

The promise of  
**CURE**  
begins now



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SINGHEALTH FOUNDATION

We Believe  
Tomorrow's  
Healthcare  
Can Be Better  
If We Do  
Something  
About It  
Today

## CHAIRMAN'S MESSAGE



Established in 2002, the SingHealth Foundation is a not-for-profit, grant-making organisation specially formed in support of four core focus areas: the Singapore Cord Blood Bank, Understanding Patient Care, Research and Education or “CURE”. At the Foundation, we have only one purpose and that is to improve the quality of healthcare for Singapore’s future generations.

To safeguard public trust, the Foundation strives to uphold the highest standards of corporate governance. Our practices are aligned with the Charities Act and the Charities Regulations 2007. Conferred Institution of Public Character (IPC) status under the Ministry of Health, we abide by the Ministry’s Health Endowment Fund Minimum Operating Rules as well as recommendations by the Council of Governance of IPC with respect to governance, grant administration and fundraising activities. In this financial year, all three audits conducted showed us to be in compliance with these rules and regulations.

I wish to extend my heartfelt appreciation to the Foundation’s partners and philanthropists for their significant contributions and support. With their strong support, the Foundation received \$47 million in contributed funds in the financial year ending March 2006. These funds have been allocated to 21 main programmes in addition to 41 ongoing programmes which were approved in the previous 2 financial years. Funded programmes encompass a wide range of disciplines from medical, healthcare, research, administrative to business, to support the continuing professional development of SingHealth cluster talent.

Having closed 2006 on a high note, I am confident that with the continued partnership and philanthropic support of industry partners, foundations, institutions and like-minded individuals, we can continue to bridge the gap between patient needs and healthcare provision to benefit our community.

The Foundation’s performance in 2006 was driven by the commitment of the Board of Trustees, management and staff. I wish to express my thanks to the Board of Trustees for their wise counsel and guidance. On behalf of SingHealth Foundation, special thanks go to Dr Della Suantio Lee, who has stepped down from the Board for her invaluable contributions. I would also like to take this opportunity to welcome Dr Jennifer Lee and Dr Mary Ann Tsao to the Board. Their wealth of experience in the healthcare industry will be of immense value as SingHealth Foundation continues to deliver on its mission of supporting critical healthcare programmes that make lives better for Singaporeans.

**Prof Tan Ser Kiat**  
*Chairman, SingHealth Foundation*

## STRUCTURE, MANAGEMENT AND GOVERNANCE

The SingHealth Foundation is the philanthropic arm of Singapore Health Services Pte Ltd. It was established in 2002 as a non-profit grant-making organisation.

The Foundation is an Institution of Public Character (IPC) under the Ministry of Health (MOH). It abides by the MOH's Health Endowment Fund Operating Rules as well as by the recommendations of the Council of Governance of IPC.

### Board of Trustees

The Foundation is governed by a board of trustees comprising talented and respected individuals from the medical and healthcare sector and from the community with strong ties to business and philanthropic organisations. They possess extensive knowledge and strong corporate stewardship and are passionate about strengthening the future of healthcare provision in Singapore.

- Professor Tan Ser Kiat
- Dr Jennifer Lee
- Dr Lee Suan Yew
- Ms Priscylla Shaw
- Dr Mary Ann Tsao
- Ms Jeanette Wong
- Mr Lucien Wong
- Mrs Ruth Wong
- Mrs Karen Koh
- Mr Sia Kheng Hong

### Governance

The Board of Trustees and Management of the Foundation are committed to maintain high standards of governance based on Income Tax (Approved Institutions of a Public Character) Regulations, Income Tax (Central Fund Administrator) Regulations and Guide to Best Practices for IPCs.

The Foundation believes that its governance practices are in line with the principles of the regulations. New governance practices are implemented on a timely basis throughout the financial year.

### Responsibilities of the Board of Trustees

The Board of Trustees oversees and approves the formulation of the Foundation's strategic objectives and directions, and sets the values and standards of the Foundation. The Board of Trustees also reviews the Foundation's activities, adequacy of internal controls, financial reporting and compliance, as well as management performance.

### Conflicts of Interest

The Foundation has established a Conflicts of Interest policy to assist the Board of Trustees, employees, consultants, vendors, volunteers and major donors of the Foundation to identify and manage situations that present potential conflict of interests. When a potential conflict of interest arises, the person concerned does not participate in discussions and refrains from exercising any influence over the matter. The matter will be presented to the Board of Trustees for the final decision.

### Management

The Director, who is appointed by the Board of Trustees, is delegated with the responsibilities of management and administration aspects of the Foundation. The director is also responsible for implementing policies and directions laid down by the Board of Trustees.

The Director volunteers his service to the Foundation.

- Dr Kwa Chong Teck

# HOPE

in every life

## Cord Blood Bank

Stem cells found in the umbilical cord blood carry the potential to cure blood-related diseases. A ready supply is stored and managed by the Singapore Cord Blood Bank.



## The Singapore Cord Blood Bank (SCBB), the country's repository of stem cell rich umbilical cord blood, serves as a national resource to Singaporeans in need of stem cell transplantations.

Officially launched in September 2005, the country's first public cord blood bank has facilitated its first transplant and saved a life. A paediatric patient suffering from severe combined immunodeficiency - SCID (commonly known as "bubble boy disease") was successfully treated via a stem cell transplant from cord blood banked at the SCBB. At five months old, the child was diagnosed with this potentially fatal condition where the body was unable to fight infections. The child has since been discharged and is home having celebrated his first year post-transplant anniversary.

This child is not alone. Every year, more than 200 Singaporeans are diagnosed with critical blood-related cancers such as leukaemia, lymphoma, and other immune-related diseases such as thalassaemia and severe aplastic anaemia. Today, stem cell transplantation brings them new hope. Blood found in the umbilical cord of a newborn baby is a rich source of stem cells that can transform into other forms of essential blood cell types, thus offering a cure for a number of life-threatening diseases.

Although stem cells can also be derived from bone marrow or peripheral blood, obtaining cord blood stem cells is painless, non-invasive, and risk free. After the safe delivery of a baby, and after the baby's umbilical cord is cut and clamped, blood is drawn from the vein in the umbilical cord. This procedure involves no risk to the mother and baby. However, as amazing as cord blood may be in saving lives, its scarcity prevents many from benefiting

from it. Today, 80% of Asians worldwide are still unable to find a match because of their unique ethnic-genotypes.

With Singapore's multi-ethnic profile, the SCBB is the only public cord blood bank in the region and around the world to provide Asian patients with an improved chance of finding a suitable life-saving match. The SCBB has banked almost 2,000 high quality life-saving cord blood units and aims to add another 1,700-2,000 cord blood units in 2007. The ultimate target is to have more than 10,000 units in its registry, which will give Singaporeans a 60 per cent chance of finding a suitable match.

With the recent boost in collection centres in 2006, mothers giving birth in Singapore can now donate their unborn child's umbilical cord at all obstetric hospitals in Singapore. Hospitals participating in the programme are East Shore Hospital, Gleneagles Hospital, KK Women's and Children's Hospital, Mount Alvernia Hospital, Mount Elizabeth Hospital, National University Hospital, Raffles Hospital, Singapore General Hospital and Thomson Medical Centre. This provides all expectant mothers the opportunity to donate their cord blood units to the SCBB.



# SONG

for every age

## Understanding Patient Care

Healthcare today extends to helping the patients best manage and live with their condition, financially and emotionally. In this way, the patients can continue living meaningful and normal lives.

## SingHealth Foundation seeks to identify and support programmes that fill service gaps to improve the patient's prognosis and quality of life.

A cross-disciplinary programme, Network for Antimicrobial Resistance Surveillance Singapore (NARSS), has been set up to address the emerging worldwide problem of increasing antimicrobial resistance. As antimicrobial resistance can lead to greater mortality and higher health costs if left unchecked, it is imperative to contain the problem. Notably, the rate of occurrence of Gram-negative bacilli in Singapore is among the highest in the developed world. The programme in place will help establish antibiotic resistance rates in the key hospital bacterial pathogens, track resistance trends over time periods, detect early and emerging resistance mechanisms and facilitate inter-institutional cooperation and communication.

Funding for the Robotic Assisted Minimally Invasive Cardiothoracic Surgery Programme at the National Heart Centre(NHC) serves to benefit patients by shortening their recovery time and eliminating other side effects of traditional heart surgery including blood loss, pain and scarring. NHC has since performed 2 cases of robotic assisted open-heart surgery and one case of robotic thymectomy.

With the Singapore General Hospital (SGH) Home Care programme, patients who can scarcely afford the post-hospitalisation necessary equipment, medical attention and therapy after incurring costly hospital treatments are assured of financial and medical assistance. Transition from hospital to home for these frail, elderly and needy patients is made less difficult as they continue their rehabilitation at home.

Playing a crucial role in healing is holistic healthcare. The Arts For Health programme at SGH inspires healing experiences by introducing patients to visual arts, musical concerts, or performances. Regular art workshops and weekly arts and crafts are held for patients and their caregivers as a form of self-expression to lift their spirits.

Music therapy has been made available at SGH Centre for Hearing and Ear Implants. The first in Southeast Asia, this programme is part of the holistic management of hearing-impaired children and adults. Headed by a qualified music therapist, this new service is based on studies which show that adding music to the rehabilitation process increases the uptake of new concepts and improves the child's motivation to learn. The programme uses music activities to address physical, psychological, cognitive and social needs.



# DAWN

with every quest

## Research

Behind every medical discovery, there is an extensive amount of time and research invested. The Foundation believes in and supports these research efforts.

## Innovations in the field of medical research encompass more than just discovering new cures for the diseases of today; they comprise advancements in the fields of science and technology.

The Foundation is committed to support research efforts that will translate discoveries into potential healthcare applications to improve lives.

A case in point is Dr Alvin Yeo's research on an alternative material for bone-grafting procedure of the jaw in preparation for dental implant installation. Currently, bones are harvested from the patient's own body and this will involve surgery. The alternative material being researched, using biomaterials, aims to substitute the harvested bones completely, hence eliminating the need for additional surgery. If successful, up to 15% of patients requiring dental implants will stand to benefit from Dr Yeo's research.

A team of scientists from Singapore Eye Research Institute (SERI) led by Associate Professor Aung Tin and geneticist Dr Eranga Vithana discovered a new eye disease gene, SLC4A11, that causes blindness in children. Mutations in this identified gene cause congenital hereditary endothelial dystrophy (CHED). Discovery of this gene significantly impacts on the identification and treatment of CHED, and can facilitate gene replacement therapy in the most accessible part of the eye.

Dr Marcus Ong and his team at SGH Emergency Department are conducting a study, the largest clinical series ever conducted, to examine the correlation between the heart rate variability and the clinical outcomes in emergency department patients. Decreased heart rate variability is found to be a predictor of increased mortality in the elderly, coronary artery disease, congestive heart failure, post myocardial infarction and heart muscle disorder. It has been found in intensive care unit patients (ICU) following trauma, sepsis and septic shock and it has also been used as a marker of severity in the emergency department patients with sepsis. This research holds the potential to help develop a new generation of non-invasive bedside devices that may become useful to clinicians of all disciplines.



# JOY

in every step

## Education

The upgrade and update of skills is especially important for healthcare professionals. The Foundation provides these people with the means to pursue their lifelong learning quest.

People are our most precious resource. Developing healthcare staff to their fullest potential ensures Singapore remains at the forefront of medicine and patients receive optimal care. This lifelong investment is vital to meet the diverse needs of healthcare in Singapore.

SingHealth Foundation co-funds the Health Manpower Development Programme (HMDP) with the Ministry of Health. 105 awardees benefited from HMDP in FY2006. Recipients acquire new skills and knowledge from some of the best training centres overseas and share with their colleagues in the cluster.

The Talent Development Fund was set up to build executive, strategic and professional capabilities and support learning and research initiatives. 177 of such programmes were initiated across the SingHealth cluster. Included in this list of initiatives is the Nursing Development Programme where the profile of the nursing profession was raised by attaining the American Nurse Credentialing Centre accreditation. 12 Bachelor and 9 Masters in Nursing scholarships were awarded to outstanding nurses to pursue higher learning.

The SingHealth Nursing Conference 2006 saw some 400 nurses from Singapore, Brunei, Thailand, Philippines and Sri Lanka sharing and exchanging knowledge and experiences. 5,000 copies of Pharmacological Guidebook were printed and distributed at the conference. The nurses found the comprehensive guidebook useful in daily medication administration.

FY 2006 saw paediatric care taking a leap. The Paediatric Resuscitation Simulation Training Centre (PSTC) was set up in KK Women's and Children's Hospital as a specialised training centre for the resuscitation, stabilisation and treatment of critically ill babies and children. Simulating the actual working environment, the facility houses Singapore's first paediatric and infant advanced simulation mannequins, along with simulation labs, mock-up care area, operating rooms and resuscitation area of the emergency department. Since its operations in November 2006, the centre has trained an estimated 500 healthcare workers.

400 delegates participated in the National Dental Centre's 10th Anniversary Annual Scientific Meeting. Topics on the various development of dentistry in the last decade were covered. The topics for workshops ranged from state-of-the-art microsurgery in endodontics, to twin blocks in orthodontics, and management of medical emergencies in dental practice.

## HIGHLIGHTS



### Taking Cardiovascular Medicine Research To The Next Level with RDU@SON

The National Heart Centre's RDU@SON (Research & Development Unit at School of Nursing) has been specially designed to be a vibrant interacting centre for scientists, clinicians, engineers and technologists to expedite research in cardiovascular medicine. It has been modelled into a creative centre for innovative integration of biology and technology.

### A Simulation Training Centre for Paediatric Care

With SingHealth Foundation's support, a Paediatric Resuscitation Simulation Training Centre (PSTC) has been set up in KK Women's and Children's Hospital where health professionals will be trained in the area of resuscitation, stabilisation and treatment of critically ill babies and children. To simulate the actual working environment as closely as possible, the facility comes with Singapore's first paediatric and infant advanced simulation mannequins, along with two simulation labs, mock-up care area, operating rooms and resuscitation area of the emergency department.



**HIGHLIGHTS**

**Teeing Off To Save Lives**

\$620,000 was raised on 18 August 2006 during the Singapore Chinese Chamber Of Commerce and Industry (SCCCI) Charity Golf event, graced by Guest-Of-Honour, Mr Wong Kan Seng, Deputy Prime Minister and Minister for Home Affairs.

Other distinguished guests included Dr Lee Boon Yang, Minister for Information, Communications and the Arts; Mr Lim Swee Say, Minister for Prime Minister's Office; and Dr Ng Eng Hen, Minister for Manpower & Second Minister for Defence.



**Dove Self-Esteem Fund supports Eating Disorder Awareness Programme at SGH**

Committed to improving the self-esteem of girls and young women, Dove launched the Dove Self-Esteem Fund. Managed and administered by SingHealth Foundation, the fund will go towards the setting up of a resource library on eating disorders at Singapore General Hospital and preventive programmes like BodyTalk – an educational workshop for schools designed to help young people understand and deal with feelings about physical appearance, in particular weight and shape.

## HIGHLIGHTS

### Medical Students Making Their Rounds at Raffles Place

Dressed in medical scrubs, students from Singapore Medical Society of London took to the Raffles Place area for two days, entertaining the public while doing their bit of charity for SingHealth Foundation.



## HIGHLIGHTS

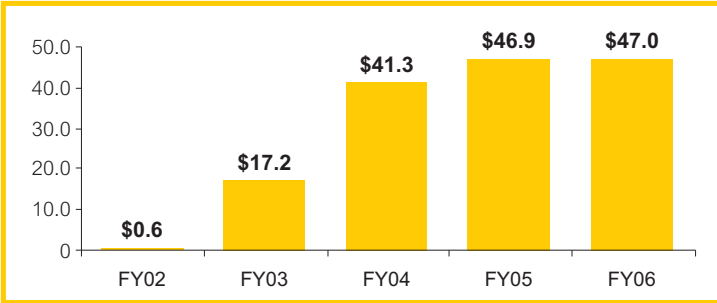


### Music To The Ears

Singapore General Hospital became the first acute hospital in South East Asia to have a music therapy programme for the hearing impaired at its centre for Hearing and Ear Implants. Conducted by a qualified music therapist, this programme under Arts for Health is part of the holistic management of hearing-impaired children and adults.

## FINANCIAL HIGHLIGHTS

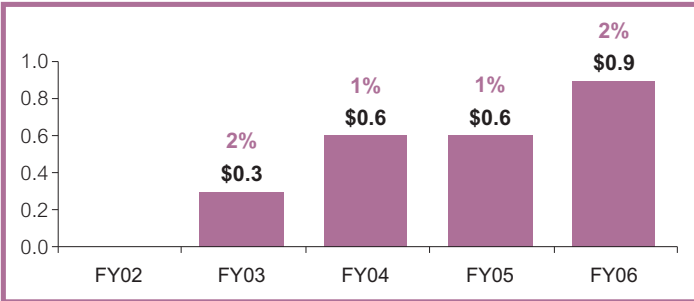
### Income Trend (millions)



In Fiscal Year 2006, the Foundation received a total income of \$47 million.

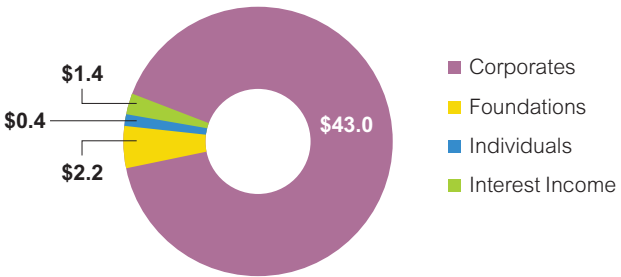
### Expenditure Trend (millions)

(% = percentage of total income)

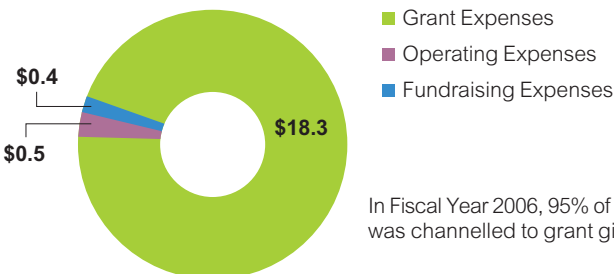


The Foundation's expenditure represents administrative, fund raising and governance expenses. **Donations from Singapore Health Services Pte Ltd have been sufficient to cover administrative and operating costs incurred by the Foundation.**

### FY2006 Income Source (millions)



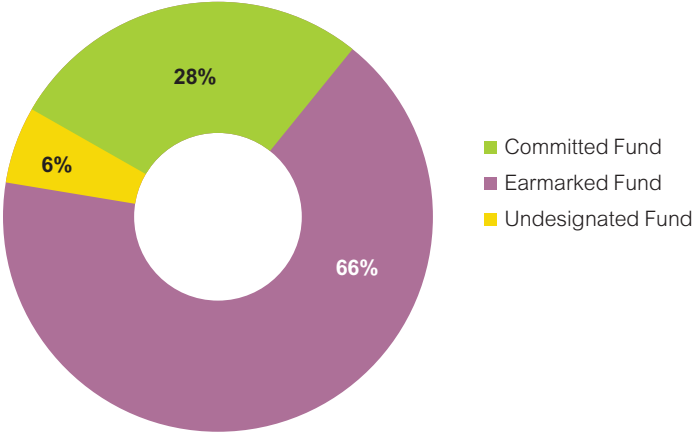
### FY2006 Uses of Fund (millions)



In Fiscal Year 2006, 95% of the total expenditure was channelled to grant giving.

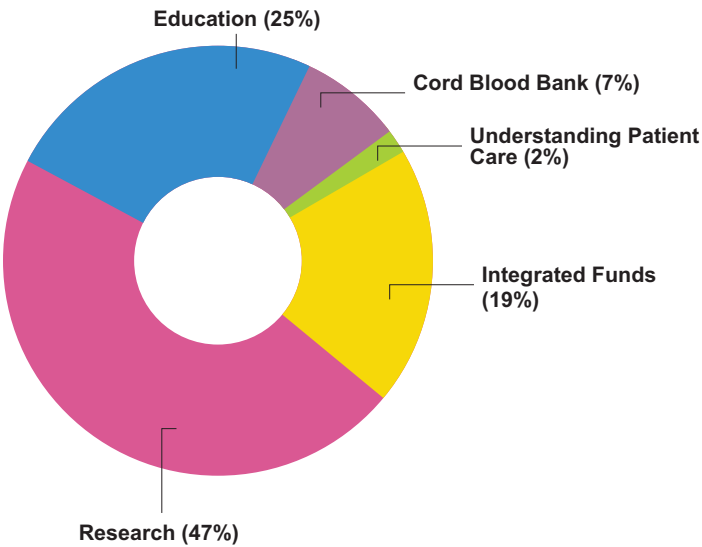
**FINANCIAL HIGHLIGHTS**

**FY2006 Accumulated Fund (\$117.1 millions)**



1. Undesignated Funds are used for operating and future grant commitment.
2. As of Fiscal Year 2006, Undesignated Fund/Operating Expenditure ratio is 7.
3. Donor-designated funds and multi-year commitment:
  - 28% of accumulated funds are committed to approved grants for disbursement for FY07-FY09
  - 66% of accumulated funds are designated by donors for specific causes
  - 6% of accumulated funds are discretionary funds for next financial year

**FY2006 Funding Allocation (\$14.7million)**



## INDEPENDENT AUDITORS' REPORT

We have audited the Statements of Account of SingHealth Foundation (the Fund), which comprise the statement of affairs as at 31 March 2007, the income and expenditure account and cash flow statement for the year then ended, and a summary of significant accounting policies and other explanatory notes, as set out on pages 20 to 31.

### *Board of Trustees' responsibility for the Statements of Account*

The Board of Trustees is responsible for the preparation and fair presentation of these Statements of Account in accordance with the provisions of the Operating Rules and Best Practices of the Health Endowment Fund Scheme issued by the Ministry of Health in July 2005, Income Tax (Approved Institution of a Public Character) Regulations 2004 and Income Tax (Central Fund Administrators) Regulations 2004 and their subsequent amendments in 2005 and 2006 to the said Income Tax Regulations (collectively known as the Rules), the Charities Act, Chapter 37 and Singapore Financial Reporting Standards. This responsibility includes: designing, implementing and maintaining internal control relevant to the preparation and fair presentation of Statements of Account that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

### *Auditors' responsibility*

Our responsibility is to express an opinion on these Statements of Account based on our audit. We conducted our audit in accordance with Singapore Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the Statements of Account are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Statements of Account. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Statements of Account, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the Statements of Account in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the trustees, as well as evaluating the overall presentation of the Statements of Account.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### *Opinion*

In our opinion:

- (a) the Statements of Account of the Fund are properly drawn up in accordance with the provisions of the Charities Act, Chapter 37 and Singapore Financial Reporting Standards to present fairly, in all material respects, the state of affairs of the Fund as at 31 March 2007 and income and expenditure account and cash flows of the Fund for the year ended on that date; and

## **STATEMENT OF AFFAIRS**

as at 31 March 2007

(b) nothing has come to our attention to cause us to believe that:

- (i) the funds were not used in accordance with the objects of the Fund;
- (ii) the issue of tax-exempt receipts were not accounted for; and
- (iii) the Board of Trustees has not, in all material aspects, complied with the conditions applicable to the Fund under the Rules.



**KPMG**

*Certified Public Accountants*

**Singapore**

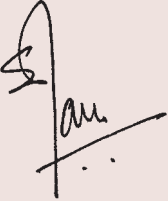
*17 October 2007*

## STATEMENT OF AFFAIRS

as at 31 March 2007

	NOTE	2007 \$	2006 \$
<b>Non-current asset</b>			
Property, plant and equipment	3	<u>7,838</u>	<u>9,033</u>
<b>Current assets</b>			
Other receivables	4	7,114,575	483,723
Donations receivable	5	55,687,461	57,916,561
Cash and cash equivalents	6	<u>55,693,908</u>	<u>34,716,725</u>
		<u>118,495,944</u>	<u>93,117,009</u>
<b>Total assets</b>		<u>118,503,782</u>	<u>93,126,042</u>
<b>Accumulated fund</b>			
	8	<u>117,154,758</u>	<u>89,306,312</u>
<b>Current liabilities</b>			
Trade and other payables	7	<u>1,349,024</u>	<u>3,819,730</u>
<b>Total liabilities</b>		<u>1,349,024</u>	<u>3,819,730</u>
<b>Total fund and liabilities</b>		<u>118,503,782</u>	<u>93,126,042</u>

The Statements of Account were approved by:



**Prof Tan Ser Kiat**  
Chairman



**Sia Kheng Hong**  
Honorary Treasurer

17 October 2007

The accompanying notes form an integral part of these statements of account.

## INCOME AND EXPENDITURE ACCOUNT

year ended 31 March 2007

	NOTE	2007 \$	2006 \$
<b>Income</b>			
Donation income	9	45,647,494	46,485,941
Interest income		1,399,563	403,102
Sponsorships	10	5,642	-
		<hr/>	<hr/>
		47,052,699	46,889,043
<b>Expenditure</b>			
Grant expenses		18,289,182	7,665,128
Fund raising expenses	10	361,770	324,995
Other operating expenses		553,301	317,147
		<hr/>	<hr/>
		19,204,253	8,307,270
<b>Surplus for the year</b>			
	11	27,848,446	38,581,773
<b>Accumulated fund brought forward</b>		<hr/>	<hr/>
		89,306,312	50,724,539
<b>Accumulated fund carried forward</b>		<hr/>	<hr/>
		117,154,758	89,306,312

*A separate statement of recognised surplus has not been prepared as the surplus for the year would be the only component of this statement.*

*The accompanying notes form an integral part of these statements of account.*

## CASH FLOWS STATEMENT

year ended 31 March 2007

	NOTE	2007 \$	2006 \$
<b>Operating activities</b>			
Surplus for the year		27,848,446	38,581,773
Adjustments for:			
Interest income		(1,399,563)	(403,102)
Depreciation of property, plant and equipment		5,901	4,948
<b>Operating surplus before working capital changes</b>		<u>26,454,784</u>	<u>38,183,619</u>
Changes in working capital:			
Donations receivable		2,229,100	(20,941,184)
Other receivables		(6,499,739)	(471,866)
Trade and other payables		(2,470,706)	68,829
<b>Cash flows from operating activities</b>		<u>19,713,439</u>	<u>16,839,398</u>
<b>Investing activities</b>			
Interest received		1,268,450	416,341
Purchase of property, plant and equipment		(4,706)	(4,480)
<b>Cash flows from investing activities</b>		<u>1,263,744</u>	<u>411,861</u>
<b>Net increase in cash and cash equivalents</b>		20,977,183	17,251,259
Cash and cash equivalents at beginning of the year		34,716,725	17,465,466
<b>Cash and cash equivalents at end of the year</b>	6	<u>55,693,908</u>	<u>34,716,725</u>

The accompanying notes form an integral part of these statements of account.

## NOTES TO THE STATEMENTS OF ACCOUNT

*These notes form an integral part of the Statements of Account.*

*The Statements of Account were authorised for issue by the Board of Trustees on 17 October 2007.*

### 1 Domicile and activities

The SingHealth Foundation was registered on 25 June 2002 to receive donations for and provide grants to health related programmes and services including medical, nursing, administration and health-care related education and training; biomedical research and development; programmes to improve patient-care services; and other healthcare related programmes and services.

The Fund is a registered member of the Ministry of Health's Health Endowment Fund ("MOH HEF") under its Decentralised Special Account Scheme. The MOH HEF is approved as an institution of a public character in accordance with Section 37(9) of the Income Tax Act. The Fund has been granted tax exempt status for a period of 3 years from 25 June 2005 to 24 June 2008.

The Fund is registered as a Charity under the Charities Act, Chapter 37 since its registration.

On 1 April 2006, the Fund changed its name from SingHealth Endowment Fund to SingHealth Foundation.

### 2 Summary of significant accounting policies

#### 2.1 Basis of preparation

The Statements of Account have been prepared in accordance with Singapore Financial Reporting Standards (FRS).

The Statements of Account are presented in Singapore dollars which is the Fund's functional currency. All financial information is presented in Singapore dollars unless otherwise stated.

The preparation of Statements of Account requires management to make judgements, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised and in any future periods affected.

The accounting policies set out below have been applied consistently to all periods presented in the Statements of Account.

#### 2.2 Foreign currencies

Transactions in foreign currencies are translated to the functional currency of the Fund at the exchange rate at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies at the reporting date are retranslated to the functional currency at the exchange rate at the reporting date. Non-monetary assets and liabilities denominated in foreign currencies that are measured at fair value are retranslated to the functional currency at the exchange rate at the date on which the fair value was determined.

Foreign currency differences arising on retranslation are recognised in the income and expenditure account.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 2.3 Property, plant and equipment

Property, plant and equipment are stated at cost less accumulated depreciation and impairment losses.

Low value assets costing less than \$1,000 individually are written off in the period of outlay.

Depreciation is recognised in the income and expenditure account on a straight-line basis over their estimated useful lives (or lease terms if shorter) of each part of an item of property, plant and equipment as follows:

Computer equipment      3 years

Depreciation methods, useful lives and residual values are reviewed, and adjusted as appropriate, at each reporting date.

### 2.4 Financial instruments

#### *Non-derivative financial instruments*

Non-derivative financial instruments comprise trade and other receivables, cash and cash equivalents, and trade and other payables.

Non-derivative financial instruments are recognised initially at fair value plus, for instruments not at fair value through profit or loss, any directly attributable transaction costs, except as described below. Subsequent to initial recognition, non-derivative financial instruments are measured at amortised cost using the effective interest method, less any impairment losses.

A financial instrument is recognised if the Fund becomes a party to the contractual provisions of the instrument. Financial assets are derecognised if the Fund's contractual rights to the cash flows from the financial assets expire or if the Fund transfers the financial asset to another party without retaining control or transfers substantially all the risks and rewards of the asset. Regular way purchases and sales of financial assets are accounted for at trade date, i.e., the date that the Fund commits itself to purchase or sell the asset. Financial liabilities are derecognised if the Fund's obligations specified in the contract expire or are discharged or cancelled.

Cash and cash equivalents comprise cash balances and bank deposits. Bank overdrafts that are repayable on demand and that form an integral part of the Fund's cash management are included as a component of cash and cash equivalents for the purpose of the cash flow statement.

#### *Impairment of financial assets*

A financial asset is considered to be impaired if objective evidence indicates that one or more events have had a negative effect on the estimated future cash flows of that asset.

An impairment loss in respect of a financial asset measured at amortised cost is calculated as the difference between its carrying amount, and the present value of the estimated future cash flows discounted at the original effective interest rate.

Individually significant financial assets are tested for impairment on an individual basis. The remaining financial assets are assessed collectively in groups that share similar credit risk characteristics.

## NOTES TO THE STATEMENTS OF ACCOUNT

All impairment losses are recognised in the income and expenditure account.

An impairment loss is reversed if the reversal can be related objectively to an event occurring after the impairment loss was recognised. For financial assets measured at amortised cost, the reversal is recognised in the income and expenditure account.

### 2.5 Impairment – non-financial assets

The carrying amounts of the Fund's non-financial assets are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, the assets' recoverable amounts are estimated.

An impairment loss is recognised if the carrying amount of an asset or its cash-generating unit exceeds its recoverable amount. A cash-generating unit is the smallest identifiable asset group that generates cash flows that largely are independent from other assets and groups. Impairment losses are recognised in the income and expenditure account.

The recoverable amount of an asset or cash-generating unit is the greater of its value in use and its fair value less costs to sell. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset or cash-generating unit.

Impairment losses recognised in prior periods are assessed at each reporting date for any indications that the loss has decreased or no longer exists. An impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortisation, if no impairment loss had been recognised.

### 2.6 Income recognition

#### *Donation income*

Donations are recognised as income in the accounting period in which they are received or receivable.

#### *Interest income*

Interest income from fixed deposits is accrued on a time-apportioned basis on the principal outstanding and at the rate applicable.

### 2.7 Grant expense

Grant expense is recognised as it is incurred in the accounting period. Statement of claims is usually submitted on a quarterly or semi-annual basis.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 2.8 Income tax expense

Income tax expense comprises current and deferred tax. Income tax expense is recognised in the income and expenditure account except to the extent that it relates to items recognised directly in equity, in which case it is recognised in equity.

Current tax is the expected tax payable on the taxable income for the year, using tax rates enacted or substantively enacted at the reporting date, and any adjustment to tax payable in respect of previous years.

Deferred tax is recognised using the balance sheet method, providing for temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. Deferred tax is not recognised for the temporary differences arising from the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit. Deferred tax is measured at the tax rates that are expected to be applied to the temporary differences when they reverse, based on the laws that have been enacted or substantively enacted by the reporting date.

A deferred tax asset is recognised to the extent that it is probable that future taxable profits will be available against which temporary differences can be utilised. Deferred tax assets are reviewed at each reporting date and are reduced to the extent that it is no longer probable that the related tax benefit will be realised.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 3 Property, plant and equipment

COST	COMPUTER EQUIPMENT \$
At 1 April 2005	11,906
Additions	4,480
At 31 March 2006	<u>16,386</u>
Additions	4,706
At 31 March 2007	<u>21,092</u>
<b>Accumulated depreciation</b>	
At 1 April 2005	2,405
Depreciation charge for the year	4,948
At 31 March 2006	<u>7,353</u>
Depreciation charge for the year	5,901
At 31 March 2007	<u>13,254</u>
<b>Carrying amount</b>	
At 1 April 2005	<u>9,501</u>
At 31 March 2006	<u>9,033</u>
At 31 March 2007	<u>7,838</u>

### 4 Other receivables

	2007 \$	2006 \$
Grants made in advance	6,975,064	-
Amount due from Singapore General Hospital Pte Ltd	-	476,130
Interest receivable	136,706	5,593
Others	2,805	2,000
	<u>7,114,575</u>	<u>483,723</u>

Grants made in advance is the balance of grant advances made less the actual grant expenses claimed and paid during the year.

### 5 Donations receivable

Donations receivable relates to donations pledged by the Singapore Health Services Pte Ltd and its subsidiaries.

The donations receivable includes Talent Development Fund donation of \$16,210,392 (2006: \$34,926,614) and donation earmarked for specific Research and Education programmes of \$39,477,069 (2006: \$22,989,947).

## NOTES TO THE STATEMENTS OF ACCOUNT

### 6 Cash and cash equivalents

	2007 \$	2006 \$
Cash at bank	12,678,139	3,616,725
Fixed deposits with financial institutions	43,015,769	31,100,000
	<u>55,693,908</u>	<u>34,716,725</u>

The effective interest rates per annum at the date of the statement of affairs are as follows:

	2007 %	2006 %
Fixed deposits	<u>3.27</u>	<u>2.39</u>

Interest rates reprice at intervals of one to three months.

### 7 Trade and other payables

	2007 \$	2006 \$
Trade payables	23,144	2,090
Accrued operating expenses	240,819	88,386
Grant payables	1,085,061	3,729,254
	<u>1,349,024</u>	<u>3,819,730</u>

### 8 Accumulated fund

	2007 \$	2006 \$
<b>Accumulated fund:</b>		
Restricted	110,411,991	84,100,234
Unrestricted	6,742,767	5,206,078
	<u>117,154,758</u>	<u>89,306,312</u>

Restricted funds are funds that can only be applied for particular purposes within the Fund's objects. It includes multi-year funding commitment relating to grant awards for 2007-2009 amounting to \$32,320,354 (2006: \$40,032,572) and earmarked fund amounting to \$78,091,637 (2006: \$44,067,662).

### 9 Donation income

	2007 \$	2006 \$
Tax deductible donations	45,105,038	35,137,425
Funds transferred	-	11,127,676
Other donations	542,456	220,840
	<u>45,647,494</u>	<u>46,485,941</u>

In the previous financial year, the Ministry of Health approved the transfer of various Health Endowment Funds to SingHealth Foundation. These amounts were recognised as donation income.

The tax deductible donations include donation income recognised but not yet received for the year. These donations are tax deductible in nature.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 10 Annual donations and fund raising expenses

	2007 \$	2006 \$
Donations in cash from individuals	425,266	230,795
Donations received/receivable from corporations, institutions and foundations	45,222,228	46,255,146
Sponsorships	5,642	-
<b>Total donations</b>	<b>45,653,136</b>	<b>46,485,941</b>
Direct fund raising expenses	46,886	53,094
Sponsorships	5,642	-
Indirect costs	309,242	271,901
<b>Total fund raising expenditure</b>	<b>361,770</b>	<b>324,995</b>
Fund raising efficiency ratio:		
- before sponsorships	1%	1%
- with sponsorships	1%	1%

#### *Sponsorship income and fund raising expenses*

As part of the Fund's fund raising activities, the Fund receives donated items from the public. Such sponsorship income is recognised in the income and expenditure based on the fair value of the donated items received. A corresponding amount is also recognised as a fund raising expenditure. The value of donated items received in the previous financial year was not ascertained and therefore not included as sponsorship income and fund raising expenses in the previous financial year. The Board of Trustees believes that the value of such donated items received in the previous financial year is not significant to the income and expenditure of the Fund.

### 11 Surplus for the year

The following items have been included in arriving at surplus for the year:

	2007 \$	2006 \$
Operating lease expense	51,652	13,945
Staff costs	433,994	300,054
Contributions to defined contribution plans included in staff costs	39,076	34,387
Depreciation expense	5,901	4,948

### 12 Income tax expense

As at 31 March 2007, the Fund has not complied with the conditions of Section 13(M)(2)(b) of the Income Tax Act, Chapter 134, for year of assessment 2007. The total shortfall of expenditure amounted to \$48,907,538. No tax charge has been recognised as the Board of Trustees is of the opinion that the Comptroller will allow for an extension of the application period.

There is no tax charge for the current year as the Fund is a registered charity with income tax exemption with effect from year of assessment 2008.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 13 Financial instruments

Risk management is integral to the whole operation of the Fund. The Fund has a system of controls in place to create an acceptable balance between the cost of risks occurring and the cost of managing the risks. The Board of Trustees continually monitors the Fund's risk management process to ensure that an appropriate balance between risk and control is achieved.

#### *Credit risk*

At the date of the statement of affairs, the Fund's credit risk is concentrated in donations receivable but no significant credit risk exposure is expected to arise. Cash is placed with banks which are regulated. The maximum exposure to credit risk is represented by the carrying amount of each financial asset in the statement of affairs.

#### *Liquidity risk*

The Board of Trustees monitors the liquidity risk and maintains a level of cash and cash equivalents deemed adequate by the Board of Trustees to finance the Fund's operations and to mitigate the effects of fluctuation in cash flows.

#### *Interest rate risk*

The Fund's exposure to market risk for changes in interest rates relates primarily to fixed deposits with financial institutions. The Fund manages its interest rate risk by placing such balances on varying maturities and interest rate terms.

#### *Foreign currency risk*

The financial assets and financial liabilities of the Fund are denominated in Singapore dollars. The Fund has no exposure to foreign currency risk.

#### *Fair values*

The notional amounts of financial assets and liabilities with a maturity of less than one year (including donations receivable, cash and cash equivalents, and trade and other payables) are assumed to approximate their fair values.

### 14 Commitments

The Fund extends multi-year funding commitments relating to grant awards for 2007-2009 which was contracted but not provided for amounting to \$32,320,354 (2006:\$40,032,572).

### 15 Key management personnel compensation

Key management personnel of the Fund are those persons having the authority and responsibility for planning, directing and controlling the activities of the Fund. The Board of Trustees is considered as key management personnel of the Fund. The Board of Trustees did not receive any form of remuneration during the financial year.

## NOTES TO THE STATEMENTS OF ACCOUNT

### 16 Related parties

#### Other related party transactions

Other than disclosed elsewhere in the statements of account, the transactions with related parties are as follows:

	2007 \$	2006 \$
<b>Related Corporations</b>		
Donation income received/receivable	(41,576,539)	(31,665,352)
Funds transferred	-	(11,127,676)
Grant expense paid/payable	18,289,182	7,665,128
Purchase of manpower services	433,994	300,054
Purchase of other services	19,134	31,273
Rental and maintenance expenses	51,652	13,945

### 17 New accounting standards and interpretations not yet adopted

The Fund has not applied the following accounting standards and interpretations that have been issued as of the date of statement of affairs but are not yet effective:

- FRS 40 *Investment Property*
- FRS 107 *Financial Instruments: Disclosures* and the Amendment to FRS 1 *Presentation of Financial Statements: Capital Disclosures*
- FRS 108 *Operating Segments*
- INT FRS 107 *Applying the Restatement Approach under FRS 29 Financial Reporting in Hyperinflationary Economies*
- INT FRS 108 *Scope of FRS 102 Share-based Payment*
- INT FRS 109 *Reassessment of Embedded Derivatives*
- INT FRS 110 *Interim Financial Reporting and Impairment*
- INT FRS 111 *FRS 102 Group and Treasury Share Transactions*
- INT FRS 112 *Service Concession Arrangements*
- Amendments to FRS 2 *Inventories*
- Amendments to FRS 7 *Cash Flow Statements*
- Amendments to FRS 19 *Employees Benefits*
- Amendments to FRS 27 *Consolidated and Separate Financial Statements*
- Amendments to FRS 33 *Earnings Per Share*
- Amendments to FRS 34 *Interim Financial Reporting*
- Amendments to FRS 36 *Impairment of Assets*
- Amendments to FRS 105 *Non-current Assets Held for Sale and Discontinued Operations*
- Amendments to FRS 106 *Exploration for and Evaluation of Mineral Resources*
- Amendments to INT FRS 29 *Service Concession Arrangements: Disclosures*
- Amendments to INT FRS 104 *Determining whether an Arrangement contains a Lease*

The initial application of these standards and interpretations are not expected to have any material impact on the Fund's financial statements. The Board of Trustees has not considered the impact of accounting standards issued after the date of the statement of affairs.

## LIST OF PROJECTS APPROVED FOR FUNDING IN FY2006

### Cord Blood Bank ( \$1m )

The Singapore Cord Blood Bank (SCBB), Singapore's first public Cord Blood Bank officially opened in September 2005, has banked almost 2,000 units of umbilical cord blood. The ultimate target is to have more than 10,000 units in its registry which will give Singaporeans a 60% chance of finding a suitable match.

#### Project Description

- Singapore Cord Blood Bank

### Understanding Patient Care ( \$0.3m )

The Foundation seeks to support programmes that fill the gaps to meet the needs of our patients. We also support programmes that take healthcare service one-step further, directly into the lives of our patients and manage their healthcare holistically.

#### Project Description

- Establishment of A Hospital Acquired Infection Surveillance Programme for Hospitals in the SingHealth Group

### Research ( \$6.9m )

#### Cancer Research

Cancer accounts for approximately 30% of deaths in Singapore, making it the country's top killer disease. Cancer is not one disease. There are over 200 different types of cancer that arise in different parts of the body – each with different causes, different symptoms and requiring different treatments. Our advances in understanding cancer and discovering new ways to prevent, diagnose and treat the disease are helping to save more lives each year. The projects undertaken this year varied from the study of genes that cause cancer to genes that predict the response to treatment.

#### Project Description

- Functional and gene expression analysis of radiosensitive lymphoblastoid cell lines from patients with late radionecrosis
- To investigate the Effects of Radiofrequency Ablation on T Cell Responses from Renal Cell and Hepatocellular Carcinoma Patients
- Cancer Genetics and Biology
- Driving nonselective bystander effect of Fas Ligand towards Glioblastoma (GBM) and exploring the potential regulatory effect of Interleukin – 13 Receptor Alpha 2 (IL-13Ra2)
- To assess health-related quality of life (HRQoL), functional status and survival of high risk End-Stage Renal Disease (ESRD) patients on dialysis and ESRD patients on conservative management
- Mutation screening in hereditary mixed polyposis syndrome (HMPS) and sporadic colorectal carcinoma patients with mixed polyps and identification of new tumour suppressor in familial adenomatous polyposis (FAP) variant patients
- Clinical implications of MDM2 and p53: prediction of cancer susceptibility and prognosis
- Hepatocellular carcinoma validation studies

## LIST OF PROJECTS APPROVED FOR FUNDING IN FY2006

- Project Description*
- Cancer Research (cont'd)**
- Isolation and validation of peptide aptamers targeting antizyme inhibitor
  - Identification and characterisation of factors produced by human mesenchymal stem cells that influence glioma progression
  - The impact of hOCT1 (SLC22A1), ABCG2 and ABCB1 pharmacogenetics on pharmacokinetics and pharmacodynamics of imatinib in Asian chronic myeloid leukemia patients on imatinib therapy
  - Molecular mechanisms of isoniazid Mycobacterium tuberculosis isolated from Singapore
  - Human umbilical cord lining cells for hemophilia A treatment
  - Identification of gene expression profiles and molecular pathways that predict the progression of oral dysplasia to invasive cancer

- Project Description*
- Neuroscience Research**
- The researchers working in the field of neuroscience focus on both the biology and clinical aspects of diseases. Their research ranges from the development of the central nervous system to that of complex functions such as cognition and language. Important areas of research currently underway include identification of risk factors for Parkinson's disease and other movement disorders, treatment of Huntington disease and the therapeutic lead discovery for Alzheimer's Disease.
- Role of p38alpha MAPK in the CNS neuron survival, scar formation and axon regeneration
  - Therapeutic Lead Discovery for Alzheimer's Disease: A study of the interaction of b-amyloid peptides with neuronal nicotinic acetylcholine receptors and identification and characterisation of novel inhibitors of this interaction from animal venoms
  - Correctin of expanded CAG repeats in the Huntington transcript for the treatment of Huntington disease
  - Functional characterisation of Parkinson's disease-associated LRRK2 mutants and a risk variant unique to the Asian population
  - The significance of Heterozygous PINK1 mutations in Parkinson's Disease

- Cardiac Research**
- The overall goal of this multi-faceted research initiative is to find better, more effective ways of diagnosing and treating cardiac disorders. Areas of interest include the measurement of prehospital heart rate variability as a clinical predictor and cardiac reparation using 3-Dimensional composite tissue.
- A prospective non-randomised study – measurement of prehospital heart rate variability as a clinical predictor of hospital outcomes in acutely ill patients

## LIST OF PROJECTS APPROVED FOR FUNDING IN FY2006

### Cardiac Research (cont'd)

- Cardiac Reparation using 3-Dimensional composite tissue of Cardiomyocyte and Endothelial Cells for Cardiomyoplasty

### Project Description

#### Others

- Evaluation of PCL-TCP scaffolds as a novel guided bone regeneration technique for the reconstruction of localised dentoalveolar defects in a pig model
- Multidrug Efflux Pumps of Acinetobactor
- A novel automated partial body-weight support device to enhance the recovery of motor function and locomotion post-stroke
- Invitro pharmacodynamics elucidation of combinations of antimicrobial agents for mult-resistant gram-negative infections
- Lipid-suppressed <sup>1</sup>H MR spectroscopy and multi-shot diffusion weighted MR imaging: A research study of neck-to-toe application
- The role of micro RNAs in modulating gene expression by DNA demethylating agent
- Setting up of a Radiochemistry Research Laboratory in the Department of Nuclear Medicine & PET
- Pilot Efficacy and Safety Studies on the Recombinant DNA Vaccine for Axonal Regeneration in Rats
- Support of Operations of the Cognitive Neuroscience Laboratory (CNL) FY06
- Institutional Review Boards' Operations
- SingHealth Intellectual Properties
- SingHealth Research On-line Library
- SingHealth Research Office Training
- Establishment of a SingHealth Health Services Research Network

### Education (\$3.7m)

Lifelong education is another key goal of the Foundation as it seeks to broaden the expertise of both current and potential healthcare professionals. The strength of our healthcare system is dependent on the knowledge of its nurses, doctors and staff.

### Project Description

- Supplementary Health Manpower Development Programme
- Additional funding towards the setting-up of the National Paediatric Resuscitation Simulation Training Centre at KKH
- Advanced Management Programme at Harvard
- SingHealth Nursing Conference and Community Outreach Programmes
- Production of Pharmacological Guidebook of SingHealth Nurses and Nursing Conference 2006
- SGH Quarterly Patient Safety Newsletter
- National Dental Centre 10th Anniversary Annual Scientific Meeting
- Tan Chin Tuan Nursing Award 2006

## REPORT HIGHLIGHTS OF ON-GOING PROJECTS FOR FY2006

### Cord Blood Bank

- The Singapore Cord Blood Bank (SCBB) stored close to 2,000 cord blood units. The pool of participating hospitals expanded to include East Shore Hospital, Mount Alvernia Hospital, Mount Elizabeth Hospital, Raffles Hospital and Thomson Medical Centre allowing expectant mothers the option of donating their babies' cord blood after delivery. SCBB facilitated a successful cord blood transplant in May 2006 on a patient who suffered from severe combined immunodeficiency.

### Understanding Patient Care

- *Liver Transplantation Medical Equipment Programme*  
Since the first cadaveric liver transplant on 15 Feb 2006, 5 more cadaveric and 1 emergency living donor liver transplants were carried out. All patients are doing well and have returned to their regular routine.
- *Oral and Craniofacial Rehabilitation Programme at National Dental Centre (NDC)*  
The grant has been used to subsidise treatment cost for 5 patients. All are still undergoing treatment. 4 of them are having implant-supported orbital prostheses: 3 lost their orbit to cancer and 1 had burns injury. Stage II surgery has been done for 3 patients and they were being seen for prosthesis fabrication. The 4th patient will undergo Stage II surgery in 6 months. 1 patient had mandibular resection due to a large jaw cyst. His mandible was previously reconstructed with a fibula flap. Under the grant, he had implants placed in the fibula flap. He will require another soft tissue revision surgery before fabrication of an implant-supported denture.
- *Arts for Health Programme*  
The week-long Arts Fest@SGH 06 saw the participation of more than 2,000 patients and 200 volunteers in the various art forms. A pilot music therapy programme was conducted by a full-time Board Certified music therapist from Dec 06 to Mar 07. SGH became the first acute hospital in S E Asia to have such a programme which aims to provide music therapy to 150 hearing impaired children and eventually be offered to oncology, neurology, rehabilitation medicine and behavioural medicine adult patients.
- *Application of Robotics in Minimally-Invasive Cardiothoracic Surgery, National Heart Centre (NHC)*  
As at end of FY06, NHC has performed 1 mitral valve surgery, 1 coronary artery bypass surgery and an excision of mediastinal tumour. They hope to recruit more patients to enrol in robotic cardiothoracic surgery.

### Research

- *Project-Based Research Grant*  
A competitive initiative where 22 project grants were given out to investigators and clinicians at the early phase of their research career covering cardiology, neurology, ophthalmology, oncology, endocrinology and emergency medicine. The project headed by Prof Soo Khee Chee, National Cancer Centre (NCC) has developed a rapid real-time image processing and analysis FPGA (field-programmable gate array) system to be used with fluorescence endoscopy for early diagnosis and staging of oral and bladder cancers. Further work will go towards the testing of the prototype in a clinical setting and to fine-tune the image processing and analysis algorithms based on the feedback from clinical testing.
- *Investigator Excellence Award*  
A/Prof Malini Olivo, Senior Scientist, Division of Medicine, NCC, was awarded for her outstanding contribution in the field of biophotonics imaging for early detection of cancer.

Dr Tan Eng Kin, Consultant Neurologist and Clinician Scientist, National Neuroscience Institute (NNI), received the award for advancing the knowledge in the field of genetics (identifying the clinical and genetic risk factors and the treatment complications) of Parkinson's disease and other movement disorders.

## REPORT HIGHLIGHTS OF ON-GOING PROJECTS FOR FY2006

A/Prof Caroline Lee, Laboratory of Liver Cancer Functional Genomics, Division of Medical Sciences, NCC was awarded for her innovative studies in the field of cancer genetics and biology. Of particular significance is her internationally acclaimed role in 'elucidating polymorphisms in antineoplastic drug-response genes'.

The SingHealth Outstanding Publication Award was awarded to Dr Eranga Vithana and A/Prof Aung Tin from Singapore Eye Research Institute (SERI). Their outstanding publication entitled 'Mutations in sodium-borate cotransporter SLC4A11 cause recessive congenital hereditary endothelial dystrophy (CHED2)', appeared in the 11 June '06 issue of Nature Genetics (JIF=25.797).

A/Prof Kanaga Sabapathy's work at NCC involved the understanding of the cause and nature of genetic changes that lead to carcinogenesis. His manuscript, presenting his lab findings that a 73kDa Molecular weight protein (p73) cooperates with c-Jun to promote cellular survival, has recently been accepted by the prestigious scientific journal, Nature Cell Biology (JIF= 19.717).

Dr Patrick Tan, also from NCC, completed his project that established and utilised high-quality, information-intensive analytical platforms to identify integrative genomic patterns in various cancers for use in predictive and prognostic oncology. The ultimate aim is to contribute towards creating rational clinical frameworks for early detection and diagnostics, tailoring of drug treatments and rational development of targeted therapeutics. To date, Dr Tan has published more than 10 papers in internationally – respected scientific journals like the Cancer Research (JIF=7.616) and Clinical Cancer Research (JIF=5.715), with additional papers being peer reviewed now.

- *Stem Cell Research Group (SCRG)*

The SCRG maintains an active monthly seminar and educational programme with particular focus in engaging physicians-in-training in the area of stem cell and regenerative medicine, and provides opportunities to work with established groups. The SCRG also recognises the Singapore Cord Blood Bank (SCBB) as a unique resource and plans are underway to investigate cord blood in stem cell research more fully. With more than 22 papers published in good to top journals in the last 2 years, the SCRG has become more recognised in the local and international arena.

### Education

- *Supplementary Health Manpower Development Programme*

105 SingHealth healthcare professionals received opportunities to receive overseas training at renowned centres of medical excellence, and sharing their acquired skills with other colleagues in the cluster. An update was held where 4 doctors presented their fellowship experience in liver transplantation.

After a 4-week fellowship in infection control, Li Jie from Changi General Hospital (CGH) developed educational pamphlets for patients and families. She has also been actively involved in developing an infection control training programme for infection control liaison nurses.

Dr Tan Swee Yaw from National Heart Centre (NHC) has started a cardiac wellness programme and risk factor management programme upon his return from his fellowship. In addition, he has done research into Cardiac CT and Calcium scoring and its comparison to other modalities to assist NHC in purchasing CT.

Principal Radiographer (SGH) Rafidah Bte Abu Bakar has revised current protocol into a more structured protocol in head and neck imaging. She has also been sharing the skills learnt to other radiographers.

## REPORT HIGHLIGHTS OF ON-GOING PROJECTS FOR FY2006

- *SingHealth Nursing Conference and Community Outreach Programmes*  
The conference was held from 2 – 4 November '06 with an average of 380 to 400 participants daily, including foreign nurses from Brunei, Thailand, Phillipines and Sri Lanka. Feedback on the conference topic coverage and materials was positive. Nurses were able to enhance their skills and knowledge through the evidence-based nursing programme.
- *Talent Development Fund – Nursing Development Programme*  
The profile of the nursing profession was raised by attaining the American Nurse Credentialing Centre accreditation. 12 Bachelor and 9 Masters in Nursing scholarships were awarded to outstanding nurses to pursue higher learning. The career trek for Advanced Practice Nurse (APN) was established with invited APN experts from USA to help establish and implement the APN model in Singapore.
- *Alice Lee Institute of Advanced Nursing Training Centre*  
More than 7,000 healthcare workers were trained. 154 trainees received training under the STEER programme which offers the ITE Skills Certificate in Health Care (In Patient and Clinic Practice) and Health Services (In Patient). The STEER programme was conducted to provide training and retraining for people who wish to work in the healthcare sector, including those who are retrenched or who want a mid-career switch.
- *Setting-up of the National Paediatric Resuscitation Simulation Training Centre at KK Women's and Children's Hospital (KKH)*  
The centre successfully conducted a seminar for 50 nurses and paramedics on behalf of the Society of Emergency Medicine in Jan 06 and is planning for a repeat session in Oct 07. Since its operations in November '06, the centre has trained an estimated 500 healthcare workers.
- *National Dental Centre 10th Anniversary Annual Scientific Meeting*  
About 400 clinicians, nurses and auxiliaries from institutions and private practice participated in this event. Topics on the various development of dentistry in the last decade were covered. The workshops, topics ranging from the state of art microsurgery in endodontics, twin block in orthodontics to management of medical emergencies in dental practice, attracted many from the private practice including overseas delegates.
- *Allied Health Pre-Service Education Scholarships*  
Since the inception of the programme, 38 scholarships have been awarded in the areas of physiotherapy, radiation therapy, occupational therapy and diagnostic radiography. All the scholars met the university's progression criteria to gain admission into the final year at the University of Sydney.

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