



## Yew Yik Weng

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### Research Interests:

- Atopic Dermatitis & Skin Microbiome
- Molecular & Genetic Epidemiology
- Disease burden & outcomes Research

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## Biography

Yik Weng is a Senior Consultant Dermatologist and Head of Research at the National Skin Centre (NSC) with strong clinical and research interests in atopic dermatitis (AD), psoriasis dermato-epidemiology and, disease outcomes research, with close to 90 peer reviewed scientific publications. He is currently the deputy head of the NSC Research Division and head of Eczema clinic, NSC. He obtained his MBBS from the Yong Loo Lin School of Medicine, NUS in 2006 and completed his training as a dermatologist in 2014 at NSC. After his dermatology training, he obtained a Masters of Public Health to further his training in epidemiology research from the Harvard School of Public Health, USA in 2015 as part of his Health Manpower Development Plan award. He was subsequently awarded the National Healthcare Group Clinician Scientist Career Scheme award in 2016 and completed his PhD studies at Lee Kong Chian School of Medicine, NTU, Singapore in 2021 to study disease prevalence and risk factors associations of atopic dermatitis in a general adult population cohort (HELIOS cohort).

He is active in various types of research in atopic dermatitis (AD). He is significantly involved in the design and analysis of several population-based cohort studies to understand the prevalence and disease burden among children and adults in Singapore. He is also involved in numerous phase 3 AD biologic trials in Singapore as the site Principal investigator as well as a co-investigator of a local phase 1b AD biologic trial. Other ongoing collaborative AD research with various institutes, e.g. LKCMedicine, NUS, A\*STAR, include studies on serum biomarkers, skin microbiome and skin bioimaging as well as quality of life studies in AD. He also collaborates with other international experts on other AD research projects and is currently an associate member of the International Eczema Council since 2017.

He has also obtained numerous grants, notably the National Medical Research Council (NMRC) New Investigator Grant in 2018 to study treatment of nail psoriasis with microneedles and the NMRC Transitional Award in July 2020 to investigate the effect of adiposity on skin barrier function in a general population cohort.

## Selected Publications

- Tay ASL, Li C, Nandi T, Chng KR, Andiappan AK, Mettu VS, de Cevins C, Ravikrishnan A, Dutertre CA, Wong XFCC, Qi Ng AH, Matta SA, Ginhoux F, Röttschke O, Chew FT, Tang MBY, **Yew YW**, Nagarajan N, Common JEA. [Atopic dermatitis microbiomes stratify into ecological dermatotypes enabling microbial virulence and disease severity](#). J Allergy Clin Immunol. 2020 Oct 8;S0091-6749(20)31399-3.  
(IF:10.228)
- **Yew YW**, Loh M, Thng STG, Chambers JC. [Investigating causal relationships between Body Mass Index and risk of atopic dermatitis: a Mendelian randomization analysis](#). Sci Rep. 2020 Sep 17;10(1):15279  
(IF:3.998)
- **Yew YW**, Dinish US, Yu Kuan AH, Li X, Dev K, Ebrahim Attia AB, et al. [Raster-scanning optoacoustic mesoscopy \(RSOM\) imaging as an objective disease severity tool in atopic dermatitis patients](#). J Am Acad Dermatol. 2020 Jun 16; S0190-9622(20)31142-7.  
(IF: 8.277)
- Xu X, Galen LS, Bajpai R, Koh MJ, Thng S, **Yew YW**, et al. [Factors Influencing Family Burden of Paediatric Patients with Atopic Dermatitis: A Cross-sectional Study](#). Acta Derm Venereol. 2020 Jul 28;100(14).  
(IF: 3.007)
- **Yew YW**, Zhao X, Apfelbacher CJ. [The Patient-Oriented Eczema Measure: estimating the minimal important change in an outpatient clinic cohort](#). J Eur Acad Dermatol Venereol. 2020 Jun;34(6):1273-1279.  
(IF:5.113)
- Olsson M, Bajpai R, Wee LWY, **Yew YW**, Koh MJA, Thng S, et al. [The cost of childhood atopic dermatitis in a multi-ethnic Asian population: a cost-of-illness study](#). Br J Dermatol. 2020 May;182(5):1245-1252  
(IF:7.00)
- Abuabara K, Ye M, McCulloch CE, Sullivan A, Margolis DJ, Strachan DP, Paternoster L, **Yew YW**, Williams HC, Langan SM. [Clinical onset of atopic eczema: Results from 2 nationally representative British birth cohorts followed through midlife](#). J Allergy Clin Immunol. 2019 Sep;144(3):710-719.  
(IF:14.110)
- MJ, Thng S, **Yew YW**, et al. [Factors Influencing Family Burden of Paediatric Patients with Atopic Dermatitis: A Cross-sectional Study](#). Acta Derm Venereol. 2020 Jul 28;100(14).  
(IF: 3.007)

- **Yew YW**, Zhao X, Apfelbacher CJ. [The Patient-Oriented Eczema Measure: estimating the minimal important change in an outpatient clinic cohort.](#) J Eur Acad Dermatol Venereol. 2020 Jun;34(6):1273-1279.  
(IF:5.113)
- Olsson M, Bajpai R, Wee LWY, **Yew YW**, Koh MJA, Thng S, et al. [The cost of childhood atopic dermatitis in a multi-ethnic Asian population: a cost-of-illness study.](#) Br J Dermatol. 2020 May;182(5):1245-1252  
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- Abuabara K, Ye M, McCulloch CE, Sullivan A, Margolis DJ, Strachan DP, Paternoster L, **Yew YW**, Williams HC, Langan SM. [Clinical onset of atopic eczema: Results from 2 nationally representative British birth cohorts followed through midlife.](#) J Allergy Clin Immunol. 2019 Sep;144(3):710-719.  
(IF:14.110)
- **Yew YW**, Thyssen JP, Silverberg JI. [A systematic review and meta-analysis of the regional and age-related differences in atopic dermatitis clinical characteristics.](#) J Am Acad Dermatol . 2019 Feb;80(2):390-401.  
(IF:8.277)
- Kok WL, **Yew YW**, Thng TG. [Comorbidities Associated with Severity of Atopic Dermatitis in Young Adult Males: A National Cohort Study.](#) Acta Derm Venereol. 2019 Jun 1;99(7):652-656.  
(IF:3.007)

#### Notable Research/Innovation Awards & Grants from Past 5 Years

Name of Awards and Grants	Year Obtained
NHG Clinician Scientist Career Scheme (CSCS)	2017
National Medical Research Council (NMRC) Clinician Scientist Individual Research Grant – New Investigator Grant (CSIRG-NIG)	2018
National Medical Research Council (NMRC) Transition Award (TA)	2020