

Ruxolitinib Cream Monotherapy Use Demonstrates Maintenance of Disease and Symptom Control With Use As Needed in Adults and Adolescents With Atopic Dermatitis: Pooled Analysis From the Long Term Safety Periods of Two Phase 3 Studies

Andrew Blauvelt, MD, MBA,¹ Leon Kircik, MD,² Eric L. Simpson, MD, MCR,³ Peter Lio, MD,⁴ Daniel Sturm, PharmD,⁵ Howard Kallender, PhD,⁵ Haobo Ren, PhD,⁵ Dilan Paranagama, PhD,⁵ Jessy Gao, MA,⁵ Lawrence F. Eichenfield, MD⁶

¹Oregon Medical Research Center, Portland, OR, USA; ²Icahn School of Medicine at Mount Sinai, New York, NY, USA; ³Oregon Health & Science University, Portland, OR, USA; ⁴Feinberg School of Medicine, Northwestern University, Chicago, IL, USA; ⁵Incyte Corporation, Wilmington, DE, USA; ⁶University of California San Diego, San Diego, CA, USA

Background: Atopic dermatitis (AD) is a pruritic inflammatory skin disease. Ruxolitinib cream (RUX) is a topical formulation of ruxolitinib, a Janus kinase (JAK) 1/JAK2 inhibitor. Herein, we evaluated the long-term maintenance of disease and symptom control in adolescent and adult patients with AD applying ruxolitinib cream as needed using pooled data from the long-term safety (LTS) periods of two phase 3 studies.

Methods: In two phase 3 studies (TRuE-AD1/TRuE-AD2), 1249 patients with AD (≥ 12 years, Investigator's Global Assessment [IGA] 2/3, 3%–20% affected body surface area) were randomized to twice-daily 0.75% RUX/1.5% RUX/vehicle for an 8-week, double-blinded, vehicle-controlled period followed by a 44-week double-blinded long-term safety (LTS) period. In the LTS period, patients applied RUX as needed to treat active lesions and stopped after clearance, resuming treatment upon recurrence. IGA, itch (Patient-Oriented Eczema Measure [POEM] question 1) and sleep disturbance (POEM question 2) were evaluated in the LTS period from patients initially randomized to 0.75% (n=409) or 1.5% RUX (n=428).

Results: The percentages of patients who applied 0.75%/1.5% RUX and achieved IGA 0/1 at Weeks 8 and 52 were 61.6%/67.1% and 60.6%/62.1%, respectively. With each consecutive visit, the majority of patients maintained IGA 0/1. Itch for 0 days in the past week was reported at Week 8 in 27.4%/32.2% and for 1-2 days in the past week in 32.8%/34.6% of patients, and at Week 52 in 21.5%/28.3% and 29.1%/25.9% of patients, respectively. Sleep disturbance for 0 or 1–2 days in the past week was reported at Week 8 in 64.3%/70.8% and 23.0%/19.4% of patients, and at Week 52 in 57.2%/57.9% and 12.2%/13.3% of patients.

Conclusions: In summary, RUX monotherapy use demonstrated maintenance of disease and symptom control with as needed use over a 44-week period in adults and adolescents with AD.

Financial Disclosures

AB has served as a speaker (received honoraria) for AbbVie, Bristol Myers Squibb, Eli Lilly and Company, Pfizer, Regeneron, and Sanofi; served as a scientific advisor (received honoraria) for AbbVie, Abcentra, Aclaris, Affibody, Aligos, Almirall, Alumis, Amgen, Anaptysbio, Arcutis, Arena, Aslan, Athenex, Bluefin Biomedicine, Boehringer Ingelheim, Bristol Myers Squibb, Cara Therapeutics, Dermavant, EcoR1, Eli Lilly and Company, Escient, Evelo, Evommune, Forte, Galderma, Highlightll Pharma, Incyte Corporation, InnoventBio, Janssen, Landos, Leo, Merck, Novartis, Pfizer, Rani, Rapt, Regeneron, Sanofi Genzyme, Spherix Global Insights, Sun Pharma, TLL Pharmaceutical, TrialSpark, UCB Pharma, Union, Vibliome, and Xencor; and has acted as a clinical study investigator (institution has received clinical study funds) for AbbVie, Acelyrin, Almirall, Alumis, Amgen, Arcutis, Athenex, Boehringer Ingelheim, Bristol Myers Squibb, Concert, Dermavant, Eli Lilly and Company, Evelo, Evommune, Galderma, Incyte, Janssen, Leo, Merck, Novartis, Pfizer, Regeneron, Sun Pharma, and UCB Pharma.

LK has served as an investigator, consultant, or speaker for AbbVie, Amgen, Anaptys, Arcutis, Dermavant, Eli Lilly, Glenmark, Incyte, Kamedis, LEO Pharma, L'Oreal, Menlo Therapeutics, Novartis, Ortho Dermatologics, Pfizer, Regeneron, Sanofi, Sun Pharma, and Taro.

ELS is an investigator for AbbVie, Eli Lilly, Galderma, Kyowa Hakko Kirin, LEO Pharma, Merck, Pfizer, and Regeneron and is a consultant with honorarium for AbbVie, Eli Lilly, Forte Bio, Galderma, Incyte, LEO Pharma, Menlo Therapeutics, Novartis, Pfizer, Regeneron, Sanofi Genzyme, and Valeant.

PL reports research grants/funding from AOBiome, Regeneron/Sanofi Genzyme, and AbbVie; is on the speakers bureau for Regeneron/Sanofi Genzyme, Pfizer, Incyte, Hyphens Pharma, LEO, Eli Lilly, Galderma, and L'Oreal; reports consulting/advisory boards for Almirall, ASLAN Pharmaceuticals, Bristol Myers, Dermavant, Regeneron/Sanofi Genzyme, Merck, Pfizer, LEO Pharmaceuticals, AbbVie, Eli Lilly, Micros (stock options), L'Oreal, Pierre-Fabre, Johnson & Johnson, Unilever, Menlo Therapeutics, Theraplex, IntraDerm, Exeltis, AOBiome, Realm Therapeutics, Altus Labs (stock options), Galderma, Arbonne, Amyris, Bodewell, and Burt's Bees; has a patent pending for a Theraplex product with royalties paid; and is a Board member of the National Eczema Association.

DS, HK, HR, DP, and JG are employees and shareholders of Incyte.

LFE has served as an investigator, consultant, speaker, or data safety monitoring board member for AbbVie, Almirall, Amgen, Arcutis, Aslan, Bristol Myers Squibb, Castle, Dermavant, Eli Lilly, Forte Biosciences, Galderma, Incyte, Janssen, LEO Pharma, Novartis, Ortho, Otsuka, Pfizer, Regeneron, Sanofi Genzyme, Trialspark, and UCB.

Key Words: ruxolitinib cream; atopic dermatitis; itch; sleep