



Collective Leadership for the Future of Hospitals



FutureREADY



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FutureCARE

WOODLANDS HEALTH: DESIGN AND CONCEPTUALISATION OF A FUTURE HOSPITAL IN INNOVATION AND SUSTAINABILITY

CO-WRITTEN BY WOODLANDS HEALTH AND HOSPITALS OF SINGAPORE NETWORK

In this era defined by evolving healthcare needs, the design and conceptualization of future hospitals is undergoing a transformative shift. No longer mere structures for medical treatment, future hospitals need to embody innovation and sustainability.

Slated to open progressively from 2023, Woodlands Health (WH), a visionary 1,400-bedded purpose-built campus, exemplifies this paradigm shift with its commitment to redefining healthcare delivery.

On 16 April 2024, members of the Hospitals of Singapore (HOS) Network had the privilege to visit the campus, gaining valuable insights into its approach in campus design and conceptualisation.



FutureREADY

WH embodies the FutureREADY concept, prioritizing resilience and sustainability. Recognizing the imperative to safeguard both patient health and the environment's, WH has secured a BCA Green Mark Platinum certification. This underscores WH's dedication to environmental stewardship through carbon and water savings and renewable energy utilization.

Guided by principles of campus design such as Future Proofing and Sustainability, WH ensures its environmental sustainability, environmental resilience,

pandemic resilience and technology resilience. As a healthcare facility, it aims to shape the behaviour of Users to achieve a long-term goal for an Active, Sustainable and Community-friendly Campus.



FutureOPERATIONS

At the heart of WH's innovation lies its commitment to FutureOPERATIONS. The integration of technologies such as the Patient Bedside Terminal (PBT) and Patient Services Stations (PSS) exemplifies this. The PBT provides timely care-related information, enhancing their engagement in treatment plans. Meanwhile, the PSS offers self-service options such as appointment management and financial counselling, streamlining operations.



Additionally, WH's adoption of lab automation and upcoming tele-presence robots in wards showcases its dedication to leveraging technology for operational excellence.



FutureCAMPUS

Acknowledgements

WH's FutureCAMPUS design blends sustainability and innovation to support the evolving needs of patients and staff.

Its integration with the adjacent Woodlands Healing Garden creates a therapeutic environment conducive to healing and rehabilitation. Other sustainable design features include pedestrian-friendly spaces and vehicular traffic routed to basement level that reduces the energy use for building cooling. Notably, WH's use of PV cells, rainwater harvesting, and food waste recycling systems demonstrates WH's commitment to eco-friendly practices.



By embracing sustainability and fostering innovation, future hospitals can become catalysts for a healthier and more sustainable future.



Group photo of the HOS Network members at the Vantage Point. From left to right: Prof Jason Cheah (CEO, WH), A/Prof Dan Yock Young (CEO, NTFGH), Dr Bernard Thong (CMB, TTSH), Prof Alex Sia (CEO, KKH), Ms Young Ming Ee (DD, Organisation Planning and Performance, SCH), Ms Sandy Ho (ACOO, NUCOHS, NUH), A/Prof Gan Wee Hoe (CEO, SCH); Dr Wong Kirk Chuan (COO, WH), Mr Roy Ngong (ACOO, Plans and Strategy, NUH), A/Prof Ruban Poopalalingam (CMB, SGH), Prof Kenneth Kwek (CEO, SGH), Mr Ng Kian Swan (COO, NTFGH), Dr Tang Kong Choong (CEO, TTSH), A/Prof Ng Kee Chong (CEO, CGH), A/Prof Nicholas Chew (CMB, WH), Ms Yan Yan (Director, Campus Planning, WH), Mr Ryan Jin (Manager, Partnerships, HOS Network Secretariat Team) and Ms Natalie Lee (Management Executive, Partnerships, HOS Network Secretariat Team).

Special thanks to the hospitality of the WH team for sharing their insights and inspiring the HOS Network to reimagine the future of hospitals. We extend our gratitude to the following individuals:

Prof Jason Cheah (CEO, WH) and Dr Wong Kirk Chuan (COO, WH) for their candid and opened sharing about their campus' development journey. Their emphasis on the importance of ensuring future proofing and flexibility in campus design was indeed a key learning point for all.

Ms Yan Yan (Director, Campus Planning, WH) for explaining the principles for campus design and highlighting unique features of WH such as its environmental/pandemic/technology resilience, and integrated acute and community hospital which enables seamless transition of care.

Mr Chen Shunfu (Director, Strategic Futures Office, WH) for providing valuable insight into WH's Innovation Initiatives such as the telepresence robots and patient service stations which sparked engaging discussions amongst the attendees.

Mr James Chia (Assistant Director, Corporate Development, WH) for coordinating the visit alongside his hospitable corporate planning team.



Token of Appreciation to Prof Jason Cheah (CEO, WH) by representative of HOS Network, Prof Kenneth Kwek (CEO, SGH)

HOS Network Members



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