Deconstructing Healthcare Delivery

- The Malaysia Experience

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New methods of healthcare delivery relevant to the Malaysia system

Future trends and the role of technology



The demand for it (healthcare) is not only potentially unlimited; it is also by nature not capable of being limited in a precise and intelligible way.



Enoch Powell Health Minister, UK 1960-63



Outline

- Malaysian Healthcare Scenario
- 2. Present System of Healthcare Delivery
- 3. Mind-set shift disease v. wellness
 - treatment v. prevention
 - patient v. person
- 4. Role of Technology in Personalized Healthcare
- 5. Future Trends
 - technology and the physician
 - consumerization
 - role of provider institutions



Malaysian Healthcare Scenario

- Total Expenditure in Health 4.4% GDP (2010), 7% (2020)
- Amount RM 31 Billion (USD 10 Billion) p.a.
- 180,000 jobs in 2020
- Private: Public Spending 3:2
 - Integration
- 19% Malaysians with Health Insurance
 - Uneven distribution



Present System

Govt Clinic Govt Hospital

PATIENT

Private Clinic Private Hospital



1 Care

Assigned **Patient** GP/PCD & Family Refer to Hospital



Present System of Healthcare Delivery

- Developed over years
- Patient and Physician centric
- Increasing complexities
 - Medical issues
 - Resource issues gatekeeper concept
 - Logistic issues
 - Reimbursement issues
 - Administrative issues
- Friction of patient-physician interaction
- Inefficiencies perceived and real

















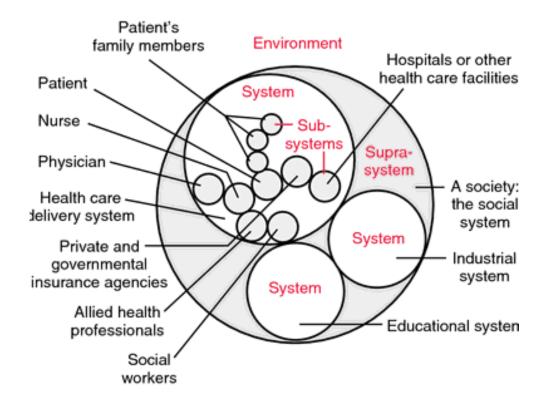
"Enough acupunctureget me a couple of aspirin."





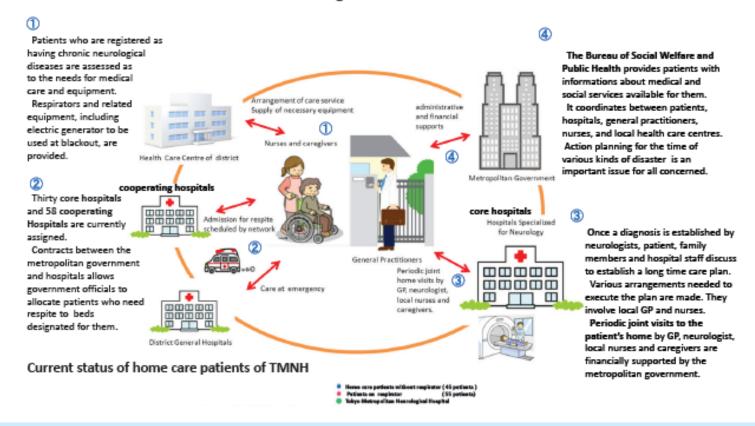


"It's a postcard from your doctor. He says he'll be right with you."





What is Medical Care Network for Chronic Neurological Diseases



Medical Care Network for Chronic Neurological Diseases in Tokyo Metropolitan Area

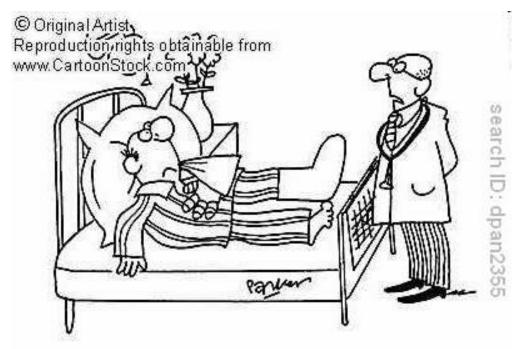


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Managing Costs and Expectations



"BAD NEWS, MISTER HOGWHITE - YOUR HOSPITAL PLAN HAS TAKEN A TURN FOR THE WORSE."



Miraculously you're still alive but when you get the hospital bill you're gunna wish you were dead.

Healthcare - the need to deconstruct

'You have to ... strip down all things we do in hotels and go and ask why. Why do we do that? Why do we play The girl form Ipanema when no one in the bar is over the age of 40?'

Andrew Cosslett CEO, Intercontinental Hotel Group, 2007

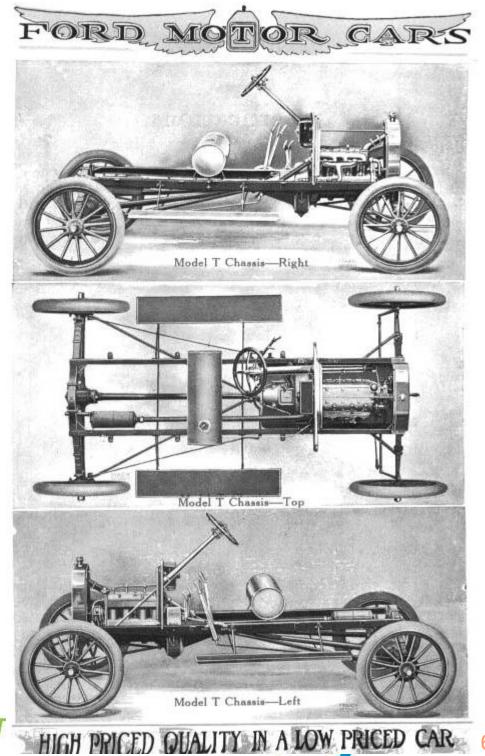


Ford Model T 1910



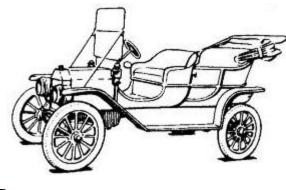


Ford Model T Engine 1908-1941



Tesla Model S 2013











Mind-set Shift

- Disease v. Wellness
- Treatment v. Prevention
- Patient v. Person



Role of Technology

 Healthcare technology is on the cusp of (a) breakthrough... We have seen great innovation already but it's only the beginning

Maria Bartiromo, CNBC, LinkedIn 2013



Role of Technology

- Great interaction of Healthcare and Technology
- 'these two worlds are colliding'

Nick van Terheyden, CMIO, Nuance

- Value-based care:
 - quality
 - efficiency
 - outcomes



Role of Technology

 'Digital revolution will deconstruct how healthcare is delivered.'

Dr. Eric Topol, The Creative Destruction of Medicine, 2011

- Aims
 - improve health
 - diminish chance to develop preventable disease
 - minimize consequence of diseases
- Personalized health care digital platform

Dr. Ralph Snyderman, Huffington Post, 2013



Technology - Medical

- Screening radiology, breath analysis, genetics
- Diagnostic
- Therapeutics
- Operations and interventions





Technology - Support and Allied Fields

- Monitoring
 - health record tracking
- Data collection and storage
- Communication feedback and dissemination
 - healthcare professional
 - caregiving coordination system
 - medication support system
 - patient management system
- Chronic diseases and the aging population



Technology - Devices and Systems

- Patient hand-held devices
 - smart phones
 - e-tablets
- Physician computerization, digital technology
- Storage
 - cyberspace
 - cloud computing
- Systems
 - telemedicine
 - teleradiology
 - telepathology



360-degree service orientation

Patient management from start to finish





"Health care is poised to be revolutionized by two forces - technology and consumerism."

The Creative Destruction of Medicine: How the Digital Revolution Will Create Better Health Care (Eric Topol)

"One-size-fits-all medicine will soon be overtaken by highly personalized, customized solutions that are enabled by breakthroughs in genomics and mobile devices and propelled by empowered consumers looking to live longer, healthier lives. Fasten your seat belts and get ready for the ride—and learn what steps you can take to begin to take control of your health."

Steve Case, co-founder, AOL, and founder of Revolution LLC

















Some Future Trends

- Technology and the physician
 - Buy-in into different layers of practice environment
- Consumerization
 - Patients have control and actively engage in their own health and well-being
- Role of Provider Institutions
 - concept of hospital
 - adoption of technology
 - virtual v. real patients
 - virtual v. real providers



Healthcare and Technology - Challenges

- Acceptance
 - Physician
 - Institution
 - Payers
- Costs
- Timeline
 - 13 years to take a new healthcare innovation to its establishment as standard of care

(Delos Cosgrove, CEO and President, Cleveland Clinic)

Implementation - inter and intra-system diversity







Conclusions

- Change in landscape of healthcare delivery is inevitable
- Change will encompass deconstructing existing models
 - back to essentials
- New priorities
- Prominent role of technology digital
- Set up ecosystems that embrace new methods of healthcare delivery - cost effective
- Preserve human connection



Thank you



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Bringing Healthcare 2 U









