

出國報告(出國類別：其他-國際會議)

參加「第 11 屆亞洲健康保險年會」

(The 11th Annual Health Insurance Asia Conference,
Singapore, May 2017)

服務機關：衛生福利部中央健康保險署

出國人員職稱及姓名：企劃組組長

張鈺旋

出國地區：新加坡

出國期間：106.5.23~106.5.26

報告日期：106.8.18

目 次

一、Annual Health Insurance Asia Conference 簡介	3
二、參加會議	
(一) 行程	4
(二) 會議重點	4
三、心得與建議	11
四、附錄：議程與相關資料	12

一、The 11th Annual Health Insurance Asia Conference 簡介

在介紹本次會議之前，首先對主辦單位 IBC 公司稍微說明，IBC 是 Informa plc 公司的亞洲部門，而 Informa plc 公司是目前提供世界各國市場趨勢及知識分享的最大平台，在這平台上會舉辦各項會議和課程內容。例如會發刊超過 2,100 種資訊服務，包括學術期刊、即時新聞和結構化的資料庫的商業情報等。Informa 的圖書業務已超過 55,000 種學術和業務的印刷出版。

IBC(亞洲)總部設在新加坡，30 多年的經驗成為亞洲地區辦理會議及培訓的提供者，提供許多創新及高品質的商業資訊，討論的範圍非常廣泛，包括企業、商品、金融、生命科學、電信等多個領域的產業，IBC 每年在亞洲地區超過 200 個的會議和培訓課程，該會議作為知識共用和行業網路的共同平臺，原則上該會議會邀請商界領袖、國際專家和傑出人士等。¹

第 11 屆亞洲年度健康保險會議(Annual Health Insurance Asia Conference)，係由亞洲地區的醫療保險保險總裁或經理人，以及醫療保險等相關產業人士共同參加，並且討論以客戶為中心的解決方案，可以促進亞洲各國在醫療政策或健康產業的經驗交流，進而提供客戶或病患更好的醫療品質及健康照護。中央健康保險署派員參加本次會議，俾與其他亞洲國家衛生部門官員、學者、專家及產業界，深入學習與交流，以作為健保經驗的國際交流。

¹參考 IBC 公司的網頁 <http://www.ibc-asia.com/about-ibcasia>

二、參加會議：

(一) 行程

日期	行程內容
5 月 23 日	去程，台北→新加坡，大會註冊。
5 月 24-25 日	參加會議
5 月 26 日	返程，新加坡→台北

(二)會議重點

與會人員大部分為亞太地區國家的醫療健康政策制定者、國際專家學者與醫療產業界代表，並且在同樓層不同場區同時辦理三場研討會，分別有“4th Annual Healthcare Facilities Asia 2017”、“Digital Healthcare 2017”及“11th Annual Health Insurance Asia 2017”（如附件一），兩天的討論會議約有超過 250 位與會者共同與會，由於三場議題彼此相關，因此與會者可以自由參加任一主題的議題，增加議題討論的廣度，討論熱烈，是一個非常難得的學習過程。

1.台灣全民健保

台灣代表參加“The 11th Annual Health Insurance Asia Conferenc”為中央健康保險署企劃組組長張鈺旋，主要分享台灣健保經驗，台灣健保在全民納保、弱勢照顧、醫療可近性等之表現，是國內的民眾滿意度最高的重要政策之一，也在國際上獲得許多的肯定與稱讚評價。

但台灣目前人口老化問題是一項嚴峻的議題，我國於 1993 年老年人口超過 7%，成為高齡化（Aging）社會，2018 年老年人口超過 14%，成為高齡（Aged）社會，2025 年此比率將超過 20%，我國將邁入超高齡

(Super-aged) 社會。另一方面，隨著少子化趨勢，生產者與高齡人口比，將由 2014 年每 6.2 個青壯人口負擔 1 位老年人口，2061 年轉變為每 1.2 個青壯人口負擔 1 位老年人口，由於醫療及科技的進步，再加上少子化因素，預計 2060 年台灣將成為全世界最老的國家。

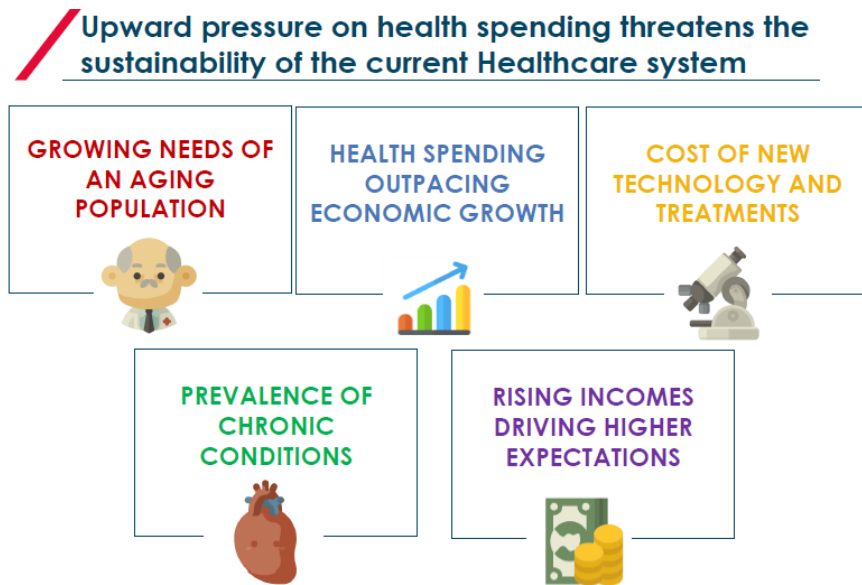
由於人口老化、新科技新療法、慢性病盛行率提高、經濟成長、民眾期待增加等因素，使得健康照護費用持續上漲，這也威脅到現行健康照護制度的維持與永續。再者，新醫療科技不斷發展，民眾在資訊爆炸的時代，醫療資訊不對稱的情形日益嚴重，因此中央健保署建置完整資料庫，讓民眾隨時取得自我健康資訊(my data)，結合雲端科技技術自 2013 年 7 月起建置以「病人」為中心「健保雲端藥歷」系統，提升民眾就醫及用藥安全，並自 2014 年 9 月推出「健康存摺」系統，透過資訊開放，幫助民眾作好自我照護，期待創新服務與成效得以建構國民健康新願景，具有推動國家永續發展之影響性及貢獻。(簡報資料詳如付附件二)

隨著人們的壽命、生活、飲食習慣的改變，現代社會壓力的累積，皆為導致疾病產生的原因，人口結構高齡化、疾病狀況慢性化、健康問題障礙化及照顧長期複雜化，因此導入智慧生活以資訊科技取代人力照護，使老有所養的願景成為可能，並運用機會能耐配適模型，評估可具體發展之機會，這是轉機，更重要的是，這是一個產業界的商機，朝提供創新服務模式發展。因此我們亦藉此會議與其他國家的代表進行討論。以下針對部分具有代表性的報告摘要重點：

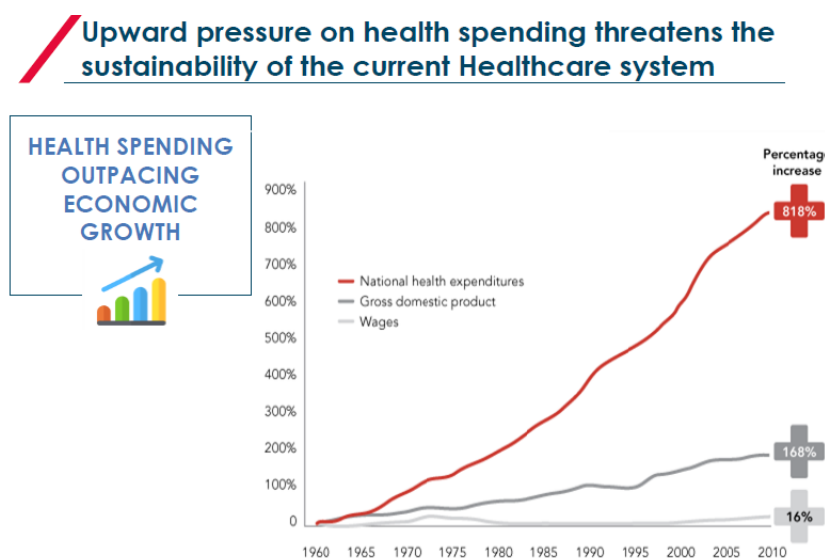
2. Andre Czanik, AXA Singapore

Innovation Focus: the current health insurance proposition, and why it needs to change

主要說明目前各國由於人口老化、新科技新療法、慢性病盛行率提高、經濟成長、民眾期待增加等因素，使得健康照護費用持續上漲，這也威脅到現行健康照護制度的維持與永續，尤其各國醫療費用高於經濟成長率。(如下圖)



圖一 醫療費用成長的重要因素



Source: McKinsey, "Accounting for the Cost of U.S. Health Care" (2001), Center for American Progress

圖二 醫療費用成長率

亞洲國家醫療花費占率

2014 年	% GDP
日本	7.1
臺灣	6.2
馬來西亞	4.1
韓國	7.3
新加坡	4.9

參考資料:World Bank 及衛生福利部

<http://data.worldbank.org/topic/health>

<http://dep.mohw.gov.tw/DOS/lp-2156-113.html>

AXA 集團因應未來趨勢，已完成下列各項創新作法：

(1)從醫療費用支付者角色轉化為醫療服務夥伴角色：

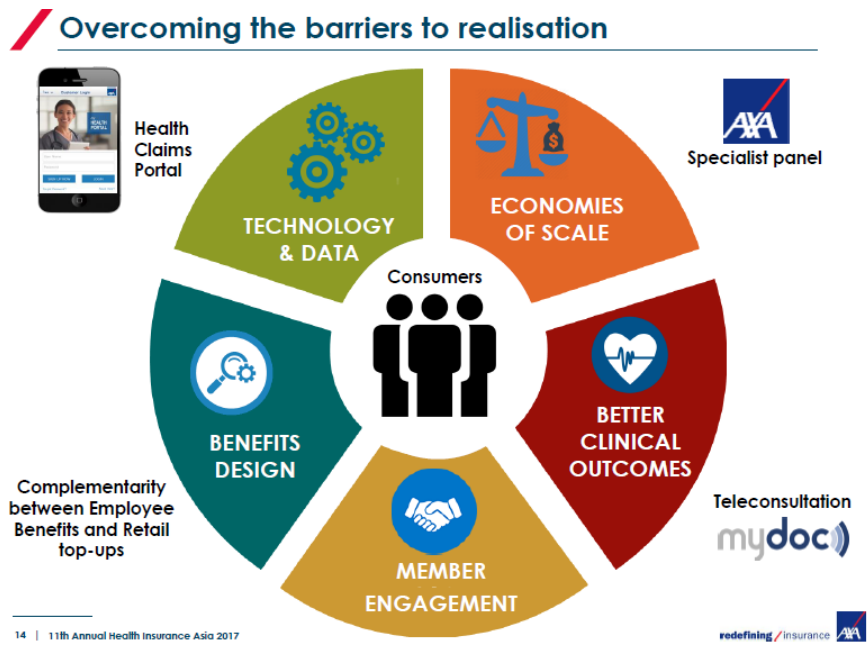
透過提供預防保健服務、強化醫療服務的合作關係及保險給付三方面的連結，幫助被保險人活得更健康、更長壽。

(2)克服醫療資訊不易瞭解的障礙：

保險公司透過遴聘專家小組，提供遠距醫療會診服務，運用科技及資訊，開發行動化 APP---mydoc，讓消費者無論何時或在何地，皆可直接利用行動化裝置如手機，與醫師進行線上實況會診諮詢：包括數位化健康檢查、電子化處方、互動平臺等。此創新作法，無論是在新加坡或是亞洲，AXA 都是第一家保險公司首創的。

(3)消費者互動平臺：

保險公司提供消費者免費的健康行動 APP，讓消費者透過 APP 的設計內容，提供個人化的健康諮詢及建議，使消費者可以擁有一個更為健康的生活型態。



圖三 AXA 集團創新服務模式

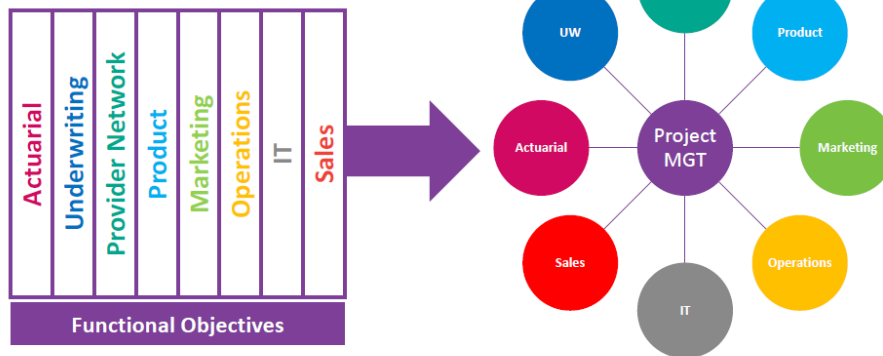
3. Kevin Jones, Aetna co. ltd.

Insurance innovation and what it means for you

保險業務創新性的三要項：消費者經驗(Customer Experience)、企業經營模式(Business Model)、大數據及人工智慧(Big Data and Artificial Intelligence)，而歷史悠久的企業(Aetna 集團)能夠創新，關鍵在於要建立一個創新的文化，包括：

- (1) 從消費者角度思考每件事
- (2) 允許每個人有不同的想法
- (3) 組織創新小組
- (4) 配合計分卡與誘因
- (5) 無論成功或失敗都給予肯定與慶賀

Innovation Lab - Singapore



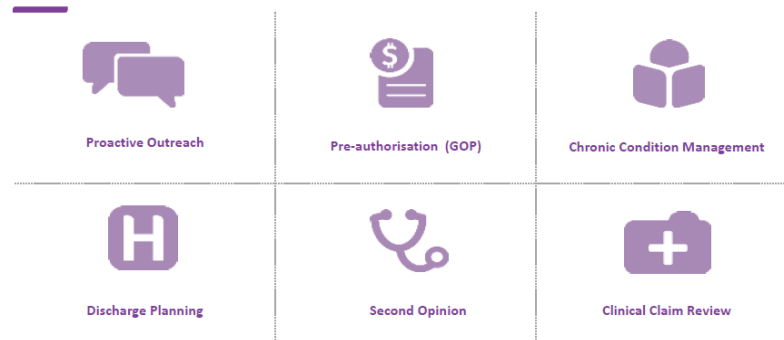
圖四 Aenta 創新服務目標與連結網絡

針對高漲的醫療費用，Aenta 的解決方案如下：

(1) 照護管理(Care Management)

包括：積極主動的宣傳與出擊、事前同意、慢性病管理、出院準備計畫、第二專業意見、申報資料的審查。

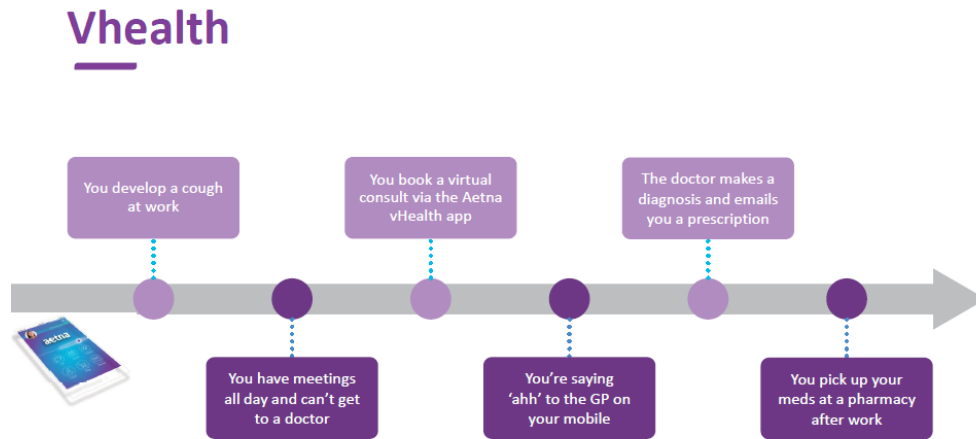
Care Management



(2) vHealth (Virtual Health)

開發 vHealth APP，保戶可透過行動化裝置如手機或平版電腦等，線

上直接與醫師進行諮詢與診療，醫師做成診斷並將處方 email 到保戶電子郵件信箱，保戶可直接到其就近的藥局拿藥。

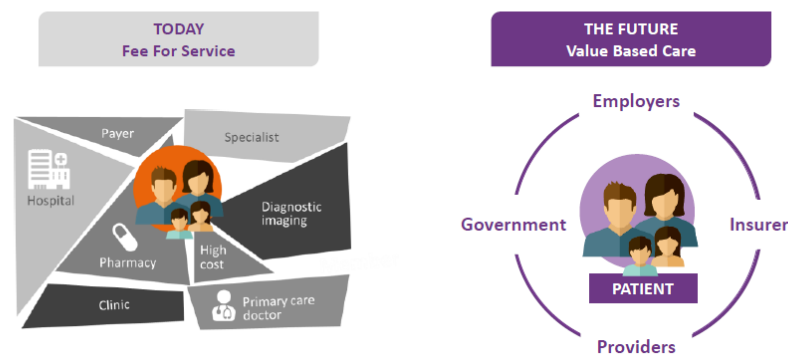


(3) Value-based Contracting

現行支付方式：論量計酬 (FFS)

未來支付方式：Value Based care

Value-based Contracting







四、心得與建議

透過本次與亞洲其他國家醫療政策的經驗交流，發現亞洲國家同樣面臨人口老化、新科技新療法、慢性病盛行率提高、經濟成長、民眾期待增加等因素，健康照護費用持續上漲問題，各國無不致力於：

- 醫療費用持續攀升，保費持續增加，整體醫療照護服務的關鍵之一在於民眾的可負擔性。
- 如何提出有效的策略來抗衡醫療費用的攀升，關鍵在於是否能提供對的資訊，對症下藥，解決問題。
- 透過資訊科技及大數據分析，將所需的資訊以共同的格式結構化，進行整合、分析後，產出簡單、易瞭且有用的資訊。
- 保險公司不再只是扮演保險給付的角色，而是需與醫師共同合作，研議支付費用調整。這其中，正確及透明的資訊，是扮演縮小醫師與保險公司差距的橋樑。
- 如何整合不同 stakeholders 的資訊，並且在共同的平臺上進行資訊分享，另一重要關鍵是個資保護的問題。在釋出分享資訊前，需事前取得民眾同意。
- 在制定醫療政策及決定是否給付新醫療科技時都應該基於病患的需要及納入病患的觀點。
- 大部分的亞洲國家都面臨人口老化的挑戰，未來不論在醫療政策、創新服務模式及醫療經濟議題上，各國(不論公部門或私部門)仍需要對未來的專業人才進行培育。

會議議程(第一天及第二天)

Main Conference Day 1			Main Conference Day 2		
Plenary Sessions for Asia Healthcare Week					
					
Joint Networking Cocktails					

◆ 11th Annual Health Insurance Asia 2017

08:00

Registration Opens

08:55

Welcome Address from IBC Asia and Speed Networking Session

09:00

Chair Opening Remarks

Thalia Georgiou, Founder, Asia Care Group

Asia Health Insurance Market Trends and Strategies

09:05

C Level Leaders Roundtable

A Strategic Review, and Debate on Health Insurance Market Trends, Challenges and Opportunities

- Regulation and compliance
- Growth segments and regions, and what strategies will work
- Technology, medical inflation and product innovation
- Outlook for premiums

Moderator:

Thalia Georgiou, Founder, Asia Care Group

Panellists:

Andre Czanik, Managing Director Health Insurance, **AXA Singapore**

Dr. Daniel Chan, Co-Founder, Group Deputy CEO, **Singapore Fullerton Healthcare Group**

Elaine Chan, Chief Health Officer, **Zurich Insurance Company**

Regional Trends and New Product Models

09:45

Taiwan's Government Update:

A Snapshot of Taiwan Health Insurance Market

- Overview of health care system in Taiwan
- Highlights of National Health Insurance (NHI)
- Developments
- Key features
- Achievements
- Innovations

Mrs. Yu-Hsuan Chang, Director of Planning Division, National Health Insurance Administration, **Ministry of Health and Welfare Taiwan**

10:15

Thailand Government Update:

Implementation of Healthcare Technology in Thailand

- Hard Infrastructure
- Standard and Interoperabilit
- National eHealth committee

A/Prof. Polawat Witoolkollachit, Director of Information and Communication Technology Centre, Office of the Permanent Secretary, **Ministry of Public Health**, Thailand

10:45

Morning Refreshment

An opportunity to meet fellow delegates in a structured networking session that guarantees you will make a few new contacts. Bring plenty of business cards.

11:15

Innovation Focus: The Current Health Insurance Proposition, and Why it Needs to Change

- What customers really want? Adding value in customers
- The innovation levers:
- Products & services

- Technology and data
- Economies of Scale
- Improvement of clinical outcomes
- Overcoming the barriers to realization

Andre Czanik, Managing Director Health Insurance, **AXA Singapore**

11:45

A digITal Strategy for Health Insurance

- Today's digital Health Insurance landscape
- Optimising the customer and partner experience
- Minimising operational and claim costs
- The Payer-to-Partner opportunity

James Stokoe, Commercial Director, **Activus**

12:15

Region's Case Study:

Implanting Innovation into the DNA of a Health Insurer

- Innovation and health insurance
- Building a culture of innovation
- Case study: Can a 160-year-old insurer innovate?

Kevin Jones, Country Manager Hong Kong, **Aetna International**

13:00

Networking Lunch and Opportunity to Meet Exhibitors

14:00

Overview of Health Insurance in Singapore

- Recent Developments in Health Insurance
- Health Insurance and Third Party Administrators
- The Report of the Health Insurance Task Force, 2016
- Where is Singapore market going?
- Digitization trends in Singapore

Chiang Yin Wong, Member of the **Health Insurance Taskforce (HITF)**, Council Member, **Singapore Medical Association (SMA)**

14:30

China Commercial Health Insurance Sector Updates

- Industry background
- State of the market
- New trends, new momentum

Hanson Li, Managing Director, **Huatone China Strategic Investment Solutions, Inc**

15:00

Afternoon Tea Break and Opportunity to Network

15:30

Where is Health Innovation Leading the Industry in Hong Kong?

- Trend of health innovation from product, distribution, awareness and efficiency perspectives
- Effectiveness and get prepare for options to go
- Government proposed "Voluntary Health Insurance Scheme" update
- Moving forward to becoming Asia's best healthcare system

Elaine Chan, Chief Health Officer, Zurich Insurance Company

16:00

Digital Health Trends and Implications for Health Insurance

- Harnessing InsurTech for better business models, products and customer experience
- Delivery Innovation
- Security Concerns – an ongoing hot issue
- Analytics – transforming data into meaningful and actionable insights

Ted Minkinow, Group Chief Information Officer and Chief Procurement Officer, Singapore Fullerton Healthcare Group

16:30

Health Insurance Premiums for the Uninsurable

- Strategies to enter uninsurable or under insurable markets
- How do we create intangible value for the end customer?
- How to make the product & community contribution a sustainable model in the long run
- Packages and business models for uninsurable segment

PAVITHRA KUMAR, Head of operations in Andhra Pradesh, Tata Trusts, India

17:10

End of Day 1

09:00

Chair Opening Remarks

Edward Booty, Founder and Managing Director, **Allied World Healthcare**

Analytics and Health Insurance

09:10

Healthcare Data Analytics and How we Successfully used it to Derive Valuable Insights

- Cost containment on medical expenses to achieve improved employee health
- True Case Study, programmes for one of their MNC clients
- Learning from deep medical expertise and powerful data analytics practices

Dr. Ramesh Rajentheran, Group Chief Financial & Operating Officer, **Singapore Fullerton Healthcare Group**

09:40

Using Data Analytics to Contain Group Premium Increases and Improve Employee Health

- Digitizing claims, health screening and lifestyle risks data
- Calculating health score for employees and firms
- Linking health scores to future premiums and reductions linked to health improvements

Grace Fong, VP, Distribution, **CXA Group**

Market Segment Insights

10:10

Health Insurance Product Design for Chronic Diseases

- Chronic disease burden on Health Insurance programs
- Importance of Medical UW in selecting cases with Chronic diseases
- What is the right approach? Separate Product for Chronic diseases or include in the larger risk pool?
- Product Innovations Ideas for health insurance for Chronic diseases

Nikhil Apte, Chief Product Officer, Product Factory Health Insurance, **Royal Sundaram General Insurance Co. Ltd**

10:40

Morning networking coffee

11:15

Global Partnerships for Travel Health Insurance Cover

- Current market drivers and upcoming trends

- What are the administrative challenges for brokers and insurers in serving the travel markets?
- Growth potential and products that are working

Armando Baez, Sr. Vice President - Asia/Pacific Region, **Global Benefits Group (GBG)**,
Indonesia

11:50

The secret recipe: Ingredients for a Successful Cross-Border Health Insurance Product

- Growth drivers for medical travel
- Cross-border health insurance needs & products
- Key success factors in cross-border health insurance

Laurent Pochat-Cottilloux, Global Head of Health Reinsurance Partnerships, **AXA**

12:30

Primary Healthcare Provider's Perspective:

Aged Illness and Chronic Disease in Asia

- Cost-effective Prevention and Control for Chronic Disease
- Hospital culture and system performance
- Patient-Centered Care: What its application status in Asia

Dr. Petro Trigo, Academic Director, Internal Medicine & Liver Disease Specialist, **Family Medical Practice Vietnam**

13:00

Networking Lunch and Opportunity to Meet Exhibitors

New Horizons in Health insurance

14:00

Industry Panel Discussion:

Collaboration between Payers and Providers to Add Value in Patient Care

- Understanding the drivers of change and how they impact your strategic and operational challenges
- What are the new models of collaboration emerge between payers and providers in Asia?
- Better care, greater value through partnership opportunities
- M&As and payer-provider partnerships in Asia and where is the market headed?

Moderator:

Hanson Li, Managing Director, **Huatone China Strategic Investment Solutions, Inc**

Panelists:

Dr. Petro Trigo, Academic Director, Internal Medicine & Liver Disease Specialist, **Family Medical Practice Vietnam**

Laurent Pochat-Cottilloux, Global Head of Health Reinsurance Partnerships, **AXA**

Armando Baez, Sr. Vice President - Asia/Pacific Region, **Global Benefits Group (GBG), Indonesia**

14:40

Managing the Medical Cost and its trends in Asia

- Medical product-solutions of need for quality and increasing need of saving
- Claim processing, accounting & liability governance to cut cost of medical claim
- Practice on risk management communications to policyholders

Jolee Crosby, Head of Medical Products, Costing and Ops Asia, **Swiss Re**

15:15

Afternoon Tea Break and Opportunity to Network

15:45

Wellness – bringing health tech closer to insurance”

- Changing health management approach: moving upstream
- Health technology in the Wellness journey
- Influencing individual behaviour

Edward Booty, Founder and Managing Director, **Allied World Healthcare**

16:30

End of Day 2

◆ 4th Annual Healthcare Facilities Asia 2017

09:00

Plenary Sessions at Asia Healthcare Summit

Plenary Chairman's Opening Remarks

Yoshihiro Suwa, Principal, Roland Berger

09:05

Panel Discussion:

Reviewing Market Opportunities and Emerging Trends in Healthcare in Asia Pacific

- An overview of the current and upcoming pipeline of healthcare projects in Southeast Asia
- How digital health technologies are improving facilities designs and patient care?
- Hospitals' perspectives on connected to digital healthcare – Where do you see the opportunities?
- Detailing the trends in healthcare facilities investment models and partnerships between different stakeholders
- Which sectors of the market are growing – a focus on primary care, health facilities and more

Moderator:

Yoshihiro Suwa, Principal, Roland Berger

Panellists:

Romeo Lledo, Vice Executive Chairman, Siloam Hospitals Group, Indonesia

Chik Wai Chiew, Chief Executive Officer, Heritas Capital Management, Singapore

Francis Cid, CEO and President, Central Luzon Doctors Hospital, The Philippines

Dhawal Jhamb, Investment Officer, International Finance Corporation, Singapore

Haji Abdul Aziz Rahman, Chief Executive Officer, KPJ Penang Specialist Hospital, Malaysia

Michael Fernandes, Partner, LeapFrog Investments, Singapore

Dr Shigemi Kitahara, President, Kitahara International Hospital, Japan

10:00

New Cybersecurity Approach in the Healthcare Industry

- A relook of cybersecurity definition, management dilemma (IT/OT convergence)
- Known cyber attacks and the trend
- Cyber resiliency in healthcare

Hoo Chuan Wei, Executive Security Advisor, IBM Security

10:30

Morning Refreshment and Speed Networking Session

An opportunity to meet fellow delegates in a structured networking session that guarantees you will make a few new contacts. Bring plenty of business cards.

11:15

Healthcare Facilities Conference commences – Chairman’s Opening Remarks

Ng Li Lian, Co-founder and Director, **Tetsuyu Home Care, Singapore**

Regional Update on Healthcare Investment Trends

11:20

Spotlight on Key Emerging Markets of South East Asia

- What the investors, regulators and asset owners are seeing in terms of market opportunities and how they are responding to the challenges
- How successful have the recent investment models been in responding to the strong demand and growth of the sector in these markets
- How providers are responding rising costs of delivering healthcare while managing growth

Focus: Emerging Asian Market

Hareesh Nair, Director, **Quadria Capital, Singapore**

Innovation in Healthcare Facility Design

11:45

A Case Study of a New Complex Care Hospital – State of the Art Facility Design

Adrian Metcalfe, Director, Facilities Operations and Maintenance, **Cleveland Clinic Abu Dhabi, UAE**

William Hood, Director, General Services, Operations, **Cleveland Clinic Abu Dhabi, UAE**

12:10

Cancer Treatment Centers – Exploring the Spectrum of Diagnosis and Treatment through Planning and Design Trends, Case Studies and the Patient Experience.

- How and Why Cancer Treatment Centers Need to be Different than a Hospital.
- The Patient and Family Experience.
- Planning and Design Metrics for High-Tech Treatment in Radiation Therapy Centers.
- Outpatient Cancer Clinics.
- Interior Environments that Integrate Hospitality/Spa+ Healthcare.
- Case Studies – Mayo Clinic, Samsung Medical Center, Thedacare

Michael Hess, Principal, Associate Vice President, **HGA Architects and Engineers**

Daniel Polachek, Principal, Vice President, **HGA Architects and Engineers**

12:35

Flexible/Adaptable Facilities Focus: Strategies for Designing a Truly Flexible Healthcare Facility in Asia

- Understanding the drivers for flexible facilities in Asia and the critical need to respond to the uncertainty in future needs
- Identifying the key areas where flexibility in design is needed from architecture, facility operation, and construction
- How creating flexible healthcare facilities has been achieved so far and where the trend is headed in the future

Yong Seow Kin, Director, **Facilities Development, Singapore Health Services, Singapore**

13:00

Networking Lunch and Opportunity to Meet Exhibitors

14:00

The Interactive Innovation Showcase

How Asian Developers are Building the Healthcare Facilities of the Future

This session will bring together a number of case studies and individual project showcases from the region, each featuring a new innovative approach to designing future-proof healthcare facilities. Each speaker will present for 20 minutes and presentations will be followed by a moderated Q&A session with the speakers.

Project Showcase

- **Beyond Healthcare: How Wellness is Incorporated into New Facilities**
Dr Christian Orejudos, Chief Operating Officer, **Yosemite Clinic, Shanghai, China**
- **Beyond Clinical Excellence: Designing Facilities for Experience, Comfort and Service**
Ho Whei Chern, Head of Corporate Communications, **Farrer Park Hospital, Singapore**
- **Keys to successfully planning and executing the operational commissioning in a high end clinic**
Brad Kellog, Director Consulting, **Houston Methodist Global Health Care Services, Dubai, UAE**

Focus: Facility Design Innovation

15:00

Afternoon Tea Break and Opportunity to Network

15:30

Meeting JCI's Facility Management and Safety Standards: A FV Hospital Vietnam Case Study

This case study will detail the process that one of Vietnam's modern hospitals has undergone to achieve JCI accreditation from a Facility Management point of view. The session will examine key aspects to FMS including safety, security, inspection and risk analysis. It will also touch upon issues like management of medical technology, utility and waste management as well as fire safety and staff education. FV's facility director will share the challenges they faced in achieving the accreditation and key lessons learnt.

Monojit Mitra, Facility Director, **Franco-Vietnamese Hospital, Vietnam**

Focus: Facility Management

16:00

Health Care Leadership – Beyond Everything, In Essence, A Human Service: Lessons From Aravind Eye Care, India

Dr. Aamir Shaikh, Founder, **Health Care Consultant, Assansa**

Design for Efficient Maintenance, Effective Facility Management and Safe Workplaces

16:30

Smart Design for Maintenance: How Effective Planning Helps Reduce Maintenance Cost and Downtime

- Effective design and planning principles that reduce maintenance costs and resources
- Working with facility and maintenance management functions to create design guidelines that maximise efficiency
- Applying Value Engineering (VE) to design to reduce total running costs including maintenance and energy

Focus: Maintenance and Facility Design

Manivel Periasamy, Director – Facilities Management, **American Hospital Dubai, UAE**

17:00

End of Day 1

09:00

Chairman's Opening Remarks

Adrian Metcalfe, Director, Facilities Operations and Maintenance, **Cleveland Clinic Abu Dhabi, UAE**

New Approaches to Healthcare Facility Development

09:10

Keynote

Through the Lens of the JCI: Designing and Building Safe Facilities for the Future

Health and well-being of patients and workers are intrinsically linked to the built environment. Developing and executing a healthcare facility's new or improved design establishes the basis for safe and effective care within that structure's walls. This requires resources, education, communication, and collaboration throughout the process, which encompasses planning, design, construction, and management. Led by the Joint Commission International, this session will feature its perspectives on standards and trends that are impacting healthcare facility design and build globally.

Joyce Chang, Director - Asia Pacific, **Joint Commission International**

Focus: JCI Update

09:40

Integrated Facility for Developing Markets: How Design Thinking is Enabling Adaptable Facility Design

- Understand cost and economic drivers for optimising facilities design in developing markets
- Integrating a sustainable urban development incorporating vibrant features that extend beyond healthcare to encompass a complete and holistic eco-system
- Using Lean tools and methods to "design out" waste from the start

Focus: Modular / Integrated Hospitals

Pue Kim Chong, Director - Infrastructure, Design & Innovation, **Tan Tock Seng Hospital, Singapore**

10:10

How Healthcare Facilities Benefit from Integrated Design Process

- With increasing complexity in hospital design & construction given vast number of stakeholders involved, risk exposure including budget & schedule overruns are higher.
- Utilizing new and innovative project delivery methods in recent years to mitigate risk by delivering project on-time and on budget.

- Illustrating how IDP helps to achieve the clinical & budgetary outcomes required in complex healthcare projects

Elmutaz Elrabaa, Principal, Director of Healthcare, Asia, **B+H Architects**

10:40

Morning Refreshments and Networking Break

11:15

Building a World Class Facility from the Ground-Up: The Story of Australia's Epworth Geelong

- Review of the strategic drivers behind the project and how this was presented during the business case stage
- How the complete patient experience has been integrated into the facilities design
- How the facility integrates clinical practices with education and research
- How innovative design principles were employed to ensure abundance of natural light, patient privacy and faster staff movements

Damian Armour, CEO, **Epworth Geelong Hospital, Australia**

Focus: Designing Modern Facilities

Learning From Specialist Healthcare Segments

11:45

Panel Discussion

The Age Question: How Asia's Healthcare Facilities are Responding to the Needs of an Aging Population

- A review of the impending trends in aging in Asia and what has been done so far to address the growing demand for
- How senior care is being developed in different parts of Asia and around the world
- How designers and planners are integrating the needs of senior citizens in the planning of new facilities
- How innovation in technology is changing the way care is provided for elderly people

Focus: Designing for an Aging Population

Moderator:

Pue Kim Chong, Director - Infrastructure, Design & Innovation, **Tan Tock Seng Hospital, Singapore**

Panelists:

Dr Ng Wai Chong, Chief of Clinical Affairs, **Tsao Foundation, Singapore**

Dr Tan Jit Seng, Director, **Lotus Eldercare Health Services, Singapore**

Prof Keng Hua Chong, Assistant Professor - Architecture and Sustainable Design,

Singapore University of Technology and Design, Singapore

Ng Li Lian, Co-founder and Director, Tetsuyu Home Care, Singapore

12:30

Healthcare for Exploring the Bright Future - Better healthcare with better price, and to expand it to the world

- Introduction of Kitahara group's concept "Better Healthcare with Affordable Price" and how this concept is spread globally.
- Case Studies of Kitahara International Hospital in Japan, and Sunrise Japan Hospital in Cambodia.
- Understanding "Healthcare Classification of STAGES": Healthcare supply system should be changed along with social development
- Stage 3 of "Healthcare Classification of STAGES", which should be the aim for better future
- Kitahara group's challenges; High quality healthcare as total life support and construction of healing facility

Dr Shigemi Kitahara, President, Kitahara International Hospital, Japan

13:00

Networking Lunch and Opportunity to Meet Exhibitors

14:00

Delegate-Led Roundtable Discussions

In these interactive sessions, the audience will be split into a few groups each addressing a key area within the industry. Each group will be tasked with addressing the key challenges faced within the chosen topic and come up with at least 3 recommendations / solutions to the challenges.

The Architects Roundtable: Latest Challenges, Sustainably Designing and Building Healthcare Facilities

Host: **Elmutaz Elrabaa**, Principal, Director of Healthcare, **Asia, B+H Architects**

Emerging Markets: Solutions to Challenges of Operating in Developing Markets

Host: **Hareesh Nair**, Director, **Quadria Capital, Singapore**

Nursing Homes, Community and Specialised Centres for the Elderly

Host: **Dr Tan Jit Seng**, Director, **Lotus Eldercare Health Services, Singapore**

Sharing Roundtable Outcomes

Representative from each table will share the challenged they identified and the solutions or recommendation they came up during discussions.

15:00

Afternoon Tea Break and Opportunity to Network

15:30

Case Study

How Maternity and Childcare Facilities Will Look Like in the Future

Globally, maternal and child health (MCH) are showing encouraging trends by declining in MMR and under-five child mortality rate. How will this impact mother and child care facility design? The customary hospital will be eliminated within the next 4-5 years with an increase of 'Daycare centres' and 'Birth centres' followed by no institutional antenatal check-up. Future healthcare design is to be driven by mobile apps, homecare, personalized care, hi-tech devices, telehealth, and robotic fruition. Join this session to understand the forces shaping this change and how this will impact you.

Dr M Zakirul Karim, Senior Adviser, Hanh Phuc International Hospital, Vietnam

16:00

Think Big; Build Small

Prof Hong Fung, Executive Director, CUHK Medical Centre, Hong Kong

16:30

End of Day 2

◆ Digital Healthcare 2017

09:00

Plenary Sessions at Asia Healthcare Summit

Plenary Chairman's Opening Remarks

Yoshihiro Suwa, Principal, Roland Berger

09:05

Panel Discussion:

Reviewing Market Opportunities and Emerging Trends in Healthcare in Asia Pacific

- An overview of the current and upcoming pipeline of healthcare projects in Southeast Asia
- How digital health technologies are improving facilities designs and patient care?
- Hospitals' perspectives on connected to digital healthcare – Where do you see the opportunities?
- Detailing the trends in healthcare facilities investment models and partnerships between different stakeholders
- Which sectors of the market are growing – a focus on primary care, health facilities and more

Moderator:

Yoshihiro Suwa, Principal, Roland Berger

Panellists:

Romeo Lledo, Vice Executive Chairman, Siloam Hospitals Group, Indonesia

Chik Wai Chiew, CEO/Executive Director, Heritas Capital Management, Singapore

Francis Cid, CEO and President, Central Luzon Doctors Hospital, The Philippines

Dhawal Jhamb, Investment Officer, International Finance Corporation, Singapore

Haji Abdul Aziz Rahman, Chief Executive Officer, KPJ Penang Specialist Hospital, Malaysia

Michael Fernandes, Partner, LeapFrog Investments, Singapore

Dr Shigemi Kitahara, President, Kitahara International Hospital, Japan

10:00

New Cybersecurity Approach in the Healthcare Industry

- A relook of cybersecurity definition, management dilemma (IT/OT convergence)
- Known cyber attacks and the trend
- Cyber resiliency in healthcare

Hoo Chuan Wei, Executive Security Advisor, IBM Security

10:30

Morning Refreshment and Speed Networking Session

An opportunity to meet fellow delegates in a structured networking session that guarantees you will make a few new contacts. Bring plenty of business cards.

11:15

Digital Healthcare Conference Commences

Chairman's Opening Remarks

Dr. Ravinder Singh Sachdev, Head, Innovation, **Institute of Geriatrics & Active Ageing**, Deputy Chief Medical Informatics Officer, **Tan Tock Seng Hospital**

Government Initiatives and Incentives

11:20

Digital Transformation in Healthcare: Malaysia Perspective

Dr Fazilah bt Shaik Allaudin, Director, Telehealth Division, **Ministry of Health**, Malaysia

11:55

Thailand's Digital Healthcare Strategy

- What is Thailand's E-Health Strategy
- Health Information Exchange (HIE) and how Thailand plans to adapt it to its policy
 - Thailand Digital Economy and Digital government policy in Health Sector
 - What's going on?

Asst. Prof Polawat Witoolkollachit, Director of Information and Communication Technology Centre, **Office of the Permanent Secretary, Ministry of Public Health**, Thailand

12:30

Cost Control and Resource Optimisation

Introducing "LITTLE DATA" - Reducing Healthcare Costs Significantly

- Data, Decision Support, Diagnostics" – The cure is irrelevant if the diagnosis is wrong. So how can technology help to provide diagnosis with better accuracy?
- How can we significantly reduce cost via a common sense approach that can potentially result in "better outcomes"
- Untethering the patient from an institution dramatically reduces the cost in healthcare. A novel service model is built with a combination of disposable wireless data collection devices with private/public cloud based algorithms that reduce cost by removing significant number of transactions.

Ravinder Sajwan, CEO, Board Member, **Renew Group Private Limited**, Singapore

13:00

Networking Lunch and Opportunity to Meet Exhibitors

Digital Health Implementation Projects

14:00

Case Study: Kick Starting your Digital Healthcare Strategy

- Key challenges faced during the transformation of a traditional hospital to a digitized hospital
- What are the necessary changes to be made during the digital revolution
- New business models to embrace digital healthcare

Dr Mubbashir Iftikhar, Digital Transformation Incharge, **KPJ Healthcare**, Malaysia

14:30

Case Study: Combining Personalized Health Records and Electronic Medical Records with Big data and Predictive Analytics

- PHR and EHR applications
- How can we utilize them into personalizing patient's healthcare?
- How can we improve the prediction ability of clinical risk management with the use of big data and predictive analytics
- Key Challenges of the Implementation of IT and what is the prospective future of precision healthcare in the digital space

Dr Hou-Chang Chen, Director, International Health Office, **Tao Yuan General Hospital**, Taiwan

15:00

Afternoon Networking Break

15:30

Case Study: Mobility a Good Medicine for Sir Ganga Ram Hospital's Out Patient Department (OPD)

- Complexity of managing the OPD in one of India's busiest hospitals, which handles more than 2000 patients every day.
- How does mobility & IOT act as a pill for this complexity?
- Acquiring structured patient information for quality healthcare and continuum of care
- Cost effective innovation specific to the domestic environment.

Niranjan K Ramakrishnan, CIO-IT, **Sir Ganga Ram Hospital**, New Delhi, India

Improving Patient Outcomes Through Digital Health

16:00

Case Study: Development of Healthcare in the Digital Space

- What are some of the myths and realities of Digital healthcare?
- Transition of Patient from being passive healthcare reception to active value seeking consumers
- Hospital of tomorrow – What is Manipal Hospital's future plan for healthcare in the digital space

Gaurav Rekhi, Managing Director and CEO, **Manipal Hospital**, Malaysia

16:30

Critical Health IT Considerations: Workflow & Data Integrity

- Key areas of concern when managing electronic health records post implementation
- How does compromised data leads to an adverse events?
- Would buying an off-the-shelf system supports your clinical workflow needs?
- What are lessons learnt?
- Some recommendations for organizations to ponder in expanding their risk management strategy

Eric Woo, Regional Director, **ECRI Institute**

17:00

Constructing a Dialysis Patient-Centred Information Management System

- Time is Wealth: How Nursing Informatics System (NIS) helps in the convenience of the nurses, where nurses collectively save 220 minutes per shift
- Solving quality issues from poorly done paperwork by going paperless with effective electronic patients records – Rate of incomplete documentation has a tremendous drop from 34.1% to 8.3%
- How can human error be prevented with the use of technology

Tzu-Chuan Hsu, Vice President for Nursing, **Taiwan Adventist Hospital**

Hsiu-Yen Huang, Head of Nursing Quality and Informatics, **Taiwan Adventist Hospital**

17:30

End of Day 1

09:00

Chairman's Opening Remarks

Jonathan Geach, APAC Director, **Allied World Healthcare**

Innovation and Collaboration Modes

09:05

Unlocking the Innovation Potential of your Organization to Optimize Digital Healthcare Solutions

- Why is innovation important in healthcare?
- Successes of innovation in healthcare that have allowed digital solutions to impact healthcare experiences
- Typical challenges healthcare organization face in fostering innovation and experimenting with new solutions
- Approaches that can help to unlock the innovation potential of your healthcare organization

Tamsin Greulich-Smith, Chief, Smart Health Leadership Centre – Institute of Systems Science, **National University of Singapore (NUS)**

09:35

Rethinking Digital Transformation of Emerging Markets Healthcare

- What new approaches are needed?
- Is there a need for new technologies?
- How do we redesign systems for emerging markets obstacles?
- How should healthcare business models evolve for positive Return On Investments (ROI) of digital health technologies

Edward Booty, Founder and Managing Director, **Allied World Healthcare**

Jim Poole, Chief Technology Officer, **Allied World Healthcare**

Integrating Technology, Patients and Doctors

10:15

The Doctor-Patient Relationship - The Pivotal Moment When All Technologies Created For Healthcare Converge

- The amount of tasks is ever increasing for doctors and this crowds out the patient-centred care that many healthcare systems profess to focus on.
- It's important to bring the tech world back to the clinical setting that is often ignored in the quest to transform practices in the digital era.

- Why it's crucial the fad in technology from AI to IoT or telemedicine must focus on enhancing human interaction, not replace it.
- The role of Internet of Medical Things in Asia

Dr Benjamin Cheah Tien Eang, Consultant Physician and Rheumatologist, **Pantai Hospital Kuala Lumpur** and Clinical Associate Professor, **International Medical University (IMU)** and Deputy Medical Director, **IMU Healthcare**, Lead, **Hacking Health KL Chapter**

10:40

Morning Refreshments and Networking Break

11:15

Woodlands Integrated Health Campus 2022

- Plans and strategies to reach 2022
- Technologies involved in improving patient care
- Investment considerations

Dr. Stephen Chan, Chief Medical Informatics Officer and Head of Department of Quality and Innovation, **Woodlands Health Campus**, Singapore

11:45

The Integration of Technology in a High End Clinic to Move from Sickness to Wellness

- How to add wellness navigators as members of the care team
- Using and leveraging wearables and sensors to connect with patients
- How can we utilize multimodal communication strategies to engage patients

Brad Kellogg, Director Consulting Services, **Houston Methodist Global Health Care Services**, Dubai, UAE

12:10

Remote Monitoring for Chronic Diseases: An Idea whose Time has Come

- Chronic diseases/non-communicable diseases pose an immense burden on both healthcare providers and sufferers from these illnesses
- How can we improve outcomes with regular home-based monitoring with the guidance of the treating physicians?
- Understanding the importance of clinical decisions being embedded into the workflow of patient management to improve patient outcomes
- Showcase of efforts around remote monitoring of persons with diabetes and chronic kidney disease being undertaken in India
- Overview of a national level effort in establishing a clinical outcomes registry

Dr Oommen John, Senior Research Fellow, The George Institute for Global Health India, President, **Indian Association for Medical Informatics**

12:35

Strategic Innovation in e-Health: The New Eco-System that is Redefining Healthcare

- What is the aim and strategy? How can convergence of healthcare and technology enable efficient and seamless healthcare management?
- New Emerging care models for improved accessibility, affordability and availability
- Key challenges involved during the adoption
- Key stakeholders' management in better execution

Dr Chee Piau Wong, Founder, **Telemedicine Development Group**, Lead, **Telemedicine Research Cluster**, Associate Professor, **Monash University Malaysia**

13:00

Networking Lunch

14:00

Embracing Digital Trends in the Healthcare Sector

- Brief overview of some key digital trends.
- Context is everything: Why simply developing a 'digital' solution is not enough - how and how much can digital technology impact on real health issues for patients.
- Organisational aspects of developing and implementing digital solutions - skills and expertise requirements such as innovation and digitalisation.
- How do we measure the value of digital technology? Some issues and considerations.

Joe Caputo, Executive Director - MSc in Management of Health Industries Programme, Associate Director, **ESSEC Institute of Health Economics and Management**

14:30

Medical Doctor's Perspective of Digital Healthcare

- On-the-ground clinical experience of junior physicians and overview of promising solutions from technology
- Real-world constraints occupying the gulf between existing technologies and practical application
- The promise of AI marred by the elephant in the room?
- The importance of inclusiveness and considering safety in today's rapid progress

Dinesh Visva Gunasekeran, Medical Doctor, **Singapore Public Sector**, Singapore

15:00

Afternoon Coffee

15:30

Case Study: Implementing Cancer Surveillance Informatics in Sri Lanka

- The project
- Data collection procedure

- Strengthening Cancer Registry Data Accuracy, Completeness and Timeliness

Kamal Seneviratne, Medical Officer - Health Informatics, National Cancer Control Programme, **Ministry of Health, Nutrition and Indigenous Medicine**, Sri Lanka

16:00

Case Study: SMART Homes – Allowing Senior Citizens to Age in Place

- What are the typical health conditions that the ageing population is facing
- How can allowing senior citizens to age at home benefit hospitals and healthcare providers
- What kind of technologies are involved
- What is the next step that we can do from here

Dr Tan Hwee Pink, Academic Director, **TCS-SMU iCity Lab**, Associate Professor of Information Systems (Practice), **Singapore Management University**

16:30

Panel Discussion: Meeting the Demands of a Disrupted Healthcare Industry

- The increasing demand for healthcare services, and how innovation is meeting the challenges
- What collaboration models are working in the sector to enable combat digitisation
- Translating the tech disruption into better patient access and service provision
- Improving Clinical and financial outcomes

Moderator:

Hailey Hu, Investor, **B Capital Group**

Panellists:

Dr Mubbashir Iftikhar, Digital Transformation Incharge, **KPJ Healthcare**, Malaysia

Dr. Arun Kumar, Senior Director, **Manipal Hospital**, Malaysia


James Woo, CIO, **Farrer Park Hospital**, Singapore

Dr. Ravinder Singh Sachdev, Head, Innovation, **Institute of Geriatrics & Active Ageing**, Deputy Chief Medical Informatics Officer, **Tan Tock Seng Hospital**

17:10

End of Day 2

A Snapshot of Taiwan's Health Insurance System



CHANG, YU-HSUAN
National Health Insurance Administration,
Ministry of Health and Welfare
TAIWAN

2017.5.24-25 11th ANNUAL HEALTH INSURANCE ASIA

Outline

- Overview of health care system in Taiwan
- Highlights of National Health Insurance
- Key Features
- Developments
- Achievements
- Innovations

Outline


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Where is Taiwan?

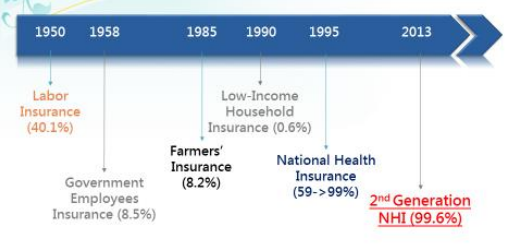


Profile of Taiwan (2015)

Population	23.49 million
Land area	36,193km ²
Ageing (Over 65)	12.5%
GDP per capita	US\$ 22,294 (nominal) US\$ 46,800 (PPP, est. from CIA)
Crude birth rate (2014)	9.00 ‰
Crude death rate (2014)	7.00 ‰
Infant mortality	4.1 ‰
Maternal mortality	11.7 0/1000
NHE to GDP (2014)	6.2%
Life expectancy(2014)	83.2 (F) / 76.7(M)



History of Taiwan's Social Insurance Program



Timeline events:

- 1950: Labor Insurance (40.1%)
- 1958: Government Employees Insurance (8.5%)
- 1985: Farmers' Insurance (8.2%)
- 1990: Low-Income Household Insurance (0.6%)
- 1995: National Health Insurance (59->99%)
- 2013: 2nd Generation NHI (99.6%)

Rationale for Policy Formulation

- Constitutional Direction of the National Health Insurance
- Article 155: the state shall establish a system of social insurance to promote social welfare
- Article 9 of the amendment adopted in 1994: The State shall implement national health insurance program....

Goals of the NHI

- To provide universal coverage for the whole population to promote their health.
- To remove the financial barrier for accessing medical services.
- To control health care expenditure within a reasonable level.
- To utilize health care resources efficiently.

Outline

- Overview of health care system in Taiwan
- Highlights of National Health Insurance
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- Developments
- Achievements
- Innovations

10

Before 1995

After 1995



The NHI gives hope to the survival of premature babies

11

NHI Framework



12

Taiwan's Healthcare Delivery System

- Dominated by the private sector
- A closed-staff medical structure for hospitals
- No gate-keeper system
- High volume of hospital OPD services
- No waiting list as defined in western countries



Data 2015

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Outline

- Overview of health care system in Taiwan
- Highlights of National Health Insurance
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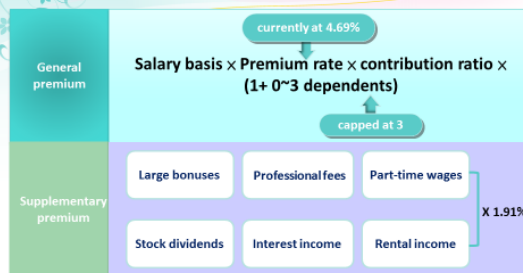
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NHI Key Features

Coverage	Compulsory enrollment for all citizens and legal residents (99.9% of the population is covered by the NHI)
Administration	Single-payer system run by the government
Financing	Premiums
Benefits	Uniform package, copayment required
Providers	Contract-based 93.03% of healthcare providers contracted with NHI
Payment	Plural payment programs under the global budget payment systems
Privileges	Premium subsidies and copayment waivers for the disadvantaged

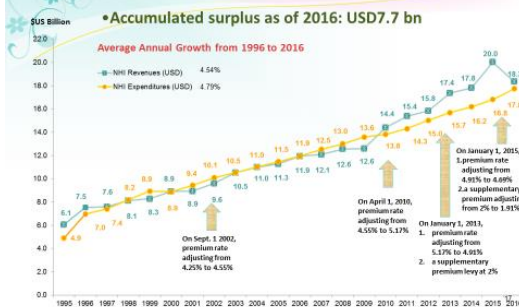
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Premium Collection



16

Trend of NHI Financial Status



17

Benefits

Disease Injury Maternity care

- Inpatient care
- Outpatient care
- Prescription drugs
- Dental services (orthodontics, prothodontics excluded)
- Traditional Chinese medicine
- Day care for the mentally ill
- Home nursing care

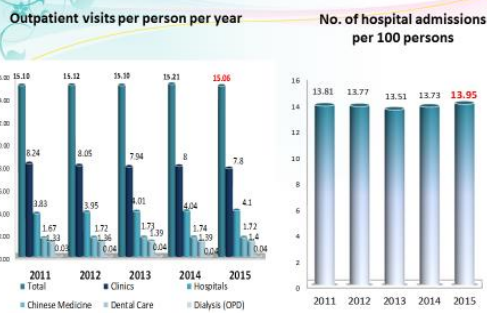
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Outline

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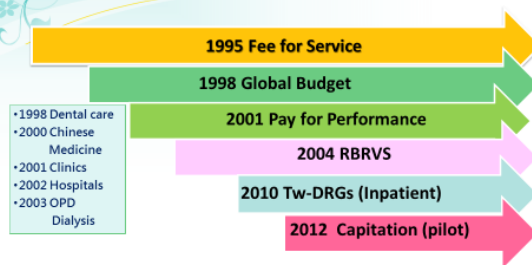
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NHI Medical Utilization



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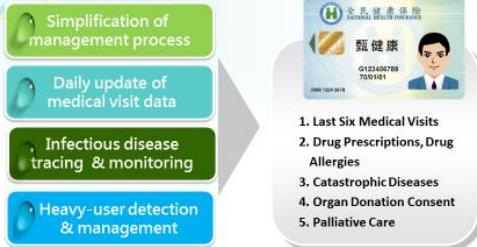
NHI Payment Systems



- 1998 Dental care
- 2000 Chinese Medicine
- 2001 Clinics
- 2002 Hospitals
- 2003 OPD Dialysis

21

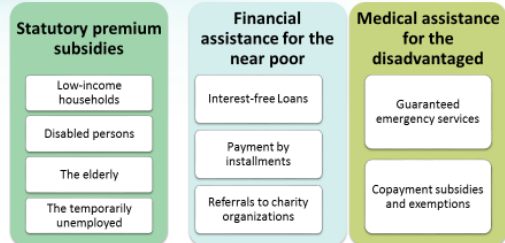
NHI Card



22

Assistance for the Disadvantaged

2016 Full unlocking of NHI card Policy



23

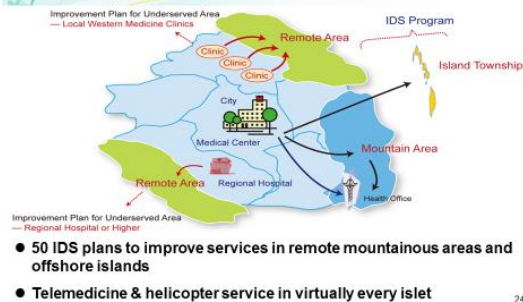
Alleviating Financial Burdens

Patients with catastrophic diseases represent 3.86% of population, who used 27.29% of NHI health expenditures.

Type of User	Medical Expenses (2015)	Equivalency
Per capita	NT\$26,820	1.0
Per catastrophic disease	NT\$185,903	6.9
Per cancer patient	NT\$141,615	5.3
Per rare diseases patient	NT\$555,801	20.7
Per dialysis patient	NT\$591,160	22.0
Per patient on respirator	NT\$732,813	27.3
Per hemophilia patient	NT\$3,200,158	119.3

25

Care that Reaches out to Every Corner



24

Alleviating Financial Burdens

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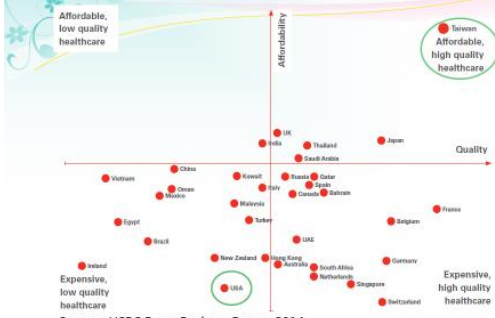
Outline

Overview of health care system in Taiwan

- Highlights of National Health Insurance
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26

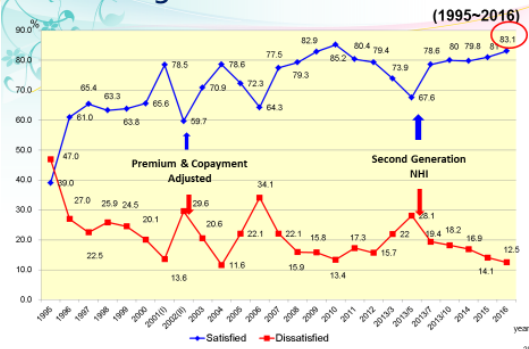
Affordable Cost



Source : HSBC Expat Explorer Report 2014

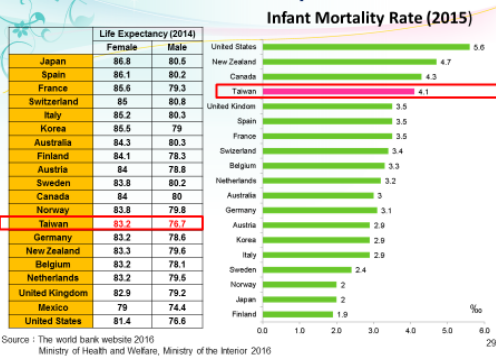
27

High Public Satisfaction



28

International Comparison



Source : The world bank website 2016
Ministry of Health and Welfare, Ministry of the Interior 2016

29

Quality of Care

Five-year Survival Rates for Cancer Patients

	Colon Cancer	Cervical Cancer	Breast Cancer
Taiwan(2005-2010)	60.2	73.2	85.9
United States(2004-2010)	64.0	67.9	89.2
Germany(2007-2012)	64.3	64.5	85.0
United Kingdom(2007-2012)	54.5	60.9	82.0

Source :
1.National Cancer Institute <http://surveillance.cancer.gov/statistics/types/survival.html>
2.Health at a Glance : Europe 2014
3.National Health Insurance Administration

30

Quality of Care

Organ Transplant Survival Rates

	Taiwan No. of Cases (2003-2012)	12-month Survival Rate		36-month Survival Rate		60-month Survival Rate				
		Taiwan (2003-2012)	US(1991-2012) deceased living	Taiwan (2003-2012)	US(1991-2012) deceased living	Taiwan (2003-2012)	US(1991-2012) deceased living			
Kidney graft	2,728	96%	97%	99%	94%	92%	97%	91%	87%	93%
Liver graft	3,017	86%	87%	82%	82%	77%	81%	79%	71%	73%
Heart graft	764	78%	90%	70%	82%	65%	75%			

Source :
1.UNOS <http://www.unos.org/index.php>
2. National Health Insurance Administration

31

NHI Established a Secured Health Care Achievements

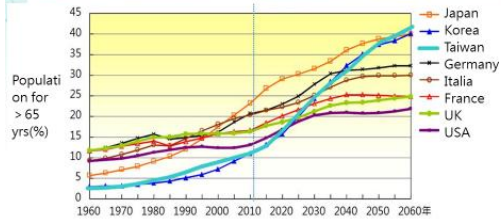


32

Outline

- Overview of health care system in Taiwan
- Highlights of National Health Insurance
- Key Features
- Developments
- Achievements
- Innovations

Population Ageing in Developed Countries



Taiwan is set on a path to surpass Japan as Asia's fastest aging nation.
~by Societe Generale (CNBC, 2015/1/22)

33

34

Growing Medical Expenditures

Factors contributing to the growth of medical expenditures

Intrinsic

- Easy access to the healthcare system resulting in high consultation visits to doctors

Extrinsic

- Aging population
- Increasing chronic diseases
- Inclusion of new drugs and technologies



35

Expenditures on New Technology and New Drugs



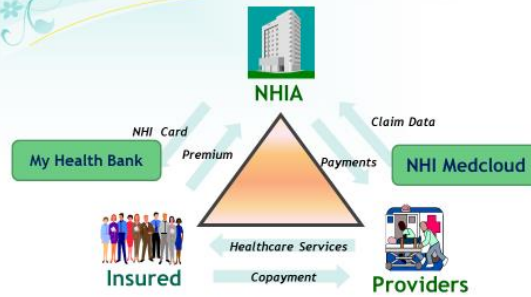
36

Government Role in Information Management



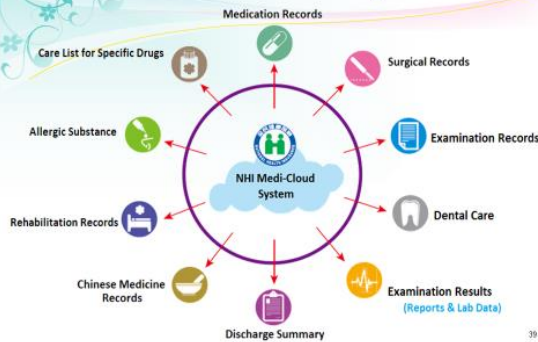
37

Healthcare Innovation



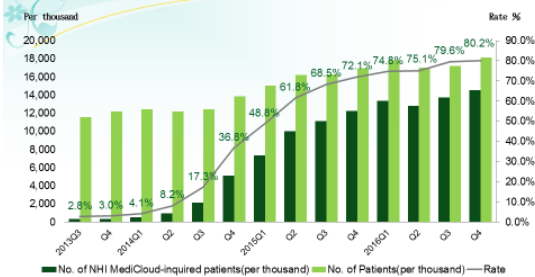
38

NHI MedCloud System

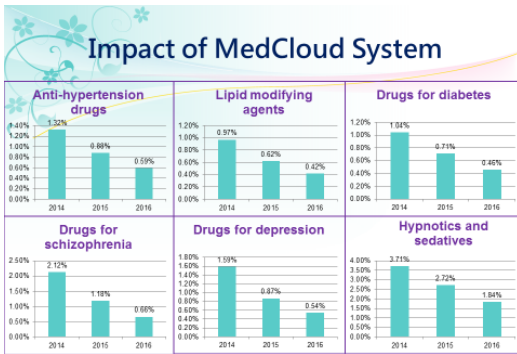


39

Utilization Rate of NHI MedCloud System



40



My Health Bank

My Data, My Decision

My Health Bank system was established in 2014 and added newly functions in 2016 :

- 3 Years of medical data
- Health information is displayed in the form of diagrams to enhance readability
- Provide educational guidelines
- Simpler access
- Certain disease prognosis and evaluation

APP of My Health Bank

OPEN DATA - 2015 Taiwan No. 1

Global Open Data Taiwan

	2014	2015
Open Data Index	11	1
Government Budget	22	1
Government Spending	15	8
Election Results	51	1
Company Register	5	1
National Map	20	1
National Statistics	60	1
Legislation	12	1
Location datasets	10	49
Pollutant Emissions	6	1
Procurement tenders	1	1
Weather Forecast	n/a	7
Water Quality		1
Land Ownership		53

Rank	Place
1	Taiwan (78%)
2	Unite Kingdom (76%)
3	Denmark (70%)
4	Colombia (68%)
5	Finland, Australia(67%)
7	Uruguay (66%)
8	United States, Netherlands (64%)
10	Norway, France (63%)

Other Major Asian Countries

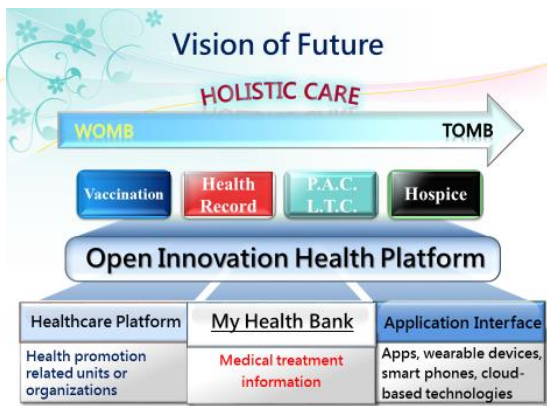
23	Singapore, Korea (50%)
31	Japan (46%)
37	Hong Kong (42%)
78	Philippines (25%)
93	China (18%)

NHIA OPEN DATA Platform

- 6 categories: quality of care, medical devises, medical service management, statistics, enrollment, others
- 401 items of data

<http://data.nhi.gov.tw/>

Public developed APPs by using NHI open data



照片



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