

Tang Wern Ee

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Research/Innovation Interests:

- Chronic Disease Management
- Respiratory
- Health Literacy

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Biography

A/Prof Tang Wern Ee is a Family Physician, Senior Consultant, Director of the Clinical Research Unit and Information Management & Analytics, as well as the Chief Data Officer at the National Healthcare Group Polyclinics. She is also Assistant Dean, Family Medicine at the Lee Kong Chian School of Medicine. She completed her basic medical education and Masters in Medicine (Family Medicine) at the National University of Singapore and her Masters in Health Professions Education at the MGH Institute of Health Professions (Boston). She is also a Fellow of the College of Family Physicians, Singapore. She has special interests in chronic disease management, health literacy and health services research in primary care.

Selected Publications

- Ko Y, Lee JY, Toh MP, **Tang WE**, Tan AS. Development and validation of a general health literacy test in Singapore. Health Promot Int. 2012 Mar;27(1):45-51. doi: 10.1093/heapro/dar020. Epub 2011 Apr 5. PMID: 21467097.
- Ko Y, Balasubramanian TD, Wong L, Tan ML, Lee E, **Tang WE**, Chan SC, Tan AS, Toh MP. Health literacy and its association with disease knowledge and control in patients with hypertension in Singapore. Int J Cardiol. 2013 Oct 9;168(4):e116-7. doi: 10.1016/j.ijcard.2013.08.041. Epub 2013 Aug 15. PMID: 23992931.
- Tang WE, Dong L. Applying mastery learning in a clinical skills training program for primary care nurses. J Contin Educ Nurs. 2013 Dec;44(12):535-41; quiz 542-3. doi: 10.3928/00220124-20131015-13. Epub 2013 Oct 22. PMID: 24143886.

- Lee ES, **Tang WE**. The prevalence of albuminuria among diabetic patients in a primary care setting in Singapore. Singapore Med J. 2015 Dec;56(12):681-6. doi: 10.11622/smedj.2015189. PMID: 26702164; PMCID: PMC4678408.
- Malhotra R, Bautista MAC, Tan NC, Tang WE, Tay S, Tan ASL, Pouliot A, Saffari SE, Chei CL, Vaillancourt R. Bilingual Text With or Without Pictograms Improves Elderly Singaporeans' Understanding of Prescription Medication Labels. Gerontologist. 2019 Mar 14;59(2):378-390. doi: 10.1093/geront/gnx169. PMID: 29190378.
- Chong PN, **Tang WE**. Transforming primary care-the way forward with the TEAMS2 approach. Fam Pract. 2019 May 23;36(3):369-370. doi: 10.1093/fampra/cmy074. PMID: 30215701; PMCID: PMC6531894.
- Sim SZ, Teo SH, Kong JW, Lim Z, Ng MYK, **Tang WE**. COVID-19 in Singapore a case series from primary care. Singapore Med J. 2021 Jan;62(1):48-51. doi: 10.11622/smedj.2020082. Epub 2020 May 27. PMID: 33619580; PMCID: PMC8027156.
- Phua CY, Zheng L, Tan NC, **Tang WE**, Elizabeth Smith H. Review of the quality of printed patient education materials on asthma available in primary care in Singapore. J Asthma. 2020 Jul;57(7):787-798. doi: 10.1080/02770903.2019.1602876. Epub 2019 May 6. PMID: 31056964.
- **Tang WE**, Abisheganaden J. Real-world data to measure and improve quality of asthma care. Annals Academy of Medicine Singapore. 2023 Oct 30;52:491-2. https://doi.org/10.47102/annals-acadmedsg.2023349
- Low S, Moh A, Pandian B, Zheng H, Pek S, Liu JJ, Ang K, Kwan TK, Tang WE, Lim Z, Subramaniam T, Sum CF, Lim SC. Double product is longitudinally associated with reduced cognitive function in type 2 diabetes with insights from cross-lagged panel analysis and mediation by leucine-rich α-2-glycoprotein 1. J Alzheimers Dis. 2025 May 22:13872877251344881. doi: 10.1177/13872877251344881. Epub ahead of print. PMID: 40400349.
- Mary Lee, Khoo HS, Krishnasamy C, Loo ME, Wong SKW, Cheng SC, Bei E, Tan SY, Xie P, Lee ES, Tang WE. Experiences of living with overweight/obesity and early type 2 diabetes in Singapore A qualitative interview study. BMJ Open. 2024 May 7;14(5):e079082. doi: 10.1136/bmjopen-2023-079082.
- Chua YCE, Lin YC, Lew JK, Wong SKW, Soon WSW, Wan J, Abdin E, Subramaniam M, Tang WE, Lee ES. Prevalence and risk factors of depression and anxiety in primary care. ANNALS, Academy of Medicine, Singapore. 2024 May 10; 53(5):293-305. https://doi.org/10.47102/annals-acadmedsg.2023195

Notable Research/Innovation Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
Nanyang Awards 2021 – Nanyang Education Award (School Award)	2021
National Healthcare Group–Tanoto Foundation Reversing Diabetes	2022
Programme	2022
NMRC Open Fund - Large Collaborative Grant for 'The Academic Respiratory	2024
Initiative for Pulmonary Health (TARIPH)'	2024

Translating Research/Innovation Into Healthcare

- <u>'Don't skip the asthma inhaler just because you feel fine'</u> featured in The Straits Times on 9 May 2025
- 'Lose the weight and the diabetes: S'pore healthcare group's latest battle plan in war against disease' featured in The Straits Times on 6 Aug 2022



- <u>'Local study lowers blood sugar levels with lifestyle changes'</u> featured in Lianhe Zaobao on 5 Aug
 2022
- <u>'Two agencies launch diabetes reversal program to change patients' eating habits to lower blood sugar levels'</u> featured in Lianhe Zaobao on 7 Aug 2022
- 'Diabetes reversal programme helps patients lower blood sugar levels through changing lifestyle behaviours' featured in Shin Min Daily News on 7 Aug 2022

逆转糖尿病计划助病患 通过生活饮食降血糖

国立健保集团与陈江和基金 会合作推出逆转糖尿病计划,研 究通过改变病患的生活和饮食习 惯,不靠药物降低血糖水平。

为期三年的计划包括针对100名肥胖糖尿病病患的临床研究,当中50人在首三个月会通过代客将卡路里摄入量控制在800,接下来三个月逐步恢复健康饮食,实结后再分两个介入月的人则作为续级照组对比效果。研究人员希望病足组对比效重,研究人员希望病至18个月后改善至健康水平。

研究将在今年第四季招募参与者,条件包括年龄介于21岁至60岁、患病不超过六年、没有其他并发症也没在注射胰岛素,以及身体质量指数(BMI)介于27



▲糖尿病病患阿马尔有意参加逆转糖 尿病计划。(张思庆摄)

《联合早报》报道,到了2050年,本地预计将有100万名成年人受到第二型糖尿病困扰,2017年的一项英国研究则发现,近半数糖尿病患者可通过体重管理让血糖降回健康水平。