Report Dupixent®- Dupilumab

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features					NHS impact
Active principle: Dupilumab Brand Name: Dupixent® Originator/ licensee: Sanofi-Aventis Groupe Classification: NI ATC code: D11AH05 Orphan Status: Eu: No Us: No Mechanism of action: Dupilumab is a mAB that inhibits IL-4 and IL-13 signaling. IL-4 and IL-13 are major drivers of human type 2 inflammatory disease, and blocking the IL-4/IL-13 pathway in pts decreases many of the mediators of type 2 inflammation [1].	Authorized Indication: EMA: Dupixent is indicated for the treatment of severe AD in children aged 6 months to 11 years, who are candidates for systemic therapy [2]. FDA: Dupixent is indicated for the treatment of pediatric pts aged 6 months and older with moderate-to-severe AD, whose disease is not adequately controlled with topical prescription therapies or when those therapies are not advisable [3]. Route of administration: SC Licensing status: EU CHMP P.O. date: 26/01/2023 FDA M.A. date: 28/09/2022 EU Speed Approval Pathway: No FDA Speed Approval Pathway: No FDA Speed Approval Pathway: No ABBREVIATIONS: AE: Adverse event AD: Atopic Dermatitis BW: Bodyweight CHMP: Committee for Medicinal Products for Human Use Cl ₉₅ = Confidence Interval of 95% DG: Dupilumab group EP: End-Point LI: Interleukin IGA: Investigator's Global Assessment LPTCS: low-potency topical corticosteroids M.A.: Marketing authorization maB: Monoclonal antibody PG: Placebo group PN: Prurigo Nodularis P.O.: Positive opinion Pts: Patients sc: Subcutaneous TCS: Topical corticosteroids TEAE::STreatment emergent adverse event WI-NRS: Worst Itch Numeric Rating Scale	the efficacy are years at screen Pts assessed ff kg≤BW<30 kg LPTCS. Once the primary E (95%) pts in the primary E (95%) pts in the primary E (95%) pts in the primary of th	es: indication: Yes cations: Yes studies (for the same indication): No ma.europa.eu/en/documents/product-information/dupixent-epar- ma.europa.eu/en/medicines/human/summaries-opinion/dupixent- cessdata.fda.gov/drugsatfda docs/label/2022/761055s044lbl.pdf . Dupilumab in children aged 6 months to younger than 6 years wi cet. 2022 Sep 17; doi: 10.1016/S0140-6736(22)01539-2. PMID: 361 farmadati.it/ ininisterosalute.it/ cbi.nlm.nih.gov/pmc/articles/PMC3858654/	months to 5 years. Eligibility of adequate response to TCS befor Dupilumab (N=83; 200 mg) the end of the treatment per three times/week and, at an ICs e end of the treatment periodic DG and three (4%) pts in the DG and three (4%) pts in the DG and three (4%) pts in the DG and provided (4%) pts in the DG and pts	criteria included pts aged fore screening. for 5 kg≤BW<15 kg pts o riod, pts received a once-cash score=0, LPTCS use was lead. A total of 82 (99%) pts in the PG had IGA= 0 or 1, we define the study transfer of the PG had IGA= 0 or 1, we define the study transfer of the PG had IGA= 0 or 1, we define the PG had	6 months to <6 r 300 mg for 15 daily regimen of stopped. n the DG and 75 with a significant eatment. Safety respiratory tract the DG and PG,	Cost of therapy: The ex-factory price for apre-filled pen/syringe of Dupixent® (300 mg-200 mg) is 608,00€ [6]. Epidemiology: Limited data are available on the epidemiology of AD in children aged 6 months to 11 years. In Italy the prevalence of AD is assessed at 10% - 12% [7]. According to the literature AD occurs in the 15,6% of 6 months Europeanchildren [8]. POSSIBLE PLACE IN THERAPY: Treatment of AD includes a range of therapies such as emollients, bandages, phototherapy and topical and oral corticosteroids. Topical tacrolimus is recommended as second-line treatment in adults and children aged >2 years with AD that is uncontrolled with topical corticosteroids. Dupilumab offers an additional option to pts with severe AD uncontrolled with currently available therapies [9]. OTHER INDICATIONS IN DEVELOPMENT: Chronic Spontaneous Urticaria, Chronic Cold Urticaria, Allergic Bronchopulmonary Aspergillosis, Eosinophilic Esophagitis Allergic Fungal Rhinosinusitis, Chronic Obstructive Pulmonary Disease, Chronicrhinosinusitis Without Nasalpolyps, Cold Urticaria, Netherton Syndrome [10]. SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: - OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: - OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION in the European Union for other indications and they are under investigation for the treatment of AD in infants [10]. *Service reorganization: No *Possible off label use: Yes