



## Clement Chia Luck Khng

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Committee Member, Centre of Medical Technology and Innovations Singapore Biodesign Innovation Fellow, A\*STAR  
Founding Member, Geriatric Surgery of Society, Singapore

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### Research & Innovation Interests:

- Digital Health
- Medtech Innovation
- Breast Cancer in Older Women

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### Biography

I am a Senior Consultant Breast Surgeon and also Head of Breast Surgery Service at Khoo Teck Puat Hospital, NHG Health. My special interest is in Oncoplastics and Minimally Invasive Breast Surgery and also in the field of Breast Cancer in Elderly Women. To date I have published more than 60 peer reviewed publications in journals and am also an invited speaker for local and international breast conferences. I also have a large network of collaborators in the breast cancer field spanning from the United Kingdom to Asia where I have spent significant time during my overseas fellowship training.

My other major portfolio is in the field of Medtech innovations. I am Committee Member of the Centre of Medical Technology and Innovations (CMTI), the Medtech innovation arm of NHG Health and also a National Medical Research Council (NMRC) Award Recipient and a Fellow of the Singapore Stanford Biodesign Innovation Fellowship Programme. I am the co-Founder of REBORN, a digital innovation app helping breast cancer patients make informed decision regarding breast reconstruction options which has been featured in various local news outlets like the Straits Times and Lianhe Zaobao and currently being piloted in all three healthcare clusters in Singapore. I look forward to collaborating with academic and industry partners to drive research and medtech innovations in Breast Health and Breast Surgery.

I am also the clinical lead for Smart Ward at Khoo Teck Puat Hospital, NHG Health where the team incorporates technology with compassionate care to bring better outcomes for our patients.

### Selected Publications

- Woon CY, Goh SSN, Soh LS, Yeo CFC, Ong MW, Wong B, Leong JHT, Goo JTT, Chia CLK. Surgical margins assessment reduces re-excision rates in breast-conserving surgery. Ann Acad Med Singap. 2023 Jan;52(1):48-51. doi: 10.47102/annals-acadmedsg.2021454. PMID: 36730806.
- Chan KS, Chong MTH, Chia CLK, Cheung KL. Revisiting primary endocrine therapy versus surgery in older women with breast cancer: meta-analysis. Br J Surg. 2023 Mar 30;110(4):420-431. doi: 10.1093/bjs/znac435. PMID: 36718056.
- Chia CLK et al. Frailty, Meeting Challenges, and Beyond in Geriatric Surgery—10 Years' Experience From Singapore's First Geriatric Surgical Service Topics in Geriatric Rehabilitation 39(2):p 79-87, April/June 2023. | DOI: 10.1097/TGR.0000000000000394
- Ng DY, Tudor Car L, Ng MJM, Lu J, Leung J, Goo TT, Chia CLK. Identifying barriers to early presentation in patients with locally advanced breast cancer (LABC) in Northern Singapore: Qualitative study. PLoS One. 2021 May 25;16(5):e0252008. doi: 10.1371/journal.pone.0252008. PMID: 34032802.
- Chia CL, Tan KY. The Era of Geriatric Surgery. Ann Acad Med Singap. 2019 Nov;48(11):345-346. PMID: 31960013.

#### **Notable Research and Innovation Awards & Grants from Past 5 Years**

Name of Awards & Grants	Year Obtained
Digital Health Champion by GovInsider	2025
Young Innovator of the Year Award by Academy of Clinician Scientist and Innovator	2024
NMRC Research Training Fellowship Award	2024
Singapore Biodesign Innovation Fellowship Award	2024

#### **Translating Research/Innovation Into Healthcare**

- <https://www.straitstimes.com/singapore/app-helps-breast-cancer-patients-make-choices-about-surgical-options-before-reconstruction>
- Why do women present with advanced breast cancer?  
<https://www.zaobao.com.sg/lifestyle/health/story20230425-1386995>
- Do not be misled by online misinformation and miss your breast cancer screening.  
<https://www.zaobao.com.sg/lifestyle/health/story20230912-1432446>