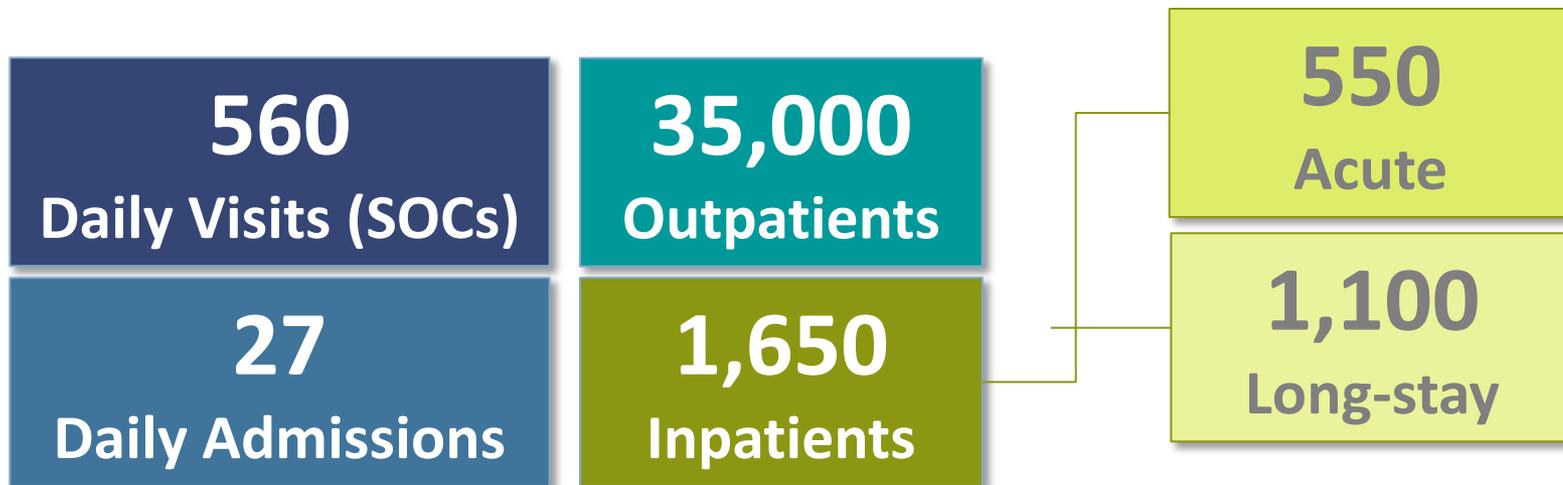




Associate Professor Chong Siow Ann
Vice Chairman, Medical Board (Research)

About IMH

- Singapore's only tertiary psychiatric institution
- National centre part of the NHG cluster
- 2010 beds
- Looks after most severe cases
- Provides acute and long-term care



(as of 2011)



HOSPITAL-BASED SERVICES

- General Psychiatry
- Geriatric Psychiatry
- Child & Adolescent Psychiatry
- Community Psychiatry
- Forensic Psychiatry
- Rehabilitation Psychiatry
- Emergency Psychiatry
- Early Psychosis Intervention
- Addiction Medicine
- Psychotherapy
- Allied Health

COMMUNITY-BASED SERVICES



**YOUNG
REACH
CHAT**



**ADULTS
CMHT
Job Club
GP-
Partnership**



**ELDERLY
APCATS**

National Mental Health Blueprint Programmes



Clinic B



NAMS Clinic



Sayang Wellness Clinic



**Community Wellness Clinic,
Queenstown**



**Community Wellness Clinic,
Geylang**



CGC@IMH and HPB

Research

- Carry out scientifically and clinically relevant research that change the way we think about mental health and the way we treat people with mental illness

RESEARCH OFFICE

- Support research at all levels
- Review, oversight and audits
- Provide training and mentoring
- Establishes collaboration with other centres and stakeholders



- Psychiatric Epidemiology
- Mental Health Service Research
- Research in Bioethics of Psychiatric Research, Treatment & Policies



Programme for
Mental Health
Policy Research

- Clinical Phenotyping
- Psychiatric Genomics
- Neuro-imaging
- Neurocognition
- Clinical Trials



Programme for
Translational &
Clinical Research



Early Psychosis
Intervention Programme



GPs and Their Role in Mental
Healthcare in Singapore



Screening of NS Enlistees
for Psychiatric Morbidity



Psychiatric Morbidity Among
Mentally Ill Inmates in the
Singapore Prison Service



Depression & Diabetes
Mellitus: Prevalence, Cost
& Impact on Treatment



Barriers to Care: Public
Perception Towards Mentally
Ill in Singapore



Financial Needs of
Mentally Ill Patients and
Their Caregivers



Singapore Mental Health
Study



Well-being of the Singapore
Elderly



Bioethics Research in Mental
Health

National study to obtain accurate information about the prevalence and correlates of mental, substance, and behavioural disorders in Singapore

SGD 7-million funding

Collaborating Centres:



Loving Hearts, Beautiful Minds



MINISTRY OF HEALTH
SINGAPORE



NANYANG
TECHNOLOGICAL
UNIVERSITY



Largest nationwide survey on mental health 15,000 Singaporean adults to participate

THE Institute of Mental Health is spearheading a nationwide mental health survey to find out how widespread various mental disorders among Singaporeans are.

About 15,000 adults have been selected for face-to-face interviews in their homes. Their identities will be kept confidential.



nances if the latter cannot cope.

Worldwide, one in four people have some form of mental illness, but two-thirds of them go without treatment, even in countries with rich resources.

The survey aims to find out if such alarming statistics are mirrored here, said associate profes-

Largest mental-health survey to poll 6,500

BY SIA LING XIN

A SURVEY on mental health - the largest of its kind - will be done to find out how common mental disorders are among adult Singaporeans, and if those with such conditions are seeking help.

It will also examine the impact of mental-health disorders on affected individuals and their families.

The Singapore Mental Health Study, which aims to poll at least 6,500 people, will be carried out by the Institute of Mental Health (IMH), Nanyang Technological University, National University of Singapore and Rand Health, a divi-

vey in 2004 polled more than 8,900 people, and focused on the prevalence of only depressive and anxiety disorders.

It found that an adult Singaporean has a 5.5 per cent risk of developing depression and a 3.4 per cent risk of developing an anxiety disorder in his lifetime.

The results highlighted the need for mental-health programmes, and led to the creation of a five-year National Mental Health Blueprint by the Ministry of Health (MOH) in 2007.

The new study will be more comprehensive, screening for anxiety, mood and substance-abuse disorders, including *mania*, gambling addiction and *nicotine dependence*.

Well-being of Singapore Elderly (WiSE) Survey

The WiSE survey aims to obtain accurate national information about the prevalence and correlates of depression and dementia among the elderly in Singapore

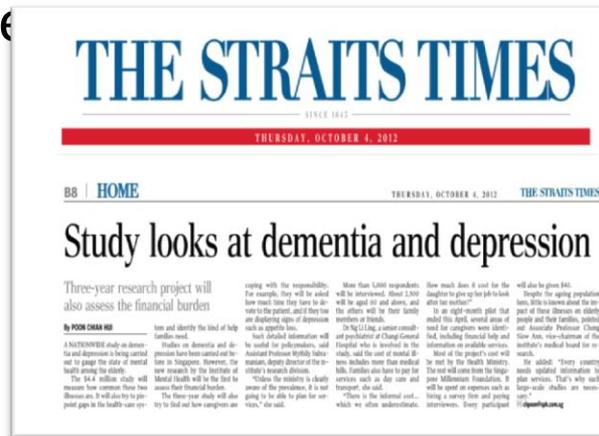
Duration:

Apr 2011 – Mar 2014

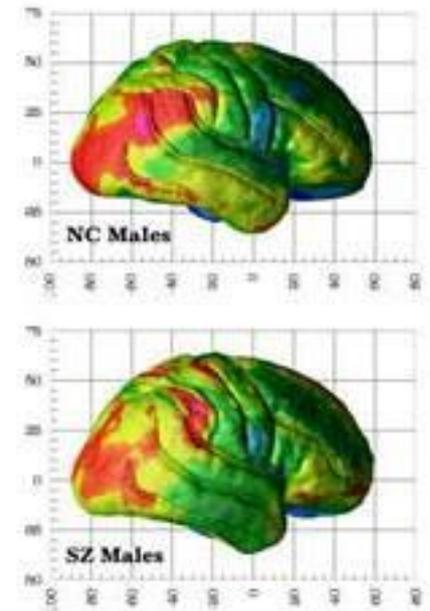
Funding:

Ministry of Health: \$ 3.2 mil

Singapore Millennium Foundation, Temasek Trust: \$ 1.2 mil



- Clinical Phenotyping & Neurocognition
- Pharmacogenetics of Tardive Dyskinesia
- Neuroimaging Studies of Patients with Psychosis
- Lipidomics of Psychosis
- Clinical Trials
- TCR in Neuroscience Flagship Programme



\$25 million awarded to IMH for

- A Comprehensive Genetic Study of Schizophrenia and Neurocognitive Impairments
- Prospective Observational Study of Young Adults at Ultra High Risk for Psychotic Disorders
- Evaluation of a putative neurocognitive enhancing agent

THE STRAITS TIMES WEDNESDAY, MAY 14 2008

\$25m each for blindness, schizophrenia research

2 projects aim to pool expertise and resources, develop treatments fast

By CHIANG AI-LIEN
Science Correspondent

A WHOPPING \$25 million each has been awarded to two ambitious research projects here to tackle blindness and schizophrenia.

The projects – Singapore's largest – will involve about 50 researchers here and abroad, comprising doctors and scientists from hospitals, tertiary and research institutes and disease centres.

The aim is to get people from different disciplines to pool their expertise and resources and get treatments to patients fast.

The money for the projects comes from the Translational and Clinical Research Flagship Programme.

The programme has a five-year budget of \$125 million, and is funded by the high-level National Research Foundation, which steers Singapore's research efforts.

Last year, it also doled out \$25 million for research into stomach cancer.

Schizophrenia, the psychotic illness that can cause hallucinations and delusions, will be put under the microscope by a team headed by Associate Professor Chong Siow Ann, vice-chairman of the medical board (research) of the Institute of Mental Health, one of the world's largest mental health facilities.

His team will look at tens of thousands of young people – the illness tends to strike those aged between 15 and 25 – to track down those at risk and see who actually gets the illness.

The Singapore National Eye Centre alone treats over 34,000 cases of glaucoma and more than 15,000 cases of corneal disease each year.

In many cases, the treatment is surgery, but for some reason, this also affects Asian eyes, leaving many with scars, which also affects vision.

"We want to be able to control scarring and induce wound healing," said Professor Tan, who is also the eye centre's director.

Breakthroughs could be expanded within the field and beyond.

They could help eyes heal after Laski surgery to correct poor vision, for instance, and also help in healing other parts of the body damaged by disease or operations.

The eye disease programme, led by Singapore Eye Research Institute direc-

tor Donald Tan, will delve into the two major causes of blindness: glaucoma, a disease of the optic nerve, and corneal disorders such as eye infections.

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FIGHTING SCHIZOPHRENIA: Prof Chong Siow Ann of the Institute of Mental Health.



FIGHTING BLINDNESS: Prof Donald Tan of the Singapore Eye Research Institute.



Focused in approach, wide in scope

BATTLING BLINDNESS

The main aim of the programme is to develop better anti-scarring and wound-healing treatments for glaucoma and corneal diseases, two of the major causes of blindness.

Among the goals:

- New drug treatments to control healing after surgery to treat inflammation and infection, and new ways to deliver drugs to different parts of the eye
- New biological tissue "glue" for surgery as an alternative to sutures
- Developing ultra-high resolution imaging technologies to look at wound-healing at a cellular level
- New corneal transplantation surgeries using special lasers and new stem cell transplantation methods
- Research into the Asian form of glaucoma, imaging devices to screen for glaucoma and preventing nerve damage in the disease
- Identifying Asian genes responsible for it

BATTLING SCHIZOPHRENIA

The programme aims to identify key genetic, biological, cognitive, clinical and social risk factors for psychotic disorders, and test new treatments for schizophrenia.

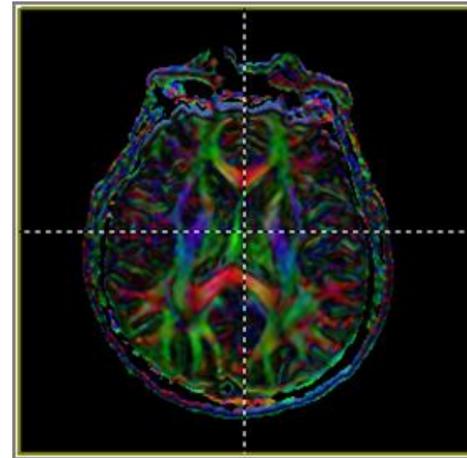
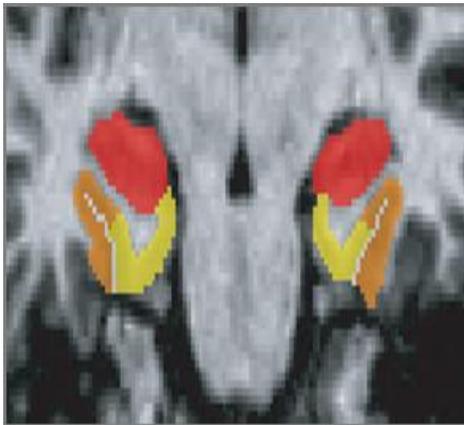
The work includes:

- A genetic study of schizophrenia and neurocognitive impairments
- Study of young adults at risk of psychotic disorders
- Clinical trial of potential drugs which help treat impairments caused by the disease, including reduced attention span and memory function

ailien@sph.com.sg

Neuroimaging Programme

- (1) Determination of brain white matter changes in schizophrenia and bipolar disorder using structural magnetic resonance imaging (sMRI), diffusion tensor imaging (DTI), resting state fMRI and their relationship to psychotic symptoms.
- (2) Understanding longitudinal changes of these brain white matter changes and their inter-relationships with neurocognitive functioning.
- Elucidation of genetic factors underlying brain neuroanatomical changes and impact on functional outcomes.





A nutritional and social skills intervention on conduct disorder and hyperactivity



A Randomised Controlled Trial of a Brain-Computer Interface Based Intervention for the Treatment of ADHD



An Investigation of Gaming Effects & Counselling Strategies for Young Gamers in Singapore



A striatal synaptic dysfunction hypothesis for repetitive behaviours in autism evaluated by re-sequencing of candidate genes



Predictors of treatment outcome for pathological gamblers

Epigenetics of Pathological Gambling



Lofexdine Study: A double-blind randomised controlled clinical trial of Lofexidine versus Diazepam in the management of the opioid withdrawal syndrome during inpatient detoxification in Singapore



Neuropsychological functioning among Addiction Patients

Local

Genome Institute of Singapore
Singapore Clinical Research Institute
Duke-National University of Singapore (NUS)
Graduate Medical School
Centre for Bioethics, YL School of Medicine
Dept of Biochemistry, Centre of Life Sciences
Saw Swee Hock School of Public Health
Singapore Armed Forces
Singapore Prison Service
Ministry of Health Singapore
Singapore Bioimaging Consortium
National Neuroscience Institute
Nanyang Technological University
Alexandra Hospital
Singapore Millenium Foundation

International

Duke University Medical Centre, Durham, USA
Harvard School of Public Medicine, USA
University of Melbourne, Australia
University of Hong Kong
RAND Corporation, USA
National Institute of Mental Health (NIMH), USA
Hadassah-Hebrew University Medical Center, Israel
Nagoya University Graduate School of Medicine,
Japan
Shanghai Jiao tong University, China
University of Delhi, India
Psychiatric GWAS Consortium, International
Schizophrenia Consortium, Molecular Genetics of
Schizophrenia



- Access to large patient population
- Single Institute with high level of clinical expertise serving at the national level
- Large diverse patient population: Chinese, Malays, Indians
- Intact medical records from first contact with accessibility to families
- Established research infrastructure
- Strong collaboration with other research centres
- Research Performance (2005 to present)
 - Total amount of extramural grants : 56.1million SGD
 - Total number of peer-reviewed papers : 424
 - Total number of patents and copyrights : 3

Contacts of Lead Investigators

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**Dr Jimmy Lee (jimmy_lee@imh.com.sg)
Neurocognition, genomics**

**Dr Lim Choon Guan (choon_guan_lim@imh.com.sg)
Child and Adolescence**

**Dr Guo Song (song_guo@imh.com.sg)
Addiction**