

BUILDING A NATIONAL ELECTRONIC MEDICAL RECORD EXCHANGE SYSTEM-- EXPERIENCES IN TAIWAN

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Where is Taiwan?



Taiwan -2014

- Land area : 36,192 sq Km (13,975 sq mile)
- Population : 23 million
- Age over 65 : 11.0%
- GDP : US\$ 20,925 per capita
- National Health Expenditure : US\$ 1,087 per capita
- NHE in GDP : 6.6 %
- Life expectancy : 79.51, 76.2 (M), 83.0 (W)





Major Features of NHI in Taiwah

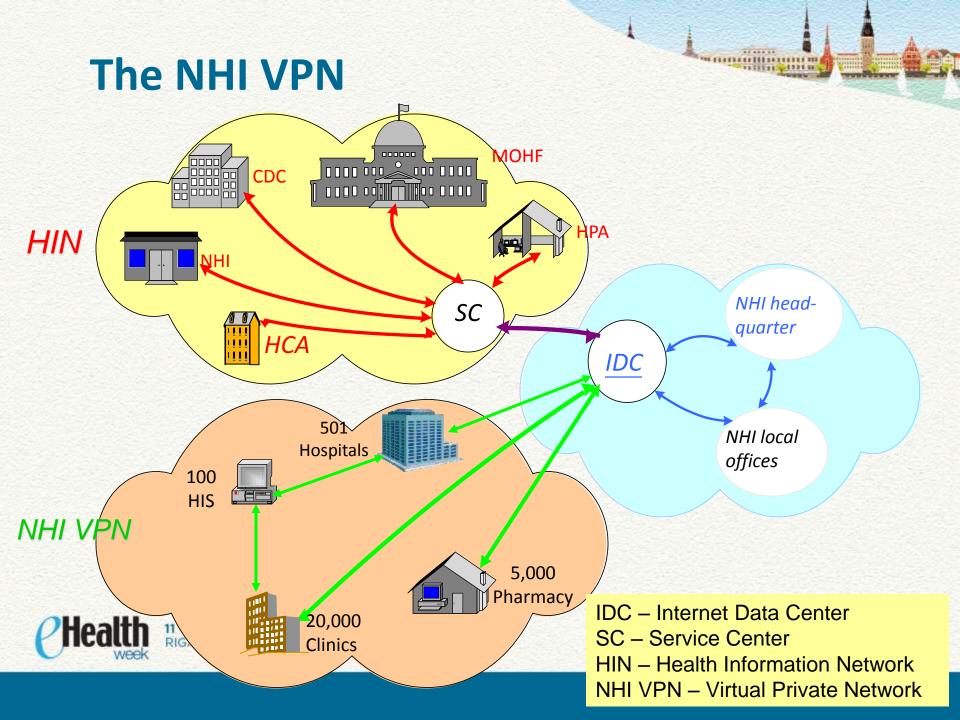
- Single Payer
- Universal coverage
- Comprehensive and uniform benefits
- Unlimited freedom of choice (No gatekeeper)
- Easy access and timely service
- Acceptable quality of care
- Affordable cost
- High public satisfaction
- Health IT adoption



Heath IT Adoption in Taiwan

- Health Information Network (HIN)
 - Initiated in 1988
 - Three regional network centers across Taiwan connected with frame-relay to DOH
 - Only major public hospitals were connected
 - Was not fully functional
- Health Information Network 2.0 (HIN 2.0)
 - Since 1998
 - Three regional network centers across Taiwan connected with ATM to DOH
 - Most of the public hospitals and more than 300 local health offices connected to HIN 2.0 using 64K ~ T1 connections
 - Supports electronic claim submission and other health administration functions
- National Health Informatics Project (NHIP)
 - Since 2008
- Taiwan Health Cloud
 - Since 2013



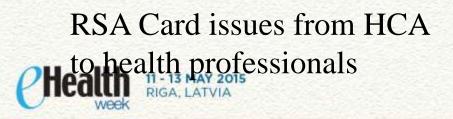


Health Smart Card





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non-RSA Card for all citizens

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Dual-card System

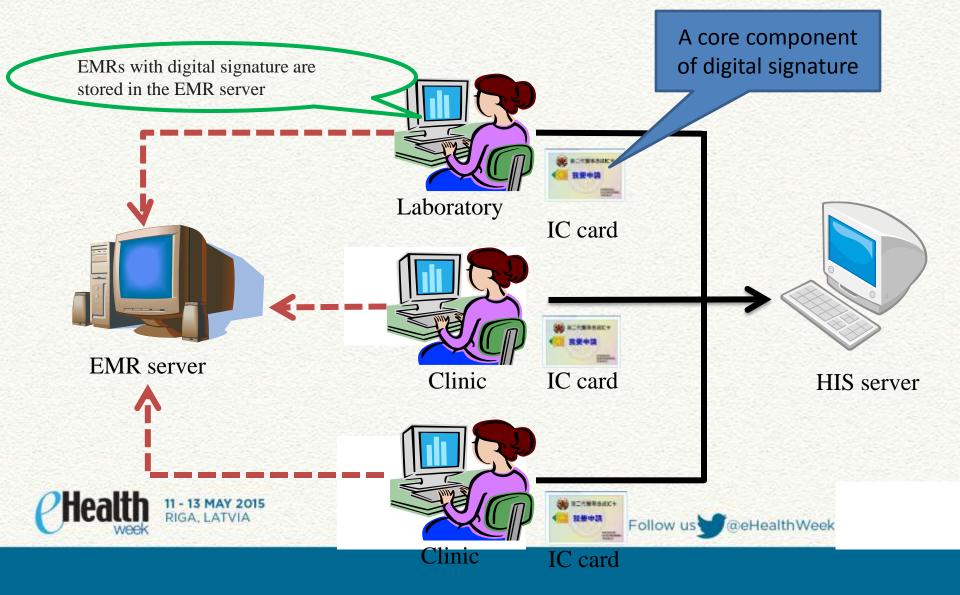


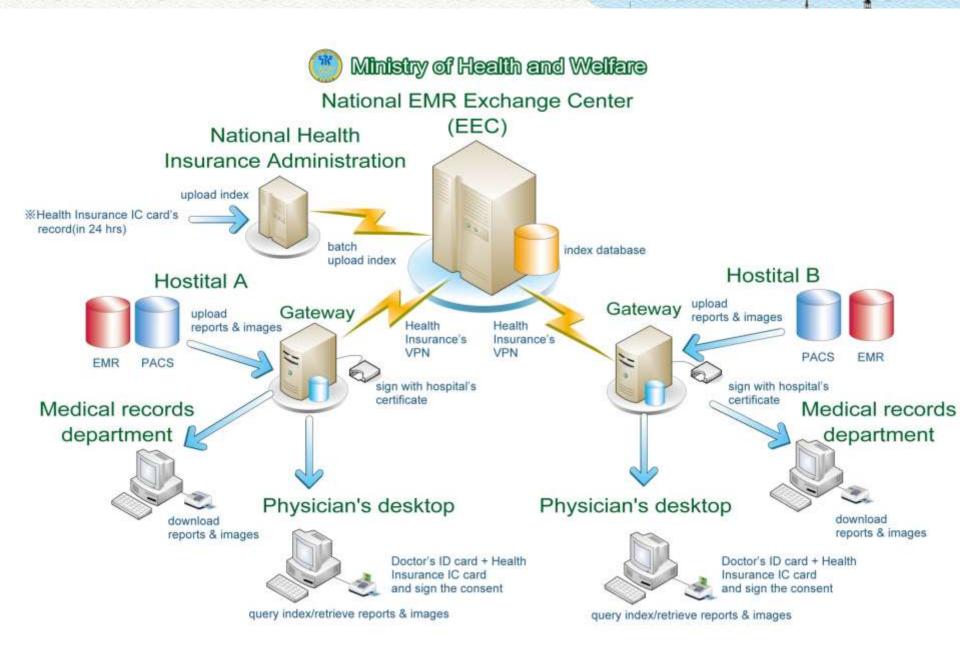
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Electronic Medical Record with Digital Signature

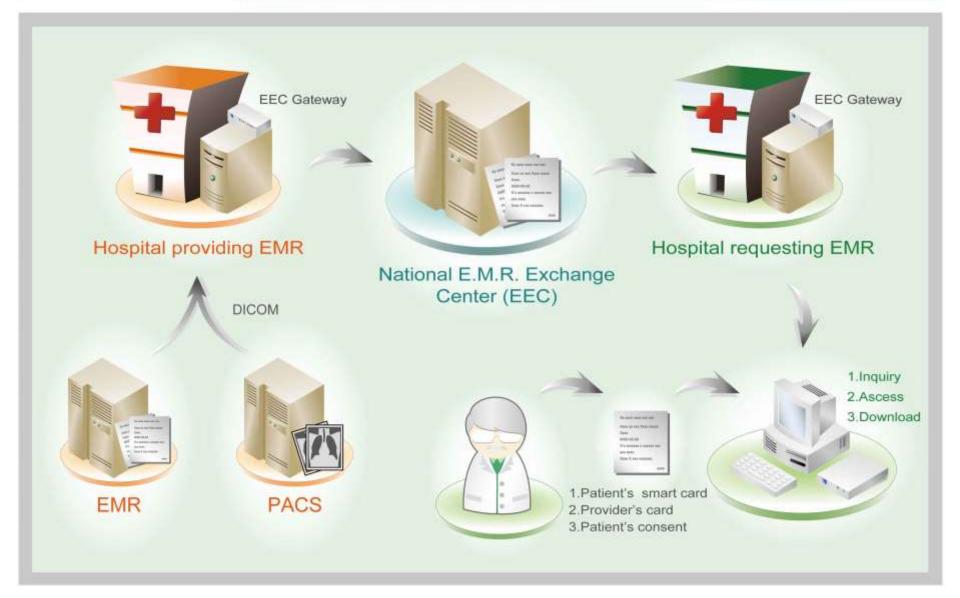
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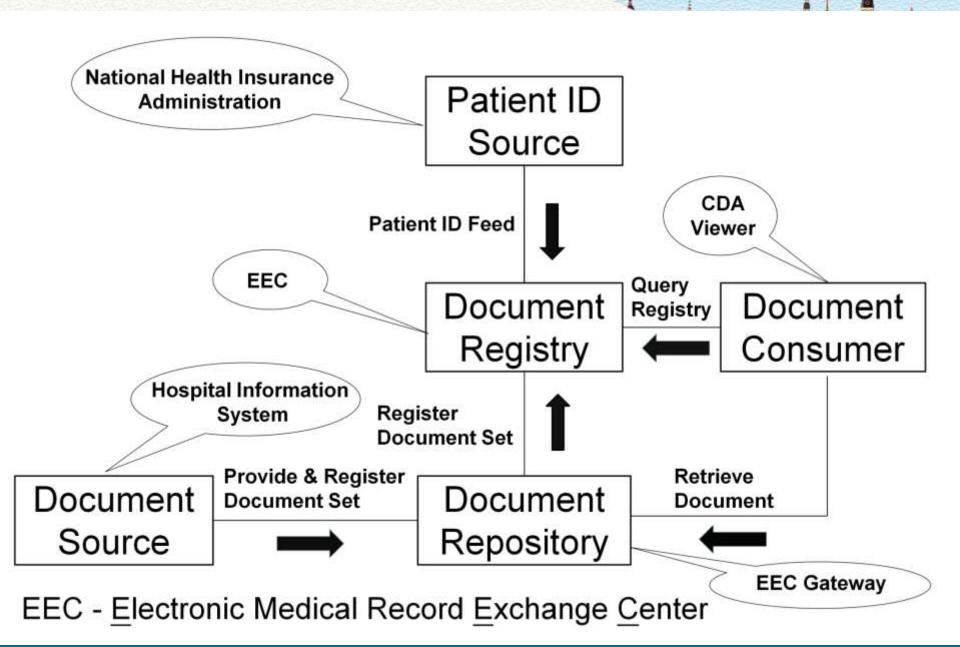






Inter-hospital Exchange through National EMR Exchange Center







COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE XXX (2015) XXX-XXX





journal homepage: www.intl.elsevierhealth.com/journals/cmpb

Building a National Electronic Medical Record Exchange System – Experiences in Taiwan

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Mobile Clinics



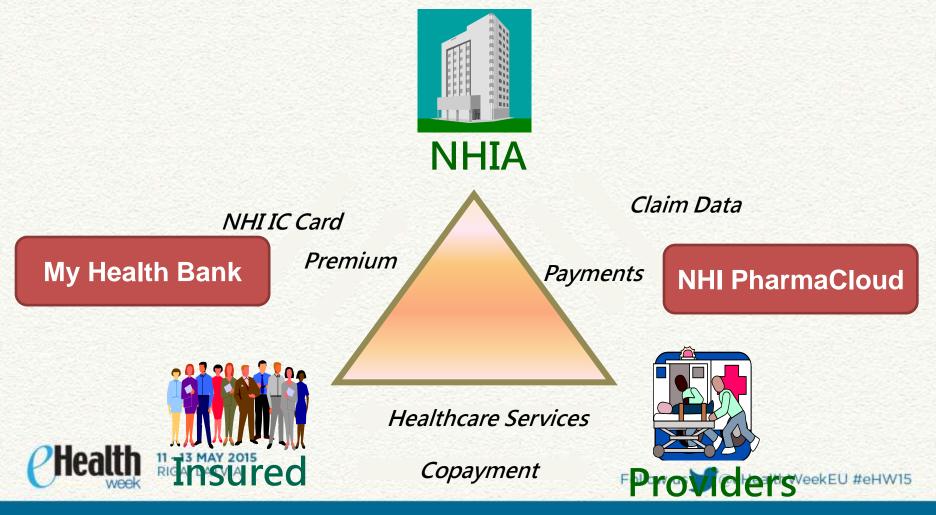






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Healthcare Innovation 2014



Telemonitoring of blood pressure/blood sigar with integration of CPOE



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http://www.smartwatchnet.com/comparingsmartwatches/

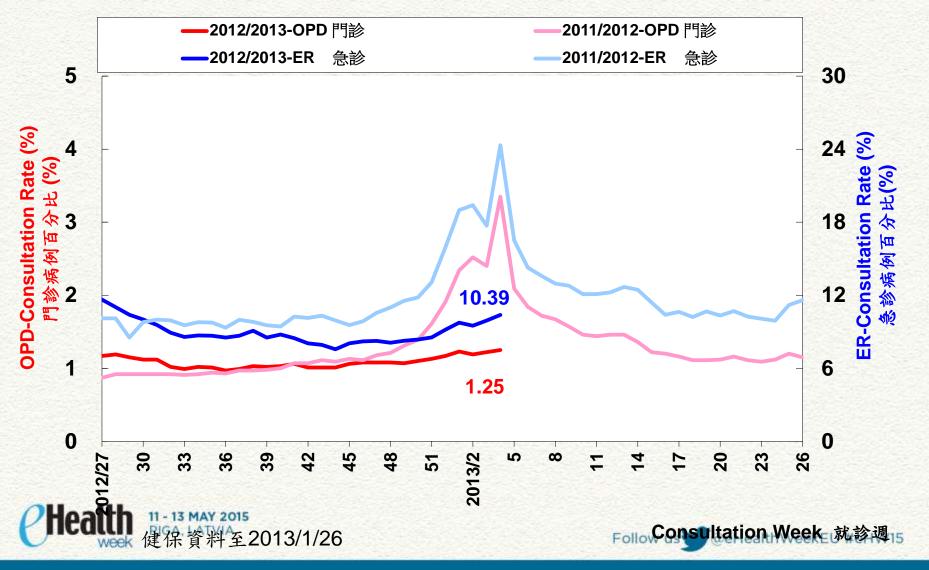


Big data is like teenage sex: everyone talks about it, nobody really knows how to do it, everyone thinks everyone else is doing it, so everyone claims they are doing it...

(Dan Anely)

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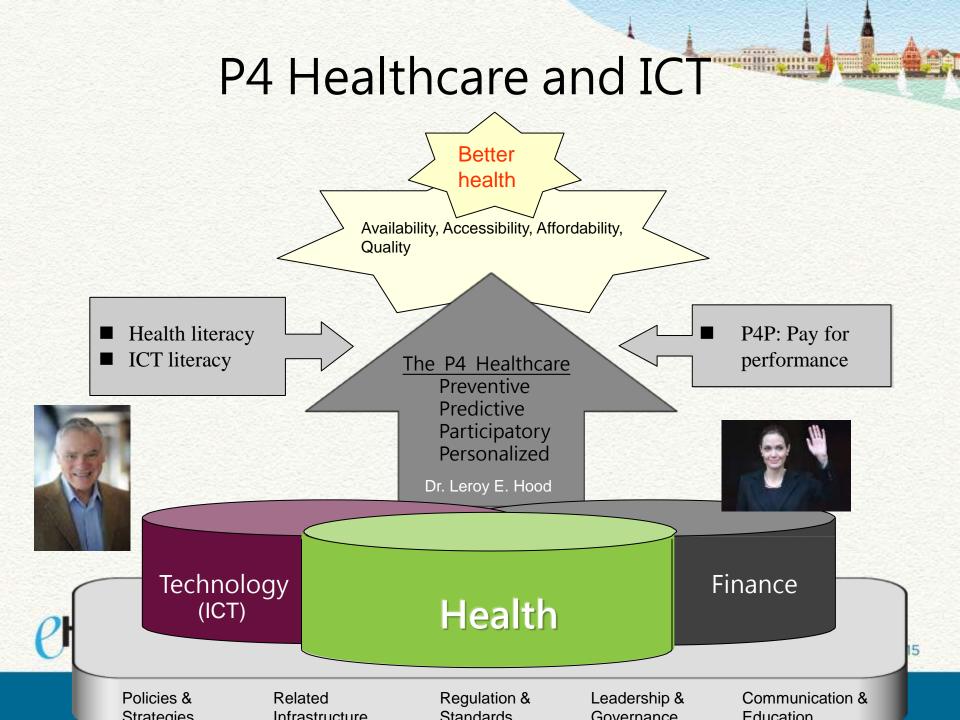
Real-time Outbreak and Disease Surveillance, RODS



Updated: 2013/01/29

Papers Published and indexed by PubMed "Taiwan National Health Insurance Database"







THANK YOU





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