













PSORIASIS AND ATOPIC DERMATITIS OVERLAP: ANOTHER INCIDENTAL CASE?



Onivola RAHAROLAHY, MD1

Malalaniaina ANDRIANARISON, MD¹

Fandresena Arilala SENDRASOA, MD¹

Irina Mamisoa RANAIVO, Prof, MD²

Lala Soavina RAMAROZATOVO, Prof, MD¹

Fahafahantsoa RAPELANORO RABENJA, Prof, MD¹

(1)Dermatology Dept, University Hospital Befelatanana, Antananarivo, Madagascar

(2)Dermatology and Infectious Diseases Dept, University Hospital Place Kabary, Antsiranana, Madagascar

CONFLICT OF INTEREST:

15th Georg RAJKA

DOU International Symposium on Atopic Dermatitis

RNG 24-26 OCT 2025 AUSTRALIA



Learning Objective

PSO and AD overlap: clinical and histological, molecular features



Take home messages

- ✓ PSO and AD: a disease spectrum rather than distinct entities?
- ✓ Challenging management in resource-limited settings, in particular in the case of failure of first-line therapies









- Male Malagasy patient
- 52-year-old
- Personal history : asthma, atopic rhinoconjunctivitis
- Family history: psoriasis
- For 3 years: chronic pruritus, oozing, scaling of scalp, facial seborrheic areas, major skin folds, genitals, no response to antifungals / sulfur shampoo
- Flare-ups : cold weather, stress
- Lichenification, prurigolike eruption, postinflammatory dyschromia
- Xerosis, Dennie-Morgan sign

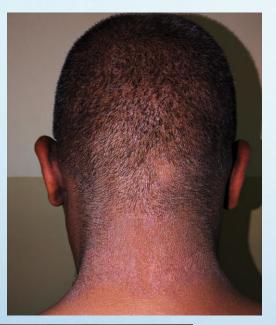
CASE REPORT





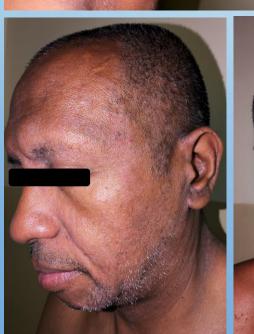


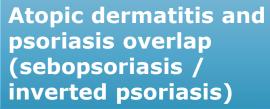
CASE REPORT











PASI 10,5/72 SCORAD 48,9/103 **DLQI 18/30**

Topical corticosteroid calcipotriol



Atopic dermatitis (AD) and psoriasis (PSO) overlap

CASE REPORT

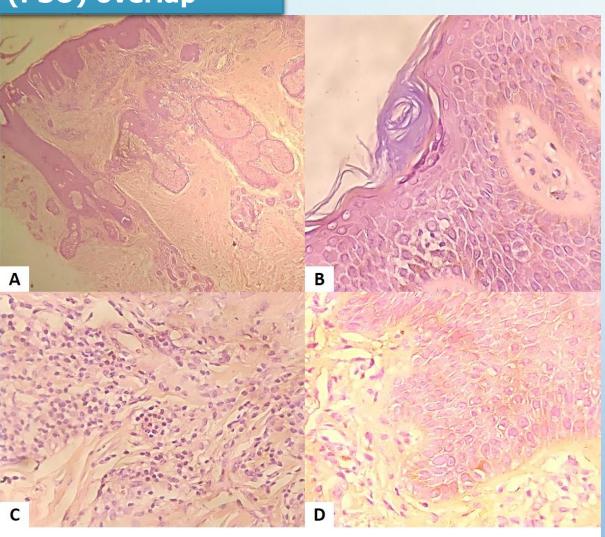


Image courtesy of Prof F. Tsitohery Andriamampionona and Dr Joelle Razafimahefa, Dept. of Anatomo-pathology, University Hospital of Andrainjato, University of Fianarantsoa, Madagascar (A): elongation of epidermal ridges, psoriasiform appearance, hyperplasia of skin appendages (HE x100)

(B): hyperkeratosis and slight spongiosis (HE x400)

(C): lymphocytic inflammatory infiltrate with some neutrophils and eosinophils (HE x400)

(D):

- Spongiotic epidermis with a few vacuolized cells in the basal layer
- Superficial and perivascular dermal inflammatory infiltrate (HE x400)



DISCUSSION



Letter to the Editor

Psoriasis dermatitis: an overlap condition of psoriasis and atopic dermatitis in children

T.A. Kouwenhoven 🔀 I.M.G.J. Bronckers, P.C.M. van de Kerkhof, M. Kamsteeg, M.M.B. Seyger

First published: 13 August 2018 | https://doi.org/10.1111/jdv.15213 | Citations: 19

- More frequent in pediatric population (and more studied in Asian descent)
- Scarce epidemiological data in adult population
- No diagnostic criteria so far !
- About 4% pediatric psoriasis outpatients: clinical features of both PSO and AD, even after a longer follow –up (1.2 years)
- Might need other therapeutic interventions compared to pediatric PSO patients



DISCUSSION



Back to Broad? How Molecular Profiling Facilitates NVESTIGATIVE Targeted Therapies of Overlapping Phenotypes



- Six Inflammatory Skin Diseases patterns:
 - lichenoid pattern (Th1/ innate lymphoid cell [ILC]1 pattern)
 - eczematous and bullous patterns (Th2/ILC2 pattern)
 - psoriatic pattern (Th17/ILC3/Th22 pattern)
 - fibrogenic and granulomatous patterns (regulatory T cell pattern)
- AD and PSO overlap: sharing Th17 and Th22
- Immunological patterns might vary across different ethnicities



DISCUSSION

H&E

Genomic profiling of the overlap phenotype between psoriasis and atopic dermatitis

Jeong Eun Kim^{1,2}, Jongmi Lee, MD, PhD³, Yun Jung Huh, MD¹, Katherine Kim³, Vasuma Chaparala³, James G. Krueger, MD, PhD⁴, Jaehwan Kim, MD, PhD^{3,4,5,*}

Clinical overlap phenotype between PSO and AD:

- SCORAD and EASI lower than in classic AD
- Histopathological features: no statistically significative hallmark (epidermal thickness, keratinocyte hyperproliferation)
- long-standing lichenified lesions of AD: psoriasiform epidermal hyperplasia with little or no spongiosis
- Dominant molecular features of PSO: NOS2, IL36G
- → personalized treatment choice



Classic psoriasis (PS)

Epidermal thickness

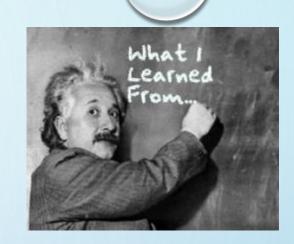
400

200

Classic atopic dermattis (AD) Overlap phenotype (Overlap)



TAKE HOME MESSAGES



PSO and AD overlap

- neither clinical nor histological hallmarks, molecular features closer to PSO
- PSO and AD: a disease spectrum rather than distinct entities?
- Challenging management in resource-limited settings:

failure of first-line therapies → targeted therapies





