

## NMRC Awarded Projects

### Talent Development - July 2023 Grant Calls

#### Singapore Translational Research Investigator Award (STaR) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
STaR23jul-0001	MOH-001450	Making Further Inroads into High Risk Myeloma	Chng Wee Joo	National University of Singapore

#### Clinician Scientist Award - Senior Investigator (CSASI) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSASI23jul-0003	MOH-001448	Elucidating ImmuNe Reprogramming in Nasopharyngeal Carcinoma - Resolving an ENIGMA	Darren Lim Wan Teck	National Cancer Centre Singapore

#### Clinician Scientist Award - Investigator (CSAINV) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSAINV23jul-0001	MOH-001512	HOPE (Helping to Optimize Potential & Experiences) after Pediatric Critical Illness Cohort Study	Lee Jan Hau	KK Women's and Children's Hospital
CSAINV23jul-0002	MOH-001461	Diffuse optical tomography near Infrared Imaging (DOT-NIRS) for acute stroke diagnosis and monitoring with feedback for non-invasive augmentation of ischemic collaterals.	Leonard yeo	National University Hospital
CSAINV23jul-0003	MOH-001449	Elucidating the drivers of ethnic disparities in breast cancer to improve outcomes	Yap Yoon Sim	National Cancer Centre Singapore
CSAINV23jul-0004	MOH-001462	Evaluation of An Artificial Intelligence Model For The Combined Diagnosis And Treatment Of High-Risk B3 Lesions Detected On Breast Ultrasound	Tan Ern Yu	Tan Tock Seng Hospital
CSAINV23jul-0006	MOH-001463	Advancing the understanding of biological mechanisms influencing atopic dermatitis and skin barrier function.	Yew Yik Weng	National Skin Centre

#### HPHSR Clinician Scientist Award - Senior Investigator (HCSASI) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSASI23jul-0002	MOH-001474	Using Patient-Reported Outcome Measures to Improve the Use of Elective Orthopaedic Surgeries: Development and Evaluation of a Treatment Decision Support Intervention for Patients with Knee Osteoarthritis	Luo Nan	National University of Singapore

### HPHSR Clinician Scientist Award - Investigator (HCSAINV) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSAINV23jul-0001	MOH-001472	Project Pensieve II – A Proof-of-Concept Study on an AI Tool to Detect Delirium among Hospitalized Older Patients	Liew Tau Ming	Singapore General Hospital
HCSAINV23jul-0002	MOH-001473	Innovative m(mobile)Health-based program to facilitate exercise and self-management in knee osteoarthritis: A non-inferiority randomized controlled trial	Pua Yong Hao	Singapore General Hospital

### Clinician Innovator Award - Senior Investigator (CIASI) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIASI23jul-0001	MOH-001466	WeeCare – Providing cost-effective home monitoring of urinary flow for men with Lower Urinary Tract Symptoms (LUTS)	Ng Tze Kiat	Singapore General Hospital

### Clinician Innovator Award - Investigator (CIAINV) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIAINV23jul-0001	MOH-001467	Remote monitoring of swallowing function using a mechanoreceptor sensor system	Wong Seng Mun	Singapore General Hospital
CIAINV23jul-0004	MOH-001470	Digital imaging using optical and thermal sensors to scale the general inspection for kaki ailments and promote healthy feet in people with diabetes (DigiKAH Experience)	Chua Horng Ruey	National University Hospital
CIAINV23jul-0002	MOH-001468	The development of a novel ear surgery toolkit	Chua Jian Kai Andy	Sengkang General Hospital
CIAINV23jul-0003	MOH-001469	High Fidelity Personalised Liver Digital Twin for Surgical Planning and Intraoperative Navigation	Gao Yujia	National University Hospital
CIAINV23jul-0006	MOH-001511	Rapid diagnosis of peritoneal dialysis-related peritonitis by point-of-care Vis/NIR optical spectroscopy and machine learning algorithms	Liu Yan Lun Allen	Khoo Teck Puat Hospital

# Transition Award (TA) 23 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
TA23jul-0001	MOH-001451	Dissecting the Mechanisms Underlying Pediatric Acute Respiratory Distress Syndrome	Judith Ju Ming Wong	KK Women's and Children's Hospital
TA23jul-0004	MOH-001454	Elucidating the neural basis of emotional dysregulation and other factors via a transdiagnostic approach: A longitudinal follow-up of mood disorder patients in the Cohort Health study In Mood and Emotional regulation in Singapore (CHIMES)	Ho Su Hui	National University Hospital
TA23jul-0006	MOH-001455	Exploring the role of the mTORC1-SMAD pathway in ovarian ageing to extend ovarian lifespan and health-span of women	Huang Zhongwei	National University Hospital
TA23jul-0017	MOH-001452	Timely Interventions to Enable and Reach patients with Heart Failure, and their caregivers, with Palliative Care (TIER-HF-PC)	Neo Hui Shan Shirlyn	National Cancer Centre Singapore
TA23jul-0023	MOH-001453	Isolating functional T cells from patients that recognize KRAS mutations and can exert cytotoxicity.	Amit Jain	National Cancer Centre Singapore

**NMRC Research Training Fellowship (Fellowship) 23 July Grant Call**

Application ID	Project ID	Project Title	PI name	Host institution
RTF23jul-0012	MOH-001563	Developing a Genetic Treatment Strategy for GUCY2D-Related Autosomal Dominant Cone-Rod Dystrophy	Tan Tien-En	Singapore National Eye Centre
RTF23jul-0010	MOH-001608	A Greener, Healthier Future for Our Children: Pioneering Sustainable Paediatric Practice Through Implementation Science	Amanda Zain	National University Hospital
RTF23jul-0013	MOH-001564	Enhancing Perioperative Cardiovascular Risk Predictions with Static and Dynamic Physiological Data and Interpretable Deep Learning - A study with smart wearable devices.	Ke Yuhe	Singapore General Hospital
RTF23jul-0011	MOH-001562	Granzyme B-Targeting PET as a Predictive Imaging Biomarker of Cancer Immunotherapy Treatment Response	Sarah Tai Beishan	Singapore General Hospital
RTF23jul-0015	MOH-001567	Development and Pilot Evaluation of a Clinical-Decision Support Tool to Manage Patients with Hypertension in Primary Care based on Self-monitored Blood Pressure	Moosa Aminath Shiwaza	SingHealth Polyclinics
RTF23jul-0016	MOH-001665	Identification and management of progressive pulmonary fibrosis	Li Yunkai Andrew	Woodlands Health
RTF23jul-0006	MOH-001560	Clinical characterisation of physical activity, cardiorespiratory fitness, and/or muscle and bone strength on performance of physical and mental health, and/or prevention and control of medical diseases	Loo Kai Guo, Benny	KK Women's and Children's Hospital
RTF23jul-0008	MOH-001561	Doxycycline host-directed therapy to improve neurological recovery and clinical outcomes in central nervous system tuberculosis	Ngiam Jinghao Nicholas	National University Hospital
RTF23jul-0005	MOH-001559	Evaluating the efficacy of a digital feeding and lifestyle behaviour intervention for infants: a randomized controlled trial.	Chan Wei Keong, Daniel	KK Women's and Children's Hospital
RTF23jul-0004	MOH-001558	A review of endometrial pathology in women's health and fertility	Charissa Goh Shu Ying	KK Women's and Children's Hospital
RTF23jul-0001	MOH-001557	Burden of COVID 19 infection in CKD patients	Anantharaman Saradha	Changi General Hospital
RTF23jul-0014	MOH-001565	PhEnoTyping And Genotyping of yOuNg stroke in Singapore (PENTAGON-SG)	Tan Yong Qiang Benjamin	National University Hospital