



T'ng Kuan Chen Zenne

Senior Principal Speech Therapist (ST), Speech Therapy, Tan Tock Seng Hospital

Research Interests:

- Workforce Transformation
- Healthcare Education
- Artificial Intelligence and Telehealth
- Dysphagia, Modified Consistencies Invention

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Biography

Zenne obtained her MSc in Healthcare Professions Education from the Massachusetts General Hospital Institute of Health Professions in 2018. She has established her clinical specialty in intensive care and the management of patients with tracheostomy tubes and ventilators after receiving training at Massachusetts General Hospital and Johns Hopkins Hospital in 2014, under the HMDP program.

Zenne has held various clinical and leadership roles in the hospital and beyond. She headed the Speech Therapy department at Tan Tock Seng Hospital (TTS defence, 2014-2023) and has contributed significantly to inter-professional education, quality improvement, and healthcare innovation. This is evident as she is an adjunct faculty member at NHG College, a core member of the TTS defence Allied Health Education Taskforce, the NHG Tele-rehabilitation Workgroup, the NHG Staff Mobility Steering Committee, the NHG Clinical Practice Improvement Program, TTS defence Multi-D Workgroup in sustainability etc. Zenne has also joined NHG Group Allied Health as Assistant Director to drive Allied Health's strategies 2023-2025.

Beyond NHG, Zenne serves on the Allied Health Professional Council (ST), the ST Entrustable Professional Activities Working Committee, and the Continuing Professional Education Committee (Allied Health) to contribute to the setting of standards for education, conduct, and practice. Zenne has also been appointed as the Director of the Centre for Allied Health and Pharmacy Excellence (CAPE) and Faculty member for the Centre for Healthcare Innovation (CHI) in 2025, leading workforce transformation initiatives and building a knowledge management system for healthcare innovation. Zenne has worked with a group of like-minded individuals to found the Future Leaders and Young Innovators Guild (FLYING) in 2018, which aspires to bring together generations of future leaders and young innovators to build, transform, and lead the health of tomorrow beyond the shores of Singapore.

Selected Publications

- To Improve and Standardize Inter-professionals Knowledge and Skills in Tracheostomy Care, phase I- Abstract published in Singapore Healthcare Biomedical Congress 2013, Co-author.
- To Improve and Standardize Inter-professionals Knowledge and Skills in Tracheostomy Care, phase II- Poster published in Asia Pacific Medical Education Conference (APMEC) & Singapore Healthcare Biomedical Congress 2015, Primary author.
- Inventing Pre-thickened Fluids with Local Flavours to improve oral intake for patients with dysphagia -Poster published in MOH value driven healthcare conference 2019, Co-author
- Training Nurses to Perform Water Swallow Test with Use of Standardized Patients- [published on The Asia Pacific Scholar Medical and Health Professions journal portal \(2021\)](#), Co-author
- Role Redesign of Speech Therapy Assistants for Better People and Better Care- Poster published in MOH value driven healthcare conference 2022, Co-author
- Pilot Trial of Telehealth Pod for Allied Health and Pharmacy Services- Poster published in the International Allied Health Conference 2024, Primary author
- Artificial Intelligence in Dysphagia Screening- Poster published in the CHIInnovate Congress 2025, Primary author

Notable Research Awards & Grants from Past 5 Years

| Name of Awards & Grants | Year Obtained |
|--|---------------|
| Ng Teng Fong Healthcare Innovation Program - (Primary Investigator) | 2018 |
| Ng Teng Fong Healthcare Innovation Program - 2 projects (Primary Investigator)- Collaboration with A*star for AI swallowing device invention | 2022 |
| Ng Teng Fong Healthcare Innovation Program - (Co-Investigator) | 2024 |

Translating Research Into Healthcare

- Commercialized pre-thickened fluids with local flavours, Hou Yum at TTSH retail pharmacy 2019

- Supported commercialization of 3D printed modified diet co-developed by Gentlefoods, TTSN Speech Therapy and Nutrition & Dietetics Departments. Vending machine installation at TTSN geriatric ward (Dec 2023 to June 2024)
- Featured as one of the Women in Govtech 2020 due to her achievements in care transformation using technology.

Others

1. Research and Innovation abstracts reviewer/ judge:
 - Singhealth Allied Health Conference abstracts (2021)
 - SHBC Allied Health Award Category Oral presentation Judge (2021-2025)
 - Facilitator of poster presentation at poster village during SHBC (2022,2025)
2. Grant reviewer
 - CAPE Innovation Grant reviewer (2019-2024)
 - NHG Education Themed Grant reviewer (2023)
 - National Medical Research Council, Clinician Innovator Award proposal reviewer (2023)