Tuesday, 23 April 2019

07:30 - 08:00	**Registration and Coffee**
08:00 - 08:10	**Opening Address by Presenting Partner DXC Technology**
08:10 - 10:00	**CXO Dialogue (Disruptive Innovation)** Neil Patel, President, Healthbox, Executive Vice President, HIMSS, USA

Is Healthcare ready for Disruptive Innovation?

Healthcare has long been ripe for disruptive innovation and as one of the most innovative cities in the world, Singapore hosts an ecosystem to experiment with new technologies and services to deliver higher quality of care. However, should healthcare leaders innovate while keeping the lights on to ensure that business runs as usual? Or does that impede innovation?

This Dialogue will look at Innovations in Healthcare from the leadership and strategy perspective.

Key Discussion points:

- The challenges when embarking on an innovations project
- How disruptive innovations change the pace in consumerism
- Cross-industry disruptors that can be meaningfully adopted in Healthcare

A closed door and by-invitation only dialogue session that brings C-Suite leaders from the region and industry leaders to explore current and future trends on healthcare innovations.

Moderator: Neil Patel

This session is only open to C-Suite executives (or the organizational equivalent).

Attendees will receive a complimentary pass to attend the HIMSS Singapore eHealth Summit 2019 (both days).

Please RSVP here

10:10 - 10:15

Welcome Address
Bruce Steinberg, Managing Director and Executive Vice President, HIMSS International

10:15 - 11:15

Keynote Plenary 1: CXO Panel: Disruptive Innovation for Value Based Healthcare
Dr Eugene Soh, Chief Executive Officer, Tan Tock Seng Hospital & Central Health, Singapore
Chris Mitchell, Executive Director Information Communications & Technology, Hunter New England Local Health District, NSW, Australia
Christian Besler, Chief Digital Officer , Ayala Healthcare Holdings, Inc, Philippines
Dr Peng Chung Mien, Chief Executive Officer, Farrer Park Hospital, Singapore
Dr Stephen Chan, Chief Medical Informatics Officer, Woodlands Health Campus, Singapore

Now that healthcare is moving from volume to value, we will see experts from Singapore, Australia and Philippines sharing their views on how to drive disruptive innovation to bring value based healthcare and the way it changes the delivery of care for health systems, providers and consumers.

Moderator: Dr Stephen Chan

11:15 - 12:00

Keynote Plenary 2: Reaching an Inflection Point: How Healthcare will Become Accessible and Affordable for Every Person on Earth
Dr Ali Parsa, Founder, Chief Executive Officer, Babylon Health, UK

Never before has humanity witnessed such a pace of technological change. Every aspect of our life is being reimagined, and healthcare is no exception. In this thought-provoking keynote, Babylon's Founder & CEO, Dr Ali Parsa, will discuss the dawn of an exciting new era of holistic health management and disease prevention.

12:00 - 12:45

Keynote Plenary 3: AI and Imaging: Your Data as a Strategic Asset
Esteban Rubens, Global Principal for Enterprise Imaging , Pure Storage

As the conversation regarding AI in healthcare in general, and medical imaging in particular, turns from suspicion to the nuts and bolts of integration into existing workflows, and measuring benefits for patients, providers, and payers, questions about how to go about starting AI projects in areas such as radiomics and pathology are becoming commonplace. In addition, recent research shows that the democratization of AI research is not just a nice concept, but rather a requirement for AI to be of benefit to patients at a national and global scale -- particularly to historically underserved populations. This presentation will focus on the the importance of viewing healthcare data as an asset, the importance of starting imaging AI projects in the first place, and the importance of IT infrastructure in enabling those AI projects to become clinically useful.

Key discussion points:

- How the proper infrastructure can enable the translation of AI from research to clinical care

- How a data hub can accelerate the patient-care benefits of AI
- How to avoid "GPU starvation"

This session is sponsored by:

12:45 - 14:30

Networking Lunch

CXO Luncheon 1

Sponsored by:

14:30- 15:00

HIMSS Track

HT1: Reducing the Cost of Healthcare with the Right Mix of Technology and Strategy

Alexander Madama, D.O., Distinguished Technologist, Hewlett Packard Enterprise

Health economies around the globe are struggling to provide the best possible healthcare. The impact of aging populations who are living with long term conditions which require ever more costly and sophisticated treatments is creating a situation where countries, insurers and citizens are unable to afford the healthcare services they need. This situation is compounded by systems of healthcare provision which are still in many instances paper based or are fragmented in terms of service delivery placing increasing stresses on already overburdened healthcare providers.

Healthcare providers and payers need to modernize and they need to enable citizens to better engage with health services either at the point of diagnosis or throughout their treatment to reduce the burden on public or private providers. Innovation and digital transformation may offer solid solutions to increase the quality of care while containing cost

Health 2.0 Track

14:30- 15:15 Early Prevention Solution Showcase

Yuuri Ueda, M.D, Director, Health 2.0 Asia - Japan (MedPeer Inc.)
Fiona McDonald, Digital Clinical Champion/Clinical Advisor , NHS England
Dr Stephen Chan, Chief Medical Informatics Officer, Woodlands Health Campus, Singapore

Discussions and demonstrations on solutions to prevent long-term health issues.

Moderator: Yuuri Ueda

Panelist (5 min)

1. Fiona McDonald

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2. Dr Stephen Chan

Early Prevention Demos (40 min):

1) Healint

2) Body Composition Technologies

3) Syncmed Informatics Corp

4) Cognifyx

15:00 - 15:30

HT2: PHM Adoption for Diabetes Patient for More Comprehensive Care
Dr Hwang Hee, Chief Information Officer & Associate Professor, Department of Pediatrics, Seoul National University Bundang Hospital, South Korea

Population health management (PHM) consists of three major components; Data aggregation, risk stratification, and outreach based on big data analysis. For combining data, interoperability is crucial factor because PHM aims to manage lifelong longitudinal management of patients. For risk stratification, accurate and adaptive models should be implemented in order to help healthcare professionals to evaluate the risk of patients with fast and precise manner. For outreach, governmental policies reimbursing for PHM implementation are crucial to provide it nationwide. In S.Korea, EMR adoption rate is over 80%. However, most of EMR solutions are being operated locally with their own database format, therefore it is very challenging to aggregate data for PHM. In addition, it is still hard to find accurate risk stratification models for Asian population. We are currently developing our own models, but still struggling to evaluate the effectiveness of developed models. Korean government already has many value-based reimbursement programs, however most of them reference retrospective data on a yearly basis, which cannot be utilized for PHM. SNUBH already adopted big data utilization platform such as clinical indicators and business intelligence, and PHM. In this lecture, I

15:15- 16:05 Chronic Disease Management Showcase
Yuuri Ueda, M.D, Director, Health 2.0 Asia - Japan (MedPeer Inc.)
Fiona McDonald, Digital Clinical Champion/Clinical Advisor , NHS England
Dr Stephen Chan, Chief Medical Informatics Officer, Woodlands Health Campus, Singapore

Discussions and demonstrations about how patient-centric solutions can empower the individual to manage multiple and long-term health issues.

Moderator: Yuuri Ueda

Panelist:

1) Fiona McDonald

2) Dr Stephen Chan

would like to discuss obstacles when developing PHM solutions in S.Korea, especially technical aspect from our experience to develop PHM solutions.

15:30 - 16:00

HT3:Digital Transformation in Healthcare
Dr Keren Priyadarshini, Regional Business Lead, Healthcare and Life Sciences, Asia Pacific, Microsoft Corporation

As the population ages Worldwide, countries are putting greater focus on healthcare innovation, and reconsidering how they approach healthcare management. AI's value for healthcare lies in its ability to parse through and analyse millions and millions of pieces of data to draw insights that the human eye may have missed. AI can be a set of tools that can assist or help doctors provide care.

Healthcare bills are rising for both patients and the government. Singapore plans to spend S$10.2 billion on healthcare this year – more than double the figure in 2010 (S$4 billion).

Innovations in healthcare tech through AI could mean that limited resources are used more wisely in the pursuit for lower costs and better patient outcomes.

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Chronic Disease Management Demos (50 min):

1) Lovexair Foundation
2) ConnectedHeath Pte Ltd
3) Caresharing

4) Scanbo Technologies Inc

5) MyDoc

16:00 - 16:30

Coffee Break

16:30 - 17:00

HT4: The Digital Divide: Are Asia's Consumers on the Fence about e-Health?

Thalia Georgiou, Managing Partner Head of Healthcare, Asia Care Group, Hong Kong

Much as been written about the promise of digital health; from telemedicine to improve access, through to big data to predict and prevent health episodes. But despite digital health's obvious benefits, it has stimulated relatively little change in the way health services are organised and delivered throughout Asia. In this presentation we will look at the barriers to digital adoption and the ways in which these are being overcome by Government, Insurers and Providers. Using newly conducted research we will explore what the future holds for digital – beyond the hype.

The Path to Patient Self-Care and Management Using Online Access in England.

Fiona McDonald, Digital Clinical Champion/Clinical Advisor , NHS England

In 2014, England introduced the ability for patients to order repeat prescriptions, book GP appointments and access a summary of their GP record online. More recently, this online access has been increased to allow patients to access coded information in the form of problems and diagnosis, test results, referrals and demographics, encouraging self-management of long-term conditions and sign positing to validated health information, increasing health literacy. By 2020, patients will have access to their full GP record including free text, care plans and letters and documents. Online consultations will also be available across England

In 2010, the electronic prescription service was rolled out across England, where prescriptions are sent electronically from the GP to the community pharmacy of the patient's choice. This provides the opportunity for a secure end to end audit trail from ordering to dispensing of prescriptions.

17:00 - 17:45

Keynote Plenary 4: Overcoming Fear of Disruption: What Healthcare Organisations Can Do Now

Neil Patel, President, Healthbox, Executive Vice President, HIMSS, USA

From unconventional partnerships to significant moves made by non-healthcare giants and pivots in the way established healthcare organizations are delivering care, we are living in an age of overwhelming disruption. This keynote aims to outline key points in the history of disruption, identify new disruptors in healthcare, and recognize the major areas of opportunity for incumbents. As the world heads toward value-based care, we are in constant need of developing new ways to address patient needs. Healthcare organizations should not fear disruption, but instead embrace it by building, buying, or partnering with disruptive technology and organizations.

Wednesday, 24 April 2019

08:00 - 09:00

Registration & Coffee

09:00 - 10:00

Keynote Plenary 5: Panel Discussion_AI Equation, The Future of Work and the Work of the Future

Dr Ali Parsa, Founder, Chief Executive Officer, Babylon Health, UK
Dr Ngiam Kee Yuan, Group Chief Technology Officer, National University Health System, Singapore
Neil Patel, President, Healthbox, Executive Vice President, HIMSS, USA

Dr Hwang Hee, Chief Information Officer & Associate Professor, Department of Pediatrics, Seoul National University Bundang Hospital, South Korea

Adoption of Artificial Intelligence (AI) in healthcare is growing while radically changing the face of healthcare delivery. To sense and comprehend data like humans, AI has opened up previously unavailable or unrecognized opportunities for clinicians and healthcare organizations. With humans being the creator of this, will it take over us? What does the future holds for AI in healthcare. Join us in this AI panel discussion with the following panelist:

Moderator: Neil Patel

10:00 - 10:45 **Keynote Plenary 6: How To Run a National Health IT Disaster?**
Professor Joe McDonald, Director, Connected Health Cities, North East and North Cumbria (The Great North Care Record), UK

Sharing lessons learned from the UK's National Programme for IT, a £12 billion failure. The difference between successful Health IT projects and failed ones. If you are doing a large scale project these painful lessons are for you.

10:45 - 11:15 Coffee Break

11:15 - 12:00 **Keynote Plenary 7: Plummer Project—The Mayo Clinic Journey to a Single Instance Converged Electronic Health Record and Revenue Cycle System**
Patrick H. Luetmer, M.D., Professor of Radiology and Chair, Clinical Systems Oversight Subcommittee, Mayo Clinic CPC, USA

The Plummer Project implemented a comprehensive, single-instance converged Epic electronic health record and revenue cycle management system across all Mayo sites in a four phase implementation replacing 3 separate EHR instances, multiple disparate revenue cycle systems and a total of 287 applications. Key project success factors will be reviewed including extensive practice convergence in the years prior to project kickoff, utilization of a formal change management program with comprehensive activity for all levels of staff, a talented core implementation team with limited turnover, appropriate project resourcing, clear strategic priority of organization, full engagement of leadership at all levels and sites, and strong support and collaboration from Epic. A formal lessons learned process with rigorously tracked follow-up enhanced each successive implementation. Key lessons learned will be shared. Rigorous tracking of co-dependent projects and careful management of a separate team to support legacy systems prior to go lives will be emphasized.

12:00 - 13:30 Networking Lunch

HIMSS Track ***Health 2.0 Track***

13:30 - 14:00

HT5: A How-To Guide to Delivering Healthcare Innovation

Jonathan Hau, Healthcare Vertical Technology SME, Asia Pacific and Japan , Nutanix

Disruptive innovation in Healthcare is happening. Regardless of whether providers are ready for new adaptions in technology or not, these changes are driving the future of patient care. With the advent of “HealthTech” and the leveraging of AI in the clinical environment, the focus is on elevating the delivery, quality and standards of care.

Healthcare providers already have hundreds of applications supporting a myriad of clinical workflows; often internal IT departments are swamped with simply “keeping the lights on”. Modernisation, consolidation and digital transformation is only the first step of the journey.

- How can Healthcare IT departments maintain the already demanding levels of service and still innovate?

- How can you maintain Agile service delivery without adding to an already heavy existing workload?

- How can you deploy these innovative applications rapidly, consistently and securely

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Tele-Ophthalmic Screening and Consultation: The NHGEI Experience

Associate Professor Colin Tan, Department of Ophthalmology, Tan Tock Seng Hospital, Singapore

The use of technology to enhance healthcare delivery has broad applications in medicine, and is especially relevant to specialties such as ophthalmology. Tele-ophthalmology is useful in screening for eye conditions, and in virtual consultations. The Singapore Integrated Diabetic Retinopathy Program (SiDRP) is a good example of the effective use of technology for screening for diabetic retinopathy and related eye conditions. This talk will discuss the SiDRP program, as well as NHG Eye Institute’s experience in tele-consultation for eye symptoms.

14:00 - 14:30

HT6: The Triple Helix of Innovation

Dr Fazilah Shaik Allaudin, Senior Deputy Director of Planning Division, Ministry of Health, Malaysia

Telecommunication advances and the dawn of 4th Industrial Revolution are presenting multiple strategies and challenges ahead which includes policy & regulation, clinical evidence, advocacy, medical ethics and clinical practice. However, these disruptions are also creating new opportunities to solve some of the biggest health-related challenges facing the world today. Efforts are underway to review and develop regulatory strategies and policies to foster digital health technologies, advocate translational research, spur innovations and boost the digital economy while at the same time, building an enabling ecosystem in Malaysia. In 2016, MOH formed the Telemedicine Development Group (TDG), which is a smart collaboration with service providers, regulators, researchers and industries to facilitate digital health innovations. This triple helix model of innovation (academia, industry and Government) consist of four Special Interest Group of regulation/policy, knowledge dissemination, clinical trials & go-to-market. Subsequently, The TDG Steering Committee was established in June 2017. TDG visualizes a vibrant, collaborative and innovative digital health ecosystem for Malaysia health services. Its mission is to nurture Malaysia's digital health ecosystem and innovations via collaboration between Governments, Academia and the Industries. This triple helix model has registered more than 70 members today. The TDG is hoping to launch its digital health innovation road map and digital health innovation hub.

Telehealth Showcase

Yuuri Ueda, M.D, Director, Health 2.0 Asia - Japan (MedPeer Inc.)

Associate Professor Colin Tan, Department of Ophthalmology, Tan Tock Seng Hospital, Singapore

Christian Besler, Chief Digital Officer , Ayala Healthcare Holdings, Inc, Philippines

Discussions and demonstrations about how telehealth overcomes barriers for best care outcomes.

Moderator: Yuuri Ueda

Panelist (20 min):

1) A/Prof Colin S. Tan
2) Christian Besler

Telehealth Demos (30 min):

1) Biorithm
2) WhiteCoat
3) MaNaDr

14:30 - 15:00

HT7: ZEDOC - A Data-Driven Cost and Outcomes Platform for Value-Based Care

Mike Merry, Chief Technology Officer, The Clinician Ltd

Patients have an especially valuable understanding of their own health. With mounting pressures on time and resources, it is increasingly difficult for clinicians to get the whole picture and deliver optimal care. Patient Reported Outcome and Experience Measures (PROMs and PREMs) have been shown to help mitigate the issue, but can be challenging to deliver efficiently and effectively. ZEDOC is a platform that helps capture the patient's perspective in the health journey, integrating with clinical systems to not only

provide this valuable information back to clinical and support staff, but also reduce the administrative burden of delivering the questionnaires.

ZEDOC uses machine-learning and data-driven approaches to keep the response burden to a minimum for patients while ensuring the relevant information for clinicians is captured. By focusing on the most informative questions and removing all redundant questions automatically, ZEDOC is fast for patients while ensuring that the clinical validity is maintained.

With this increase in relevant information being captured, a better understanding of the patient journey can be attained. The outcomes, when combined with financial data, allow informed decisions to be made on the basis of relevant and detailed information to drive value-based care in clinical settings.

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15:00 - 15:30

HT8: Technology to Enable the Clinical Genomics Revolution
Kate Birch, Program Manager, Melbourne Genomics Health Alliance, Australia

The implementation of clinical genomics has the potential to fundamentally change patient care and improving patient outcomes, delivering on the promise of precision medicine. But implementing genomics into standard clinical care requires an evidence base of utility, a prepared workforce, and technology platforms that will support data streams of a type and magnitude not seen before in health. This is a true big data challenge, and the solutions to this challenge must be in line with patients' changing expectations of how their data is managed and shared. With a focus on technology to support the coming genomics revolution, an approach to the delivery of systems that are in line

Artificial Intelligence Showcase
Joseph Mocanu, Managing Partner, Verge HealthTech Fund, Singapore
Yuuri Ueda, M.D, Director, Health 2.0 Asia - Japan (MedPeer Inc.)
Chua Chee Yong, Head, Emerging Services and Capabilities, Integrated Health Information Systems (IHiS), Singapore
Kevin Lo, Managing Director, South East Asia region, Korea & Hong Kong/Macau, Varian Medical Systems Pacific, Inc.

AI Deep Dive: AI in Radiation Oncology – Transforming Cancer Care

with patients expectations will be discussed as part of a tried and tested approach to the "whole of system" change required to deliver clinical genomics.

(15min)
Sponsored by:

15:30 - 16:00 Coffee Break

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Discussions and demonstrations about how exactly artificial intelligence affects and value-adds consumers.

Moderator: Yuuri Ueda

Panelist (15 min):

1) Joseph Mocanu

2) Chua Chee Yong

3) Kevin Lo

AI Demos (20 min):

1) SmartPeep

2) Logixlab

16:00 - 16:45

HT9: Take-Away Lessons from the SingHealth and Other Recent Cyber Attacks
Richard Staynings, Executive Security Leader , Cyber Associates LLP

Improving Hospital Processes Showcase
Yuuri Ueda, M.D, Director, Health 2.0 Asia - Japan (MedPeer Inc.)
Joseph Mocanu, Managing Partner, Verge HealthTech

Fund, Singapore
Dr Aung Myint Oo, Deputy Chief Medical Information Officer, Tan Tock Seng Hospital

The SingHealth breach last year was a wake-up call for healthcare and governments across the region that the PII and PHI of citizens is being vacuumed up by cyber criminals and state actors. The breach however was not an isolated incident, merely one that was actually discovered, made public and quickly propelled into the media spotlight because of its size, its targets, and the complexity and sophistication of the attack. Inside and outside of healthcare, the scale and frequency at which all of our personal information is being compromised is truly scary. Most attacks still go undetected, and most organisations still lack the resources and wherewithal to defend themselves fully.

But let's not forget that there are actually greater security risks across healthcare than mere confidentiality breaches. The availability and integrity of clinical IT / IoT systems and medical data needed to diagnose, monitor and treat patients, poses a far more significant threat. Most importantly, this now seriously threatens patient safety. It also puts at risk the ability of hospitals and clinics to treat citizens in todays interconnected digital health world. (Just consider the impact of WannaCry on the British NHS).

What can we do to improve security across our health systems to protect the confidentiality, integrity and availability (CIA) of health IT systems so that patients aren't placed at risk?

What lessons can we learn from recent attacks?

How can we gain greater visibility into what's happening in our hospitals and become better prepared to defend ourselves from the next inevitable attack?

Discussions and demonstrations on how to improve hospital processes to eliminate inefficient practices and have a secure platform to protect hospital data.

Moderator: Yuuri Ueda

Panelist (15 min):

1) Joseph Mocanu

2) Dr Aung Myint Oo

Improving Hospital Processes Demos (30 min):

1) Qnnect

2) Radica Health

3) Cryptoloc Technology

16:45 - 17:15

HT10: Dr Answer Project: South Korea Nationwide AI Based Healthcare Software Project
Dr Hwang Hee, Chief Information Officer & Associate Professor, Department of Pediatrics, Seoul National University Bundang Hospital, South Korea

In the new wave of industrial revolution, healthcare is generally considered as the most potential industry for adopting technology as an enabler to deliver new value of service to public. Combining with precision medicine initiatives in lots of countries, ICT technology is being focused as important tools for more efficient and accurate medical service. Recently, lots of effort to utilize artificial intelligence (AI) in healthcare was under trial, however, its clinical efficacy and usefulness is not yet established. In this presentation, South Korea government initiated AI based healthcare service project (named as "Dr. ANSWER") will be introduce including its technical background, target disease, and current status of development by narrowing down to specific disorder (Epilepsy for neural network by utilizing deep learning technology).

17:15 - 17:45

HT11: Data Security Reinvented

Jamie Wilson, Founder, Cryptoloc Technology

The Australian Privacy Foundation (2018) reports that "conservative estimates put the cost to the Australian taxpayer of My Health Record at over $2 billion with annual costs now running at about $500 million." The ideals behind having a national health system to share and control medical records between doctors, specialists and patients is sound and could vastly improve the quality of healthcare in Australia. Unfortunately the storing and sharing of such a wealth of personal data provides many security vulnerabilities and a lucrative target for cyber criminals, with the system suffering many compromises and a large portion of the population opting out of using the voluntary system. This paper will discuss how the revolutionary new cryptographic platform of Cryptoloc can be leveraged to deliver solutions such as this, by eliminating vulnerabilities and returning privacy back to the people.

17:45 - 17:55

Closing Address

Dr Korpong Rookkapan, Board of Directors, Paknampo Group of Hospitals, Principal Healthcare Group