

Redefining Treat-to-target in Atopic Dermatitis: Towards Meaningful, Patient-centred Disease Control – An ISAD Position Paper

John SU^{1,2}, Andreas WOLLENBERG^{2,3,4,5}, Melanie FUNK⁶, Tina MESARIČ⁷, Brandon HU^{1,8}, Tammi SHIPOWICK⁹, Kelly BARTA¹⁰, Kristin BELLESON¹¹, Li-Chuen WONG¹², Kiu Han KIM¹³, Chia-Yu CHU¹⁴, Sandipan DHAR^{2,15}, Yoshiyuki KATAOKA¹⁶, Kin Fon LEONG¹⁷, Kam Lun Ellis HON¹⁸, Erere OTROFANOWE^{1,19}, Peter FOLEY^{1,20}, Lin MA^{2,21}, Yong Kwang TAY²², Marie LODÉN²³, Anousha YAZDABADI²⁴, Kathrin A. GIBSON²⁵, Jonathan D. AKIKUSA²⁶, Andrew ÖSTÖR²⁶, Connie KATELARIS²⁷, Frank THIEN²⁸, Michihiro FUTAMURA²⁹, Rie YOTSU³⁰, Peter SCHMID-GRENDELMEIER^{2,31,32} and Alain TAÏEB^{2*ID}

¹Department of Dermatology, Monash University, Eastern Health and Murdoch Children's Research Institute, Royal Children's Hospital, Melbourne, Australia, ²International Society of Atopic Dermatitis (ISAD), Davos, Switzerland, ³Department of Dermatology and Allergy, University Hospital Augsburg, Augsburg, Germany, ⁴Comprehensive Center for Inflammation Medicine, University Hospital Schleswig-Holstein, Lübeck, Germany, ⁵Department of Dermatology and Allergy, Ludwig Maximilian University, Munich, Germany, ⁶Eczema Support Australia, Hope Island, Australia, ⁷Institute Atopika, Maribor, Slovenia, ⁸Independent patient representative and physician trainee, Melbourne, Australia, ⁹GlobalSkin, Ottawa, Canada, ¹⁰International Topical Steroid Awareness Network (ITSAN), Atlanta, GA, United States, ¹¹National Eczema Association, Novato, CA, United States, ¹²Department of Dermatology, The Children's Hospital at Westmead, Sydney, Australia, ¹³Department of Dermatology, VHS Medical Center, Seoul, South Korea, ¹⁴Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, ¹⁵Department of Pediatric Dermatology, Kolkata, India, ¹⁶Department of Dermatology, Osaka Habikino Medical Center, Osaka, Japan, ¹⁷Department of Dermatology, Kuala Lumpur, Malaysia, ¹⁸Department of Pediatrics, CUHK Medical Centre, The Chinese University of Hong Kong, Hong Kong, China, ¹⁹Dermatology Unit, Department of Medicine, College of Medicine, University of Lagos, Lagos, Nigeria, ²⁰Skin Health Institute and The University of Melbourne, Melbourne, Australia, ²¹Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, China, ²²Department of Dermatology, Changi General Hospital, Singapore, Singapore, ²³Department of Dermatology and Pharmacy, Stockholm, Sweden, ²⁴Department of Dermatology, Eastern Health Clinical School, Monash Medical School, Monash University, Melbourne, Australia, ²⁵Department of Rheumatology, Liverpool Hospital, Sydney, Australia, ²⁶Rheumatology Service, Department of General Medicine, Royal Children's Hospital, Melbourne, Australia, ²⁷Allergy and Immunology Unit, Department of Medicine, Campbelltown Hospital, Sydney, Australia, ²⁸Department of Respiratory Medicine, Monash University, Eastern Health, Melbourne, Australia, ²⁹Department of Pediatrics and Allergy, National Hospital Organization Nagoya Medical Center, Nagoya, Japan, ³⁰Department of Tropical Medicine and Infectious Disease, Celia Scott Weatherhead School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States, ³¹Allergy Unit, Department of Dermatology, University Hospital Zurich, Switzerland, Davos, and ³²CK-CARE, Davos, Switzerland

Treat-to-target strategies link predefined goals to regular assessment and treatment adaptation. In atopic dermatitis, recent initiatives have mainly defined thresholds using clinician- and patient-reported outcomes. This review and position paper critically examines current approaches and proposes priorities for a more clinically meaningful, patient-centred and globally applicable framework. It synthesizes recent consensus and outcome-harmonization initiatives with selected lessons from rheumatoid arthritis and asthma and was informed by multidisciplinary, patient-inclusive discussions at an International Society of Atopic Dermatitis-World Health Organization premeeting. The workshop was not a Delphi or formal consensus exercise; it was used to identify conceptual priorities and implementation challenges for future international consensus work. Current proposals converge partly around severity thresholds and symptom control but insufficiently capture disease instability, comorbidities, family burden, treatment burden and real-world constraints. We propose 4 complementary domains: disease activity; symptoms and function; global patient health and disease impact and longitudinal control and treatment adaptation. Some components are supported by validated measures, whereas others remain exploratory. Treat-to-target in atopic dermatitis should evolve beyond isolated thresholds towards an adaptable multidimensional strategy, followed by formal international consensus and prospective validation.

SIGNIFICANCE

Current treat-to-target approaches in atopic dermatitis mainly rely on scores measured at a single visit. Patients, however, judge control by whether they sleep, work, study, participate in family and social life and avoid repeated flares and burdensome rescue treatment. This article proposes a broader framework that combines skin inflammation with symptoms, daily function, overall impact and stability over time. It is intended to guide a future formal international consensus rather than to present a completed consensus.

Key words: atopic dermatitis; treat-to-target; patient-centered care; disease control; patient-reported outcomes; minimal disease activity.

Submitted Jul 16, 2026. Accepted after revision Jul 28, 2026

Published Aug 11, 2026.

DOI: 10.2340/actadv.v106.10.2340/adv-2026-0868

Acta Derm Venereol 2026; 106: adv-2026-0868.

Corr: Alain Taieb, Inserm U1312, University of Bordeaux, Bordeaux, France. *Email: alain.taieb@u-bordeaux.fr

Treat-to-target (T2T) strategies have reshaped the management of chronic inflammatory diseases by replacing reactive care with structured, goal-oriented approaches. In rheumatology, T2T improved outcomes

because it linked measurable targets to regular assessment and timely treatment modification, progressively reducing uncontrolled disease and long-term damage (1–4).

In atopic dermatitis (AD), the rapid expansion of biologics and small molecules has created conditions for a similar shift. Recent initiatives have focused on defining clinically meaningful thresholds using clinician-reported outcome measures (ClinROMs) (5–7), harmonizing definitions and outcome measures (8–10) and linking thresholds to patient-reported outcome measures (PROMs) (11–15). These efforts are essential, but they remain largely rooted in clinical-trial logic and do not yet fully capture the complexity of AD in real-world settings, including disease instability, comorbidities (16), family burden, treatment access and sociocultural context.

The central challenge is therefore not simply to define targets but to ensure that they reflect what matters most to patients and remain usable (17) across different healthcare settings. This review and ISAD position paper build on published evidence and on a multidisciplinary, patient-inclusive workshop associated with an ISAD-WHO premeeting. Its aim is to clarify what T2T in AD should become if it is to guide practice rather than merely classify response.

Basis of the position paper

This article is a narrative synthesis and conceptual position paper, not a systematic review, guideline, Delphi exercise or completed consensus statement. It integrates published AD T2T initiatives and outcome-harmonization work with selected lessons from other specialties and themes arising from the workshop held before the 15th Rajka Symposium in Melbourne.

The workshop brought together dermatologists, specialists from rheumatology, respiratory medicine and allergy, patient representatives and participants with global-health perspectives. Its objectives were to identify limitations of current threshold-based approaches, explore patient-prioritized outcomes, compare relevant experience from other specialties and define questions for future formal international consensus work. The format included invited presentations and moderated multidisciplinary discussion; no formal voting, predefined consensus threshold or ranking procedure was used. Slides, discussion records and subsequent exchanges coordinated by ISAD informed drafting and iterative review by the author group.

Lessons from other specialties: From thresholds to meaning

Rheumatoid arthritis (RA) and asthma were selected as complementary comparators because both have mature

goal-oriented management strategies but emphasize different dimensions relevant to AD. RA illustrates the integration of composite disease-activity measures, patient global assessment, regular reassessment and treatment adaptation. Asthma illustrates the distinction between current control and future risk, including exacerbation prevention and treatment-related harm. These examples were not derived from a formal comparative review; they were chosen to illuminate specific conceptual and implementation questions in AD.

T2T strategies often begin with simple thresholds because thresholds facilitate standardization, communication, trials and regulatory dialogue. They become clinically transformative only when embedded in a broader framework that integrates patient experience, prognosis and repeated therapeutic adjustment. Some dimensions of such frameworks are already supported by validated outcome measures and consensus-derived thresholds, whereas others – including longitudinal adaptation models, broader psychosocial adaptation and artificial intelligence-assisted decision support – remain exploratory and require prospective validation.

In RA (Box 1), T2T succeeded because it combined early intervention, measurable disease activity and systematic treatment adaptation. A decisive advance was the move from isolated variables towards composite indices such as DAS28 and SDAI, which integrated clinician-reported findings with patient-reported measures, especially patient global assessment and function (18–20). This reflected an important conceptual distinction: disease activity and patient global health are related but not interchangeable. Subsequent work reinforced the importance of PROMs for treatment decisions, longitudinal monitoring and shared decision-making (21–25). Juvenile idiopathic arthritis T2T also relies on individualized patient-family targets, supporting the distinction between disease activity and disease impact as parallel targets (26).

RA teaches a second lesson: defining targets is not enough. Even where T2T is well established, many patients with persistent disease activity do not undergo treatment escalation. This implementation gap reflects clinician inertia, patient reluctance and system-level constraints. For AD, where access to specialists and advanced therapies is more variable, this lesson is especially relevant.

Asthma provides a complementary model (Box 2). Traditional asthma care was largely reactive, focused on symptoms, exacerbations and stepwise escalation after poor response. More recent approaches emphasize the balance between current control and future risk, including prevention of exacerbations, systemic corticosteroid toxicity and irreversible airway remodelling (27). This distinction between short-term

Box 1. Rheumatoid arthritis: key lessons for atopic dermatitis

- Targets matter only when linked to regular reassessment and treatment adaptation.
- The major advance in rheumatoid arthritis was the move towards composite indices integrating clinician- and patient-reported measures.
- Patient global assessment and function became central because disease activity alone did not capture total burden.
- For atopic dermatitis, single thresholds are useful starting points but are insufficient as final targets.

control and long-term risk is highly relevant to AD, where control, low disease activity and remission remain variably defined and often lack a sufficient longitudinal perspective, including long-term treatment burden. The asthma model also underscores the need for better phenotyping, earlier recognition of high-risk patients and realistic pharmacoeconomic thinking when maintenance therapies are costly.

Taken together, these specialties suggest that AD is still in an early phase of T2T development. Progress has been made in defining candidate thresholds and recognizing the importance of PROMs, but the field still lacks universally accepted composite targets, robust trajectory predictors and practical frameworks that link measurement to longitudinal, responsive care.

Can treat-to-target be adapted to atopic dermatitis?

If T2T is to be adapted to AD, the starting point should not be the metric, but the patient. AD cannot be reduced to a visible inflammatory skin disease. For patients and families, its burden lies in the cumulative disruption of sleep, school and work participation, self-confidence, social life and the ability to live without constant vigilance around flares and treatment.

From this perspective, control is not synonymous with complete skin clearance. It is better understood as recovery of normal life and confidence in a sustainable treatment plan. Patients' vision of control is summarized in Box 3. Minimal disease activity (MDA) reflects a state in which disease is still present but no longer dominates daily life.

At the current stage of AD therapeutic development, MDA may represent a realistic and clinically meaningful intermediate target for many patients, while definitions of remission continue to evolve alongside increasing therapeutic efficacy and improved understanding of long-term disease control. Multidimensional assessment may identify clinically important discordances between domains. Inflammatory skin signs may appear relatively controlled while itch, sleep disturbance, treatment

Box 2. Asthma: key lessons for atopic dermatitis

- Treat-to-target should address not only current symptoms but also future risk and long-term consequences.
- Defining remission is complex when disease activity, comorbidities and treatment-related risks interact.
- Effective treat-to-target requires better phenotyping, biomarkers and early recognition of high-risk patients.
- For atopic dermatitis, targets should incorporate disease trajectory, comorbidity burden and real-world feasibility.

Box 3. What control means for patients with atopic dermatitis

- Sleeping through the night without itch.
- Attending school or work without disruption.
- Participating normally in family and social life.
- Confidence in treatment and less time spent firefighting the disease.
- Feeling normal again, even when complete remission is not achievable.

burden, psychosocial distress or family impact remain substantial. Conversely, limited visible disease may coexist with marked instability or recurrent flares. In such situations, treatment decisions should not rely exclusively on snapshot severity scores, but on shared decision-making that integrates physician- and patient-prioritized outcomes.

These patient-centred definitions do more than illustrate burden; they redefine the therapeutic endpoint. Functional restoration, reduced vigilance and recovery of ordinary life are not secondary outcomes but core components of meaningful disease control. Comorbidities should also be identified and managed appropriately, even when they cannot be modified by the same treatment.

Once this patient-centred foundation is established, the physician perspective becomes clearer. AD is entering the same transitional phase seen previously in psoriasis, RA and asthma: effective targeted therapies make T2T increasingly feasible, but appropriate targets remain incompletely defined. Adult AD T2T proposals have identified converging but still variable targets, including EASI-75 or greater for response, EASI thresholds ranging from ≤ 7 to $\leq 3-5$ for low disease activity, DLQI < 5 (28) and control of key symptoms such as itch and sleep disturbance (11–15, 17). Thresholds for low disease activity, very low disease activity and remission have also been proposed by

international expert consensus using EASI, vIGA-AD and PP-NRS (29). These are important advances, but they do not yet constitute a complete T2T strategy.

One reason is that AD is not static. Snapshot severity may miss clinically meaningful instability, flare tendency, or rapid extension from localized hotspots to generalized disease. Long-term trajectories also remain incompletely predictable. Early intensive intervention may eventually prove justified in selected high-risk subgroups, but current criteria are not sufficiently robust to support routine implementation.

The paediatric perspective sharpens these issues. Paediatric inflammatory diseases such as juvenile idiopathic arthritis have successfully adopted T2T principles (26), but paediatric AD introduces additional complexity: developmental stage, family burden, safety over years of exposure, cultural context and the possibility of spontaneous remission all affect target selection. Adolescents may be particularly affected by self-image concerns and disruption of leisure and physical activities. Family impact is therefore central rather than peripheral to paediatric target-setting.

A final challenge is global applicability. T2T frameworks developed in highly resourced settings often assume access to advanced therapies, repeated scoring, specialist follow-up and longitudinal tracking that are unavailable in much of the world. In many settings, pragmatic targets based on optimized topical management, education, trigger reduction and simplified assessment tools may be more appropriate than biologic-centred remission goals. A viable AD T2T strategy must therefore be rigorous, scalable and adaptable. Implementation may require distinguishing a pragmatic minimum dataset suitable for routine care – for example, inflammatory severity assessment combined with itch, sleep and patient global impact – from more comprehensive multidimensional assessments feasible in specialized centres or digitally supported longitudinal care models.

Drawing on the RA model, treatment strategy and tight disease control may be as important as drug choice. In RA, T2T approaches using conventional disease-modifying antirheumatic drugs have achieved effective and cost-efficient control (30). In AD, the advent of new systemic therapies offers an opportunity to revisit and optimize conventional treatments (31) within structured T2T strategies, potentially improving outcomes across diverse healthcare settings.

Conclusion and perspectives

T2T represents a major opportunity to improve outcomes in AD, but its success will depend on moving beyond isolated thresholds towards a multidimensional and adaptable framework integrating disease activity with symptoms, function and global patient health. It must also remain responsive to disease trajectory, age,

comorbidity burden, treatment burden and healthcare context. **Table I** presents an evidence-informed conceptual framework that includes validated measures alongside emerging tools and future-oriented concepts (32–40). This framework represents the authors’ evidence-informed conceptual proposal. Its purpose is to organize priorities for the planned international consensus process involving ISAD and collaborating organizations.

The first 3 domains are relatively well defined, although their optimal weighting remains unresolved. The 4th domain – longitudinal control and treatment adaptation – is less clearly delineated and includes related but not yet standardized concepts such as flare control, flare prevention, disease stability, escalation and de-escalation. This is a major priority for future consensus work.

Key gaps include the absence of consensus on composite targets and disease states, limited biomarkers for treatment adaptation and underrepresentation of disease instability, comorbidities, family burden, socioeconomic burden and real-world constraints. Variability in access to care and monitoring capacity further challenges implementation. Validated age-stratified targets and clear de-escalation criteria in paediatric AD are also lacking.

The field is characterized by multiple parallel initiatives – threshold analyses, consensus statements and outcome-harmonization projects – that are necessary but risk fragmentation. The next step should

Table I. Proposed domains for a future international treat-to-target framework in atopic dermatitis

Domain	What should be assessed	Examples/tools	Main unresolved issues
Disease activity	Inflammatory severity and extent	EASI, vIGA-AD, SCORAD	Which thresholds are most relevant across settings?
Symptoms and function	Itch, sleep, pain, daily activities	PP-NRS, POEM, PO-SCORAD, DLQI, CDLQI, FDLQI, ADCT, sleep scales, PRIDD	How should symptom burden be weighed against skin signs?
Global patient health/disease impact	Psychological burden, family impact, social confidence, broader psychosocial adaptation and coping	Patient global assessment, family-reported burden	How should broader well-being be incorporated into composite targets?
Longitudinal control and treatment adaptation	Reassessment, escalation, tapering, disease trajectory	Flare frequency, disease stability, treatment adjustments; future AI-assisted decision support	What is the optimal balance between ambition, validation, and feasibility?

ADCT: Atopic Dermatitis Control Tool; AI: artificial intelligence; CDLQI: Children’s Dermatology Life Quality Index; DLQI: Dermatology Life Quality Index; EASI: Eczema Area and Severity Index; FDLQI: Family Dermatology Life Quality Index; POEM: Patient-Oriented Eczema Measure; PO SCORAD: Patient-Oriented SCORAD; PP-NRS: Peak Pruritus Numerical Rating Scale; PRIDD: Patient Reported Impact of Dermatological Diseases; SCORAD: SCORing Atopic Dermatitis; vIGA-AD: Validated Investigator Global Assessment for Atopic Dermatitis.

be a formal international, multidisciplinary consensus involving dermatology, patients, relevant specialties and diverse resource settings. Prospective studies should then determine which combinations of targets best predict meaningful long-term outcomes, feasibility in routine care and patient-perceived control. T2T strategies must remain applicable across a spectrum of therapeutic availability rather than assuming access to biologics as a baseline (41, 42).

For AD, T2T will become transformative only when measurement, patient experience and clinical decision-making are articulated within a shared vision between healthcare professionals and patients. The future consensus process offers an opportunity to move from isolated metrics towards a unified strategy centred on meaningful and sustainable disease control.

ACKNOWLEDGEMENTS

We thank Laurent Elgard, ISAD Chief Executive Officer, for coordinating the meeting, collecting presentations and discussion records, and organizing the ISAD platform used for subsequent exchanges during manuscript development. We also thank Bernadette Cappello of the WHO Essential Medicines List Secretariat and Catherine Scarff of the Australian Department of Health, Disability and Ageing for their participation in the meeting. Their participation does not imply endorsement of the proposed framework by their institutions.

Funding sources: The workshop was funded by the International Society of Atopic Dermatitis as part of the ISAD WHO premeeting preceding the 15th Rajka Symposium, held in Melbourne, Australia, on 23 October 2025.

Data Availability: The data that support the findings of this study are available from the corresponding author upon reasonable request.

Conflict of interest: No commercial support or input was received for this manuscript. Alain Taieb is President, Andreas Wollenberg is Secretary, and Peter Schmid-Grendelmeier is Treasurer of ISAD. Kathrin A. Gibson is an employee and minor shareholder of Eli Lilly Australia; Eli Lilly provided no support or input to this project. Tina Mesarič is founder and director of Zavod Atopika and serves on the boards or committees of GlobalSkin, the EAACI Patient Organization Committee, GAAPP (Global Allergy and Airways Patient's Platform), and EFA (European Federation of Allergy). Other individual disclosures, where applicable, will be provided in the submission system.

REFERENCES

- van der Heijde DM, van 't Hof MA, van Riel PL, Theunisse LA, Lubberts EW, van Leeuwen MA, et al. Judging disease activity in clinical practice in rheumatoid arthritis: first step in the development of a disease activity score. *Ann Rheum Dis* 1990; 49: 916–920. <https://doi.org/10.1136/ard.49.11.916>
- Felson DT, Smolen JS, Wells G, Zhang B, van Tuyl LHD, Funovits J, et al. American College of Rheumatology/European League Against Rheumatism provisional definition of remission in rheumatoid arthritis for clinical trials. *Arthritis Rheum* 2011; 63: 573–586. <https://doi.org/10.1002/art.30129>
- Schett G, Emery P, Tanaka Y, Burmester G, Pisetsky DS, Naredo E, et al. Tapering biologic and conventional DMARD therapy in rheumatoid arthritis: current evidence and future directions. *Ann Rheum Dis* 2016; 75: 1428–1437. <https://doi.org/10.1136/annrheumdis-2016-209201>
- Smolen JS, Aletaha D, Barton A, Burmester GR, Emery P, Firestein GS, et al. Rheumatoid arthritis. *Nat Rev Dis Primers* 2018; 4: 18001. <https://doi.org/10.1038/nrdp.2018.1>
- Severity scoring of atopic dermatitis: the SCORAD index. Consensus Report of the European Task Force on Atopic Dermatitis. *Dermatology* 1993; 186: 23–31. <https://doi.org/10.1159/000247298>
- Hanifin JM, Thurston M, Omoto M, Cherill R, Tofte SJ, Graeber M. The eczema area and severity index (EASI): assessment of reliability in atopic dermatitis. EASI Evaluator Group. *Exp Dermatol* 2001; 10: 11–18. <https://doi.org/10.1034/j.1600-0625.2001.100102.x>
- Simpson E, Bissonnette R, Eichenfield LF, Guttman-Yassky E, King B, Silverberg JJ, et al. The Validated Investigator Global Assessment for Atopic Dermatitis (vIGA-AD): the development and reliability testing of a novel clinical outcome measurement instrument for the severity of atopic dermatitis. *J Am Acad Dermatol* 2020; 83: 839–846. <https://doi.org/10.1016/j.jaad.2020.04.104>
- Wollenberg A, Christen-Zäch S, Taieb A, Paul C, Thyssen JP, de Bruin-Weller M, et al. ETFAD/EADV Eczema task force 2020 position paper on diagnosis and treatment of atopic dermatitis in adults and children. *Acad Dermatol Venereol* 2020; 34: 2717–2744. <https://doi.org/10.1111/jdv.16892>
- Williams HC, Schmitt J, Thomas KS, Spuls PI, Simpson EL, Apfelbacher CJ, et al. The HOME Core outcome set for clinical trials of atopic dermatitis. *J Allergy Clin Immunol* 2022; 149: 1899–1911. <https://doi.org/10.1016/j.jaci.2022.03.017>
- Wollenberg A, Simpson EL, Leshem YA, Taieb A, Katoh N, Chao J, et al. Severity bands for atopic dermatitis measures: analysis from adult dupilumab randomized clinical trials. *J Eur Acad Dermatol Venereol* 2026; 40: 1218–1226. <https://doi.org/10.1111/jdv.70310>
- De Bruin-Weller M, Biedermann T, Bissonnette R, Deleuran M, Foley P, Girolomoni G, et al. Treat-to-target in atopic dermatitis: an international consensus on a set of core decision points for systemic therapies. *Acta Derm Venereol* 2021; 101: adv00402. <https://doi.org/10.2340/00015555-3751>
- Silverberg JJ, Gooderham M, Katoh N, Aoki V, Pink AE, Binamer Y, et al. Combining treat-to-target principles and shared decision-making: International expert consensus-based recommendations with a novel concept for minimal disease activity criteria in atopic dermatitis. *Acad Dermatol Venereol* 2024; 38: 2139–2148. <https://doi.org/10.1111/jdv.20229>
- Vestergaard C, Skovsgaard C, Johansen C, Deleuran M, Thyssen JP. Treat-to-target in atopic dermatitis. *Am J Clin Dermatol* 2024; 25: 91–98. <https://doi.org/10.1007/s40257-023-00827-y>
- Gkini MA, Alexander H, Barfoot M, Barea A, Beattie PE, Kreeshan FC, et al. Set targets, assess response, intervene early to achieve minimal disease activity in atopic dermatitis (STRIVE AD): a modified Delphi consensus project to optimize management of atopic dermatitis in the United Kingdom. *JAAD Int* 2026; 25: 56–68. <https://doi.org/10.1016/j.jdin.2025.11.028>
- Eichenfield LF, Lio PA, Irvine AD, Apfelbacher CJ, Kabashima K, Praetstgaard AH, et al. Identifying the most relevant Eczema Area and Severity Index thresholds from the patient perspective in atopic dermatitis treatment. *Am J Clin Dermatol* 2026; 27: 647–656. <https://doi.org/10.1007/s40257-026-01017-2>
- Thyssen JP, Vestergaard C, Deleuran M, de Bruin-Weller MS, Bieber T, Taieb A, et al. European Task Force on Atopic Dermatitis (ETFAD): treatment targets and treatable traits in atopic dermatitis. *Acad Dermatol Venereol* 2020; 34: e839–e842. <https://doi.org/10.1111/jdv.16716>
- De Bruin-Weller M, Deleuran M, Biedermann T, Bissonnette R, Foley P, Girolomoni G, et al. The treat-to-target project in atopic dermatitis: one year on. *Acta Derm Venereol* 2023; 103: adv5382. <https://doi.org/10.2340/actadv.v103.5382>
- Meenan RF, Gertman PM, Mason JH. Measuring health status in arthritis. The arthritis impact measurement scales. *Arthritis*

- Rheum 1980; 23: 146–152. <https://doi.org/10.1002/art.1780230203>
19. van der Heijde DM, van't Hof MA, van Riel PL, van Leeuwen MA, van Rijswijk MH, van de Putte LB. Validity of single variables and composite indices for measuring disease activity in rheumatoid arthritis. *Ann Rheum Dis* 1992; 51: 177–181. <https://doi.org/10.1136/ard.51.2.177>
 20. Felson DT, Anderson JJ, Boers M, Bombardier C, Chernoff M, Fried B, et al. The American college of rheumatology preliminary core set of disease activity measures for rheumatoid arthritis clinical trials. *Arthritis Rheum* 1993; 36: 729–740. <https://doi.org/10.1002/art.1780360601>
 21. Harrison MJ, Davies LM, Bansback NJ, McCoy MJ, Verstappen SMM, Watson K, et al. The comparative responsiveness of the EQ-5D and SF-6D to change in patients with inflammatory arthritis. *Qual Life Res* 2009; 18: 1195–1205. <https://doi.org/10.1007/s11136-009-9539-2>
 22. Pincus T, Askanase AD, Swearingen CJ. A multi-dimensional health assessment questionnaire (MDHAQ) and routine assessment of patient index data (RAPID3) scores are informative in patients with all rheumatic diseases. *Rheum Dis Clin North Am* 2009; 35: 819–827. <https://doi.org/10.1016/j.rdc.2009.10.017>
 23. Barton JL, Imboden J, Graf J, Glidden D, Yelin EH, Schillinger D. Patient-physician discordance in assessments of global disease severity in rheumatoid arthritis. *Arthritis Care Res* 2010; 62: 857–864. <https://doi.org/10.1002/acr.20132>
 24. Nikiphorou E, Radner H, Chatzidionysiou K, Desthieux C, Zabalán C, van Eijk-Hustings Y, et al. Patient global assessment in measuring disease activity in rheumatoid arthritis: a review of the literature. *Arthritis Res Ther* 2016; 18: 251. <https://doi.org/10.1186/s13075-016-1151-6>
 25. Ferreira RJO, et al. Patient-reported outcomes in rheumatoid arthritis: integration into treat-to-target strategies. *Rheumatology* 2020; 59: 1137–1147.
 26. Ravelli A, Consolaro A, Horneff G, Laxer RM, Lovell DJ, Wulffraat NM, et al. Treating juvenile idiopathic arthritis to target: recommendations of an international task force. *Ann Rheum Dis* 2018; 77: 819–828. <https://doi.org/10.1136/annrheumdis-2018-213030>
 27. Lommatzsch M, Blumchen K, Beck LA, Bousquet J, Brusselle GG, Fokkens WJ, et al. Roads to remission: evolving treatment concepts in type 2 inflammatory diseases. *EclinicalMedicine* 2025; 18: 103050. <https://doi.org/10.1016/j.eclinm.2024.103050>
 28. Finlay AY, Khan GK. Dermatology Life Quality Index (DLQI)--a simple practical measure for routine clinical use. *Clin Exp Dermatol* 1994; 19: 210–216. <https://doi.org/10.1111/j.1365-2230.1994.tb01167.x>
 29. Merola JF, Childs BA, Bartley BR, Bissonnette R, Bieber T, Guttman-Yassky E, et al. International Eczema Council definitions of low disease activity and remission in atopic dermatitis. *JAMA Dermatol* 2026; 162: 631. <https://doi.org/10.1001/jamadermatol.2026.0662>
 30. Drosos AA, Pelechas E, Voulgari PV. Treatment strategies are more important than drugs in the management of rheumatoid arthritis. *Clin Rheumatol* 2020; 39: 1363–1368. <https://doi.org/10.1007/s10067-020-05001-x>
 31. Flohr C, Rosala-Hallas A, Jones AP, Beattie P, Baron S, Browne F, et al. Efficacy and safety of ciclosporin versus methotrexate in the treatment of severe atopic dermatitis in children and young people (TREAT): a multicentre parallel group assessor-blinded clinical trial. *Br J Dermatol* 2023; 189: 674–684. <https://doi.org/10.1093/bjd/ljad281>
 32. Pattinson R, Trialonis-Suthakharan N, Pickles T, Austin J, FitzGerald A, Augustin M, et al. Measurement properties and interpretability of the Patient-Reported Impact of Dermatological Diseases (PRIDD) measure. *Br J Dermatol* 2024; 191: 936–948. <https://doi.org/10.1093/bjd/ljae267>
 33. Li M, Liu Q, Chen Y, Liu Y, He C, Li J. Construction and evaluation of an artificial intelligence assistant decision-making system focused on the treat-to-target framework and full process management for atopic dermatitis: study protocol for a randomized controlled trial. *JCM* 2025; 14: 3015. <https://doi.org/10.3390/jcm14093015>
 34. Lewis-Jones MS, Finlay AY. The Children's Dermatology Life Quality Index (CDLQI): initial validation and practical use. *Br J Dermatol* 1995; 132: 942–949. <https://doi.org/10.1111/j.1365-2133.1995.tb16953.x>
 35. Basra MKA, Sue-Ho R, Finlay AY. The Family Dermatology Life Quality Index: measuring the secondary impact of skin disease. *Br J Dermatol* 2007; 156: 528–538. <https://doi.org/10.1111/j.1365-2133.2006.07617.x>
 36. Charman CR, Venn AJ, Williams HC. The patient-oriented eczema measure: development and initial validation of a new tool for measuring atopic eczema severity from the patients' perspective. *Arch Dermatol* 2004; 140: 1513–1519. <https://doi.org/10.1001/archderm.140.12.1513>
 37. Stalder JF, Barbarot S, Wollenberg A, Holm EA, De Raevé L, Seidenari S, et al. Patient-Oriented SCORAD (PO-SCORAD): a new self-assessment scale in atopic dermatitis validated in Europe. *Allergy* 2011; 66: 1114–1121. <https://doi.org/10.1111/j.1398-9995.2011.02577.x>
 38. Faye O, Meledie N'Djong AP, Diadie S, Coniquet S, Niamba PA, Atadokpede F, et al. Validation of the Patient-Oriented SCORing Atopic Dermatitis tool for black skin. *Acad Dermatol Venereol* 2020; 34: 795–799. <https://doi.org/10.1111/jdv.15999>
 39. Yosipovitch G, Reaney M, Mastey V, Eckert L, Abbé A, Nelson L, et al. Peak Pruritus Numerical Rating Scale: psychometric validation and responder definition for assessing itch in moderate-to-severe atopic dermatitis. *Br J Dermatol* 2019; 181: 761–769. <https://doi.org/10.1111/bjd.17744>
 40. Simpson E, Eckert L, Gadkari A, Mallya UG, Yang M, Nelson L, et al. Validation of the Atopic Dermatitis Control Tool (ADCT©) using a longitudinal survey of biologic-treated patients with atopic dermatitis. *BMC Dermatol* 2019; 19: 15. <https://doi.org/10.1186/s12895-019-0095-3>
 41. van der Rijst LP, van Royen-Kerkhof A, Pasmans SGMA, Schappin R, de Bruin-Weller MS, de Graaf M. Biologicals for pediatric patients with atopic dermatitis: practical challenges and knowledge gaps. *J Dermatolog Treat* 2023; 34: 2254567. <https://doi.org/10.1080/09546634.2023.2254567>
 42. Faye O, Flohr C, Kabashima K, Ma L, Paller AS, Rapelanoro FR, et al. Atopic dermatitis: a global health perspective. *J Eur Acad Dermatol Venereol* 2024; 38: 801–811. <https://doi.org/10.1111/jdv.19723>