

The New Paradigm in the Management of MODERATE-TO-SEVERE ATOPIC DERMATITIS:

IMPROVING SYMPTOMS and QUALITY of LIFE with SYSTEMIC THERAPIES

TUESDAY, MARCH 16, 2021



The New Paradigm in the Management of Moderate-to-Severe Atopic Dermatitis: Improving Symptoms and Quality of Life with Systemic Therapies

FACULTY

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PROGRAM OVERVIEW

This case-based activity will cover the causes of atopic dermatitis, the patient burden of AD, and current and emerging systemic agents for use in clinical practice.

TARGET AUDIENCE

This activity is intended for dermatologists, pediatric dermatologists, and other healthcare professionals involved in the management of patients with atopic dermatitis.

Learning Objectives

- Assess disease severity in patients with AD and identify patients who require treatment intensification
- Utilize guideline recommendations and clinical trial data to design treatment regimens that address the symptoms and quality of life of patients with AD
- Incorporate shared decision-making into clinical practice to improve treatment adherence and patient outcomes

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Mark Boguniewicz, MD has been a consultant with Regeneron, Sanofi-Genzyme, Lilly, Leo, and Pfizer. He has contracted research with Regeneron and Incyte.

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- 2. Participate in the activity; and
- 3. Complete pre-and-post surveys and evaluation.

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The New Paradigm in the Management of MODERATE-TO-SEVERE ATOPIC DERMATITIS:

IMPROVING SYMPTOMS and QUALITY of LIFE With SYSTEMIC THERAPIES

AGENDA

I. Atopic dermatitis: Features and Mechanisms

- Features of AD
- The inflammatory loop
- Pathogenesis

II. Evaluation and Diagnosis

- Diagnostic features and distribution
- Age and race-based differences
- Phenotypic mimics

III. Patient Impact

- The 5 I's and patient-centered treatment
- Impact and associated morbidities

IV. Initial Management Considerations

- Assessing disease severity
- Guideline-based customized therapy
- Emollients/topicals
- Reactive/proactive treatment
- Shared decision-making

V. New and Targeted Therapy

- Conventional algorithm
- Dupilumab (mechanisms, clinical trials, safety)
- Targets beyond IGA
- Concepts in dose reduction
- Pipeline agents: JAK's and other systemics
- Case study

VI. Conclusions, Post-Test and Q/A

March 16, 2021

The New Paradigm in the Management of Moderate-to-Severe Atopic Dermatitis:

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- Mark Boguniewicz, MD has been a consultant with Regeneron, Sanofi-Genzyme, Lilly, Leo, and Pfizer. He has contracted research with Regeneron and Incyte.
- During this lecture, use of medications for both FDA-approved and non-approved indications may be discussed.
- Patient pictures/graphics are not to be captured, reproduced, or distributed in any way.

This activity is supported by an educational grant from Sanofi Genzyme and Regeneron Pharmaceuticals, Inc.

Learning Objectives

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- Utilize guideline recommendations and clinical trial data to design treatment regimens that address the symptoms and quality of life of patients with AD
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Atopic Dermatitis: Features and Diagnosis

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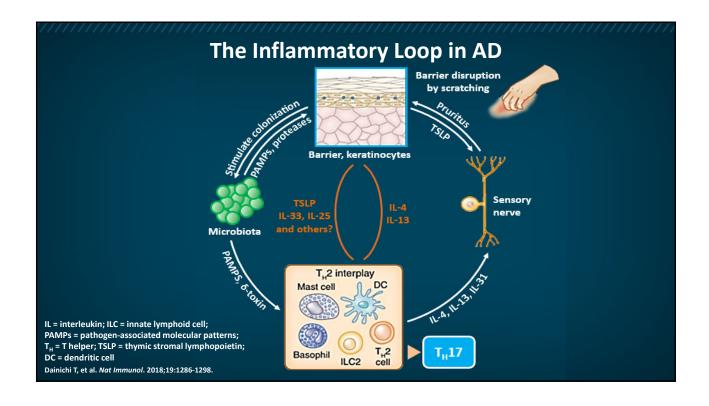
Features of Atopic Dermatitis (AD)

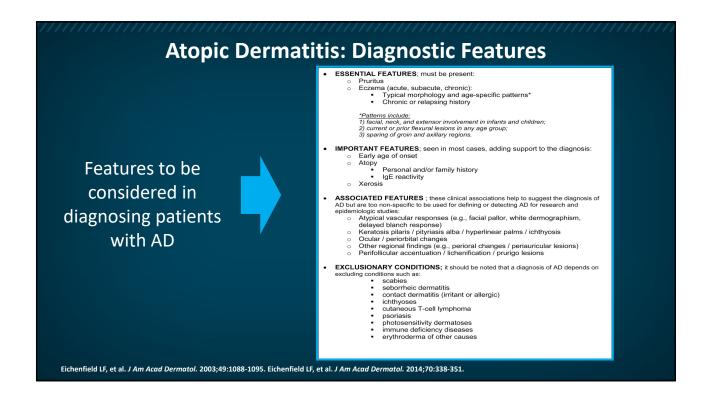
AD is a chronic, pruritic, inflammatory skin disease that typically involves:

- Childhood onset
- Familial occurrence
- Eczematous change
 - Erythema
 - Induration, papulation
 - Excoriation
 - Lichenification

- Characteristic distribution
- Intermittent flares
- Associated skin conditions (minor diagnostic criteria)
- Skin infections
- Associated morbidities

Siegfried EC, Hebert AA. J Clin Med. 2015;4:884-917. Ring J, et al. J Eur Acad Dermatol Venereol. 2012;26:1045-1060.











Phenotypic Mimics

Otherwise healthy

- Pityriasis alba
- Keratosis pilaris
- Ichthyosis vulgaris
- Lichen simplex chronicus
- · Contact dermatitis
- Psoriasiform overlap
- Seborrheic dermatitis
- Tinea
- Scabies

Unhealthy

- · Immune deficiencies
- Nutritional deficiencies
- Cutaneous T-cell lymphoma
- Genodermatoses

Siegfried EC, Hebert AA. J Clin Med. 2015;4:884-917. Wine SJ, Steinberg S. Can Fam Physician. 1972;18:65-66. Purohit MP. Lichen simplex chronicus. DoveMed. 2018 (www.dovemed.com/diseases-conditions/lichen-simplex-chronicus). Fields D. NEWS Medical. 2019 (www.news-medical.net/health/Types-of-Genodermatoses.aspx). All URLs accessed January 26, 2021.

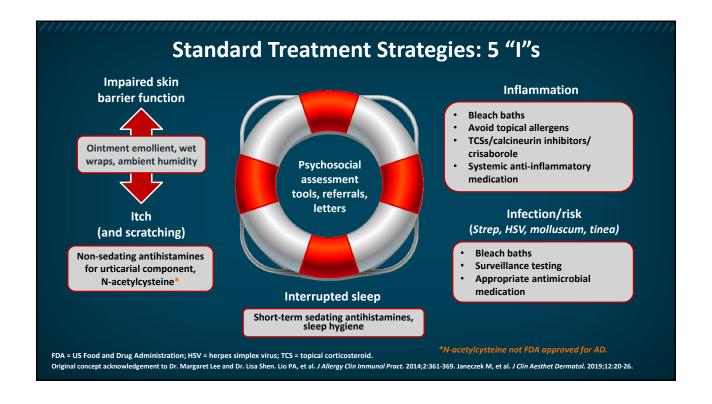
Patient Impact

Peter A. Lio, MD

Clinical Assistant Professor, Dermatology and Pediatrics Northwestern University Feinberg School of Medicine Medical Dermatology Associates of Chicago Chicago, IL Please click here to watch a brief animation looking at the 5 l's and patient-centered treatment

Associated Morbidities Atopic Others 1,2,6,7 Allergic rhinitis Mental/behavioral health (≈50% prevalence)¹ Skin infections • Allergic conjunctivitis² Allergic contact dermatitis Asthma (≈22%-30% prevalence)^{1,3,4} Immune deficiency Primary eosinophilic Cataracts gastrointestinal disorders² Food allergy⁵ 1. Whiteley J, et al. Curr Med Res Opin. 2016;32:1645-1651. 2. Silverberg JI. Cutis. 2019;104:142-143. 3. Silverberg JI, Hanifin JM. J Allergy Clin Immunol. 2013;132:1132-1138. 4. Wang D, Beck LA. Am J Clin Dermatol. 2016;17:425-443. 5. Greenhawt M. Allergy Asthma Proc. 2010;31:392-297. 6. Silverberg NB. Cutis. 2016;97:408-412. 7. De Benedetto A, et al. J Invest Dermatol. 2009;129:14-30.

Management



Assessment of Disease Severity

- Validated AD-specific severity scales
 - -SCORAD (SCORing Atopic Dermatitis index): includes extent, sleep, and itch
 - -EASI (Eczema Area and Severity Index): includes extent
 - -IGA (Investigator's Global Assessment): simple 0- to 5-point scale
- Modified forms used in clinical trials
- SCORAD and EASI are too cumbersome for clinical practice
- IGA is simple, useful, and may be required for insurance authorization

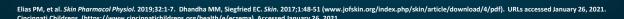
IGA Response = percentage of patients achieving IGA response (i.e., clear [0] or almost clear [1], with improvement of greater than or equal to 2 grades); EASI-75 Response = at least 75% improvement in EASI-75 score from baseline.

Siegfried EC, et al. Pediatr Dermatol. 2018;35:303-322. Chopra R, et al. Br J Dermatol. 2017;177:1316-1321. Brunk D. Dermatol News. 2020 (www.mdedge.com/dermatology/article/220713/atopic-dermatitis/expert-discusses-her-approach-using-systemic-agents). Accessed January 26, 2021. Silverberg JI, et al. Br J Dermatol. 2019;181:80-87.

AD Severity Informs **Customized** Stepped Therapy **MODERATE** Specialist referral Consider comorbidities MILD Short-term aggressive Add bleach baths, wet wraps treatment Maintenance TCI or Skin care Wet wraps crisaborole Daily bath (bleach optional) Hospitalization Up to twice daily Liberal, frequent moisturizer **Phototherapy** Monitor quantities Systemic immunosuppressants Intermittent TCS Cyclosporine A* Trigger avoidance Methotrexate* Irritants, potential topical Medium potency Mycophenolate mofetil* allergens, low ambient 15 days/month Azathioprine* humidity Monitor quantities Dupilumab Consider comorbidities **TCS** Other considerations Low-to-medium potency Medium-to-high potency Nonadherence Flare PRN up to 15 days/month Infection Consider complicating Monitor quantities factors Misdiagnosis Contact allergy PRN = as needed; TCI = topical calcineurin inhibitor. Adapted from Boguniewicz M. et al. Ann Alleray Asthma Immunol. 2018:120:10-22.e2.

Emollient Options

- Affordability
- Tactile acceptance
- Low allergenicity
- Options
 - Non-allergenic: plain petroleum jelly, plain mineral oil (beware tocopherol), Vanicream™ Moisturizing Ointment (formerly Vaniply™ Ointment)
 - Physiologic lipids (eg, CeraVe®, EpiCeram®); equimolar ratio of ceramides, cholesterol, fatty acids for benefit
 - pH <5 (A-Mantle™)</p>
 - Colloidal oatmeal (Aveeno®)
 - Prescription skin-barrier devices (Hylatopic[®], Mimyx[®], Atopiclair[®])
- Wet wraps





Safe and Effective Use of Topical Medications in Children

How much, how often, how to monitor?

Medication	Quantity	Frequency	Possible Safety Monitoring	Prescribing Guideline
Corticosteroids	15-60 g/month (based on age/body site/potency)	15 days/month	AM cortisol	Potency and age group specific
Calcineurin inhibitors	100-200 g/month; Supplied in 30- to 100-g tubes	BID	Tacrolimus peak	≥2 years*
PDE-4 inhibitors	100-200 g/month; Supplied in 60- to 100-g tubes	BID	_	≥3 months

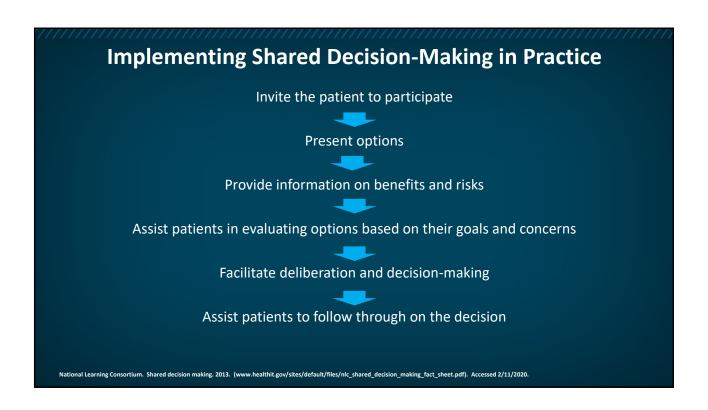
 $Refer\ to\ individual\ medication\ prescribing\ information\ for\ approved\ indications\ and\ guidelines\ for\ treatment.$

AM = morning; BID = twice daily; PDE-4 = phosphodiesterase-4.

Carr WW. Paediatr Drugs. 2013;15:303-310. Eichenfield LF, et al. J Am Acad Dermatol. 2014;71:116-132. Schwartz RA. Pediatric atopic dermatitis medication. Medscape. 2020 (https://emedicine.medscape.com/article/911574-medication). Accessed January 26, 2021. Pharmacist's Letter. 2012 (http://snapaprn.org/docs/SNAP%20Comparison%20of%20Topical%20Steroids.pdf). Accessed January 26, 2021. National Eczema Society. Factsheet. 2019 (https://eczema.org/wp-content/uploads/Topical-steroids-Sep-19-1.pdf). Accessed January 26, 2021.

^{*}Tacrolimus 0.03% is indicated for children 2-15 years; 0.1% is indicated for adults.





Mark Boguniewicz, MD Professor, Division of Allergy-Immunology Department of Pediatrics National Jewish Health and University of Colorado School of Medicine Denver, CO

Please click here to watch a brief animation exploring current and emerging agents for AD

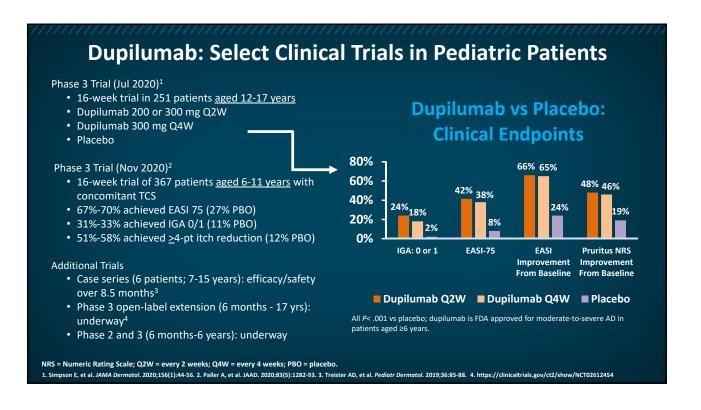
Dupilumab

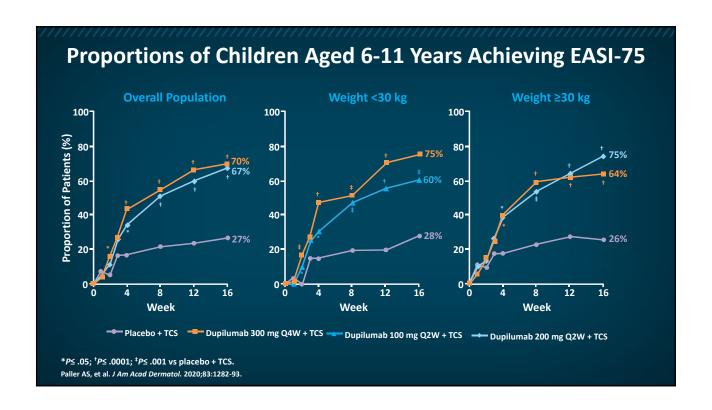
- A human monoclonal antibody against IL-4 receptor α
- Inhibits signaling of IL-4 and IL-13
- FDA approved for moderate-to-severe AD in adults in March 2017, for aged
 ≥12 years in 2019, and for aged ≥6 years in 2020
- Also FDA approved for moderate-to-severe eosinophilic asthma (≥12 years) and for add-on maintenance therapy for CRSwNP (adults)
- SC injection every 2 or 4 weeks, based on patient weight

CRSwNP = chronic rhinosinusitis with nasal polyposis; SC = subcutaneous.

Dupilumab (Dupixent*) PI 2020 (https://www.regeneron.com/sites/default/files/Dupixent_FPI.pdf). Press release. May 26, 2020 (https://www.prnewswire.com/news-releases/fda-approves-dupixent-dupilumab-as-first-biologic-medicine-for-children-aged-6-to-11-years-with-moderate-to-severe-atopic-dermatitis-301065273.html).

All URLs accessed January 21, 2021.





Dupilumab: Safety

- It appears much safer than conventional immunosuppressants, but other potential considerations include:
 - Conjunctivitis in up to 10% of patients^{1,2}
 - Higher rates in those with higher baseline AD severity and/or history of conjunctivitis
 - Mostly mild to moderate
 - In dupilumab trials in other type 2 diseases (eg, asthma, CRSwNP), incidence similar to placebo
 - Head/neck erythema^{3,4}
 - Injection site reaction/systemic reactions
 - Cost may be a factor
 - Injection

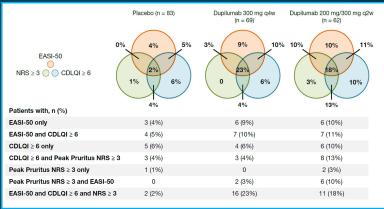
1. Akinlade B, et al. Br J Dermatol. 2019;181:459-473. 2. Achten R, et al. J Allergy Clin Immunol Pract. 2020;52213-2198(20)31091-6. 3. de Beer F, et al. JAAD Case Rep. 2019;5:888-891. 4. de Wijs L, et al. Br J Dermatol. 2020;183:745-749.

Therapeutic Targets in AD: Beyond IGA ≤1

IGA score of ≤1 (clear/almost clear skin) is the standard measure in clinical trials^{1,2}

- Outcomes measures in those with IGA ≥1 are still important!
- EASI, Peak Pruritus NRS, affected BSA, POEM, and DLQI
- IGA ≤1 endpoint <u>underestimates</u> clinically relevant treatment effects

Patients in IGA >1 subgroup who achieved EASI-50, ≥3-point improvement in Peak Pruritus NRS, or ≥6-point improvement in CDLQI



BSA = body surface area; CDLQI = Children's DQLI; DLQI = Dermatology Quality of Life Index; EASI-50 = 50% improvement from baseline in EASI; POEM = patient-oriented eczema measure.

1. Silverberg J, et al. Br J Dermatol. 2019;181:80-87. 2. Paller A, et al. Am J Clin Dermatol. 2020;21:119-131.

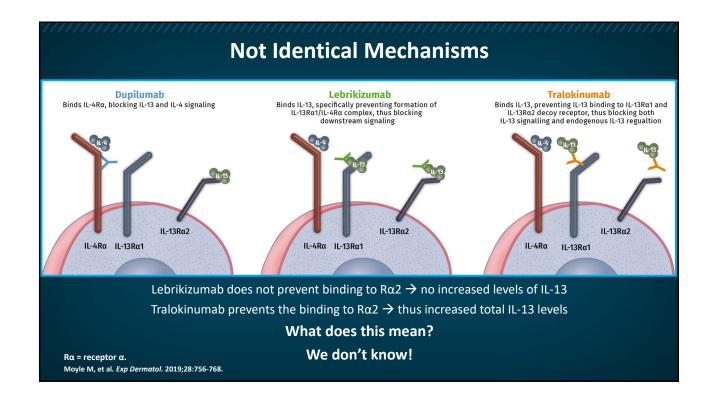
Does Dose Reduction Maintain Efficacy?

Worm et al, 2020:

- 422 adult patients responding to dupilumab, and continuing <u>once weekly or once</u> <u>every 2 weeks</u> maintained optimal efficacy
- EASI 75:
 - Negligible changes with above dosing regimens (−0.06%; P < .001 vs placebo)
 - Dose-dependent worsening with other doses (Q4wks: −3.84%; Q8wks: −6.84%)
- Adverse events: 70.7% weekly or Q2wks; 73.6% Q4wks; 75.0% Q8wks; 81.7% placebo.
- Similar conjunctivitis rates
- Antidrug antibody incidence lower with more frequent regimens (weekly: 1.2%;
 Q2wks: 4.3%; Q4wks: 6.0%; Q8wks: 11.7%; PBO: 11.3%)
 Worm M, et al. JAMA Dermatol. 2020;156(2):131-43.

15

Drug	Target		
TOPICAL			
Delgocitinib E6005 OPA-15406	JAK1, JAK2, JAK3, and TYK2 PDE-4 PDE-4		
Ruxolitinib Tapinarof	JAK1 and JAK2 AHR ligand		
ORAL			
Abrocitinib ASN002 Baricitinib Upadacitinib	JAK1 JAK JAK1 and JAK2 JAK1		
SYSTEMIC INJECTION	SYSTEMIC INJECTION		
Lebrikizumab Nemolizumab Tralokinumab	IL-13 IL-31 IL-13		



Emerging Agent: Tralokinumab (Anti-IL-13)

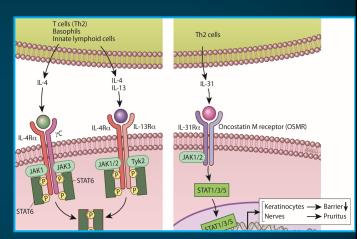
Study	Treatment	IGA 0/1 Response at Week 16	EASI-75 Response at Week 16
	Tralokinumab	16%	25%
	Placebo	7%	13%
	Placebo-adjusted response	9%	12%
	Tralokinumab	22%	33%
	Placebo	11%	11%
	Placebo-adjusted response	11%	22%
	Tralokinumab	39%	56%
	Placebo	26%	36%
	Placebo-adjusted response	13%	20%

- ECZTRA 1/2: 51%-60% maintained response over 52 weeks
- ECZTRA 3: 78%-93% maintained response over 32 weeks

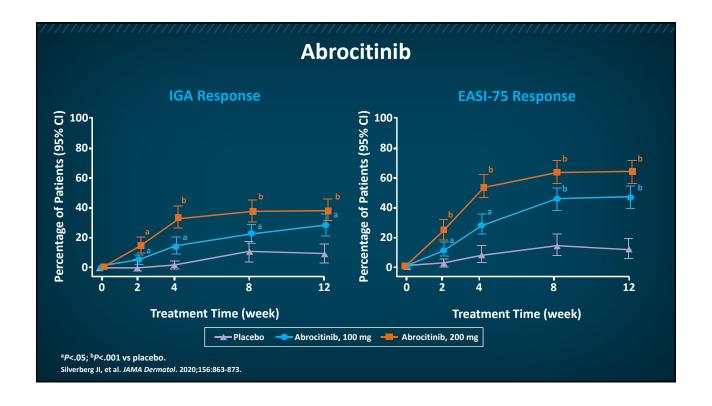
1. Wollenberg A, et al. Br J Dermatol. 2020; Sep 30. doi:10.1111/bjd.19574. 2. Silverberg II, et al. Br J Dermatol. 2020 Sep 30. doi:10.1111/bjd.19573.

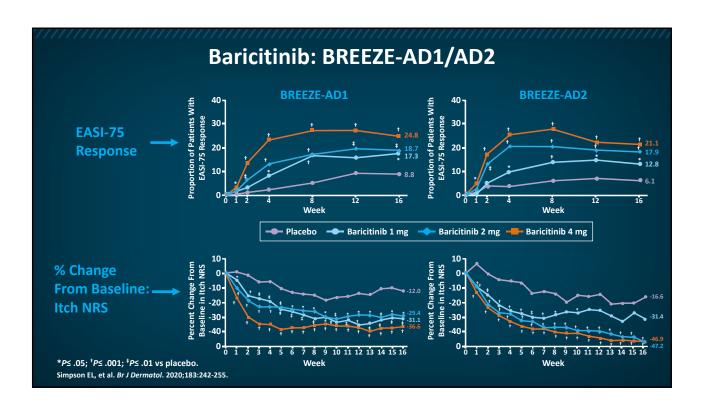
Janus-Associated Kinase (JAK)

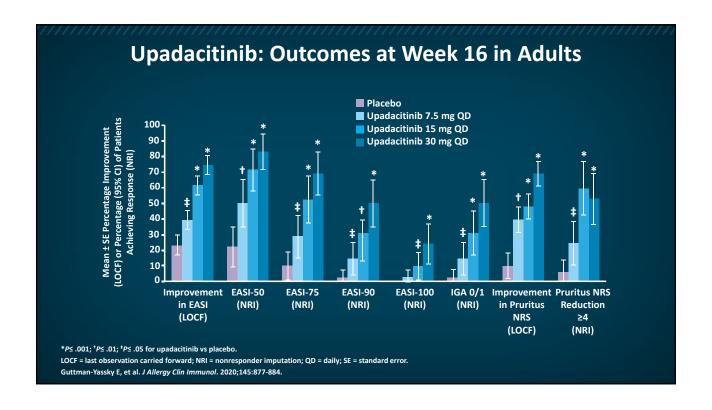
- The JAK-STAT pathway is a conserved master regulator of immunity and myeloproliferation
- JAK inhibitors are used to treat several hematologic and inflammatory diseases
- Small molecules (including JAK inhibitors) show improvement in AD disease scores, patient-reported outcomes, and QoL



STAT = signal transducer and activator of transcription. QoL: quality of life
Cotter DG, et al. J Am Acad Dermatol. 2018;78(3 suppl 1):SS3-S62. Mobasher P, et al. J Dermatolog Treat. 2019;30:550-557. Paller AS, et al. J Allergy Clin Immunol. 2017;140:633-643.







JAK Inhibitors: Key Adverse Events

≥3% (any dose) and >Placebo

• Abrocitinib1

 Nausea, nasopharyngitis, headache, URTI, dermatitis atopic, acne, vomiting, upper abdominal pain, elevated CPK, folliculitis, thrombocytopenia

• Baricitinib²

- Nasopharyngitis, headache, diarrhea, herpes simplex, URTI, influenza, oral herpes, UTI, folliculitis

Upadacitinib³

- URTI, AD worsening, acne, headache, nasopharyngitis, elevated CPK, nausea, diarrhea, influenza, oropharyngeal pain
- Serious AE's were rare, similar to placebo, and usually unrelated to treatment

URTI = upper respiratory tract infection; CPK = creatinine phosphokinase; UTI = urinary tract infection

1. Silverberg J, et al. JAMA Dermatol. 2020;156(8):873.

2. Bieber T, et al. JEADV. 2021;35:476-85.

3. Guttman-Yassky E, et al. J Allergy Clin Immunol. 2020;145:877-884.

Case Study

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Case Study

A 3-year-old child comes to your clinic after several months of experiencing an itchy rash on the neck, face, upper back, antecubital fossae, upper and lower legs with predilection for popliteal fossae. Treatments tried so far include essential oils without improvement.

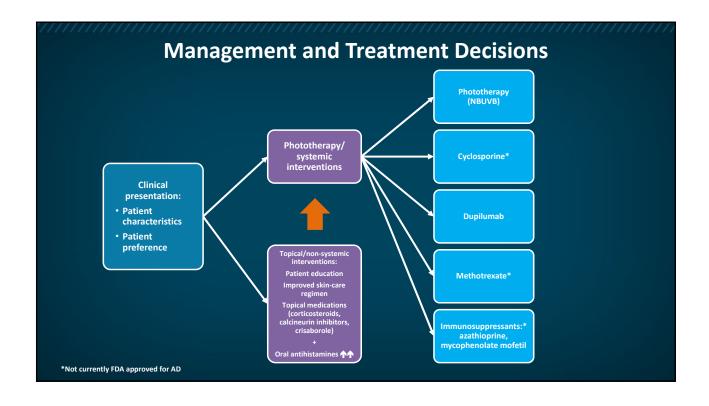
The next best step in treatment would be:

- A) Emollient barrier cream
- B) Topical therapy, emollient, and gentle skin care
- C) Oral corticosteroids
- D) Systemic therapy
- E) Referral for allergy testing

Photos: National Eczema Association



Atopic Dermatitis • Gentle skin care—avoid irritants (fragrance, etc) • Emollient to replace defective barrier—twice daily • Topical therapy: TCSs, topical calcineurin inhibitors, crisaborole, etc. • ± Bleach baths, topical antibiotics • Oral corticosteroids can lead to AD flares upon treatment withdrawal



Conclusions

- AD is a chronic disease with a significant impact on QoL
- A proactive approach is more effective than reactive treatment
- Proactive treatment is stepwise and based on severity
- Management can be difficult and potentially complicated by conflicting messages from different care-team members (clinicians and family)
- Adherence is key to successful therapy
- Evolving biomarkers and targeted treatments promise to revolutionize treatment

Thank You!



The New Paradigm in the Management of

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YOUTUBE ANIMATIONS

ATOPIC DERMATITIS PATIENT FACTORS https://youtu.be/dq_LngHSPFI

ATOPIC DERMATITIS CURRENT AND EMERGING AGENTS

https://www.youtube.com/watch?v=zKjbRobZ8gs

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Please visit the Atopic Dermatitis Thrive Initiative, which includes online CME offerings for clinicians and patients, toolkits, and a calendar of upcoming educational activities.