Frequently Asked Questions (FAQs)

1. What are the aims and objectives of this programme?

The aim of this programme is to provide an opportunity for Family Medicine (FM) doctors to develop an interest in academic family medicine and primary care by learning and participating in research primarily and education under supervision.

Under supervision, the Scholars will achieve the following objectives:
- Participate in one research project(s) in the Department of Family Medicine (DFM) with supervision from the research supervisor and the research team.
- Learn research skills such as:
  - Answering suitable research questions to address important research gaps in FM or primary care practice.
  - Understanding and applying principles of research methodologies in a research project.
  - Analysing study findings and reaching a conclusion to answer the research question(s).
  - Working in a multidisciplinary research team.
- Disseminate study findings via publications or oral/poster presentation in a conference. This is encouraged but not mandatory.
- Participate in educational activities of the Department in discussion with the DFM Education Director.

2. How much time will I spend in the Department of Family Medicine (DFM) in this programme?

You are expected to spend two days per week in DFM (approximately 100 days a year). In this period of time, you will participate in the research and education activities of the Department. In addition to developing in research, scholars are expected to spend 25 per cent of their time in academic work on teaching; this translates to a minimum of 80 hours of teaching each academic year (approximately 10 days a year).

3. Will I be supervised in this programme?

Yes. Research and education activities will be supervised by supervisors from DFM and support will be provided from the Department. You will receive written learning objectives and deliverables for each activity. You should meet your supervisors on a regular basis. Activities and milestones will be recorded on the Scholars’ report form. All activities are under the purview of the DFM Head of Department.

Updated: 6 January 2023
4. What are the deliverables in the programme?

- Scholars will participate and assist in one existing research project as their main research.
- Scholars should help out with one or two other research projects. However, they cannot embark on new projects as Principal Investigators. Scholars also will not be allowed to participate in projects without first obtaining approval from the DFM Head of Department or Research Director.
- Scholars will be trained in formal research programmes and under direct supervision at least for the first 12 months.
- Scholars will participate in the research teaching in the DFM.
- Scholars will participate in two to three key undergraduate education items and contribute a minimum of 80 hours of teaching each year (about 10 days in a year).

5. How will the Scholars be selected for this programme?

Scholars will be selected based on their responses in the application form. Selection interviews will be held before the final selection.

6. Would I be allowed to opt out of the programme midway?

The minimum duration for this programme is a year to optimise the learning opportunities for you. You will be encouraged to continue and complete the programme. If you encounter any issues, please alert Dr Goh Lay Hoon and the team will do our best to support you in order for you to complete the programme.

7. What evaluations are needed for this programme?

Scholars will complete the Scholars’ report at mid-point and end-point of the programme. The report will document the Scholars’ activities in the programme and can be used during feedback sessions with supervisors.

8. How can interested applicants sign up for this programme?

Interested applicants can send their enquiries to Dr Goh Lay Hoon at mdcglh@nus.edu.sg.

To apply, you can send the completed application form and applicant’s CV to Ms Leong Foon Leng at mdcv381@partner.nus.edu.sg.

Applications for the training programme will open on 12 December 2022 and close on 31 January 2023 at 9am.

Updated: 6 January 2023
Interviews of applicants with the DFM Head of Department and Research Director or their representatives will be held in February 2023.

9. What projects can the Scholars be assigned to?

You can find the list of projects in Annex A of this document.

10. Are there other Scholars in the Programme?

We have six Scholars since the programme started in 2020. The Scholars' activities and achievements during the time they spent in the programme can be found in Annex B of this document.
Annex A – List of Projects

1. Late-life depression and help-seeking in primary care research programme

   **Supervisor: Dr Anna Szuecs**

   Late-life depression is often underdiagnosed and undertreated in primary care, leading to increased frailty, loss of autonomy and suicide risk in many older adults. Primary care plays a crucial role in the early detection and treatment of depression in older adults, whose self-awareness of mental illness tends to be lower than in younger age groups. This gatekeeper role has its own set of challenges in Singapore, given the short consultation times, the country's multi-ethnic population, and the lower depression literacy of older adults. This research programme aims to further our understanding of the barriers to depression detection in older primary care patients and use these findings to devise novel tailored educational interventions. The research programme encompasses several interconnected projects, ranging from systematic literature reviews to qualitative and quantitative cross-sectional studies. Applicants joining the programme will be able to choose from a diverse range of skillset to acquire in clinical research, such as evidence synthesis, qualitative data collection and analysis, quantitative study design, biostatistics, and scientific writing. Applicants will need to be self-driven and curious about the overall topic, however, their level of involvement and role(s) can be flexibly discussed with the research team upon application and tailored to their interest.

2. Rational self-examination systematic reviews

   **Supervisors: Prof Jose Valderas and Dr Anna Szuecs**

   Remote consultations (telehealth) have been increasingly used in family medicine, as they represent cost-effective solutions for many types of routine check-ups and can also serve as an entry point for acute consultations in scenarios where in-person consultations are difficult. Yet, physical examination is usually completely missing from these consultations, with a few exceptions such as breast self-examination. It has nonetheless been proposed that adequately instructed patients could examine themselves and provide their physician with reliable and valid information, which can improve the diagnostic performance of tele-consultations in terms of sensitivity and specificity. The aim of this project is to review the existing literature on self-examination for a series of common conditions and synthetise it in the same form as the recently published *JAMA series on standard examination*. Depending on the time at their disposal, the applicants taking up this project could consider focusing on one pathology (e.g., self-exam in appendicitis; self-exam in pyelonephritis) or several. They can expect to learn systematic evidence synthesis and scientific writing. They will be in charge of the project under the guidance of their mentors.
3. Chronic disease data project

**Supervisor: Dr Goh Lay Hoon**

National University Polyclinics (NUP) routinely collect patients’ and clinic-based data as part of clinical work in particular for the provision of chronic care delivery. The electronic health records contain patient characteristics and other information that can be used to discover gaps in delivery of health services that impact on health outcomes. Improved clinical outcomes for chronic diseases has been associated with implementation of the guidelines in clinical practice. Presently, there is a lack of knowledge about the characteristics of the NUP patients with common chronic conditions in primary care in relation to their clinical outcomes and their adherence to treatment guidelines. The aim of this project is to i) profile the characteristics of a cohort of patients with diabetes, hypertension, hyperlipidemia, chronic kidney disease, osteoarthritis and depression; ii) measure adherence to annual chronic disease management guidelines process indicators; and iii) develop predictive models of adherence to process indicators and outcome indicators. Applicants are expected to join the team as a co-investigator; participate in literature review, data management, data analysis and dissemination, and work in a multidisciplinary research team. Applicants are also expected to meet the supervisor about 3 times a month, about 1-2 hours, to discuss their progress. Applicants can use a sub-study of the project for a scholarly activity.

4. Patient and Family Engagement (PFE) interventions on patients’ safety in primary care setting: Systematic review

**Supervisor: Prof Jose Valderas, Dr Anna Szuecs and Dr Goh Lay Hoon**

In recent decades, a new emerging approach where both patients and their families (PFs) also play a vital role in actively managing patient safety. The provision of safe primary care is a priority. Understanding the magnitude and nature of harm in primary care is essential because most health care is now delivered in this setting. However, most patient safety research has focused on the hospital setting, and primary care is scarce. Several reviews have attempted to address this issue. Still, they have mainly either focused explicitly on the hospital setting, a specific level of care involvement (direct care), or factors influencing PFE implementation and evaluation. This project aims to review the existing literature to have a comprehensive insight into the types and effects of interventions that have been performed to promote PFE in patients' safety and gaps in knowledge with respect to these interventions. The applicants taking up this project can expect to learn systematic review methodologies and scientific manuscript preparation.
5. Other Projects

<table>
<thead>
<tr>
<th>Projects</th>
<th>Principal Investigator</th>
<th>Co-Investigator</th>
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<tr>
<td>Diabetes/Chronic Disease</td>
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<tr>
<td>The perspectives of patients with diabetes towards care and support planning (CSP) consultations in PACE-D</td>
<td>Victor Loh</td>
<td>Doris Young</td>
</tr>
<tr>
<td>Systematic review of the enablers and barriers of diabetes self-care in the primary care setting in Asia</td>
<td>Tan Wee Hian</td>
<td>Victor Loh</td>
</tr>
<tr>
<td>The role of primary care networks in diabetes care delivery in Singapore</td>
<td>Goh Lay Hoon</td>
<td>Goh Lay Hoon, Rosalind Siah Tai E Shyong, Monica Lazarus</td>
</tr>
<tr>
<td>Harnessing human Potential and improving health sPan in women and their children study (HAPPY)</td>
<td>Johan Eriksson (NUS)</td>
<td>Doris Young, Monica Lazarus, Desmond Ong, Goh Lay Hoon</td>
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<tr>
<td>Patient Reported Indicator Survey (PaRIS): Int. survey on outcomes and experiences of patients with chronic conditions</td>
<td>Dolf Boer (Institute for Health Services Research (NIVEL), Netherlands)</td>
<td>Jose Valderas</td>
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<tr>
<td>Strengthening the patient voice in health service evaluation: machine learning on free text comments from surveys and online sources</td>
<td>Øyvind Andresen Bjertnæs (Norwegian Institute for Public Health, Norway)</td>
<td>Jose Valderas</td>
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<tr>
<td>Implementing PROMs and PREMs in routine clinical care: assessment of requirements and impact</td>
<td>Garin O (Hospital del Mar Medical Research Institute, Spain)</td>
<td>Jose Valderas</td>
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<tr>
<td>Cancer Care</td>
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<tr>
<td>Following up on the follow up - Looking into breast cancer patients and their carers’ views on follow-up care</td>
<td>Lim Fong Seng</td>
<td>Prof Linda He, Dr Samuel Ow, Dr Rose Fok, Mr Mohd Sufyan</td>
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<tr>
<td>The SPOtting Cancer among Comorbidities (SPOCC) programme. Supporting clinical decision making in patients with symptoms of cancer and pre-existing conditions</td>
<td>Gary Abel (University of Exeter, UK)</td>
<td>Jose Valderas</td>
</tr>
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## Mental Health

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Collaborators</th>
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</thead>
<tbody>
<tr>
<td>Primary care physicians’ perspectives on the identification and management of postnatal mental health problems in primary care</td>
<td>Liow Yiyang</td>
<td>Monica Lazarus-Victor Loh Shefaly Shorey</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collaborators: Jose Valderas Doris Young Cornelia Chee</td>
</tr>
<tr>
<td>Late-life depression and help-seeking research programme:</td>
<td>Anna Szuecs</td>
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<tr>
<td>• Depression literacy in older adults: a systematic review</td>
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<tr>
<td>• Personality and help-seeking for emotional distress: a systematic review</td>
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<td>• General practitioners’ perspective on late-life depression: a qualitative study</td>
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<tr>
<td>Youth mental health in Singapore – A survey of the perspective of primary care physicians</td>
<td>Victor Loh</td>
<td>Monica Lazarus Doris Young Chua Ying Xian Guo Xiao Xuan Eugene Chua Leong Choon Kit John Wong</td>
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## Healthy Longevity

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Collaborators</th>
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<tbody>
<tr>
<td>A multi-level approach to understanding the perceived barriers and enablers to participating in lifestyle intervention among multi-ethnic older adults with pre-frailty and frailty: A qualitative study</td>
<td>Richard Hui (NUP)</td>
<td>Janice Liew Dr Zhang Zhi Peng (CCK Poly site co-I) Dr Kwek Sing Cheer (BBK site co-I)</td>
</tr>
<tr>
<td>SCREEN II tool: Upstream Identification of Nutritional Risk and its Determinants amongst Patients ≥ 55 years old in Primary Care in Singapore</td>
<td>Tan Hwei Ming</td>
<td>Goh Lay Hoon Ruth Teh (University of Auckland, New Zealand) Chan Yiong Huak Verena Tan (Singapore Institute of Technology) Tan Wee Hian</td>
</tr>
<tr>
<td>Exploring the health seeking behaviour and utilization of primary health care services among older adults during COVID-19 pandemic: A qualitative study</td>
<td>Janice Liew (NUS)</td>
<td>Tan Hwei Ming Monica Lazarus</td>
</tr>
<tr>
<td>The development and validation of a patient-reported outcome measure for older people with frailty and acute care needs</td>
<td>van Oppen J, University of Leeds</td>
<td>Jose Valderas</td>
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<td><strong>Infectious Disease</strong></td>
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<tr>
<td>SENTIVAC: SENTINEL GP/FP cohort study to address COVID 19 VACCine uptake and hesitancy</td>
<td>Victor Loh</td>
<td>Leong Choon Kit Sky Koh Doris Young</td>
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<tr>
<td>Prescribing antibiotics in primary care for UTI (PRIOR-UTI)</td>
<td>Sky Koh</td>
<td>Victor Loh Doris Young Tracy Ng</td>
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<tr>
<td>Primary Care Antimicrobial Stewardship (PC-AMS) Subtheme of CoSTAR-HS: Collaborative Solutions Targeting Antimicrobial Threats in Health Systems</td>
<td>Victor Loh, Meena Sundram (NUP)</td>
<td>Sky Koh Vivien Lee Doris Young</td>
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<tr>
<td>INTRePID: International Consortium of Primary Care Big Data Researchers</td>
<td>Goh Lay Hoon</td>
<td>Ling Zheng Jye</td>
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<td><strong>Patient Safety</strong></td>
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<tr>
<td>Patient &amp; Family Engagement Interventions on patients' safety in Primary Care Setting: a systematic review and meta-analysis</td>
<td>Pang Yan</td>
<td>Foon Leng Jose Valderas Anna Szuecs Goh Lay Hoon Jaheeda Gangannagaripalli Nacho Ricci Cabello</td>
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<tr>
<td>Patient complaints within general practice in Singapore using the Healthcare Complaints Analysis Tool (General Practice): A mixed methods study</td>
<td>Sky Koh</td>
<td>Jose Valderas Queenie Quek Mehul Motani Tan Chong Min</td>
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<td><strong>Family Orientation</strong></td>
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<tr>
<td>Family orientation in family medicine</td>
<td>Monica Lazarus</td>
<td>Anna Szuecs Vivien Lee Alicia Ong Jose Valderas</td>
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<tr>
<td><strong>Vulnerable Populations (People with Disability)</strong></td>
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<tr>
<td>Communication with Persons with Disabilities (PWD): Pre- and Post-workshop surveys</td>
<td>Vivien Lee</td>
<td>Victor Loh Jeffrey Jiang Anna Szuecs</td>
</tr>
</tbody>
</table>
EMERGING RESEARCH TOPICS

1. Family in Family Medicine
2. Patient and family engagement in primary care safety
3. Routine use of patient reported information in Family Medicine outcomes, experiences and capabilities
4. Self-examination for tele-health
5. Healthier SG: care planning, patient and family empowerment, policy analysis

EMERGING RESEARCH METHODS

1. Evidence synthesis: scoping review, systematic review, meta-synthesis, meta-analysis
2. Qualitative research: interviews, focus groups
3. Survey methods

PUBLICATIONS

2022


Updated: 6 January 2023


Updated: 6 January 2023


2021

Updated: 6 January 2023


2020


Updated: 6 January 2023
GRANTS

<table>
<thead>
<tr>
<th>Follow-up on the follow-up: Breast cancer patients’ &amp; their carers views</th>
<th>Dr Fong Seng LIM</th>
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<tr>
<td>SPriNT study - Dr Doris YOUNG</td>
<td>Dr Doris YOUNG</td>
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<td>Postnatal mental health – Primary care physicians’ perspective</td>
<td>Dr Yiyang LIOW</td>
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<tr>
<td>Primary care networks in Diabetes care delivery in Singapore</td>
<td>Dr Lay Hoon GOH</td>
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<td>Quality indicators – CKD in primary care</td>
<td>Dr Desmond ONG</td>
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<tr>
<td>SENTIVAC – COVID-19 Vaccine communication &amp; messaging</td>
<td>Dr Victor LOH</td>
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<tr>
<td>Youth mental health in Singapore – A perspective of primary care physicians</td>
<td>Dr Victor LOH</td>
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</tbody>
</table>

Annex B – Scholars’ Achievements

YEAR 2020 – 2022

Dr Desmond Ong

Projects
- Value-driven Outcomes (VDO) project in NUP
- Quality indicators for the detection and management of chronic kidney disease in primary care: an exploratory study using electronic medical record data in Singapore

Grants
- [NUHS Seed Grant] Quality Indicators for the Detection and Management of Chronic Kidney Disease in Primary Care: An Exploratory Study Using Electronic Medical Records

Conferences
- APMEC 2021: Turning Virtual into Reality: Using Zoom-enabled Simulated Clinical Training to substitute for live clinical training
- APMEC 2022: Field Observations in Primary Care: The Family Medicine Academic Project

Teaching
- Residency EBM Workshop – March 2022
- R1 Research Workshop – 2022

Forums

Updated: 6 January 2023
Presented CKD study at NUP-DFM Research Forum in May 2022

Dr Liow Yiyang

Projects
- Principal Investigator: Perspectives of Primary Care Physicians on the identification and management of Postnatal Mental Health Problems in a multi-ethnic Asian country: a qualitative study —awarded NUHS FM/PC/HSR Seed Fund Grant of $50,000 in March 2021, completed study, pending publication

Grants
- NUHS Primary Care Seed Grant awarded March 2021

Publications

Teaching
- Adjunct Lecturer, Department of Medicine, NUS Yong Loo Lin School of Medicine (NUSMed)
- Lead for NUSMed Phase 1 Patient-Based Programme (Polyclinic)
- Lead for NUSMed Phase 2 Clinical Skills Foundation Programme (Campus)
- Tutor for NUSMed Phase 3 Family Medicine Posting
- Physician Faculty for NUHS Family Medicine Residency Programme

Forums
- Presentation at NUP-DFM Research Forum in May 2022 on project titled ‘Perspectives of Primary Care Physicians on the identification and management of Postnatal Mental Health Problems in a multi-ethnic Asian country: a qualitative study’
YEARS 2021 – 2023

Dr Sky Koh

Projects

- PI: PRescribing antiBiotics in pRimary care for UTI (PRIOR-UTI) – Awarded Co-STAR-HS seed grant Feb 2022 ($32,000)
- PI: Patient complaints within general practice in Singapore using the Healthcare Complaints Analysis Tool (General Practice): a mixed methods study – Awarded NUHS Family Medicine/Primary Care/Health Services Research (FM/PC/HSR) Seed Grant Mar 2022 ($44,000)
- Co-I: Collaborative Solutions Targeting Antimicrobial Resistance Threats in Health Systems (CoSTAR-HS) – CAT 2 NMRC Grant (from 2021-2025, PI: Prof Hsu Li Yang, SSHSPH)
  - Main PI: Antibiotic prescribing in primary care clinics in Singapore: an observational study
  - Main PI: Routine antibiogram surveillance of urinary tract infections within primary care in Singapore: Linking clinical practice to resistance genes
  - Co-I: Antibiotic prescribing for Paediatrics in primary care clinics in Singapore: an observational study (PI: Dr Vivien Lee, NUP)
- Co-I: Addressing COVID-19 hesitancy and promoting population acceptance – NMRC COVID-19 Grant (from 2020-2022, PI: Prof May O’Lwin, NTU)
  - Main PI: Electronic mailbox study to address COVID-19 vaccine hesitancy
  - Co-I: SENTIVAC (Sentiments of primary care providers on news regarding COVID-19 vaccination and measures) (PI: Dr Victor Loh, NUS)
- Co-I: Building a Value-Driven Primary Care for Singapore (from 2022-2026, PI: Dr Meena Sundram, NUP)
- Co-I: A cross-sectional study on weight perception and management across Singaporeans and their spouses (PI: A/Prof Tan Ker Kan, NUH)
- Co-I: Cardiometabolic Diseases in Primary Care (PI: Dr Nicholas Chew, NUH)
- Co-I: Exploratory Study of Big Data in National University Polyclinics (PI: Dr Goh Lay Hoon, NUS)

Grants

- Co-STAR-HS seed grant Feb 2022 ($32,000)
- NUHS Family Medicine/Primary Care/Health Services Research (FM/PC/HSR) Seed Grant Mar 2022 ($44,000)

Publications


Conferences

- Presented 3 posters at the 10th International Congress of the Asia Pacific Society of Infection Control (July 2022)
Teaching
- Tutor for NUHS Family Medicine Residency Research Workshop (2021, 2022)
- Supervisor for NUHS Family Medicine Residency Research Elective (2021)

Forum
- Chair, NUP-DFM Research Forum (May 2022)

Awards
- NUS DFM: Best Paper of the Year Award (2022)
- NUS DFM: Early Career Researcher of the Year Award (2022)

Dr Tan Hwei Ming

Projects
- SCREEN II: Upstream Identification of Nutritional Risks and its Determinants amongst Older Adults in Primary Care in Singapore (PI)
- Assessing COVID-19 booster uptake: An observational study (Site PI)
- Qualitative study exploring the perceived barriers and enablers to participating in lifestyle interventions amongst pre-frail and frail older adults (Co-I)
- Volunteerism in Prefrail Older Adults Improves Physical Function, Cognition and Enhances Resilience (Co-I)
- Research with Asia-Pacific Academic Primary Care Group - conceptualisation phase with team (Co-I)

Grants
- NUP Research Grant- SCREEN II: Upstream Identification of Nutritional Risks and its Determinants amongst Older Adults in Primary Care in Singapore

Publications

Teaching
- Tutor for R1 Research workshop

YEAR 2022 – 2024

Dr Alicia Ong

Projects
- Family Orientation in Family Medicine - A scoping review (Co-I)
- Primary Care oncology data project (PI)
- Chronic disease data analysis project (Co-I)
- Qualitative study - GPs’ perspectives on LLD (collaborator)
- Mixed Methods depression study (Collaborator)
- Value-driven outcomes Systematic Review (Collaborator)

Teaching
- Respiratory Workshop, Phase 3 Family Medicine Foundations Workshop

Updated: 6 January 2023
- Difficult Conversations Workshop, Phase 3 Family Medicine Foundations Workshop
- Family Medicine Residency Research Workshop

**Forums**
- Facilitator, Inaugural Primary Care Cancer Learning Series, Singapore PRImary Care Cancer NeTwork (SPriNT)

**Dr Vivien Lee**

**Projects**
- Family Orientation in Family medicine: a scoping review
- Antimicrobial use in Primary care
- Depression literacy in older adults: a systematic review
- Personality and help-seeking for psychological distress: a systematic review
- Late-life depression and help-seeking in Singapore - general practitioners' perspective
- Understanding the personality Features of Late-life Depression (UNFOLD): a mixed-methods study
- Attitudes of Medical Students and Tutors toward Persons with Disabilities after a Family Medicine teaching workshop

**Conferences (presented in 2021 and 2022)**
- Poster presentation at Singapore Palliative Care Conference 2021: Journeying with a Patient's Loved Ones in the Face of Imminent Death: A Quality Improvement Project Addressing the Guidance & Education of Loved Ones of Dying Patients

**Teaching**
- Clinical lecturer at Yong Loo Lin School of Medicine
- M3 Communications with Persons with Disabilities workshop
- M3 Women's Health workshop
- M3 Family Medicine supervisor
- Family Medicine residency faculty
- Family Medicine residency research workshop
- Residents’ Continuity Clinic preceptor
- Clinical teacher and practice facilitator, Lee Kong Chian School of Medicine