

Atopic dermatitis: a disease of childhood?

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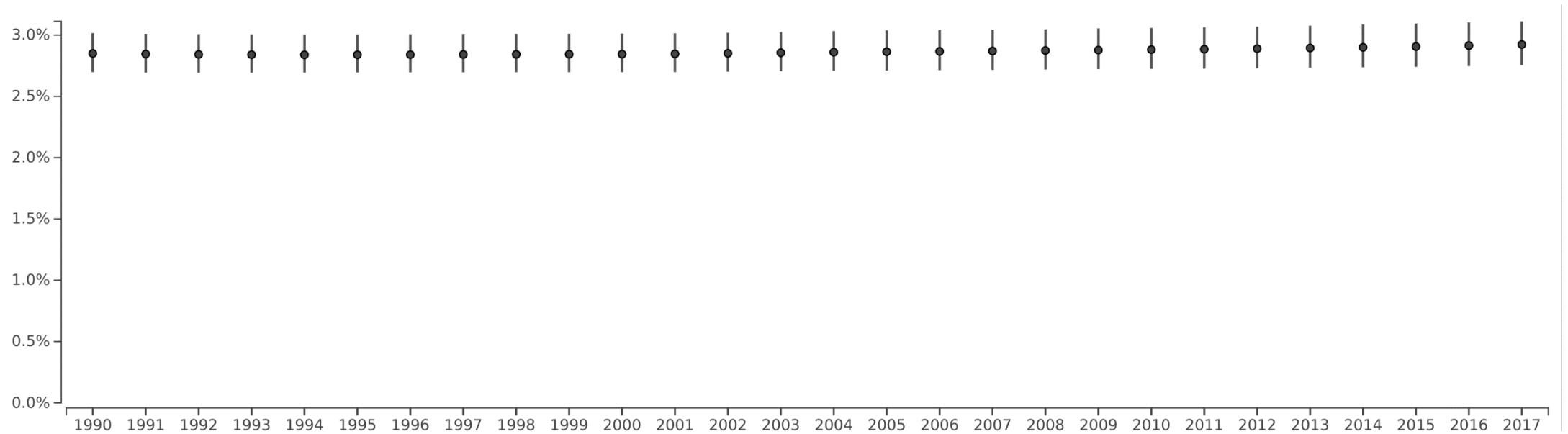
Disclosures

Consultancy and honoraria

- National Eczema Association
- British Journal of Dermatology
- American Academy of Dermatology

Prevalence and impact of atopic dermatitis

Global age-standardized Prevalence



Prevalence of atopic dermatitis

US

- Children: 11%
- Adults: 7%

Ontario

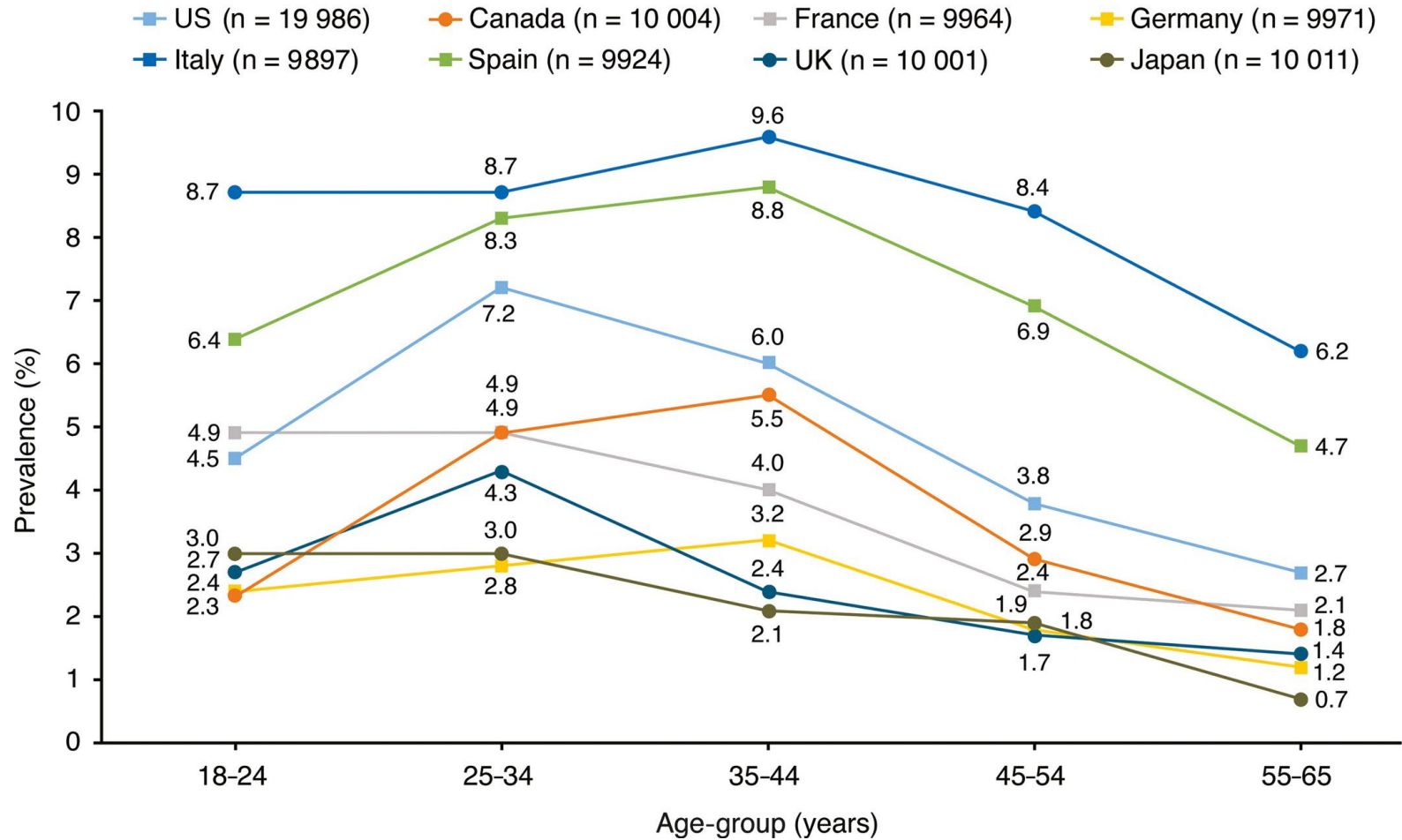
- Children: 10%
- Adults: 2%

Shaw TE et al. *The Journal of investigative dermatology*. 2011;131(1):67-73.

Silverberg JI et al. *The Journal of investigative dermatology*. 2015;135(1):56-66.

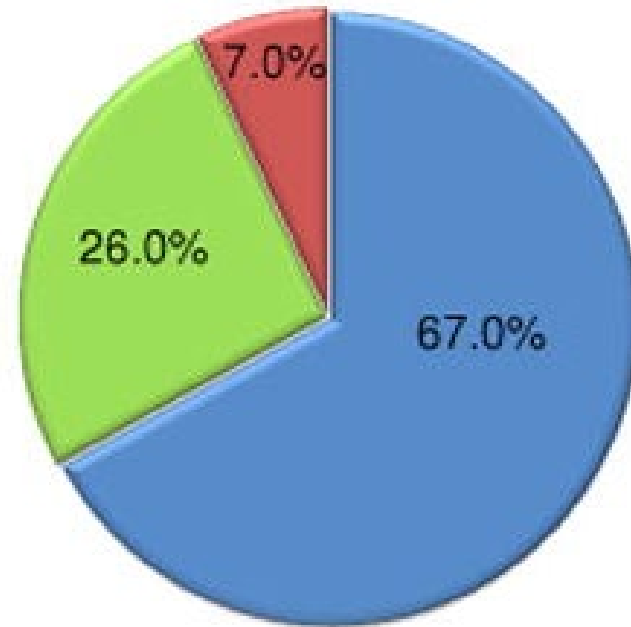
Drucker AM et al. In preparation.

International prevalence - adults

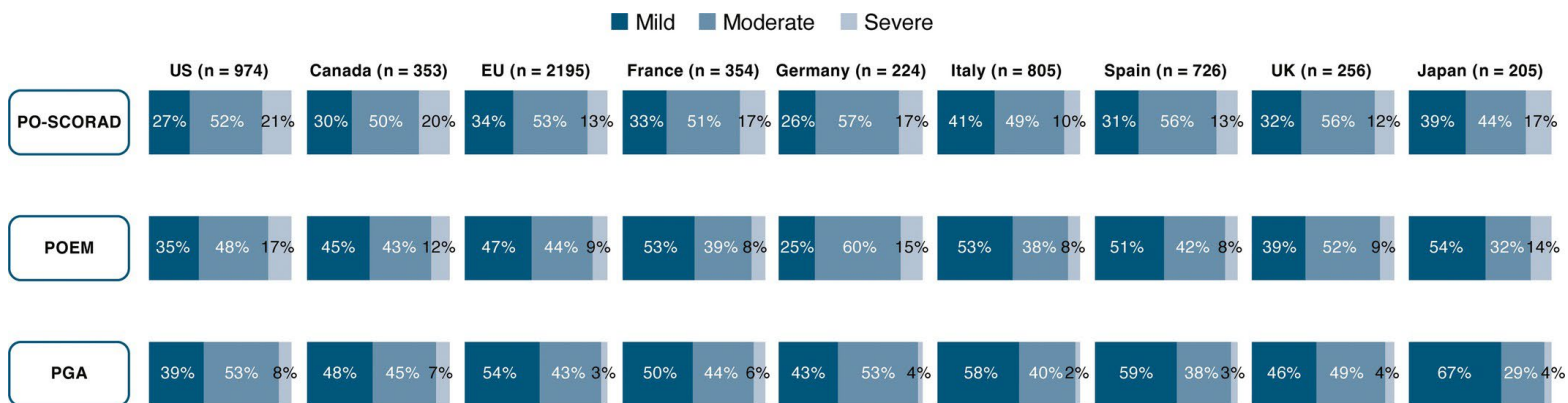


Severity spectrum of childhood AD

■ Mild ■ Moderate ■ Severe



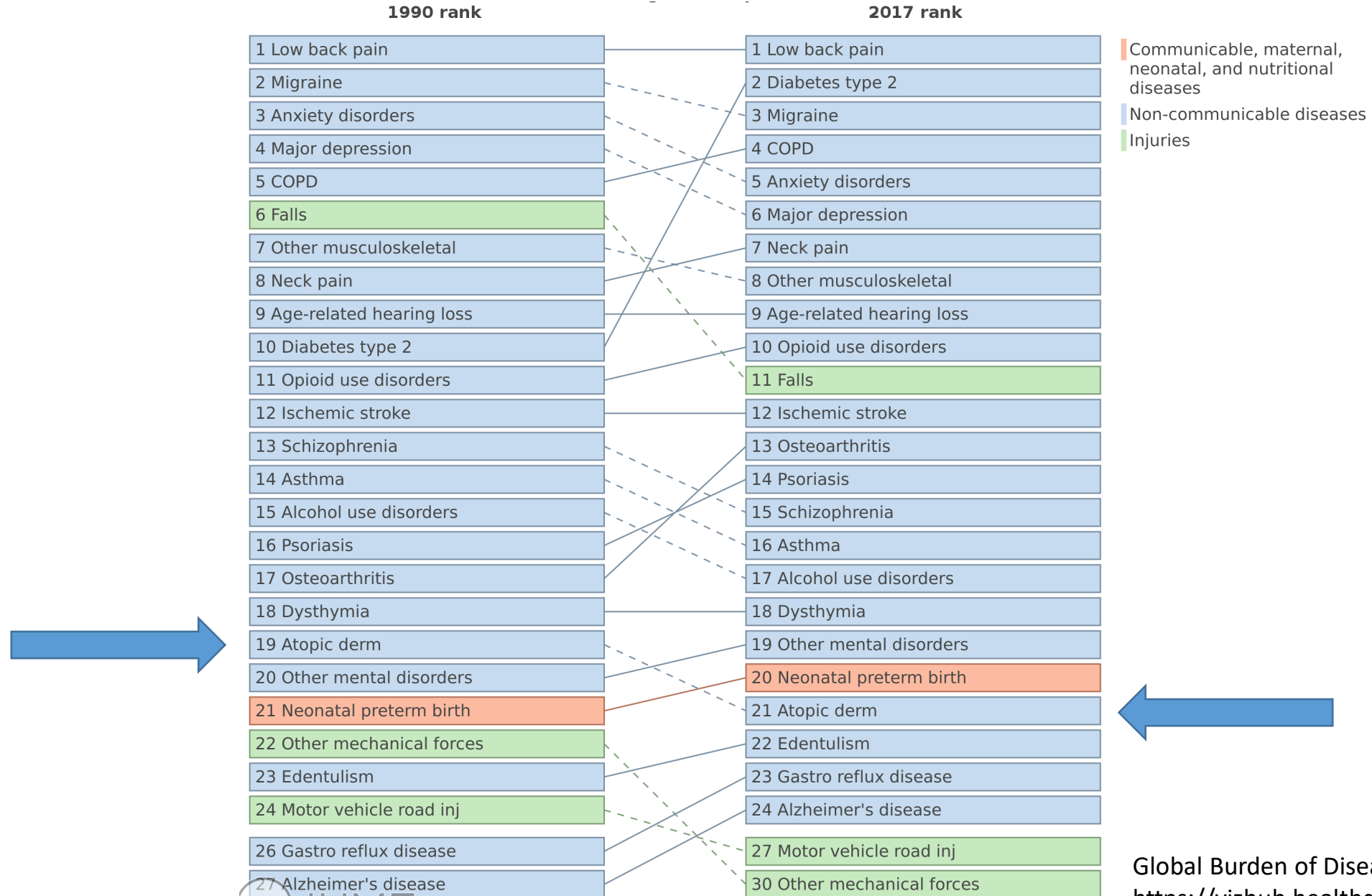
Severity spectrum of adult AD



Barbarot S et al. *Allergy*. 2018 Jun;73(6):1284-1293.

| USA | | | |
|----------|-----------|------|-----|
| | PO-SCORAD | POEM | PGA |
| Mild | 27% | 35% | 39% |
| Moderate | 52% | 48% | 53% |
| Severe | 21% | 17% | 8% |

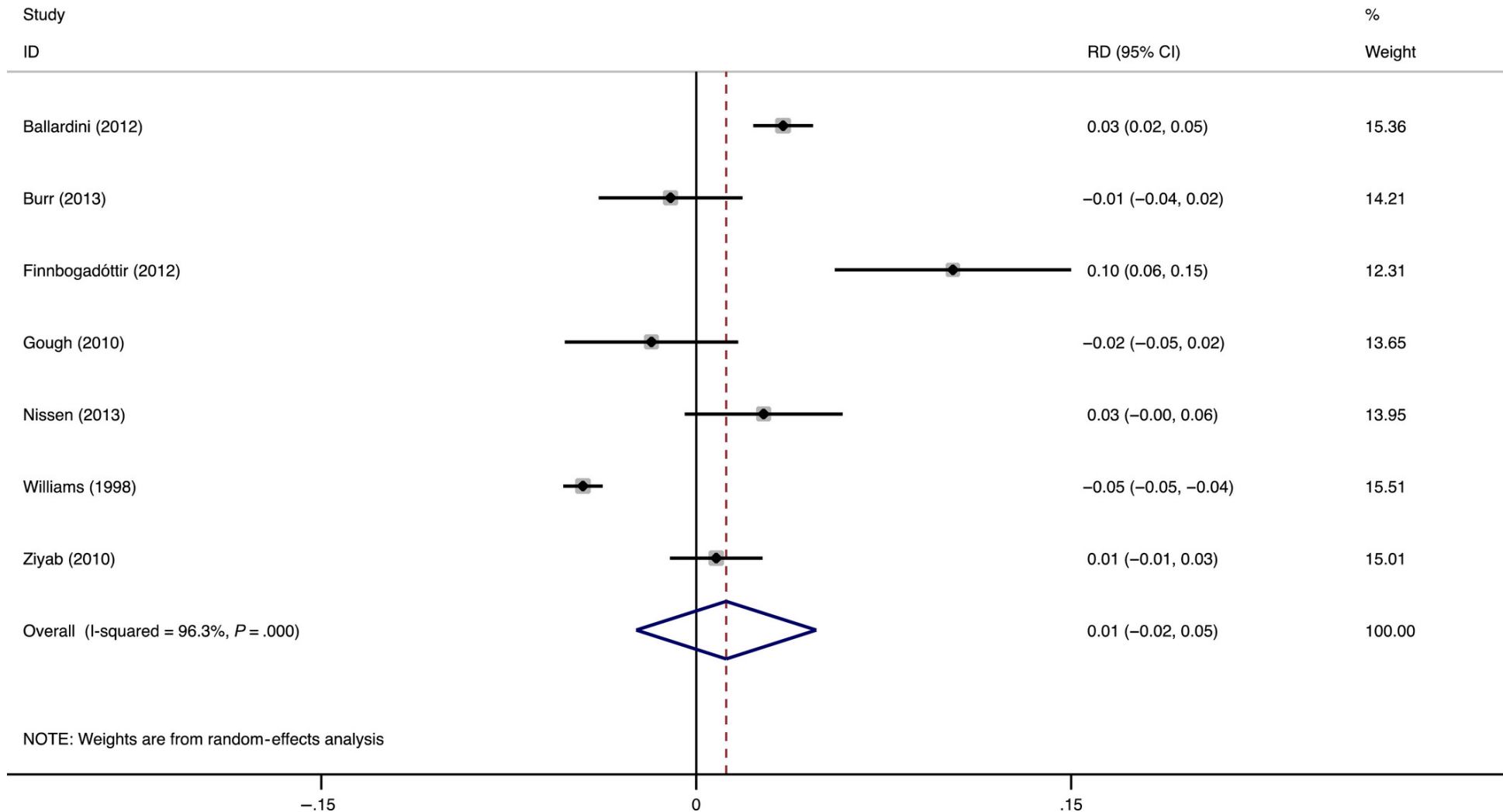
Years lived with disability (US)



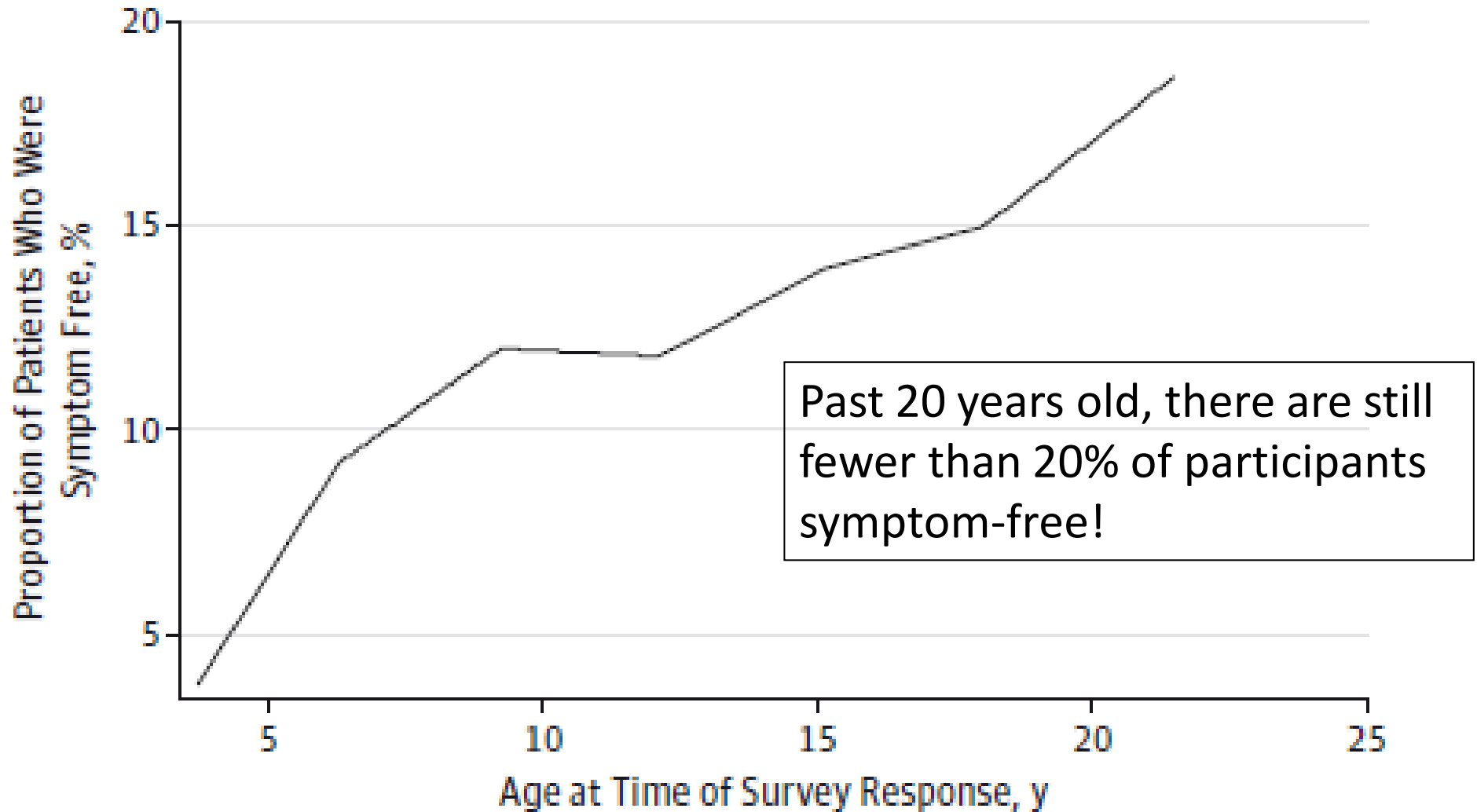
Global Burden of Disease Study 2017.
<https://vizhub.healthdata.org/gbd-compare/>

What do you tell parents when they ask whether their child will outgrow their atopic dermatitis?

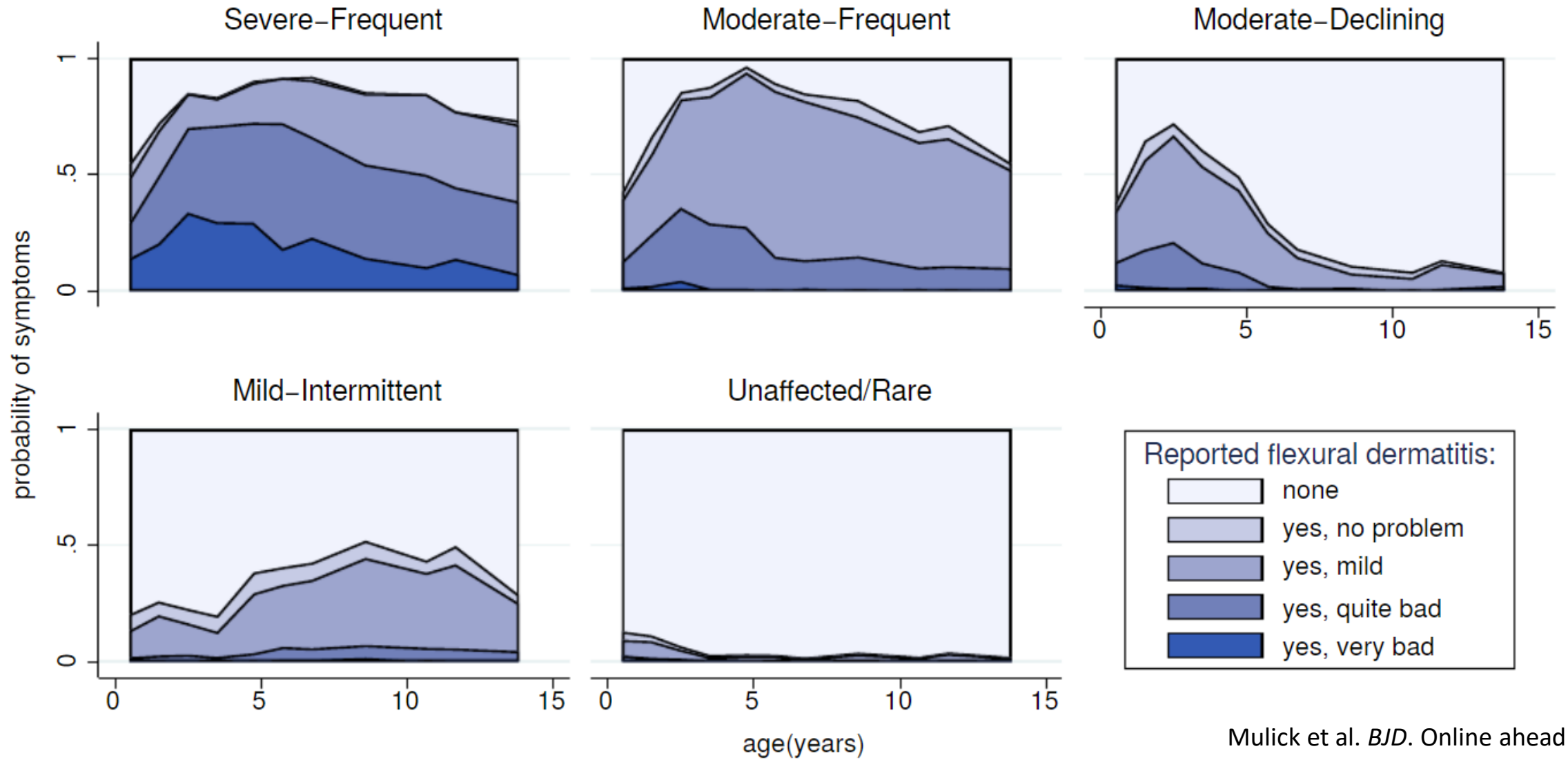
Meta-analysis of prevalence over time in birth cohorts



Proportion of enrollees by age with no medication use and no symptoms



Disease activity over time



Predictors of persistence and severity

- Atopic comorbidities
- Family history of atopy
- Non-white race
- Low socioeconomic status

Mulick et al. *BJD*. Online ahead of print.

Abuabara K et al. *J Allergy Clin Immunol*. 2018 Feb;141(2):778-780.

Paternoster L et al. *J Allergy Clin Immunol*. 2018 Mar;141(3):964-971.

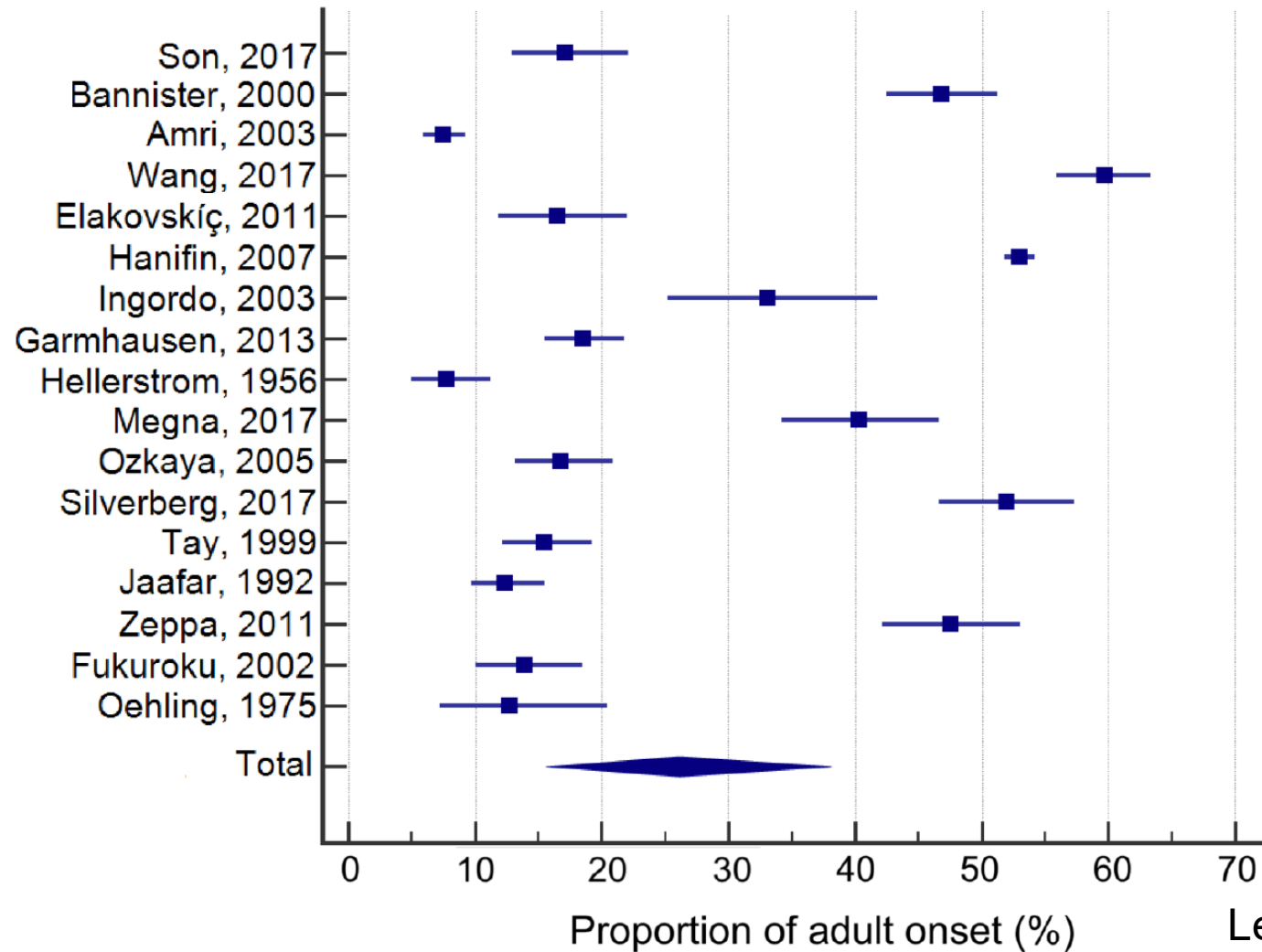
Roduit C et al. *JAMA Pediatr*. 2017 Jul 1;171(7):655-662.

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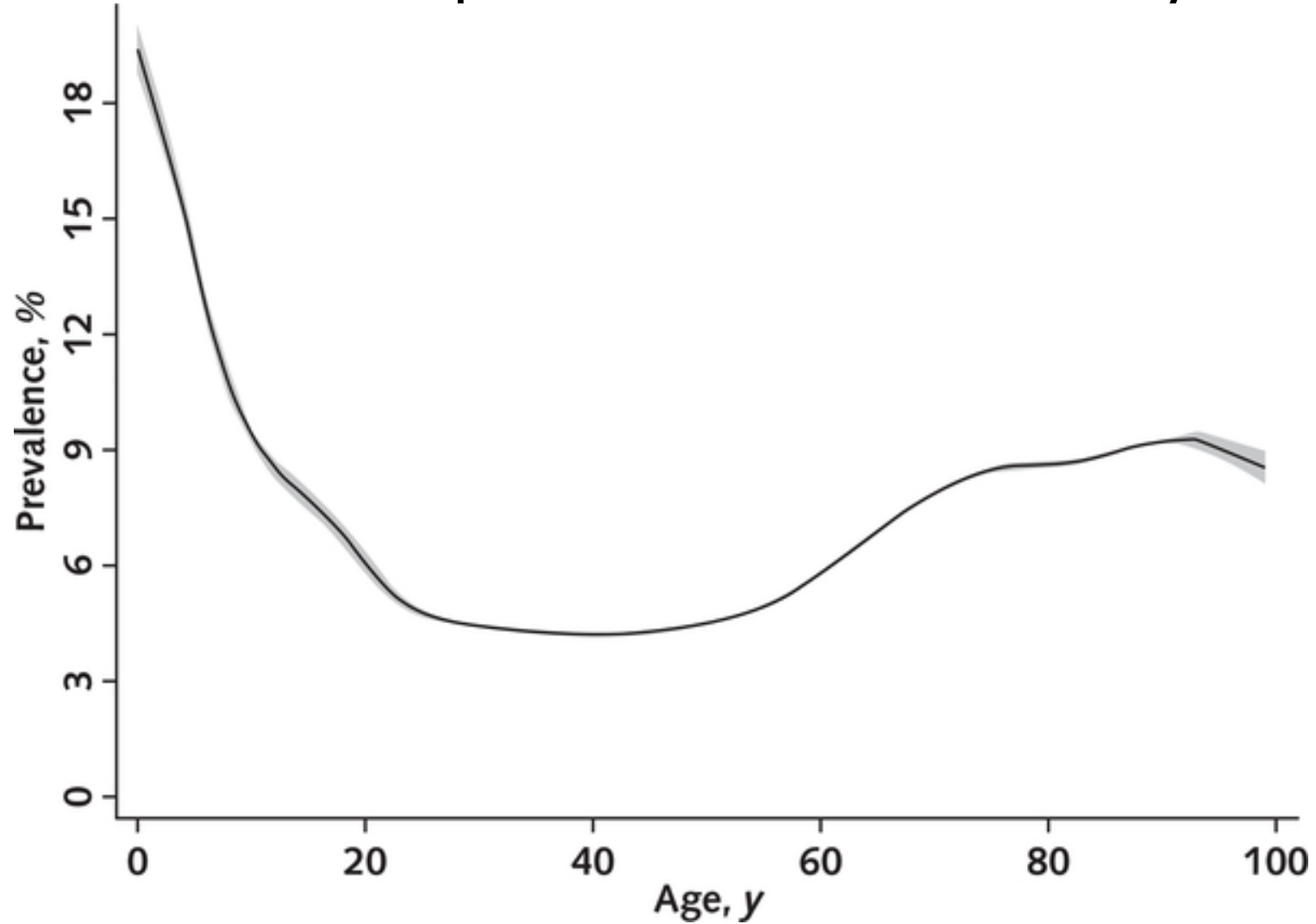
- A higher proportion likely persist than previously thought
- Important predictors:
 - Personal history of other atopic conditions
 - Family history of other atopic conditions
 - Marginalized communities

Can atopic dermatitis begin in adulthood?

Adult-onset atopic dermatitis



A second peak in the elderly?



JAMA Dermatology | Review

Inclusion of Older Adults in Randomized Clinical Trials for Systemic Medications for Atopic Dermatitis A Systematic Review

Megan Lam, BSc; Jie Wei Zhu, BHSc; Talha Maqbool, MD; Gaelen Adam, MLIS, MPH; Mina Tadrous, PharmD, PhD;
Paula Rochon, MD, MPH; Aaron M. Drucker, MD, ScM

Summary

- Atopic dermatitis is common, even in adults
 - Childhood disease likely persists more than previously thought
 - Adult-onset disease is common
 - There may be a second peak in the elderly
- Most patients do not have severe disease but those that do have substantially impaired quality of life
 - Severe disease is more common among adults

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