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

TRANSFORMING CARE. BRINGING HEALTH TO EVERY HOME.

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## Raising the bar of healthcare

Ng Teng Fong General Hospital and Jurong 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-of-the-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 national 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, JurongHealth; 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

enhance the medical treatment experience and recovery of those under their care. Noting that Singapore's healthcare needs are increasing with a growing ageing population, Prime

Minister Lee says NTFGH and other hospitals in the pipeline have been planned to meet those demands.

### Seamlessly connected

"I am very happy we now have Ng Teng Fong General Hospital and the Jurong Community Hospital built and operating," adds Mr Lee. "And because these are new developments, we had the chance to design the buildings from a fresh start around the patient."

He says that as NTFGH and JCH are connected, medical care is also seamless from the moment a patient is admitted until the time he

patient-centric hospitals aimed to recuperates.

"In Jurong Community Hospital, we have a mock-up three-room HDB flat, just to help patients ease back into their home environment, while they are recuperating. And they will continue to be looked after by care teams from both sides, the general hospital, if necessary, or the community hospital, which most of the time will be adequate."

JurongHealth chief executive officer Foo Hee Jug says that since opening their doors in June, NTFGH and JCH have cared for over 6,300 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.



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 recover, 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 JUNLIANG

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

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.

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.

MR FOO HEE JUG chief executive office

vant 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

They are also supported by rele-

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

### **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

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

one-bill system at the clinics.

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.

### **WARDS**

WARD DESIGN The innovative fan shape design of the wards in NTFGH and JCH is unique and revolutionary as it provides a window for every patient, significantly improving ventilation and maximising natural light. These attributes not only enhance the patient's comfort and rate of recovery, they also improve infection control.



### JURONG COMMUNITY HOSPITAL

**TOWER C** Community hospital Patients who require sub-acute and rehabilitative care can be seamlessly transferred to the community hospital.

### **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.

### TOWER B —

NTFGH Wards

services.

With 700 beds, the ward tower also houses critical care services, including the Emergency Department, Operating Theatres, Intensive Care Unit and other diagnostic and treatment

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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.

### Collect

It 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

### **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

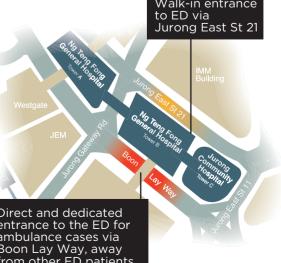
different conventional ICUs (Surgical, Medical, Cardiac and Neurosurgical). This allows patients to be cared for by the same team. The 'window for every patient' concept extends to ICU and HD patients as well, and comes with an outdoor garden so that stable ICU and HD patients can enjoy some fresh air.



### **EMERGENCY DEPARTMENT (ED)**

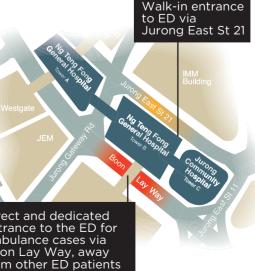
An ambulance-only drop-off from Boon Lay Way allows direct access into the ED for critically ill patients. A separate drop-off driveway for walk-in patients is at the opposite side of the building. The ED is pandemic, mass-casualty and trauma ready with modular trauma suites that can be combined for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





INFOGRAPHIC: SPH THINK inc







BEDS AT BEDS AT NG TENG FONG JURONG

15 GARDENS

HOSPITAL

**ERGONOMICALLY-**FRIENDLY CONSULTATION

**WINDOW** 

HOSPITAL



Jurong Health Services (JurongHealth) is formed and the senior management team start to come together over the





of the Superstructure phase for JurongHealth's new hospitals in the west











construction site of Ng Teng ong General Hospital (NTFGH



The BUILD WITH US! Your Gateway to Health entric features for





# Getting patients back on their feet



Community Hospital (JCH) does not

JCH's opening is timely — its med- larger hospital's expertise in speical director, Dr Chua Chi Siong, cialised areas such as geriatric care. says that as Singapore's population ages, the profile of illnesses here has ing officer, service operations, and ICH's director of operations Ng He explains: "Now, there are more Kian Swan says: "Patients enjoy a chronic diseases and while survival smoother and hassle-free expe-

loss of bodily functions for patients.

is the first time in Singapore an acute health problems, but WITH its glinting, wavy façade and care community hospital and a com-

Sharing laboratory, radiology, urgent care. It can also tap on the NTFGH's assistant chief operat-

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 palated transport facilities such as an

Fong General Hospital (NTFGH), this **Acute hospitals 'fix'** required after that patients and help into the community.

To that end, the hospital is Its Mobility Park — the first of its



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

To provide a "one-stop solution",

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. ICH'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.

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.

wards is a replica of NTFGH's, so patients who transfer over will not be unsettled by the change in sur-

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 pa-

their natural circadian rhythm — Level 4.

Each ward has an attached toilet Beds in the wards are staggered to peutic for dementia patients. and nurse's substation located close control the spread of infections bet-Other fun activities patients can

"Here, as we watch patients' func-

ter and a special fan system with a engage in either alone or with their carbon filter pumps in clean air dur- family members include festival ing the haze periods. celebrations, karaoke, handicraft As JCH patients tend to stay and gardening classes. Dr Chua says: "At JCH, it is a diflonger — for up to about 30 days the hospital also organises activities ferent kind of satisfaction than at The better light penetration also to keep them occupied, says Mr Ng. acute hospitals where things are Patients can stroll in the safe conmore 'exciting'.

> fines of a gated "healing" garden on According to Dr Chua, the activity over time, the therapeutic relationof "wandering" can be very thera-ship we share is priceless."

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

# **ESTHER TEO**

cascading garden terraces, some munity hospital have been built conpeople may think the new Jurong currently and are co-located. 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 is just one of the ways Singapore's intricately collaborative role in pavery 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

rates 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." "Acute hospitals 'fix' health prob-

Built adjoining the new Ng Teng life possible.

### MR CHUA CHI SIONG

environment for patients with a suite of rehabilitation options. tients achieve the highest quality of MRT train carriage, bus and taxi to teach patients suffering from phys-

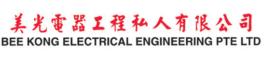
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