



George Glass Fredrick Jr

Senior Nurse Researcher, Nursing Implementation,
Translation & Research Office (NITRO), Nursing Service, Tan
Tock Seng Hospital

Research Interests:

- Artificial Intelligence
- Human-Computer Interaction
- Health Digitalization
- Implementation Science
- Caregivers of older persons

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Biography

George Glass is a Senior Nurse Researcher at Tan Tock Seng Hospital. His undergraduate nursing training was at the University of Edinburgh. He focused on quantitative research methodology and regression modelling in his Master of Science of Medicine (Clinical Epidemiology) at the University of Sydney. He completed the Foundations in Artificial Intelligence Programme with AI Singapore in 2024.

He is now pursuing his PhD with LKCMedicine, a recipient of both the NMRC-Research Training Fellowship and NHGHealth Clinician Scientist Fellowship, studying the development and usage of trusted, acceptable and explainable Artificial Intelligence (AI) decision support systems to support clinical decision-making.

He led the development of a mobile application to better equip and enable caregivers of older persons. This includes the development of recommendation systems to 'push' appropriate content to users based on their profiled needs.

He has developed 2 Artificial Intelligence (AI) assistants to support nurses to date, one being a dementia chatbot simulator to teach and assess users on their communication techniques and an AI assistant for scientific abstract writing, NITRO P.A.W.S.

Selected Publications

- Glass GF, Wong, HT, Ong, TT, Lim, HP, Tan, LW, Chin, PSL. (2025) Hacking Forward: CHI-FLYING Hackathon Shaping Tomorrow's Solutions. HealthManagement 25(3) URL:

<https://healthmanagement.org/c/healthmanagement/IssueArticle/hacking-forward-chi-flying-hackathon-shaping-tomorrows-solutions>

- Glass GF, Goh CCK, Cheong RQ, Ong ZL, Khong PCB, Chan EY. (2021) Effectiveness of skin cleanser and protectant regimen on incontinence-associated dermatitis outcomes in acute care patients: A cluster randomised trial. *Int Wound J.* Dec;18(6):862-873. DOI: 10.1111/iwj.13588 Epub 2021 May 7. PMID: 33960676.
- Glass GF, Tan H, Chan EY. (2021) Effect of an evidence-based poster on the knowledge of delirium and its prevention in student nurses: A quasi-experimental study. *Contemp Nurse.* Dec;57(6):462-471. DOI: 10.1080/10376178.2022.2044872 Epub 2022 Mar 9. PMID: 35184674.
- Chan, EY, Glass, GF, Hoi, SY, Leong, I, Tan, C, Li, C. (2024) Project Carer Matters 2: Strengthening the Ecosystem to support Family Caregivers of Older Persons *HealthManagement* 24(5) URL: <https://healthmanagement.org/c/healthmanagement/issuearticle/project-carer-matters-2-strengthening-the-ecosystem-to-support-family-caregivers-of-older-persons>
- Chan EY, Glass GF, Cheong RQ, Chin GF, Chng DYJ. (2021) Patient Activation and its Predictors in Hospitalized Older Adults in Singapore. *Geriatr Nurs.* 2021 Mar-Apr;42(2):336-343. DOI: 10.1016/j.gerinurse.2021.01.006 Feb 6. PMID: 33556900.
- Chan, EY, Wu, LT, Ng, EJY, Glass GF, Tan HTR (2022) Applying the RE-AIM framework to evaluate a holistic caregiver-centric hospital-to-home programme: a feasibility study on Carer Matters. *BMC Health Serv Res* 22, 933. <https://doi.org/10.1186/s12913-022-08317-3>

Notable Research Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
National Medical Research Council Research Training Fellowship	2025
NHG Health Clinician Scientist Fellowship	2025
Singapore Nursing Award (Gold)	2023
NMRC National Innovation Challenge on Active and Confident Ageing – Project Carer Matters 2 (Co-investigator)	2022

Translating Research Into Healthcare

- 16 Sep 2025, Straits Times
Link: <https://www.straitstimes.com/singapore/health/ttsh-introduces-new-portal-to-help-guide-caregivers>

- 27 Feb 2022, Channel News Asia:
Link: [Commentary: Caregiver collapse is real and hospitals can smoothen the transition home](#)
- 4 Jul 2019, The Straits Times:
Link: [More help for caregivers to cope emotionally with roll-out of new TTSH programme](#)
- 5 Jul 2019, The Straits Times:
Link: [Pilot scheme to check on caregivers' emotional well-being](#)