

CENTRE FOR HEALTHCARE INNOVATION

PULSE



INNOVATION STORIES . HIGHLIGHTS@CHI . UPCOMING EVENTS . NEWS FROM PARTNERS / October 2023

# INNOVATION STORIES



## National Healthcare Innovation & Productivity Medals 2023: Innovations to Positively Impact Care and Workforce Challenges



*This year's winners with Guest-of-Honour Ong Ye Kung, Minister for Health, Singapore*

Recognising that innovations are key to tackling the future challenges of healthcare, CHI INNOVATE celebrated seven winning projects from five healthcare institutions under the annual National Healthcare Innovation and Productivity (HIP) Medals in three award categories: Care Redesign; Automation, IT and Robotics Innovation; and Workforce Transformation.

Minister Ong Ye Kung shared pearls of wisdom in inspiring innovation. He said that there are many "Proof Of Concepts" initiatives, and he urged everyone to have the discipline to look into the potential use of these projects and push them towards application.

He emphasised that data sharing among the health and social sector is important to better serve the needs of the residents. He said that initiatives implemented in the community should be easy to understand and apply, in order for the community to fully benefit from it. Congratulations to all National HIP Medals recipients! Click here for the full [press release](#), or view the posters on the [CHILD website](#).

Inspiring us to innovate are:

- **Excellence Champion Medal** - Tan Tock Seng Hospital's "Nurse-led Intravitreal Injection (IVT) Team"
- **Best Practice Medal (Care Redesign)** - National Healthcare Group's "Living Well @ School: Activating & Sustaining Healthy Behavioral Changes in Children and their Families"
- **Best Practice Medal (Care Redesign)** - Tan Tock Seng Hospital's Innovative Healthcare Delivery Models in AMK Specialist Centre
- **Best Practice Medal (Care Redesign)** - Singapore General Hospital's "Enhanced Recovery After Surgery for Total Knee Arthroplasty"
- **Best Practice Medal (Automation, IT & Robotics Innovation)** - Singapore General Hospital, SingHealth's "Using Digital Twin for Infectious Disease Surveillance and Outbreak Investigations"
- **Best Practice Medal (Automation, IT & Robotics Innovation)** - Ng Teng Fong General Hospital's "[OTSight] Data-driven Workforce and Process Transformation For Operating Theatre (OT) Optimisation"
- **Best Practice Medal (Workforce Transformation)** - Singapore General Hospital's "Developing a Digital-Ready Workforce through Process Improvement and Innovation"

# INNOVATION STORIES



## THREE STARTUPS TO TESTBED AND SCALE TRANSFORMATIVE SOLUTIONS IN PUBLIC HEALTHCARE

28 July 2023

Three technology startups have emerged winners of Healthcare InnoMatch 2023, with their innovative near-market solutions that will drive Singapore's push for a healthier population. The winners were selected from eight finalists, beating 163 participants from across 28 countries.

Healthcare InnoMatch is an annual global challenge driven by the Centre for Healthcare Innovation (CHI) under its CHI Startup Enterprise Link (CHISEL) initiative set up to strengthen healthcare transformation. It is supported by the Ministry of Health (MOH) and Temasek Foundation (TF), together with the three public healthcare clusters National Healthcare Group (NHG), National University Health Systems (NUHS) and SingHealth.

Themed "Reshaping preventive care for a healthier population", this year's competition focused on solutions that best address challenges and needs in keeping patients healthy and preventing chronic health conditions. The winners were awarded a total of up to \$2.4 million to begin test-bedding their innovations at a public healthcare cluster they have been paired with, eventually adopting and scaling for use in public healthcare institutions across Singapore and beyond.

The winners and their partner healthcare clusters are (in alphabetical order):

- CardioKol (partnered with NUHS)
- Neurowyze (partnered with NHG)
- Wonder Technology (partnered with SingHealth)

In the finale event attended by an audience of over 300, the finalists faced the challenging task of pitching their solutions to the panel of judges from the Health Promotion Board, MOH, NHG, NUHS, SingHealth, Synapse, and TF.

To further enhance the readiness and speed of adoption, all winning innovations will undergo a thorough and robust evaluation framework. Designed to give innovators, care providers and investors the confidence to adopt and scale, the CHI Evaluation Framework (CHIEF) is a one-stop platform to provide systematic and evidence-based approaches to assess the value and impact of these healthcare innovations.

With CHIEF, budding innovators will be equipped with the necessary guidance system from conceptualisation to adoption. Using the framework, they are able to benchmark their progress to specific milestones and checklists identified. The CHIEF advisors, made up of clinicians, researchers and officers from local and international healthcare innovation organisations led by the Ministry of Health (MOH), will provide further guidance and connect innovators to industry partners to help close the gap for projects that may not have satisfied any aspects of the framework.

Click here for the [press release](#).



Ms Joanne Yap, Executive Director, Regional Health System Office, National University Health System, with CardioKol's CEO, James Amihod.

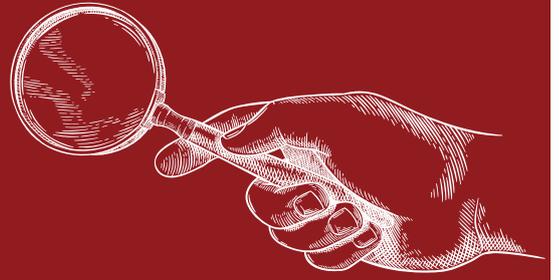


Mrs Chew Kwee Tiang, Senior Director, Wellness & Preventive Care NHG And Senior Advisor, Board of NHG Advisors, National Healthcare Group, with Pang Sze Yunn, CEO of Neurowyze.



Prof Lee Chien Earn, Deputy Group Chief Executive Officer, Regional Health System, SingHealth congratulates Wendy Wu, CEO of Wonder Technology.

# HIGHLIGHTS @CHI



## LAUNCH OF HEALTH AND SOCIAL CHANGE ACADEMY

28 July 2023



Minister Ong, together with partners, collaborators and leaders in healthcare celebrating the official launch of the HSC Academy

The CHI Health and Social Change Academy (HSC Academy) was officially launched by Ong Ye Kung, Minister for Health, at the recent CHI INNOVATE 2023. Accompanied by CHI's industry partners and collaborators, including those from health and social care, the commitment to "bridge" health and social care was made in the presence of over 600 professionals across various sectors.

The Academy aims to build capabilities of health and social care professionals to work together in developing programmes and initiatives to engage the population on health issues collaboratively.

"Frailty, social isolation, disabilities and lifestyles are key social drivers of health. These drivers can only be tackled effectively through collaborative Communities of Care (CoCs) in every neighbourhood where national and social agencies, family doctors, healthcare organisations and residents join hands to care for the more vulnerable, and proactively empower health for everyone. We hence need to build new and better capabilities that help us to better work together across health and social care," said Professor Eugene Fidelis Soh, Chairman, Centre for Healthcare Innovation.

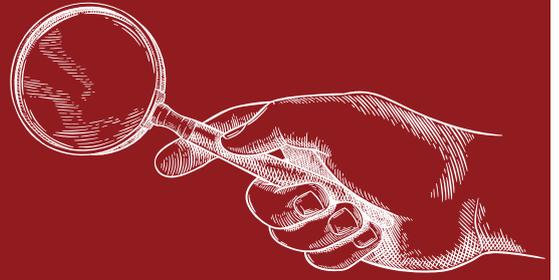
The HSC Academy will enable social and health care agencies to develop critical skills for building and sustaining CoCs through its four strategic programmes:

- Population Health Science - participants learn how funding mechanisms and incentives drive population health programmes, and to apply socio-behavioural norms to activate healthy habits in individuals and communities.
- Social Prescribing - participants learn the importance of setting up and connecting residents based on their needs to a range of health and social services to improve well-being.
- Leading as a Collective – participants learn the concepts and tools to build relationships and enable care collaborative networks.
- Movement for Health and Social Impact – participants learn to design large scale change movements to empower residents, and improve their health

The Academy will host more than 30 local and international experts from academia, health and social care, and government agencies under the CHI Co-Learning Network

Click here for the [press release](#) or visit the [HSC Academy website](#) .

# HIGHLIGHTS @CHI



## CHI INNOVATE 2023

28 July 2023

CHI INNOVATE 2023 welcomed over 600 participants, to the sold-out conference on 28 July. Themed “Building Bridges: Health & Social Care”, the conference convened professionals from sectors including and beyond health and social care, as well as healthcare institutions, agencies, academia, industry partners and foundations.

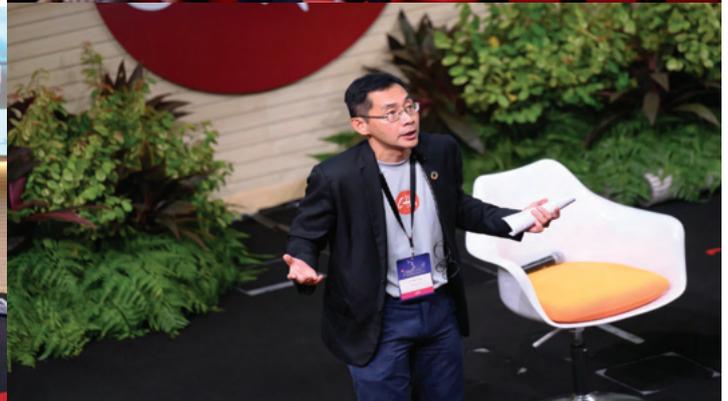
This year, the conference expanded its focus from healthcare to health; from patients to people; from clinical centres to communities of care. The conference programme, aimed to galvanise the participants to breach traditional boundaries and work with community partners to catalyse health and social change, ultimately creating more sustainable healthcare and healthy communities.

The event featured 27 speakers from Singapore, Thailand, United Kingdom and United States, delivering global and regional perspectives, shared ideas and experience that were relevant for the future landscape in health and social care.

Participants also had the opportunity to engage with 23 of the latest innovative companies and technologies at the exhibition. Exhibitors and the conference participants had the opportunity to connect with industry leaders, sparking collaborative opportunities and meaningful conversations.

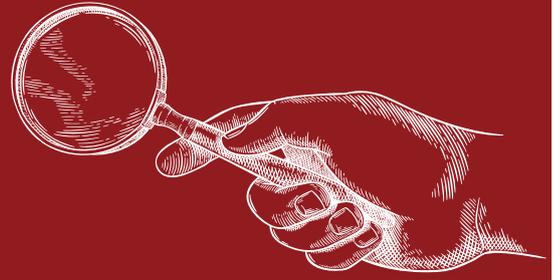
The exhilarating day ended on a high as everyone left with renewed commitment to collaborate between health and social care to bring better care for the community, through better understanding of one another. While reeling from the abundance of knowledge and engagement, the cogs and gears have already begun turning to reconvene for CHI INNOVATE on 4-5 July 2024! See you then!

Click here for the [full article](#), or [experience the event here](#).



Featuring some of the highlights at CHI INNOVATE 2023. Clockwise from top: Lee Poh Wah, CEO of Lien Foundation; Prof Hahrie Han, renowned political scientist from Johns Hopkins University; Dr Junaid Bajwa, Chief Medical Scientist at Microsoft Research; Prof Teo Yik-Ying, Dean of the Saw Swee Hock School of Public Health; and the debate teams at FaceOff.

# HIGHLIGHTS @CHI



## HACKATHON BRINGS IDEAS FROM HEALTH & SOCIAL CARE

27 July 2023



18 young leaders from the health and social care sector, pictured here with the facilitators and judges, came together to ideate solutions for health and social care.

“Critical eyes and passionate hearts” – Key strengths of young leaders connected to the ground to see the issues at hand and the passion, drive and energy to seek to make a difference.

That energy and mindset flowed strongly in a group of 18 young leaders from the health and social care sector on 27 July, brought together in a Hackathon organised by the CHI’s Future Leaders and Young Innovators Guild (FLYING) and the National Council of Social Service (NCSS)’s 40 Under 40 Programme.

Split into four teams, participants were tasked to tackle either of two problem statements on issues faced on both healthcare and social care fronts – Providing support to family members of seniors approaching their end of life and how to better manage the independence of seniors.

Despite the varied professions and organisations of participants in each team, the collective sense of urgency was strong as our organisers shared the problem statements, with nods across the groups as they agreed with the issues raised and the need to develop solutions.

The combination of ideas from both the health and social care sector led to novel and actionable proposals, such as a programme to reduce loneliness in seniors and the development of ‘pre-conciliation’ dialogue primers to help families adjust to the eventual passing of their loved one. The judges were Wong Mee Lian from National University of Singapore’s Saw Swee Hock School Of Public Health and Tina Hung from the National Council of Social Service (NCSS).

[Click here for more.](#)

## HACKATHON BRINGS IDEAS FROM HEALTH & SOCIAL CARE

27 July 2023

Singapore Design Week 2023 fired up inspiration as it showcased creativity that came from a strong sense of purpose, and designed to deliver a positive impact! Marking DesignSingapore Council’s 20th Anniversary, this year’s theme “Better by Design”, resonated close to our hearts, and CHI was honoured to be a part of this showcase!

Led by CHI Living Lab’s Chua Jia Xiang, Principal Service Designer, and his team, CHI’s collaboration with Nanyang Polytechnic School of Design, titled “Healthier Me Happier We”, examines the social determinants that will contribute to our pursuit of a HealthierSG.

The showcase also presented Medical 3D printing, an innovative application of the technology by Dr Michael Yam, a CHI Fellow and Consultant at Tan Tock Seng Hospital.

The Medical 3D printing technology has been lifechanging for patients and medical practitioners. It prints models of patients’ organs from medical scans, so the attending doctor can better explain their condition and what treatment they need. More recently, the team has also produced prosthetic body parts (ie: nose, finger) for patients.

[Click here for more.](#)

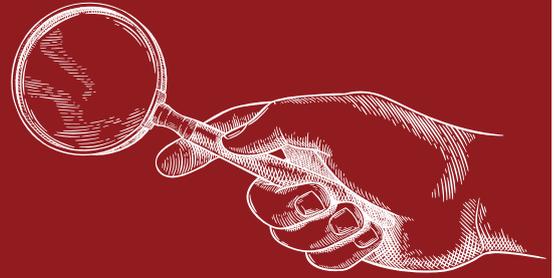


The Medical 3D printing technology on showcase.



Visitors try out the “Healthier Me Happier We” interactive display.

# HIGHLIGHTS @CHI



## CHI & ARC INNOVATION TEAM EXCHANGE INSIGHTS ON HEALTHCARE DEVELOPMENTS

18 August 2023

It was a great pleasure to have the ARC Innovation team, led by Prof Eval Zimlichman, together with Ms Angela Rabinovich, and Dr Harel Baris for an enriching afternoon of co-learning!

The engaging visit was spent exchanging insights on healthcare innovation, transformation, and the various initiatives and programmes driving better healthcare.

To give our visitors a firsthand experience of the innovations shared by CHI, they were taken on a tour of the Operations Command Centre, and the CHI Reimagination Plaza.

It takes meaningful collaborations to drive healthcare forward, and we are grateful to co11ab Novena for their gracious hosting, where they shared their role and contributions in this ecosystem. We are excited to continue these conversations as we build this partnership for impactful healthcare transformation and growth.

[Click here for more.](#)



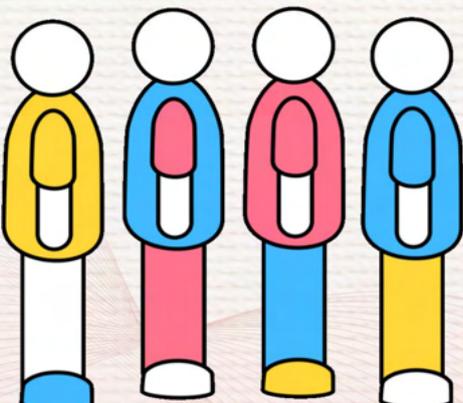
Prof Eugene Soh, Chairman of CHI (far left), and William Salim, Assistant Director of Resource Management (far right), with our visitors at the Operations Command Centre.



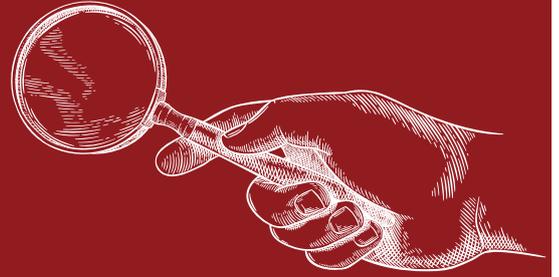
“Want to reduce the long and endless waiting time at Emergency Department (ED)?”

SEARCH **CHILD** NOW FOR INNOVATIVE IDEAS AND SOLUTIONS, GENEROUSLY CONTRIBUTED BY YOUR FELLOW COLLEAGUES ACROSS ALL 3 PUBLIC HEALTHCARE CLUSTERS AND COMMUNITY INSTITUTIONS!

TOGETHER, WE STRIVE TO EFFECTIVELY ALLEVIATE CONGESTION AND SLASH WAITING TIMES AT THE ED!



# HIGHLIGHTS @CHI



## CHI WELCOMES IHH HEALTHCARE SINGAPORE

18 Aug 2023

CHI was privileged to host the distinguished delegation of Healthcare Leaders from IHH Healthcare Singapore earlier this morning. The delegation led by Dr Prem Kumar Nair, then CEO of IHH Healthcare Singapore, was greeted by Prof Eugene Fidelis Soh, Chairman of CHI, CEO of Tan Tock Seng Hospital and Central Health, as well as A/Prof Tan Cher Heng, CHI's Executive Director.

The visit signifies potential opportunities for collaboration between public- private healthcare in transforming Singapore's healthcare to bring even more value for the patients and community we serve.

"We are building an innovation bridge between CHI and IHH Ignite to share solutions, ideas, training in innovation and change management. Look forward to our partnership ahead," shared Prof Soh.

The delegation had a tour of the Operations Command Centre and CHI Reimagination Plaza where we shared CHI's initiatives in driving innovation and transformation for better healthcare delivery in the hospital and community for our patients.

The engaging discussions highlighted our shared challenges, and reaffirmed our common goal in elevating healthcare delivery, enriching the lives of our patients. The visit illuminated the paramount significance of cross-sector collaboration across innovation hubs in both public and private sectors. Here's to the spirit of co-learning and collective growth!

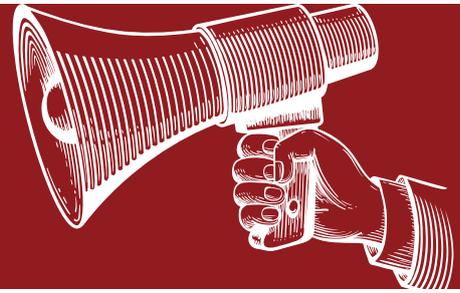
[Click here for more.](#)



Tune in to CHI AMPED, the official podcast channel, which feature interviews with leading experts and innovators in the field, providing valuable insights and inspiration for healthcare professionals!

Listen to the series on Spotify: <https://spoti.fi/40f8q9U>  
To suggest conversation topics, email us at [chi@ttsh.com.sg](mailto:chi@ttsh.com.sg).

# UPCOMING EVENTS



## CAPE ALLIED HEALTH CONGRESS 2023

2 & 3 Nov 2023

**ARE YOU READY TO REIMAGINE POPULATION HEALTHCARE FOR A HEALTHIER SG?**

2 & 3 NOVEMBER 2023  
NG TENG FONG CENTRE FOR HEALTHCARE INNOVATION (CHI)

SCAN TO REGISTER

**JOIN US NOW!**  
**CAPE ALLIED HEALTH CONGRESS 2023**  
EMBRACING DIVERSITY & HARNESSING INCLUSIVITY

ORGANISED BY: CAPE Allied Health & Pharmacy Institute  
EVENT PARTNERS: HEALTHCARE INNOVATION, National Healthcare Group, NUHS National University Health System, SingHealth  
SUPPORTED BY: Tan Tock Seng, The Ng Teng Fong Healthcare Innovation Programme

People. Ideas. Conversations. Possibilities.

Join us at the biennial CAPE Allied Health Congress at Ng Teng Fong Centre for Healthcare Innovation (CHI), 2 – 3 November, 2023. Explore exciting possibilities for Re-Inventing of Population Health: Embracing Diversity & Harnessing Inclusivity.

Be inspired to continuously innovate your roles and reimagine care models for a future-ready healthcare ecosystem.

[Find out more here.](#)

## NG TENG FONG HEALTHCARE INNOVATION PROGRAMME: INNOVATION GRANT

Deadline: 27 Nov 2023

**CALL FOR APPLICATION**

Category 1 Innovation	Category 2 Clinical Research	Category 3 Pitch For Fund
Up to <b>\$100K</b> per project	Up to <b>\$100K</b> per project	Up to <b>\$20K</b> per project

NTF HIP is a competitive grant and the amount is subjected to the availability of funds each FY.

**FY23 Grant Call Closing Date**

- 27 Nov

Pre-Application Consultation

Download the Info Pack & Application Form

The Ng Teng Fong Healthcare Innovation Programme (NTF HIP): Innovation Grant, is now open for applications!

The competitive, year-round grant, is accepting applications for 3 categories: Innovation, Clinical Research, and Pitch for Fund.

If you would like to find out more or consult us in person, sign up for a pre-application consultation session with the QR code on the left.

The NTF HIP Grant aims to drive innovation in healthcare to benefit and enhance the health of our patients and the population we serve.

NTF HIP serves as a financial lever of innovation, and help funds the innovation work and programmes facilitated by CHI.

Contact us at [NTF\\_HI\\_Prog@ttsh.com.sg](mailto:NTF_HI_Prog@ttsh.com.sg) for

# NEWS FROM OUR PARTNERS



## CHI, HEALTH PROMOTION BOARD AND THE NATIONAL UNIVERSITY OF SINGAPORE INKS COMMITMENT TO DRIVE HEALTH & SOCIAL

28 July 2023

With a strong focus in advancing population health and building capabilities to care for the community, it is heartening to have the collaboration of our partners from both Health and Social Care sectors.

On 28 July, CHI welcomed two new partners - Health Promotion Board (HPB), and the National University of Singapore's Saw Swee Hock School of Public Health (NUS SSH SPH), who each signed an MOU with CHI, signifying a commitment in driving healthcare beyond the hospital together.

In CHI's efforts to tackle the challenges brought on by an ageing population and advancing the Healthier SG strategy, the newly launched CHI Health and Social Care Academy aims to build new capabilities needed for our workforce, increasing the arsenal of tools, and methodologies to propel this next wave of care transformation.

HPB plays a crucial role in promoting a holistic approach to health and well-being.

Through this partnership, CHI has HPB's leadership and support for the Academy to enable capability building for the transformation and integration of health and social care in Singapore.

In particular, the contribution of expertise in co-creating preventive health strategies and digital health for our communities.

As part of the Academy, CHI will be setting up a digital playground to build a digital community of care that will extend the current place-based model for better reach to residents and to build ownership of health; to which HPB is also a member of the Digital CoC steering committee.

The partnership with NUS SSH SPH and CHI will explore and engage in collaborative efforts in areas related to population health, integrated care, and healthcare innovation.

As a leading body of education, NUS SSH SPH brings their expertise with faculty members, programme development, as well as research and evaluation to keep the Academy current with future healthcare needs.

Going beyond the Academy, the partnership will drive Thought Leadership in Health and Social Care through the sharing of good practices and transformative change.

Together, co-learning will be expanded through the facilitation of local and international networking for healthcare, social care and academia leaders through roundtables, learning visits and conferences via reciprocal or shared platforms.



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