6%	14.2%	2.6%	4.2%	11.1%	2.9%	1.5%	NASOPHARYNGITIS	15%	12%	10%	12.7%	7.7%	6.4%	9.2%	6.6%	9.5%	6.9%	HEADACHE	8%	10%	3%	5.7%	7.7%	2.6%	4.2%	6.6%	5.4%	4.6%
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Orphan Status: Eu: No Us: -	POSSIBLE PLACE IN THERAPY The goal of treatment is to reduce symptoms (pruritus and dermatitis), prevent aggravation, and minimize therapeutic risks: -1st-line therapies: Emollients and topical corticosteroids -2nd-line: topical calcineurin inhibitors and antiseptics (included silver-coated textiles) -3rd-line: Topical PDE-4 inhibitors [8]	OTHER INDICATIONS IN DEVELOPMENT: prurigo nodularis, plaque psoriasis [9]								SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: -																																																																																
Mechanism of action: Abrocitinib is an oral JAK1 selective inhibitor that inhibits several key-cytokine signaling pathways known to have an important role in the pathophysiological characteristics of AD, including IL-4, IL-13, IL-31, and interferon γ [1].	OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: ruxolitinib, baricitinib, lebrikizumab, tradipitant, tapinarof [10]	*Service reorganization No *Possible off label use Yes, in pts aged ≥12 years old								References: 1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC677226/ 2. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/cibinqo 3. Simpson EL, Sinclair R, Forman S, et al. Efficacy and safety of abrocitinib in adults and adolescents with moderate-to-severe atopic dermatitis (JADE MONO-1): a multicentre, double-blind, randomised, placebo-controlled, phase 3 trial. Lancet. 2020;396(10246):255-266. doi:10.1016/S0140-6736(20)30732-7 4. Silverberg JI, Simpson EL, Thyssen JP, et al. Efficacy and Safety of Abrocitinib in Patients With Moderate-to-Severe Atopic Dermatitis: A Randomized Clinical Trial. JAMA Dermatol. 2020;156(8):863-873. doi:10.1001/jamadermatol.2020.1406 5. S3.8ieberer T, Simpson EL, Silverberg JI, et al. Abrocitinib versus Placebo or Dupilumab for Atopic Dermatitis. N Engl J Med. 2021;384(12):1101-1112. doi:10.1056/NEJMoa2019380 6. https://icer.org/wp-content/uploads/2020/12/atopic-dermatitis-RACG-9AU2021-1.pdf 7. Bylund, Simon et al. "Prevalence and Incidence of Atopic Dermatitis: A Systematic Review." Acta dermato-venereologica vol. 100,12 adv00160. 9 Jun. 2020. doi:10.1111/jdv.16892 8. Wollenberg A, Christen-Zach S, Taieb A, et al. EFTAD/EADV Eczema task force 2020 position paper on diagnosis and treatment of atopic dermatitis in adults and children. J Eur Acad Dermatol Venereol. 2020;34(12):2717-2744. doi:10.1111/jdv.16892 9. https://clinicaltrials.gov/ct2/results?cond=Atopic+Dermatitis&term=&recrs=b&rcrs=a&recrs=&recrs=&recrs=&recrs=&age=&age=&ndrs=&ndrs=&abrocitinib&titles=&route=&spans=&leads=&id=&cntr=&state=&cty=&dist=&loc=&sub=&strd=&strd_e=&rcrd_s=&prcd_e=&spfd_s=&spfd_e=&rpd_s=&rpd_e=&lkup_e=&lkup_s=&lkup_r=&lkup_t= 10. https://clinicaltrials.gov/ct2/results?cond=Atopic+Dermatitis&term=&type=&recrs=&recrs=&recrs=&recrs=&recrs=&age=&age=&ndrs=&ndrs=&abrocitinib&titles=&route=&spans=&leads=&id=&cntr=&state=&cty=&dist=&loc=&phase=&phase=&strd_s=&strd_e=&rcrd_s=&prcd_e=&spfd_s=&spfd_e=&rpd_s=&rpd_e=&lkup_s=&lkup_e=&lkup_r=&lkup_t=																																																																																

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