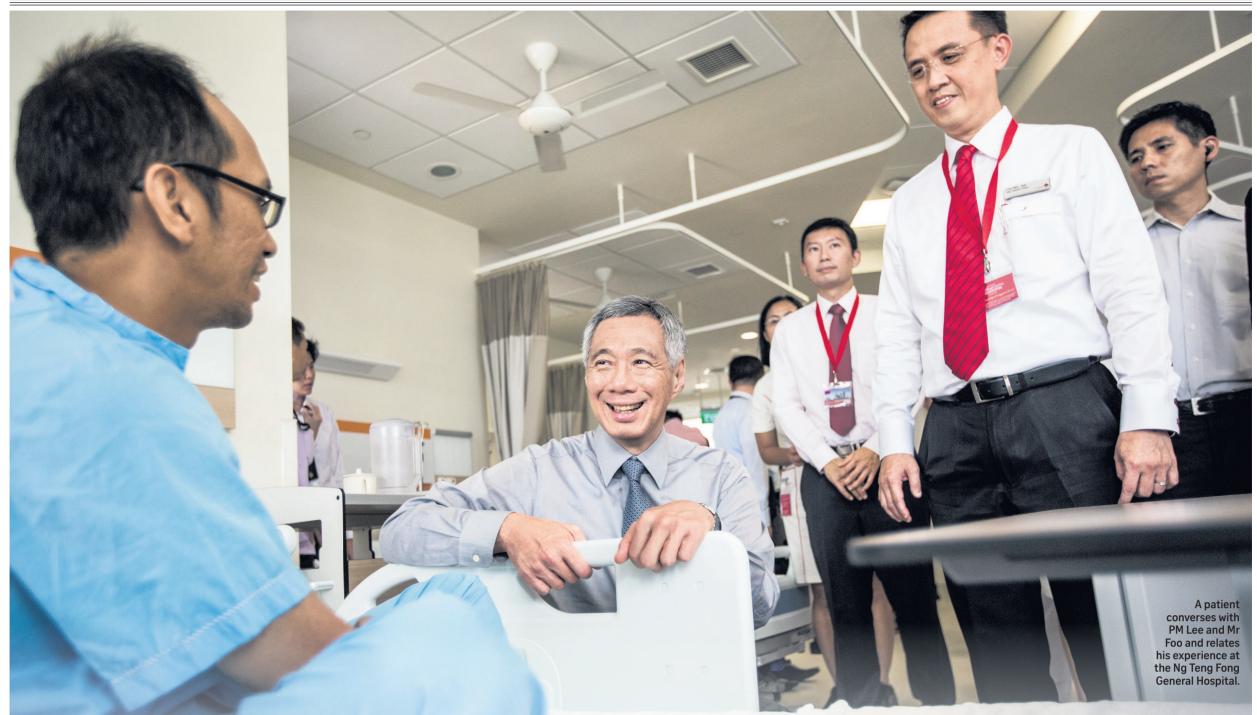
sph newspapers

OFFICIAL OPENING OF NG TENG FONG GENERAL HOSPITAL & JURONG COMMUNITY HOSPITAL

TRANSFORMING CARE. BRINGING HEALTH TO EVERY HOME.



Raising the bar of healthcare

Ng Teng Fong General Hospital and Jurong



With an ageing population and the growing prevalence of chronic diseases, we need to do more with the community and grassroots partners, relevant agencies and other intermediate and long-term care providers to help our community stay well and live well.

C13

Community Hospital stand out for their pioneering design and novel approach to integrating acute and community care

IAN DE COTTA

ROOFTOP gardens and verdant greenery on every floor deliver an image of lush living.

But this is the Ng Teng Fong General Hospital (NTFGH), a state-ofthe-art medical institution, and adjoining it are the Jurong Community Hospital (JCH) and NTFGH Clinic Tower, equally green.

Built to serve the 900,000 residential and business community in the western catchment area of Singapore, the facilities started operations four months ago and were officially opened by Prime Minister Lee Hsien Loong on Oct 10.

When fully operational, the JurongHealth-managed NTFGH and JCH will add 700 acute and 400 community hospital beds to the na tional healthcare capacity.

The pioneering design of the hospitals stands out from other typical medical facilities and the concept follows through inside.

Beds, especially in the six and 12-patient wards, are configured to have their own windows.

Natural light and ventilation integrated with external gardens and outdoor terraces are also evident throughout the hospitals.

NTFGH and JCH were built as

From left: Mrs Tan Ching Yee, Permanent Secretary (Health); Mr Cedric Foo (MP for Pioneer SMC); Mr David Ong (MP for Bukit Batok SMC); Dr Chia Shi-Lu, chairman, Government Parliamentary Committee for Health; Mr Chee Hong Tat, Minister of State (Health and Communications & Information); A/ Prof Cheah Wei Keat, chairman, Medical Board, Jurong Health; Ms Ho Ching, chief executive officer, Temasek Holdings; Ms Grace Foo, Minister for Culture, Community and Youth; Mr Gan Kim Yong, Minister for Health; PM Lee Hsien Loong; Mr Lim Yong Wah, Chairman, JurongHealth; Mr Foo Hee Jug, CEO, JurongHealth; Dr Amy Khor, Senior Minister of State (Health and the Environment & Water Resources); Dr Lam Pin Min, Minister of State for Health; Mr Patrick Tay, member of Government Parliamentary Committee for Health; Mr Ang Wei Neng, MP for Jurong GRC; Madam Rahayu Mahzam, MP for Jurong GRC; Dr Tan Wu Meng, MP for Jurong GRC; MG (NS) Ng Chee Khern, Second Permanent Secretary (Health). PHOTOS JURONGHEALTH

patient-centric hospitals aimed to recuperates. enhance the medical treatment experience and recovery of those un-

Seamlessly connected

opments, we had the chance to de-

sign the buildings from a fresh start

He says that as NTFGH and JCH

are connected, medical care is also

seamless from the moment a pa-

tient is admitted until the time he

around the patient."

der their care.

tal, we have a mock-up three-room HDB flat, just to help patients ease back into their home environment, Noting that Singapore's healthwhile they are recuperating. And care needs are increasing with a growing ageing population, Prime they will continue to be looked after Minister Lee says NTFGH and other by care teams from both sides, the hospitals in the pipeline have been general hospital, if necessary, or the planned to meet those demands. community hospital, which most of the time will be adequate."

JurongHealth chief executive "I am very happy we now have Ng officer Foo Hee Jug says that since opening their doors in June, NTFGH Teng Fong General Hospital and the Jurong Community Hospital and JCH have cared for over 6,300 built and operating," adds Mr Lee. "And because these are new devel-

inpatients. With 500 out of 700 beds at NTF-GH now operational, the acute hospital has an occupancy rate that is as high as 80 per cent, while at JCH, 175 of the 400 beds are available, he adds. More beds will be added progressively to both hospitals as part of their phased opening plan.

"In Jurong Community Hospi-



Integrated, streamlined This is the first integrated development of an acute general hospital and a community hospital in Singapore where the two hospitals have been planned, designed and built at the same time to create a seamless experience for patients as they re-

cover, while achieving economies and synergies of co-location. Ms Joanne Yap, chief operating officer, JurongHealth says: "The twin



During the event, the public were given free blood pressure tests and blood tests. PHOTOS: CHONG JUN LIANG

development of NTFGH and JCH has given us the opportunity to streamline operations right from the start. The two hospitals are wired up to leverage on technology for safe patient care, efficiency and productivity.

"Both hospitals ride on the same IT infrastructure and application solutions such as the electronic medical record, digital imaging, medication preparation, dispensing and administration, meal orders and food preparations, visitor management, and integrated logistics support from warehouse to service points, just to name a few."

The streamlined formula is also at the core of emergency care of patients from the point of admission, as the Emergency Department, Operating Theatre and Intensive Care Unit (ICU) are stacked together in a vertical column.

These departments have dedicated trauma lifts that allow patients to be moved swiftly across the delivery of critical care, where time is of the essence.

MR FOO HEE JUG chief executive officer JurongHealth

They are also supported by relevant adjacent services like Radiology to minimise the unnecessary movement of transfer and pave the way for swift access to treatment.

The follow-through system that has been built into NTFGH or JCH has also been applied at the NTFGH Clinic Tower.

One bill, one queue

"At our specialist clinics, we have incorporated a 'one bill, one queue system' where a single registration number is given to the patient for the various service points," says Mr Foo.

"We have also placed satellite pharmacies on most clinic floors, which are supported by a central packing area with an efficient pneumatic tube system.

"With this process, medication for patients is prepared and tubed to the respective satellite pharmacies for patients to collect after consultation and to make one payment before heading off."

Despite the aesthetic appeal of NT-FGH, JCH and the clinic tower, and the drive to increase capacity and capabilities, Mr Foo says JurongHealth is fully tuned in to doing more to look after the health of the community.

"By the time a resident turns up at the hospital, he is already ill," he says. "With an ageing population and the growing prevalence of chronic diseases, we need to do more with the community and grassroots partners, relevant agencies and other intermediate and long-term care providers to help our community stay well and live well.

"We can help make life, health and healthcare more wonderful by the way we approach health and healthcare."



Healthcare

Ng Teng Fong General Hospital and Jurong Community Hospital offer holistic approach to healthcare

THE future of public healthcare is friendlier, more efficient and fuss-free. And it is here.

The integrated healthcare hub, Ng Teng Fong General Hospital (NTFGH) in Jurong, comprises three towers – the NTFGH Clinic Tower, the NTFGH Ward Tower and the Jurong Community Hospital – all built and conceptualised as a single integrated concept.

But it is style with a substantive purpose: To serve the patient seamlessly, comfortably and efficiently. It is, simply, "FEBulous", if you consider how Friendly, Easy and Breezy it will be for patients.

FRIENDLY

Every aspect of the hospital has been planned to be patient-friendly, with special attention to his every need from admission to diagnosis to treatment to recovery. Critical care services such as the first combined Intensive Care Unit and High Dependency facility,

Operating Theatres and the Emergency Department are vertically co-located for swift response. Comprising a 16-level Ward Tower and an eight-level Clinic Tower, NTFGH has 700 beds and 120-consult room facilities, and easy access to a satellite pharmacy on

almost every clinic floor. The hospital provides all the essential healthcare needs, such as emergency, intensive, surgical, rehabilitative and diagnostic services. All these essential healthcare services will serve the healthcare needs of the estimated

900,000-strong community in the west. The soothing, seamless elderly-friendly environment extends to convenient access to the public transport system through link bridges via Westgate or Big Box.

EASY

NTFGH is designed for efficiency and ease of movement. Built from ground up with an adjacent step-down care at Jurong Community Hospital, it serves to ensure swift and smooth transfer of patients across the two hospitals, providing optimal care for patients.

Mr Foo Hee Jug, chief executive officer of JurongHealth, explains: "Planning two new hospitals from ground up has allowed us the opportunity to see, feel and examine the space from the perspectives of our patients and their loved ones.

"Within NTFGH and JCH, the infrastructure is designed with our patient journey in mind. The systems and the processes are integrated into the infrastructure space planning as we create a fuss-free environment with patient safety, quality medical care, enhanced comfort and convenience in mind.

"Co-locating the acute and the community hospital also allows us to deliver seamless care and better management of patient load with the aim to provide the right care, at the right place, at the right time." Key areas such as wards and clinics are modular to allow for flexible conversion of space should there be a need to expand any outpatient services or ward configuration to meet the changing needs of patients. The combined intensive and high dependency care concept also allows for convertible use of the rooms according to

demand.

BREEZY

Among the nation's healthcare firsts: A window for every patient and unique fan-shaped wards. Designed to provide patient privacy, the orientation and the distinctive layout of the ward offers a conducive healing environment, improves ventilation and maximises natural lighting to increase patients' comfort and the rate of recovery. The design also improves infection control and provides a safer workplace for the healthcare team. Patients not only go through treatment with comfort and care, but another significant first: A one-queue and one-bill system at the clinics.

For the convenience of patients and their caregivers, every patient will be issued a single queue number for all service points in the entire patient journey for the day, and will only need to make a single payment at the last point of service.

Satellite pharmacies at almost every clinic floor, in addition to a larger Outpatient and Retail Pharmacy on Level 2 enable patients and caregivers to collect their medication at the end of their visit.

NG TENG FONG GENERAL HOSPITAL

TOWER A NTFGH Clinics

The Specialist Outpatient Clinics (SOC) at Tower A bring together a diverse multi-disciplinary team of medical experts to manage various medical conditions.

NTFGH Wards including the Emergency Intensive Care Unit and other

services.

entry point via Jurong East Street

Patients', visitors' and veh

Link bridge to Jurong East MRT station and bus

interchange via Westgate

ONE QUEUE, ONE BILL, ONE PATIENT EXPERIENCE



Check in

At NTFGH's Specialist Outpatient Clinics, patients need only register once at the start of the visit. And get a queue number.

Consult

The same queue number will be scanned and used at every clinic including blood tests, MRIs and X-rays etc.



lt is also used for the collection of medication.



Check out Payment for all services will be consolidated into one bill by the end of the visit.



OPERATING THEATRES

Level 3

A dedicated complex of 18 operating theatres, equipped with computerised and integrated equipment for smooth, modern and up-to-date surgical management. Using hybrid, 3D and computer precise navigation, state-of-the-art and advanced minimally invasive surgical procedures can be performed.



INTENSIVE CARE UNIT

Level 4

Singapore's first combined Intensive Care Unit (ICU) and High Dependency (HD) Unit streamline care that cuts across the different conventional ICUs (Surgical, Medical, Cardiac and Neurosurgical). This allows patients to be cared for by the same team. The 'window for every patient' concept extends to ICU and HD patients as well, and comes with an outdoor garden so that stable ICU and HD patients can enjoy some fresh air.



EMERGENCY DEPARTMENT (ED)

Level 1 An ambulance-only drop-off from Boon Lay Way allows direct access into the ED for critically ill patients. A separate drop-off driveway for walk-in patients is at the opposite side of the building. The ED is pandemic, mass-casualty and trauma ready with modular trauma suites that can be combined for a larger care team for severe trauma cases.





C15



18

OPERATING THEATRES

550 SOLAR PANELS

0

SATELLITE

PHARMACY

876

CARPARK LOTS

ON ALMOST EVERY FLOOR AT NTFGH

INFOGRAPHIC: SPH THINK inc



Getting patients back on their feet

The new Jurong Community Hospital seeks to improve patients' lives through all-encompassing sub-acute and continuing care



ESTHER TEO

WITH its glinting, wavy façade and care community hospital and a compeople may think the new Jurong currently and are co-located. Community Hospital (JCH) does not look like a typical place of healing. dietetic and operational support to mobilise the But its unique structural design services, the two hospitals play an

very first fully dedicated sub-acute tient care – JCH receives patients them reintegrate and continuing care specialist hos- from NTFGH and helps free up hospital is seeking to transform health- pital beds there for those who need care here. JCH's opening is timely – its med- larger hospital's expertise in spe-

says that as Singapore's population ages, the profile of illnesses here has ing officer, service operations, and changed greatly.

chronic diseases and while survival smoother and hassle-free experates are higher due to medical ad- rience when they are transferred custom-built to create a healing vances, these can still culminate in from one facility to the other." loss of bodily functions for patients. "Acute hospitals 'fix' health prob- Real-life situations

community."

Built adjoining the new Ng Teng life possible.

Fong General Hospital (NTFGH), this **Acute hospitals 'fix'** is the first time in Singapore an acute health problems, but cascading garden terraces, some munity hospital have been built con- post-acute care is

Sharing laboratory, radiology, is just one of the ways Singapore's intricately collaborative role in paurgent care. It can also tap on the

ical director, Dr Chua Chi Siong, cialised areas such as geriatric care. NTFGH's assistant chief operat-ICH's director of operations Ng He explains: "Now, there are more Kian Swan says: "Patients enjoy a

lems, but post-acute care is required Dr Chua says that JCH's ethos focus- kind in Singapore — is an outdoor after that to mobilise the patients es on promoting health and disease rehabilitation area featuring simuand help them reintegrate into the prevention as well as helping pa- lated transport facilities such as an tients achieve the highest quality of MRT train carriage, bus and taxi to



The Sunday Times | Sunday, October 18, 2015

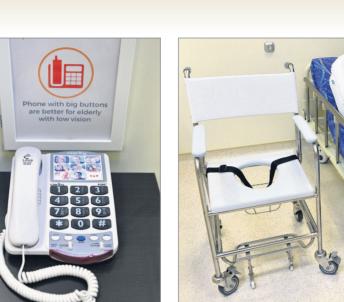
Sunday, October 18, 2015 | The Sunday Times

OFFICIAL OPENING OF NG TENG FONG GENERAL HOSPITAL AND JURONG COMMUNITY HOSPITAL SPECIAL TRANSFORMING CAPE BRINGING HEALTH TO EVERY HOME.

required after that patients and help into the community.



To that end, the hospital is environment for patients with a suite of rehabilitation options. Its Mobility Park – the first of its teach patients suffering from phys-



back home.

ical impairment how to use public care management skills. transport safely. "The facility enables patients to the attached retail pharmacy stocks break away from the confines of a wide range of assistive devices roundings. the wards and indoor gymnasium, such as wheelchairs, walking canes, and to receive outdoor rehabilita- feeding accessories and other useful tion treatment in a more spacious items, which patients and their famand open garden," says Mr Ng. ilies can purchase to install at home.

JCH's Life Hub is another innova- Next up is a supermarket shelf tive facility that prepares patients area to teach patients the types of for their transition back into the healthy food to buy, says Mr Ng. home environment.

It features a simulated three- A place of healing room HDB flat with a fully in- Dr Chua says a lot of thought was helps patients recover by improving teractive learning environment put into making JCH as pleasant and their mental state and reinforcing showcasing best practices in home safe for patients as possible. health and safety, offering solu- Even with different bed number especially beneficial for dementia tions for patient and elderly home configurations, the layout of JCH's patients, says Dr Chua.

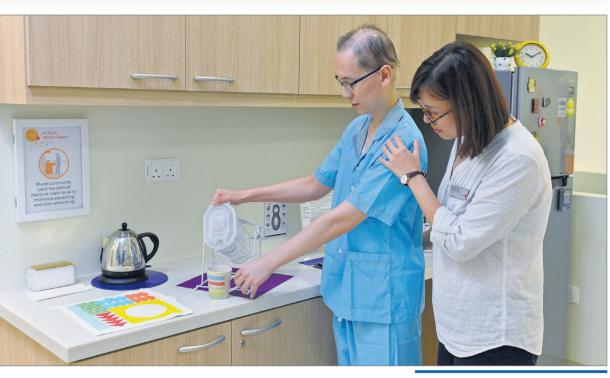
By replicating real-life situations in a 3-room flat, the Life Hub allows patients to make an easier transition when they are

wards is a replica of NTFGH's, so patients who transfer over will not To provide a "one-stop solution", be unsettled by the change in sur-Each ward has an attached toilet Beds in the wards are staggered to peutic for dementia patients.

> by so patients can be attended to earlier, preventing falls. The wards' fan-shaped layout

> with a window at each bedside promotes ventilation and enhances patients' privacy.

their natural circadian rhythm — Level 4.



and nurse's substation located close control the spread of infections better and a special fan system with a engage in either alone or with their ing the haze periods.

As JCH patients tend to stay and gardening classes. longer – for up to about 30 days – the hospital also organises activities Patients can stroll in the safe con- more 'exciting'. fines of a gated "healing" garden on

Other fun activities patients can carbon filter pumps in clean air dur- family members include festival celebrations, karaoke, handicraft Dr Chua says: "At JCH, it is a different kind of satisfaction than at The better light penetration also to keep them occupied, says Mr Ng. acute hospitals where things are

> tions improve and they cheer up According to Dr Chua, the activity over time, the therapeutic relationof "wandering" can be very thera-ship we share is priceless."

Congratulations to JurongHealth on the Official Opening of Ng Teng Fong General Hospital & Jurong Community Hospital



June 29 and 30 NTFGH opens its do at 8am on June 30 after the successful transfer of remaining patients from Alexand Hospital on June 29.





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"Here, as we watch patients' func-

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