



NUH is Singapore's Leading University Hospital



The National University Hospital (NUH) is Singapore's leading university hospital. While the hospital at Kent Ridge first received its patients on 24 June 1985, our legacy started in 1905, the date of the founding of what is today the NUS Yong Loo Lin School of Medicine. NUH is the principal teaching hospital of the medical school.

At that time, the university departments functioned as a unit of the General Hospital. Medical students could only deal with very acute cases and had limited exposure to more general diseases. The idea of a university hospital was first mooted in the late 1960s, as part of the University of Singapore's new campus at Kent Ridge.

With additional facilities for teaching, a teaching hospital would allow medical students a more generalised view of diseases, enable more follow-up work, and would spearhead medical education in Singapore. Planning for the hospital started from scratch as NUH was to be the first teaching hospital to be built.

NUH subsequently opened to the public as Singapore's first restructured hospital, attending to 50 outpatients and three inpatients on the first day of opening. The university's clinical departments from SGH (Singapore General Hospital), and KKH (Kadang Kerbau Hospital) moved to NUH progressively.



Over the years, NUH's close links with the university has set it apart from other hospitals.

Our unique identity as a university hospital is a key attraction for healthcare professionals who aspire to do more than practise tertiary medical care. We offer an environment where research and teaching are an integral part of medicine and continue to shape medicine, and transform care for the community we care for.



Singapore's first medical school was established within Singapore General Hospital in 1905



Singapore's first public dental school and clinic was set up within Singapore General Hospital in 1929



NUH opens its doors to the public on 24 June 1985

NUH is part of the National University Health System (NUHS)

NUH is a key member of the National University Health System (NUHS), one of three public healthcare clusters in Singapore.

We leverage our unique position in an academic health system to tap on the wealth of resources residing within the National University of Singapore (NUS). Through collaborations with NUS faculties, we can draw upon their academic, research and creative capabilities to develop solutions for existing and emerging health and healthcare needs.

With member institutions under one academic health system, NUHS creates synergies as a fully integrated cluster to provide seamless care, develop solutions for Singapore's healthcare challenges and nurture the next generation of healthcare professionals.



NUHS as an Academic Health System

The members of the NUHS are as follows:

3 Acute Hospitals

- National University Hospital
- Ng Teng Fong General Hospital
- Alexandra Hospital

2 Community Hospitals

- Jurong Community Hospital
- St Luke's Hospital

3 National Centres

- National University Cancer Institute, Singapore (NCIS)
- National University Heart Centre, Singapore (NUHCS)
- National University Centre for Oral Health, Singapore (NUCOHS)

3 Family Medicine Clinics

- Frontier Family Medicine Clinic
- Keat Hong Family Medicine Clinic
- Lakeside Family Medicine Clinic

3 Primary Care Networks (PCN)

- PCN@Bukit Panjang & Choa Chu Kang
- PCN@Jurong & Bukit Batok
- JCN@Queenstown, Clementi & Bukit Timah

3 Medical Schools

- NUS Yong Loo Lin School of Medicine
- NUS Faculty of Dentistry
- NUS Saw Swee Hock School of Public Health
- NUS Alice Lee Centre for Nursing Studies

7 Polyclinics

- Bukit Batok Polyclinic
- Bukit Panjang Polyclinic
- Choa Chu Kang Polyclinic
- Clementi Polyclinic
- Jurong Polyclinic
- Pioneer Polyclinic
- Queenstown Polyclinic

NUHS Diagnostic (NUHSD)

NUHS Pharmacy (NUHSP)

Built with state-of-the-art facilities and staffed by an experienced team of healthcare professionals, NUH is a major referral centre for advanced medical care. The hospital offers a comprehensive range of services for medical, surgical and dental conditions.

Our Clinical Services

Medical

- Cardiology
- Advanced Internal Medicine
- Dermatology
- Endocrinology
- Gastroenterology & Hepatology
- Geriatrics
- Infectious Diseases
- Neurology
- Nephrology
- Rehabilitation Medicine
- Rheumatology
- Respiratory Medicine
- Haematology
- Medical Oncology
- Psychological Medicine
- Family Medicine

Surgical

- Cardiac, Thoracic and Vascular Surgery
- General, Breast, Endocrine & Upper Gastrointestinal
- Colorectal
- Hepatobiliary & Pancreatic
- Neurosurgery
- Plastic Surgery
- Urology
- Ophthalmology
- Otolaryngology – Head & Neck Surgery
- Liver, Kidney & Pancreas Transplantation

Orthopaedics

- Orthopaedic Surgery
- Hand & Reconstructive Microsurgery

Obstetrics and Gynaecology

Paediatrics

- General Ambulatory & Adolescent Medicine
- Allergy, Immunology and Rheumatology
- Cardiology
- Development and Behavioural
- Endocrinology
- Gastroenterology, Hepatology & Nutrition
- Genetic and Metabolism
- Haematology & Oncology
- Nephrology, Dialysis and Renal Transplantation
- Neurology
- Pulmonary & Sleep Services
- Infectious Disease
- Critical Care
- Children Emergency

Support Services

- Anaesthesia
- Emergency
- Radiation Oncology

Diagnostic Services

- Diagnostic Imaging
- Laboratory Medicine
- Pathology

Dentistry



Future NUH

There are plans to redevelop NUH to accommodate best practices and increase services to improve care and increase value for our patients and their families.

Key Design Features

1. Vertically integrated hospital for operational efficiency
2. Connectivity for secure and intuitive wayfinding
3. Separation of flows for security and safety
4. Enabling automation of services
5. Design to promote well-being
6. Infrastructural modularity to enable long-term flexibility and minimise needs for renovations
7. Integrated tripartite mission - Clinical Care, Research and Education
8. An environmentally sustainable and car-light campus



Based on artist's impression

Innovation & Medical Information Technology

In keeping with times to serve our patients better, we continue to improve on medical innovations, such as, the NUHS mobile application for our patients' convenience, and extend the use of artificial intelligence and mixed reality holographic technology that contributes to improving clinical outcomes.



Based on artist's impression

NUH Observership and Fellowship

NUH provides Honorary Clinical Fellowship and Honorary Observership for clinicians who are interested to gain exposure in Singapore's healthcare industry. The Honorary Fellowship Scheme provides clinical training in various specialties, while the Honorary Observership Scheme provides opportunities to observe, without any hands-on experience. On average, we train about 60 fellows each year across different clinical specialties.



Honorary Clinical Fellowship Scheme

The Honorary Clinical Fellowship Scheme is for foreign doctors who are interested to gain exposure in the Singapore healthcare industry, to develop and strengthen the regional referral network, and to learn specific clinical skills. It offers a short-term attachment usually for a duration of 6 months or 12 months.

Honorary Observership Scheme

The observer status is accorded to foreign doctors for attachment to a clinical department to observe a specific skill with no hands-on experience or any financial commitment.

For more information on the list of specialties that offers the above schemes, please, visit: <https://for.sg/4xtk9b> or scan this QR code:



NUH Global Fellows Alliance (GFA)

The National University Hospital Global Fellows Alliance provides clinical fellows and clinicians who had trained in the hospital with networking opportunities, knowledge sharing and extensive resources to professional development and mentoring programmes.

1) Networking Opportunities

We provide members access to a global network of clinicians who are passionate about making meaningful improvements in the world. Members will be able to connect, build relationships and exchange knowledge with like-minded peers.

2) Professional Development

We offer a variety of tailored workshops, trainings, and coaching sessions, designed to help our members grow professionally in their areas of expertise, enabling them to succeed in their training and careers.

3) Extensive Resources

Our team is constantly building on our wealth of information and data to keep our members up-to-date on the latest developments in the practice of medicine. Members can look forward to newsletters and regular updates from the hospital.

4) A Community of Leaders

Our members are passionate about making a positive impact to the world and uplifting the standards of care. By joining our community, members have the opportunity to collaborate on research projects.

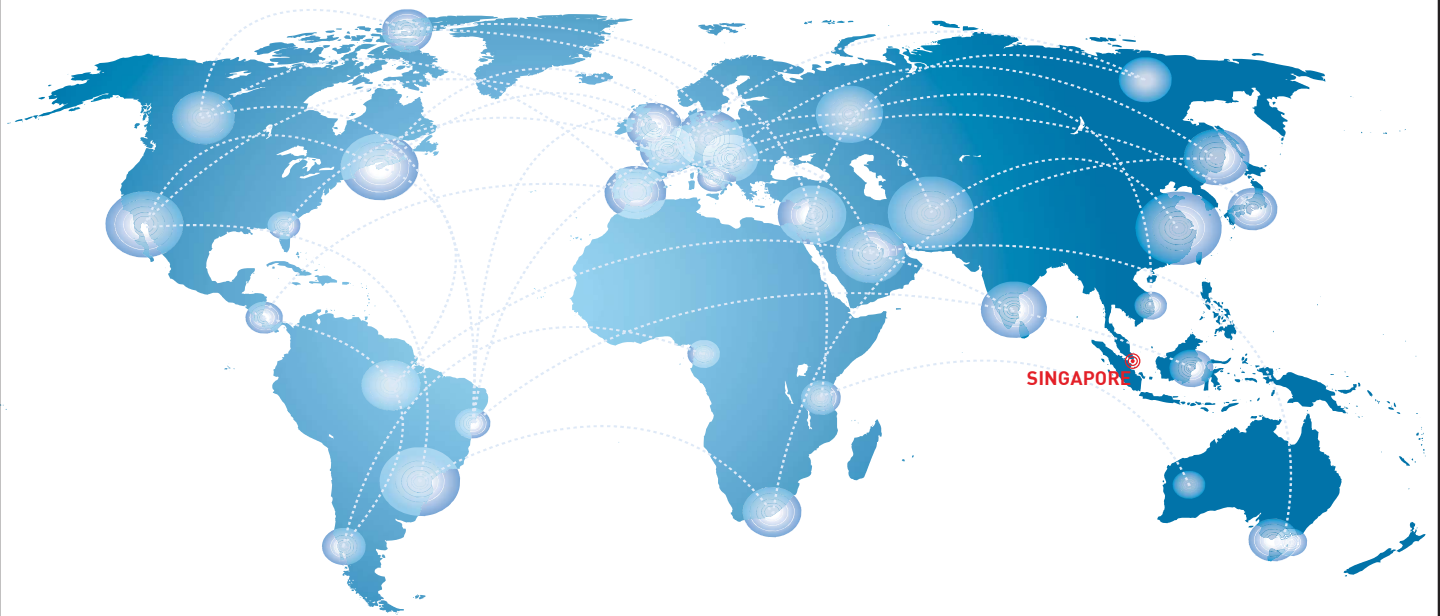
Join the National University Hospital Global Fellows Alliance by scanning this QR code:



Our team is committed to support our members in the journey towards becoming part of our community of change-makers.

For assistance, please email us at nuhfellowsalliance@nuhs.edu.sg





NUH International Collaboration & Partnership Office

NUH International Collaboration & Partnership Office (ICO) functions as the global extension of NUH, dedicated to fostering international collaborations and enhancing healthcare capabilities worldwide.

Our collaborations span international healthcare institutions, global agencies, and international insurance companies, all with the shared goal of elevating the standard of healthcare.

Our partners are chosen based on their global impact in clinical, education, research, and innovation, aligning with NUH's vision to enhance community health through more efficient and cost-effective care.

We prioritise nurturing the next generation of healthcare professionals, conducting world-class research, and empowering individuals to take ownership of their health.

By forming partnerships with leading institutes and international agencies globally, NUH strives to make a significant societal contribution. We create opportunities to support initiatives like patient shared care programmes, visiting professional programmes, and clinical fellowships and observerships. They include inter-institutional clinical information exchange sessions. We also provide consultancy and advisory services to healthcare institutions and organisations across the globe, covering various aspects of healthcare management.



NUH is dedicated to contributing to international communities through our outreach programmes. These initiatives are designed to reach underprivileged communities across different regions, delivering education, training, and the transfer of medical skills. Spearheaded by our doctors, residents, and medical students, these outreach projects aim to provide vital support, supplement existing services, and offer healthcare assistance to underprivileged communities on a global scale. The steadfast and generous support from sponsors who share our vision empowers our healthcare teams to create a positive and meaningful impact internationally.



National University Hospital Referral Centre (NRC)



The National University Hospital Referral Centre (NRC) fosters partnerships with our valued stakeholders to provide a patient-centric experience and ensure patients receive quality care. The NRC is supported by dedicated teams of account managers and liaison specialists from the Corporate Collaboration Office, Patient Liaison Centre and General Practitioner Liaison Centre.

Corporate Collaboration Office (CCO)

Corporate, Insurance & Third-Party Administration Companies

The CCO recognises the pivotal role corporate partners, employers, insurers and third-party administrators play, in ensuring peace of mind for patients and their loved ones.

In collaboration with these partners, we develop healthcare solutions with the goal of meeting the health and wellness needs of their employees and members.

Our services for corporate partners include:

1. Direct Corporate Billing

- Cashless services for inpatient, outpatient and accident and emergency (A&E) visits can be facilitated through either the company-issued Letter of Guarantee (LOG) and employee pass or the corporate group insurance LOG and member card.
- Essential healthcare services such as pre-employment and general health screening, occupational health screening and services, and vaccination services to ensure a healthy and productive workforce are also available at NUH and can be facilitated through our direct corporate billing arrangement.

2. Corporate Health Education

- NUH has an extensive range of sub-specialties to provide onsite or webinar talks and workshops for employees/members on various medical conditions and health related topics. Through this initiative, we hope to equip employees and members with necessary knowledge on common health problems, and how to take care of their health.



3. One-Stop Assistance through Patient Liaison Centre (PLC)

- Benefit from our single-point-of-contact facilitation and resolution of medical and financial queries through our PLC.
- Through a suite of PLC services, our team of specialised and patient liaisons are empowered to fast-track appointment requests and assist with every aspect of your employee/member's needs at NUH for a seamless and convenient experience.
- Corporate partners can also be assured of timely documentation and claim processing support from the client servicing team.



PLC is a 24/7 one-stop service centre providing a wide spectrum of services and allowing our patients and corporate partners to gain easy access to our specialists and information at NUH.

A team of administrative specialists serves as the primary and convenient contact point for Singaporean and our global patients and partners, managing all queries, from pre-arrival to post-discharge, and coordinating patient appointments and their medical care.

We strive to provide a seamless patient experience journey and are committed to meeting the needs of our patients throughout their stay with us. Our assistance covers areas including and not limited to:

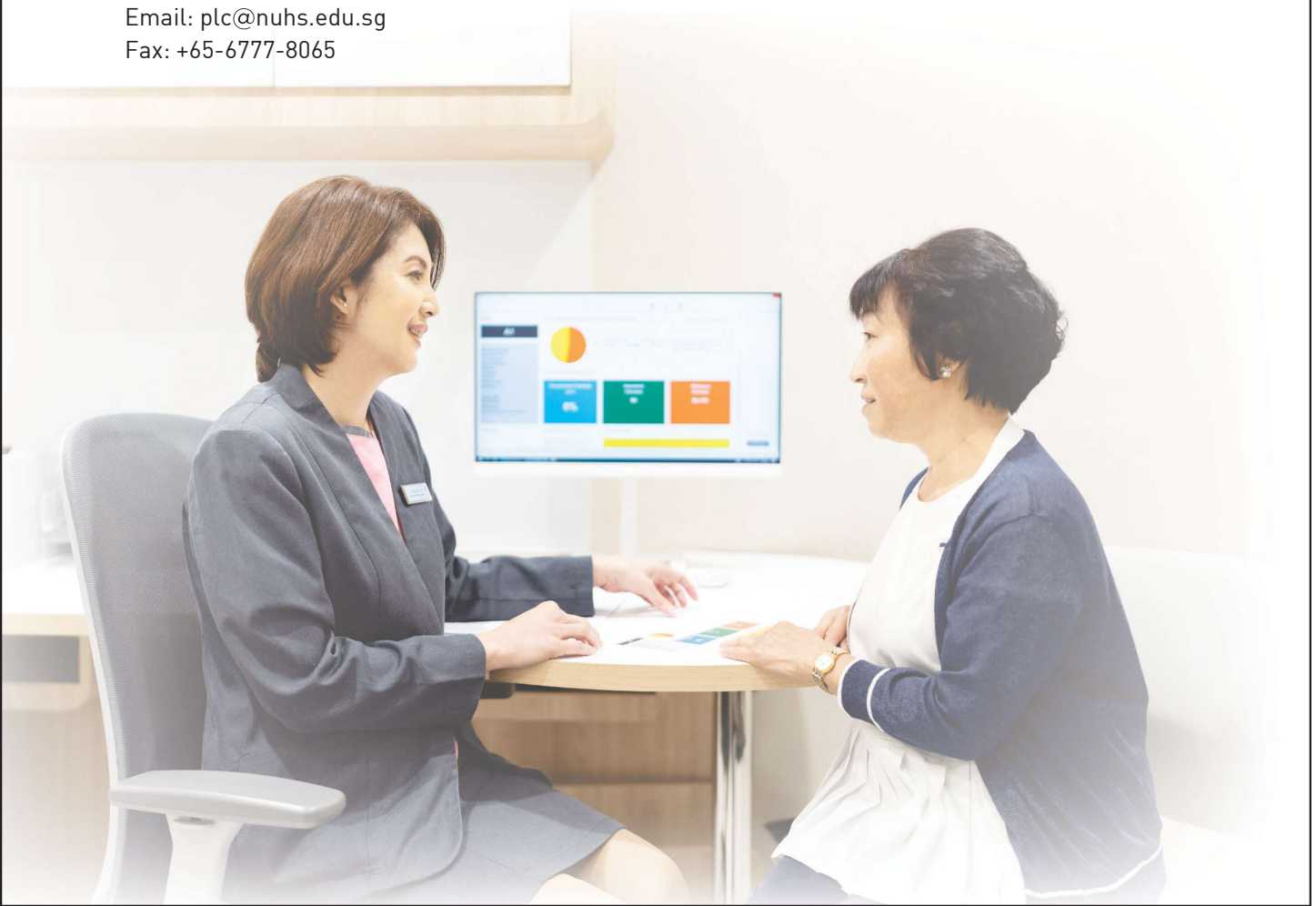
- Accommodation and ground transportation
- Communication with the care team, including doctors, for the patients
- Direct admission coordination
- Enquiries on health screening and medical appointments
- Cost estimation and billing information
- Flight reservation
- Language interpretation
- Liaison with corporate partners for patient appointment enquires, appointment booking, letter of guarantee, and billing enquiries
- Medical enquiries and appointment-booking for GP Partners
- Overseas medical evacuation (including emergency evacuation) and ambulance arrangements in particular for returning Singaporean
- Arranging outpatient medical appointments

For assistance, please contact:

24-Hour Helpline: +65-6779-2777

Email: plc@nuhs.edu.sg

Fax: +65-6777-8065



NUH Fact Sheet

Quick Facts

Inpatient Facilities



1,289

Beds

(15% of which are ICU and HD beds)



44

Wards



12

Delivery Rooms



36

Operating Theatres

Comprising:

- General Wards
- Intensive Care Unit
- High Dependency Units

Outpatient Facilities



40

Specialist Outpatient Clinics / Centres



11

Off-Site Specialist Clinics / Centres



18

Specialised Service Centres



3

On-Site National Centres

- National University Cancer Institute, Singapore
- National University Heart Centre, Singapore
- National University Centre for Oral Health, Singapore

Emergency Facilities

Accident & Emergency (Adult)
Children's Emergency

Staff Strength



1,633

Medical & Dental



3,329

Nursing



1,859

Clinical Support Services



1,522

Ancillary



832

Administration & Operations



965

Service Partners

Our Workload

	Inpatient Discharges	Outpatient Attendances	Emergency Attendances	Day Surgeries
*FY2021	65,595	963,285	130,026	57,221
*FY2022	68,672	984,357	148,934	65,031
*FY2023 (Apr-Oct)	54,402	768,710	109,950	52,801

*COVID-19

Clinical

NUH has been consistent in driving clinical advancements. Our team of professionals has accomplished various breakthroughs and achievements over the years. Many of our staff have also been recognised at national and international levels for their contributions.

National Medical Excellence Awards

The National Medical Excellence Awards (NMEA) is a national-level award to recognise the efforts of outstanding clinicians, clinician-scientists and other healthcare professionals for their contributions.

It acknowledges their achievements in advancing healthcare, improving the standards of patient safety and driving research and education, which ultimately improve people's lives.

10

Outstanding Clinician Awards

2008 | 2009 | 2010 | 2012 | 2014 |
2017 | 2018 | 2019 | 2021 | 2023

8

Outstanding Clinician Mentor Awards

2008 | 2009 | 2011 | 2013 | 2014 |
2015 | 2020 | 2022

3

Outstanding Clinical Quality Activist / Champion Awards

2013 | 2015 | 2016

3

Outstanding Clinician Educator Awards

2013 | 2015 | 2018

7

Outstanding Clinician Scientist Awards

2013 | 2015 | 2016 | 2017 | 2019 |
2020

7

Clinical Excellence Team Awards

2010 | 2011 | 2012 | 2013 | 2014 |
2016 | 2018

President's Award for Nurses

The President's Award for Nurses is the highest accolade in the nursing profession. This national award recognises nurses who have shown sustained outstanding performance and contributions to patient care delivery, education, research and administration.

6

2002 | 2009 | 2013 | 2014 | 2017 | 2021

President's Science and Technology Awards

The President's Science and Technology Awards (PSTA) are the highest honours bestowed on exceptional research scientists in Singapore for their excellent achievements in science and technology.

1

President's Science and Technology Medal

2014

1

President's Science Award

2010

1

President's Technology Award

2012

1

National Science and Technology Medal

2008

Clinical Milestones

- | | |
|---|---|
| <p>2022 Extracorporeal membrane oxygenation (ECMO) was used on an 18-year-old teen with septic knee infection for over 60 days, saving his life.
Successfully conducted a liver transplantation on a Stage 4 colorectal cancer patient whose cancer has spread to the liver.</p> <p>2021 MOH approved the National Pancreas Transplant Programme as a mainstream service and appointed NUH as the dedicated surgery site for pancreas transplants.</p> <p>2020 Co-developed reusable, foldable and sterilisable 'shield' to provide additional protection for healthcare workers caring for COVID-19 patients.</p> <p>2019 First study of its kind to gain insights into the structures of proteins associated with organ transplant rejection.
Developed the first self-inflating, orally ingested capsule in the world to help obese patients lose weight by inducing feelings of fullness in the stomach.</p> <p>2018 Became the first hospital in Southeast Asia to introduce transperineal prostate biopsy that has near-zero infection risk for patients.</p> <p>2017 Led the \$2.6 million multi-centre clinical trial on the use of stem cells to repair liver cirrhosis as an alternative to liver transplant. First Food Oral Immunotherapy Programme in Singapore to treat peanut, cow's milk and tree nut allergies in children.</p> <p>2016 First large-scale study of its kind to better understand why people develop diabetes.</p> <p>2015 Achieved Singapore's first successful living paired kidney exchange transplant. Delivered Asia's first baby conceived naturally from implanted ovarian tissue.</p> <p>2014 Successfully performed the first faecal microbiota transplantation in Singapore, giving hope to people with chronic gut infections.</p> <p>2013 Adopted the use of a 3-Dimensional (3D) prototyping printer to perform precision reconstructive cranio-maxillofacial surgery on patients with severe facial injuries and deformities.
Carried out Asia's 1st foetal stem cell transplant on a baby with brittle bone disease.</p> <p>2012 Performed Singapore's first simultaneous pancreas and kidney transplant.</p> | <p>2011 Pioneered scarless surgery through the mouth using hospital-developed Master And Slave Transluminal Endoscopic Robot.</p> <p>2010 First successful combined liver and kidney transplant on a young person in Singapore. Successfully delivered and separated Asia's first pair of monochorionic and diamniotic conjoint twins.</p> <p>2009 Pioneered the new generation of keyhole surgery for abdominal surgeries leaving virtually no scar.</p> <p>2008 First non-surgical aorta expansion performed in Singapore.</p> <p>2007 Conducted first-in-man clinical trials to test drugs on humans for the first time.</p> <p>2006 Performed Asia's first hip resurfacing procedure.
Carried out the first simultaneous bilateral cochlear implant on a young patient in Singapore.</p> <p>2005 Accomplished Asia's first bone marrow and kidney transplant.</p> <p>2002 Performed the first micro-incision vitreoretinal surgery in Southeast Asia.</p> <p>2001 Jointly performed world's first successful cord blood transplant on a thalassaemia major patient with another hospital.</p> <p>1997 First in Asia to perform an open heart surgery on a 'beating heart'.
Achieved Southeast Asia's first 'split liver' transplant.</p> <p>1996 Region's first birth of 2 sets of twins from frozen embryo donations.</p> <p>1995 Carried out the first minimally invasive coronary bypass surgery in the region.</p> <p>1991 Achieved world's first successful birth of twins using co-culture.</p> <p>1990 Performed Singapore's first liver transplant. Developed first known software programme for colour vision testing in the world, the fully automated Farnsworth 100 hue test.</p> <p>1989 World's first baby conceived through MIST (Micro-Insemination Sperm Transfer).</p> <p>1986 First Asian hospital to successfully use frozen embryos.</p> |
|---|---|

Research

NUH is committed to research and strives towards improving clinical outcomes for patients. We develop cutting-edge treatments — from bench to bedside — bringing hope and new cures to patients.

- 2022** As the only study site in Southeast Asia, NUH contributed to the clinical trial of Lecanemab. Lecanemab is a drug which is shown to slow the progression of early Alzheimer's disease in patients aged 50 to 90.
- 2021** A new species of bacteria was unexpectedly discovered and named *Staphylococcus singaporensis* sp. nov. (*S. singaporensis*), after Singapore. It is part of the *Staphylococcus aureus* (*S. aureus*) complex, a common bacterial cause of infections.
- 2019** The first study of its kind to gain insights into the structures of proteins associated with chronic organ rejection.
- 2017** A large-scale study to identify the biomarkers of progression of Type 2 Diabetes, or factors that affect a person's susceptibility to developing the condition was started. The landmark study is the first of its kind in the Asia-Pacific region.
- 2016** A form of chemotherapy, trialled in Singapore on patients with advanced gastric cancer, showed encouraging results in prolonging patients' lives. Advanced cancer patients in the trial survived longer and enjoyed better quality of health.
- 2014** The Singapore Programme of Research Investigating New Approaches to Treatment of Tuberculosis (SPRINT-TB) commenced with a vision to become the leading international academic research programme on delivering new treatments for TB.
- 2013** A long-term research in minimal residual disease in childhood leukaemia has changed the way Childhood Acute Lymphoblastic Leukaemia is treated. A new and gentler approach for Childhood Acute Lymphoblastic Leukaemia personalises the intensity of chemotherapy to enable high cure rates of 80.6 percent and treatment cost savings, as well as reduces patients' hospital stay. Patients also have fewer side effects (treatment-related toxicities) and better quality of life when they enter adulthood.
- 2011** a) A ground-breaking, five-year study focusing on heart failure in 5,000 patients across the Asia-Pacific was launched to analyse sudden cardiac death in heart failure.
b) A grant was awarded for a three-year period to cover the research project, 'Novel Therapeutic Approaches to Intestinal Metaplasias, the Precursors of Gastric and Esophageal Adenocarcinoma'.
- 2010** A study that showed that irregular meals can cause gastritis and ulcers won a gold award in the Singapore Allied Health category at the inaugural Singapore Health Biomedical Congress.
- 2009** A grant was given to make heart valve operations faster and safer.
- 2008** a) A S\$25 million grant was awarded to investigate the growing epidemic of metabolic diseases in Singapore. The aim is to develop more personalised drugs that can prevent people from developing obesity-linked conditions like diabetes and heart problems.
b) A scorecard was developed to help predict Asians' risk for colorectal cancer, the most common cancer in Singapore.
- 2007** a) Our doctor led the Singapore Gastric Cancer Consortium to clinch Singapore's first translational clinical research grant. The S\$25 million grant enabled investigators to research a screening tool, the genetic link and novel treatments for gastric cancer.
b) It was discovered that genetics is the key to why different ethnic groups of patients require different dosage of the commonly used anti-clotting drug, warfarin, to achieve the same effect.
c) First-in-man clinical trials were conducted – the cancer drug ABT869 that suppresses tumour growth by preventing the growth of new blood vessels that supply the tumour with oxygen and nutrients was tested on humans for the first time.
- 2006** Our doctor was part of a US research team that successfully grew liver cells.
- 2005** In a breakthrough research, a team of doctors successfully used stem cells to repair the damaged knees of patients.

Education

The call to pass on medical knowledge has always been a tradition at NUH, the principal teaching hospital of NUS Yong Loo Lin School of Medicine and Faculty of Dentistry. Our healthcare professionals play an active role in training and nurturing students to become competent professionals.

Undergraduate Education

>2,000
Students in NUH
(Medical, Nursing, Allied Health)

3,745
Tutors
(Medical, Nursing, Allied Health)

4.5
NUH Teaching Score for Teaching Effectiveness
(National Average 4.5)

- 2023** Nine NUHS Residency programmes have transited to Accreditation of Postgraduate Medical Education Singapore (APMES) since Jul 2023.
All Residency programmes and Advanced Specialist Training (AST) programmes will transit to APMES by 2026.
Eight out of 30 chief residents selected for the Singapore Chief Residency Programme (SCRCP) were from NUHS Residency.
- 2022** NUHS Residency works with MOH in preparation for the transition to Accreditation of Postgraduate Medical Education Singapore (APMES).
- 2021** Out of the 29 chief residents selected for the Singapore Chief Residency Programme (SCRCP), 10 were from NUHS Residency.
NUHS was successfully re-accredited as a sponsoring Institution under NUHS Residency by ACGME-I from 2021 to 2025

Postgraduate Training

>600
Residents

>600
Faculty

8.23
NUHS Residency Residents Survey Overall Experience Score
(Out of 10)

- 2015** NUHS was re-accredited by ACGME-I as a sponsoring Institution for the residency programmes.
Residency distinction tracks in Medical Education, Quality & Patient Safety, and Research were formed to groom residents who are strong clinically and have an interest in one of the tracks.
The Residency Leadership Development Programme (RLDP) was initiated by NUHS Residency to train the resident leaders from both medical and surgical specialties.
- 2012** Welcomed our first batch of pharmacy residents.
- 2011** First in Asia to launch a fertility treatment training centre – Centre for Reproductive Education and Specialist Training (CREST).
- 2010** Welcomed our pioneer batch of medical and nursing residents.
- 2009** First hospital in Asia to launch a simulation laboratory for critical care training – the Mrs Lee Kong Chian Critical Care Nursing Simulation Laboratory.