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Advancing Healthcare excellence in APAC through technology integration and transformative care models

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Dr Goh Su-Yen, Senior Consultant, Singapore General Hospital | Collaboration drives meaningful healthcare change by enhancing outcomes, efficiency, and innovation integration. TechInnovation fosters partnerships and scalable solutions to address healthcare challenges which are the key drivers of SGH's patient-centric approaches



TechInnovation 2025, now in its 13th edition and organized by IPI Singapore, serves as a dynamic platform where innovation converges with opportunity. Spanning three days, the forum is designed to inspire visionary entrepreneurs and emerging businesses to explore new avenues, expand their horizons, and scale with tangible impact. The dynamic forum united a diverse community of professional leaders, innovators, and solution providers to explore emerging trends, adopt new technologies, and form strategic partnerships. The event is designed to explore emerging trends and disruptive technologies, provide actionable insights for market penetration, understanding regulations, and building global partnerships, facilitating collaborations and sustaining competitiveness.

Scaling Preventive and Personalized Digital Care is a key focus this year, exploring how digital health solutions are transforming patient care by shifting healthcare from hospitals to homes. Highlighting this shift, **Dr. Goh Su-Yen, Senior Consultant at Singapore General Hospital (SGH),** describes how remote monitoring, AI-driven personalized care are

redefining precision healthcare and even remotely. SGH focuses on advancing care through innovation and patient-centric approaches, and foster collaborations through spectacular platforms such as TechInnovation 2025.

- **From your vantage point, how are emerging health technologies transforming chronic care management, particularly as Asia advances towards scalable, patient-centered digital health solutions?**

The evolution of healthcare is increasingly shaped by digital transformation, enabling more proactive and personalized care models. Emerging technologies are redefining how chronic conditions are managed, with tools that support continuous monitoring, early detection, and tailored interventions. In Asia, where diverse populations face unique challenges such as geographic dispersion and limited access to traditional care, these innovations are particularly impactful. By leveraging remote monitoring, AI-driven analytics, and virtual care platforms, healthcare providers can extend their reach, improve outcomes, and address the needs of time-poor or underserved communities. These advancements highlight the potential of technology to reshape care delivery. The most notable ones are;

- **Remote physiological monitoring**

Wearables and connected devices enable continuous monitoring of vital signs and chronic disease metrics (such as blood glucose or heart rate), allowing for real-time data sharing with healthcare providers.

- **AI and predictive analytics, including the concept of a physiological digital twin**

AI-driven platforms provide early detection of disease exacerbations and power predictive models to anticipate patient needs. These insights support proactive chronic care, helping tailor interventions to individual risk profiles and optimize resource allocation

- **Telehealth and virtual care platforms**

Telemedicine will be an increasingly useful tool to improve access to underserved and time-poor patient populations, both in terms of remote geography and limited transportation access in different areas of Asia, as well as segments of the population who find in person care inconvenient.

- **Collaboration between clinicians, researchers, and industry partners often plays a crucial role in determining the speed at which innovation is delivered to patients. How is SGH embracing cross-sector collaborations, and what is on the horizon to leverage at TechInnovation 2025?**

As Singapore's flagship hospital, Singapore General Hospital (SGH) is committed to leading the way in providing tertiary and quaternary care through clinical and academic excellence, innovation, and patient-centric care.

We actively explore potential partnerships within the innovation ecosystem to collaborate with us in accelerating the development of meaningful healthcare solutions tailored specifically to meet the diverse needs of our patients and healthcare providers.

Events like TechInnovation bring together a community of innovators and solution providers allowing us to seek out new technologies and meet industry partners who offer new perspectives.

- **What are the key elements of an effective innovation pathway for medtech and digital health tools to demonstrate impact, integrate with clinical workflows, and scale responsibly across diverse care settings in Asia?**

Our innovators and inventors first need to be clear what they are solving for, and whether their proposed solution is practical, implementable, scalable and saleable. We must help our innovators navigate often-complex regulatory, reimbursement and licensing paths, as these are crucial for rapid market access. Those who have the ability to shape the ecosystem should engage with regulators to understand and influence evolving frameworks especially in the realm of AI-based tools and software as medical devices (SaM).

We also need robust partnerships within the accelerator and venture-building community. I would also emphasise including the patient-lens always, designing tools that address diverse patient populations and needs.

- **You emphasised risk appetite and robust governance in your panel discussion. From your perspective, what constitutes a safe and reliable testing environment for AI-enabled tools, robotics, ambient sensors, and continuous monitoring technologies? How does SGH balance innovation while keeping patients and clinicians protected in increasingly data-driven models of care?**

While SGH seeks to bring our patients new and better care and therapies through research and innovation, our commitment to patient-centered care puts our patients' health and well-being first. As an Academic Medical Centre, we take pride in training healthcare professionals and conducting cutting edge research to meet evolving needs of the nation.

Clinical research is an integral part of SGH's institutional practice and is actively carried out by clinicians and scientists from medical, nursing, and allied health departments. The hospital leverages on its multi-disciplinary capabilities, depth of specialisation, a large patient base and its research affiliations with renowned centres locally and globally. Collaborating with academic partner Duke-NUS Medical School, which is located on SGH Campus, the hospital's goal is to develop the Campus into a hub for translational and clinical research.

For AI, availability of sandbox environments, guided by relevant IT and AI governance policies can support safe testing environments. Balancing innovation and safeguards can be challenging. Keeping infrastructure, policies, and governance processes nimble can help to navigate and identify pathways that account for speed and safeguards.

- **How do you envision platforms like TechInnovation 2025 assisting hospitals such as SGH in discovering new technologies, engaging with innovators, and addressing real-world healthcare challenges?**

At SGH, we believe in the power of collaboration to drive meaningful change in healthcare delivery. Our collaborative efforts are strategically focused on enhancing patient outcomes, improving operational efficiency, and advancing healthcare delivery through the seamless integration of innovative technologies and solutions.

Events such as TechInnovation stay relevant by bringing together diverse stakeholders in the innovation ecosystem allowing participants to explore meaningful partnerships and practical scalable solutions relevant to healthcare needs.

Dr Goh Su-Yen, Senior Consultant, Singapore General Hospital.

Associate Professor Goh Su-Yen is a senior consultant in endocrinology at the Singapore General Hospital, with a distinguished clinical focus on diabetes and general endocrinology. She holds key strategic roles driving digital transformation and innovation – serving as Group Director, Innovation & Transformation for SingHealth, steering innovation across institutions. She also co-chairs the Academic Medical Centre's innovation initiative (AMII), aligning innovation strategies between SingHealth and Duke-NUS.

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