

FUNDED PROGRAMMES	OUTCOME:
Research & Medical Capability Development	
1	Clinician Scientist Career Scheme (CSCS)
<p>CSCS is a research manpower development programme aimed at building up the research capabilities of clinicians to contribute to excellence in research, innovations, improvement in patient care, delivery and outcomes, and to enable clinicians to compete successfully for the National Medical Research Council (NMRC) Transition Award (TA) within the next 3 years. The scheme provides a research career development path for clinicians in NHG who are interested in embarking on a career in research. With effect from FY2018, the CSCS scheme is jointly funded with NTU/LKCMedicine.</p>	<p>As of December 2021, all 13 CSCS awardees have collectively published 552 publications and obtained 2 Transition Awards (TAs) and 4 Clinician Scientist Awards (CSAs) administered by the National Medical Research Council (NMRC).</p>
2	Clinician Scientist Fellowship (CSF)
<p>Jointly developed in 2013 by NHG and NTU/LKCMedicine, the NHG-LKCMedicine Clinician-Scientist Fellowship (CSF) aims to nurture and develop Clinician-Scientists with a formal research training programme leading to PhD. Awardees of the CSF may also apply for the CSF Bridging Grant to kickstart their PhD projects while applying for other sources of project funding.</p>	<p>As of December 2021, the 3 CSF awardees and 1 CSF Bridging Grant awardee have collectively published 16 publications.</p>
3	NHG-LKCMedicine Clinician Scientist Preparatory Programme (CSPP)
<p>The NHG-LKCMedicine Clinician-Scientist Preparatory Programme (CSPP) is a joint programme between NHG and Lee Kong Chian School of Medicine (LKCMedicine) that aims to provide clinicians with an exposure to research in the early phase of their career through research training and project experience.</p>	<p>As of August 2022, there are 19 awardees awarded into the programme.</p>
4	NHG Fundraising for Research
<p>The Development Fund Office (Research) supports the pursuit of research and innovation at National Healthcare Group (NHG). Donations to NHG Fund, the charity arm of NHG, go towards research and innovation at NHG institutions that support our vision of Adding Years of Healthy Life.</p> <p>In 2021, DFO launched the Gift of Sight fundraising campaign on Giving.sg. The campaign raised funds for NHG Eye Institute's research and innovation to reduce blindness due to major eye diseases in Singapore. With support from Tote Board and the Government, donations to the Giving.sg campaign was matched dollar-for-dollar. Funds raised go towards:</p> <p>Improving early detection and monitoring of common eye diseases</p> <p>Bringing eye care into homes and communities</p> <p>Improving treatment and patient care.</p> <p>In 2022, NHG Fund continues to raise funds for eye research and innovation through its Help Me See campaign on Giving.sg. Donations will be matched dollar for dollar by Tote Board and the Government (capped at \$250,000 per charity).</p> <p>NHG Fund also join hands with TTSH Community Fund, the charity arm of Tan Tock Seng Hospital, to present "Future-proof Your Health" – a webinar series where NHG clinicians shared and discussed fresh insights on health and research topics. Information on our webinars are updated on our Facebook https://www.facebook.com/nhgfund. Please contact us at fundresearch@nhg.com.sg to receive our e-newsletters and updates.</p>	<p>Fight Infectious Diseases</p> <p>Donations to our Fight Infectious Diseases (FIND) campaign in FY2020 supported National Centre for Infectious Diseases (NCID)'s research in the following areas:</p> <ol style="list-style-type: none"> 1. Evaluating COVID-19 rapid diagnostic test kits 2. Understanding of COVID-19 transmission 3. Studying the long-term effects of COVID-19 infection 4. Optimising Antibiotic Treatment for Serious Bacterial Infections <p>Save Lives Save Limbs</p> <p>Donations to our Save Lives Save Limbs campaign go towards research at TTSH to reduce diabetes complications in patients. The research team is now partnering with A*STAR to develop a device using magnetic blood pulse measurement to track early blood vessel damage. By identifying blood vessels damage early, we can prevent heart disease and other complications such as amputations, blindness and kidney failure. The enhancement of the device and pilot study to test the device is targeted for completion in 2022 and the team aims to expand the clinical study in 2023.</p> <p>Improving the lives of young people with mental illnesses</p> <p>Institute of Mental Health (IMH) plans to launch a new on-site counselling service – CHAT Supportive Interventions (CSI) - for distressed young people who are referred to psychiatric services in hospitals. Delivered by certified solution-focused therapy practitioners, CSI will provide distressed young people with interim support of up to 6 sessions, while awaiting their first appointment at the hospital.</p> <p>CHAT was started in 2019, with support from the Ministry of Health to provide a dedicated youth mental health service in Singapore, targeting young persons aged 16-30 years of age. The new CSI service will further help CHAT to reduce barriers to accessing mental health services.</p> <p>NHG Fund is extremely grateful to all donors who supported our research programmes.</p>

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5	Brain Bank Singapore (BBS)	
	<p>BBS is a national tissue repository dedicated to research in neurological disorders, with the goal of improving treatment strategies and clinical outcomes for various neurological/neurodegenerative and neuropsychiatric disorders. Its primary aim is to set up a nationwide pre-consented brain donation programme, where brain tissues will be collected from people with and without neurological conditions. The brains will be preserved and characterised, and will serve as a source of research material for research projects both within and outside of Singapore, reflective of local underlying genetic populations. In addition, BBS will perform outreach drives to educate the public about the donation and use of human tissues for research.</p>	<ol style="list-style-type: none"> 1. Since the official launch of BBS in November 2019, BBS has set up the infrastructure and daily operations necessary for a brain bank, and demonstrated its capability to cater to a full range of tissue banking operations. 2. It has recruited 195 registered donors to the registry and added 4 brain and cerebrospinal fluid donations to the repository. In FY21 alone, BBS recruited 44 registered donors and collected 1 brain and cerebrospinal fluid donation. 3. BBS has obtained approval from SingHealth Biomedical Research Scientific Advisory committee (SBRSA), NTU IRB and NHG Tissue Compliance Committee (TCC) for its donor recruitment and tissue banking protocols, and is registered with the Ministry of Health (MOH) as a satellite site under the NTU Tissue Bank. 4. It has also worked closely with the National Organ Transplant Unit (NOTU), Medical Therapy Education and Research Act (MTERA), and the MOH HBRA Human Tissue Framework (HTF) teams to reach an agreement to work with the My Legacy government portal. 5. In addition, BBS has successfully carried out various outreach activities and established community partnerships with various healthcare teams, organisations, community partners, patients, and members of the public, including talks on the importance of brain tissues for research and the process of donor recruitment through to tissue retrieval.
6	Palliative Care Centre for Excellence in Research & Education (PaIC)	
	<p>The Palliative Care Centre for Excellence in Research and Education (PaIC) was set up as a tripartite collaboration by National Healthcare Group (NHG), Dover Park Hospice and LKCMedicine in October 2017. PaIC is a dedicated centre for the development of comprehensive training programmes for palliative care that meet the needs of acute, sub-acute and long-term care settings, and also palliative care training programmes for allied health professionals and volunteers. In addition, PaIC also aims to conduct strategic research that can be translated into effective clinical practices, educational strategies and policies to address the gaps faced in end-of-life care.</p>	<ol style="list-style-type: none"> 1. The Agency for Integrated Care (AIC) awarded the tender for Lead Training Provider to PaIC to run courses from July 2018 to June 2020 June with AIC subsidies. The award was further extended to 2022 to subsidize the running of 11 courses/workshops conducted by PaIC. 2. 1 new workshop was launched in 2021, also with AIC funding. This workshop, titled "Certificate in Community Palliative Care: Psychosocial Care", was jointly conducted with Singapore Hospice Council. The inaugural run was conducted online in Apr 2021, with a second run in Jul 2021. 3. As palliative care postgraduate training in Singapore is largely fragmented, particularly for nurses and allied health professionals, and programs offered by overseas universities are costly, PaIC has been collaborating with LKCMedicine and NHG college since Feb 2021 to develop a postgraduate palliative care program, named the Holistic Palliative Care (HoPE) programme. The programme is modular and stackable, indicating that each additional module adds on to previous modules taken, allowing students to progress from a Graduate Certificate level to Graduate Diploma and eventually to a Masters degree. The unique features of the program include its multidisciplinary nature, accreditation by NTU, emphasis on translating theory into practice, international and well-connected faculty, and an additional focus on Thanatology. 4. Intramural grants awarded by PaIC in FY2021 include: <ol style="list-style-type: none"> a. Exploring experiences of registered nurses serving breakthrough medications to patients at the end of life (\$10,750), led by Ms Chia Gerik Sin (TTSH) b. The Table to Console: A Novel Psychotherapeutic Culinary Grief Intervention [CGI] for Bereaved Family Caregivers in Singapore (\$49,370), led by Assoc Prof Andy Ho (LKC) (Principal Investigator) c. Wanting to be Heard - A Qualitative Exploratory Study of Patients' And Nominated Healthcare Spokespersons' Experience of Goals of Care Discussions in the Hospital Setting (\$23,230), led by Dr Lee Shaowen Joshua (TTSH)
7	Intellectual Property Budget	

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	<p>Intellectual property (IP) protection is an important aspect of research and innovation life cycle. NHG seeks IP protection on inventions that address unmet needs and with good commercial potential, so that patients and population in general could benefit from access to new solutions for improved disease prevention, management and/or treatment.</p> <p>In the first instance, NHG would tap on grant funding support by the National Health and Innovation Centre Singapore (NHIC). Funding by NHG Fund Pte Ltd would be used to fund protection of IP with good potential for adoption but are outside NHIC's funding scope.</p>	<p>In FY2020, IP protection in the form of registered design was filed for the following invention:</p> <p>1. Disposable angular face shield – Conceptualised by staff from the TTSH, Transformation Office and triggered by the needs</p>
8	Consultancy Services on Clinical Research in Primary Care	
	<p>The objective of this scheme is to engage established international researchers as Research Advisors to provide research expertise to build research capabilities and nurture a research culture in National Healthcare Group Polyclinics (NHGP).</p>	<p>In FY2021, two research workshops were conducted for NHGP. Additionally, the Research Advisor continued to impart skills, knowledge and expertise to NHGP staff through the mentorship of NHGP CRU leaders on the running of a research unit, as well as mentorship of NHGP staff in manuscript writing. Engagement also focused on continued research networking and collaborations beyond the term of the consultancy service. The consultancy service ceased on 31 Dec 2021.</p>
9	Singapore Health and Biomedical Congress (SHBC)	
	<p>SHBC is one of the largest medical congress in Singapore, it has established itself as the key platform for healthcare professionals to learn, share and discuss their knowledge. The objective is to provide a meeting platform that caters to the complex and changing needs of the population.</p>	<p>With the theme 'Sustainable Healthcare through Innovation', SHBC 2019 successfully attracted close to 3,000 local and overseas participants that included medical doctors, researchers, academics, nurses, admin and allied healthcare professionals. The Congress mainly focused on MOH's 3 Beyonds and highlighted key aspects of NHG's River of Life Framework across the Five Segments of Care. Over 190 distinguished speakers participated in 18 Scientific Tracks, 1 Satellite Conference, 3 Plenary Symposiums and 1 Keynote session. A new initiative was introduced to engage staff of NHG's Community Care Partners (CCP) which enabled 174 staff members to attend SHBC 2019 for free. A total of 611 abstracts were received in the annual Scientific Competition.</p> <p>SHBC2020 was cancelled in FY20 due to COVID-19.</p>
Talent Development		
1	Health Manpower Development Plan (HMDP)	
	<p>The objective of HMDP is to train/develop healthcare professionals to take on higher level jobs to meet the strategic manpower needs of NHG cluster.</p> <p>These awardees will be trained in their specialized field in medical, nursing, allied health and administration. Through these specialized trainings, they will be able to deepen their skills and clinical knowledge, and to gain access to new skills / technology. This will translate to the provision of better care to our patients and clients.</p>	<p>A total of 56 individuals and 17 teams (63 individuals), comprising staff across the medical, nursing, allied health and administrator family groups, were given the HMDP Awards in FY2019.</p> <p>Due to COVID-19 developments, there was no grant call undertaken in FY20 for FY21 (for the period between April 2021 and March 2022).</p>
2	Postgraduate Self Development Award (PSDA)	
	<p>PSDA provides financial assistance to NHG staff who wishes to pursue postgraduate studies in General Management in internationally renowned institutions. NHG will provide partial sponsorship for the course fees, while the awardees will co-pay a percentage of the fees.</p>	<p>1 awardee for FY2020</p>
3	NHG Management Scholarship (NMS)	
	<p>NMS's objective is to groom high potential staff to fill top clinical administrative and management positions.</p>	<p>1 awardee for FY2020</p>
4	NHG Leaders Scholarship (NLS)	
	<p>NLS is part of NHG's talent cultivation effort to attract and groom a core of top-rate administrators for NHG. NLS awardees will pursue postgraduate studies in General or Healthcare Management at internationally renowned universities.</p>	<p>No nomination was received.</p>
5	Master in Health Profession Education	
	<p>The Master in Health Professions Education (MHPE) is part of NHG Education's commitment in improving the health of our patients and the community through the</p>	<p>Application call for FY2021 was cancelled due to pandemic.</p>

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<p>education of our present and future healthcare workforce, healthcare partners, patients and caregivers.</p> <p>The MHPE will equip and enable future generations of leaders in HPE:</p> <ul style="list-style-type: none"> ▪ To develop and lead in education initiatives to support NHG's mission in delivering quality patient care. ▪ To engage in formal education about HPE and the science behind education. ▪ To identify learning needs, develop educational strategies, and lead major changes, addressing the requirements from different health professions in NHG. 	