Duke-NUS offers programmes that lead to a Doctor of Medicine (MD) degree, an MD/PhD degree or a PhD degree in Integrated Biology and Medicine, to groom the next generation of doctors, clinician-scientists, and scientists.

Medical students enter with at least a baccalaureate degree in any field except medicine, and are conferred a joint Doctor of Medicine degree from Duke University and the National University of Singapore (NUS) when they graduate.

Our education model is based on that at Duke University’s renowned School of Medicine. Our integrated approach combines academic learning, clinical experience, and clinical and translational sciences research. Key distinguishing features:

- Students cover basic sciences in their first year
- They care for patients one year earlier than their peers at other American medical schools
- Students devote one year to independent scholarship and research

Our Students

Successful student applicants typically have entrance Medical College Admissions Test (MCAT) scores of over 30 and GPAs over 3.5.

As at 30 Sept 2014, Duke-NUS has enrolled 448 students of diverse academic and cultural backgrounds, hailing from 24 countries and 88 different universities. Some of these include:

- National University of Singapore
- Nanyang Technological University
- Johns Hopkins University
- Duke University
- University of Toronto

Student Performance

Our indicators of student performance are based both on US licensing and local examinations. These indicators have shown our students to be performing well.

Our students have also excelled in the area of medical research, with more than 150 student publications across the four classes that have since graduated.
Duke-NUS has established five world-class Signature Research Programmes (SRPs) that are aimed at making a substantive impact on Singapore’s biomedical sciences scene, with each extending from fundamental or discovery science into the translational/clinical realm. The areas have been chosen due to their relevance to major health burdens of Singapore and the region. We believe there is a competitive advantage for conducting such research in Singapore, with the programmes capitalising on the strengths of Duke University.

Duke-NUS adopts a multi-faceted, and multi-disciplinary approach, leveraging on state-of-the-art technology platforms that are opening up new horizons for research. This has allowed our researchers to ask more refined questions and explore theories that can potentially impact the way diseases are identified and treated. A number of significant research discoveries have been produced on these platforms.

Four of our SRPs are laboratory-based:

- Cancer and Stem Cell Biology (CSCB)
- Cardiovascular and Metabolic Disorders (CVMD)
- Emerging Infectious Diseases (EID)
- Neuroscience and Behavioural Disorders (NBD)

A fifth, Health Services and Systems Research (HSSR), is more orientated towards public health policy with an emphasis on health economics, decisions sciences and disease prevalence/health burden modelling.

Under the SingHealth Academic Medicine partnership, Duke-NUS also undertakes clinical research at affiliated hospitals, clinics and specific research sites. It also supports clinical research by providing senior disease experts and senior quantitative experts as part of mentoring teams. The affiliated Singapore Clinical Research Institute also provides full scientific collaboration and guidance in protocol design, execution analysis and publication for investigators.

Annual Students’ Fees (AY 2014/2015)

- Singaporeans: $41,000
- Permanent Residents: $45,350
- Internationals: $52,150

In addition, there is a four-year service obligation for local students and five-year service obligation for international students.

A Duke-NUS innovation that shapes the future of medical education

Learn
Students do self-directed learning and review core content before they come to class.

Engage
Students work in teams to engage in problem-solving, for an active learning environment.

Apply
With core concepts covered, students apply their knowledge to solve practical applications of the core content.

Develop
Students develop critical and creative thinking skills which enable them to be future leaders who will improve the practice of medicine.

TeamLEAD, our innovative approach to education, has garnered wide-spread attention and is now adopted in several schools in Singapore. We are currently training over 100 teachers directly and indirectly using this methodology.

Our Research Collaborations

Faculty members actively collaborate with academic and healthcare institutions, government organizations, and pharmaceutical and biotechnology companies, both locally and internationally.

We have major research collaborations with:

- Duke University
- SingHealth Group
- Ministry of Health
- A*STAR
- Singapore Dengue Consortium with DSO National Laboratories
- ImaginAb, Inc.
- Visterra, Inc.
- GlaxoSmithKline

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Our Centres

The Centre for Quantitative Medicine (CQM) is an academic home made up of quantitative scientists in the medical field. It serves as a point of contact for biomedical researchers from Duke-NUS partners requiring quantitative expertise.

The Centre for Computational Biology (CCB) provides expertise in computational biology and bioinformatics. CCB investigators are especially adept at integrated analyses for –omics studies and systems biology approaches.

The Centre for Cognitive Neuroscience (CCN) is one of Duke-NUS’ pioneer labs, that has evolved into an entity, comprised of several faculties engaged in multidisciplinary research into the neural underpinnings of human behaviour.

Defining the Future of Medicine

Duke-NUS and SingHealth have established a partnership in Academic Medicine (AM). This harnesses the collective strengths of Duke-NUS’ medical education and research capabilities, and SingHealth’s clinical expertise. Through this, clinical care, education and research are integrated, leading to improved healthcare and patient outcomes.

Duke-NUS and SingHealth faculty work in tandem with students and staff to nurture a vibrant environment that encourages new discoveries in healthcare. The key to the partnership’s success is the integration of cutting-edge clinical and translational research and patient care. This collaborative model builds on similar successful concepts applied in academic medical centres across the world.

Three key features of the SingHealth Duke-NUS Academic Medicine Centre model are:

Academic Clinical Programmes

Central to AM, the Academic Clinical Programme (ACP) is an integrated framework designed to support our vision towards AM. ACPs are created for each clinical specialty, harnessing the expertise of each discipline across Duke-NUS and SingHealth for greater synergy in clinical care, education and research. There are currently 11 ACPs established, with more in the pipeline.

11 Academic Clinical Programmes (ACPS)

- Cardiovascular
- Medicine
- Neuroscience
- Obstetrics & Gynaecology
- Oncology
- Ophthalmology & Visual Sciences
- Oral Health
- Paediatrics
- Pathology
- Radiological Sciences
- Surgery

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Joint Institutes

Two institutes have been set up to support AM. The Academic Medicine Education Institute (AM.EI) and Academic Medicine Research Institute (AMRI) support faculty development at the Duke-NUS SingHealth academic healthcare cluster, and support the development and career pathways of Clinician Scientists and Clinician Educators.

Academic Medicine Education Institute (AM.EI)

The Academic Medicine Education Institute (AM.EI) is a joint institute between Duke-NUS and SingHealth. It aims to raise standards in healthcare education by creating a community of educators, who promotes academia and pedagogical development. AM.EI equips educators with best teaching practices and recognises the academic advancement of clinician educators by providing resources and opportunities.

Academic Medicine Research Institute (AMRI)

The Academic Medicine Research Institute (AMRI) is a collaboration between Duke-NUS and SingHealth. It serves as a nexus for the development of research-oriented careers. AMRI provides a full spectrum of support, including mentoring, helping both budding and established researchers transform their ideas into research proposals, and fostering collaborations among clinician investigators and clinician scientists in the ACPs.
DUKE-NUS AT A GLANCE

1,400 JOURNALS PUBLISHED OVER PAPERS IN INTERNATIONAL PEER-REVIEWED JOURNALS

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> $280 MILLION IN RESEARCH FUNDING LOCALLY AND OVERSEAS

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> 1,000 FULL-TIME AND ADJUNCT FACULTY IN RESEARCH AND EDUCATION

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> 4 NATIONAL RESEARCH FOUNDATION FELLOSHIPS

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> 80 RESEARCH COLLABORATIONS AND PARTNERSHIPS

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51 PATENTS FILED

51 PATENTS FILED

8 LICENCES AWARDED

8 LICENCES AWARDED

3 BIOTECH COMPANIES STARTED UP BY DUKE-NUS INVESTIGATORS

3 BIOTECH COMPANIES STARTED UP BY DUKE-NUS INVESTIGATORS

*All information accurate as of December 2014

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Celebrating 10 years of transforming medicine and improving patients’ lives