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Profile of Taiwan

Population	23 millions
Land Area	$36,191 \text{ km}^2$
Population aged over 65	11.5%
GDP (2012)	US\$20,423 Per Capita US\$38,462 Per Capita (ppp)
NHE (2012)	US\$1,350 Per Capita US\$2,546 Per Capita (ppp)
NHE in GDP (2012)	6.6%
Life expectancy (2013)	76.69 (M) / 83.25 (F)

Source: Directorate-General of Budget, Accounting and Statistics; ROC; MOHW



Development of social insurance in Taiwan

1950 Labor Insurance(40.1%)

Government Employees' Insurance(8.5%)

1985 Farmers' Insurance(8.5%)

1995 National Health Insurance(99%)

2013 2nd Generation NHI

2017 Long-term Care Insurance

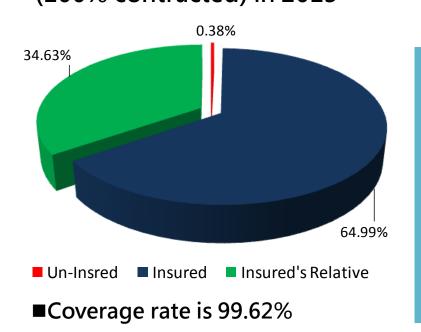
Current Development and Challenges



Current status of National Health Insurance in Taiwan

Compulsory program / single payer

- Universal coverage
- •Guarantee equal access to health care service
- •20,325 contracted providers, including 493 hospitals (100% contracted) in 2013

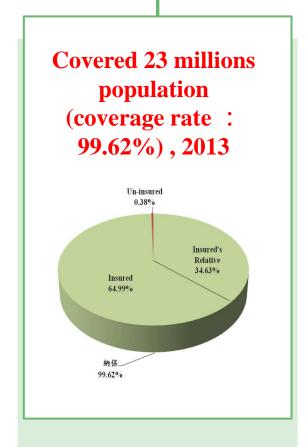


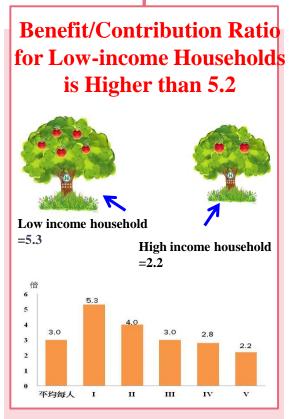
- Advantage
 •Low administrative costs
- Low co-payment, below 10% on average
- Comprehensive medical services, including outpatient services, inpatient services, dental, and traditional medicine, etc.
- Big database



Major NHI Achievements(1/2)

1.Universal coverage 2.Easy & Equitable 3. Affordable Cost









Major NHI Achievements(2/2)

4.Up-to-Standard Quality

5.High Public Satisfaction

6.International Recognition

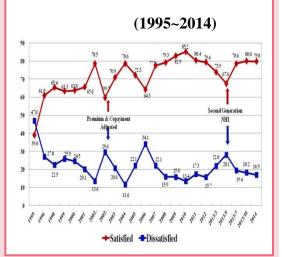


	male	female	male	female	female 86	
Taiwan(2004-2008)	59	61	12	18		
United States (1999-2005)	65	65 13		18	89	
Australia (1998-2004)	61	62	11	14	88	

Organ Transplant Survival Rates

	Taiwan No. of	3-month Survival Rate			1 Yea	ar Survival	Rate	3-year Survival Rate			
	Cases	Taiwan (2008-	00 (2001-200		Taiwan (2008-	US (200	7-2008)	Taiwan	US (2005-2008)		
	(2001- 2011)	2009)	deceased	deceased living		deceased	living	(2006- 2009)	deceased	living	
Kidney graft	2727	98.3%	98.30%	99.50%	96.9%	96.0%	98.6%	94.5%	90.0%	95.8%	
Liver graft	2626	90.7%	94.60%	94.60%	85.6%	88.9%	92.0%	78.3%	79.9%	84.7%	
Heart graft	772	87.2%	93.6	0%	76.2%	88.9%		68.9%	81.7	%	

★ The public satisfaction rate as improved from 39% in the first year of the program to 80% recently

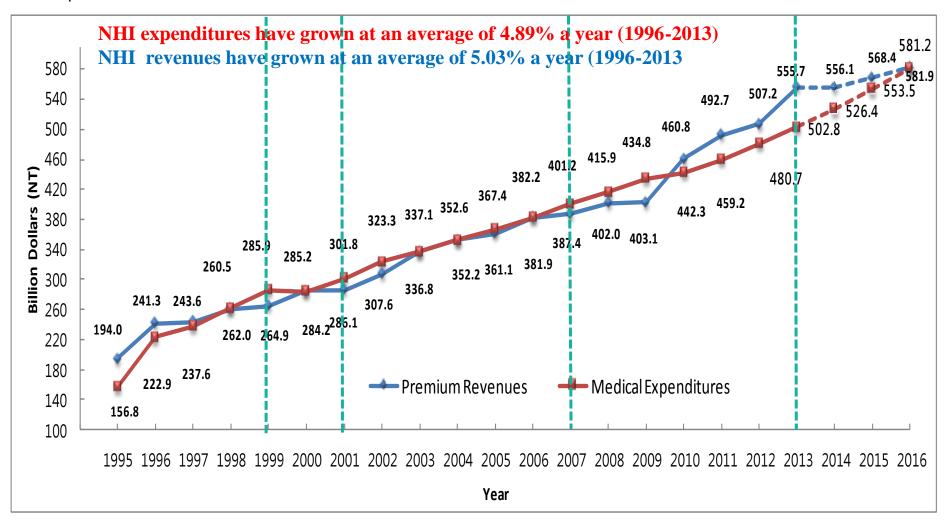






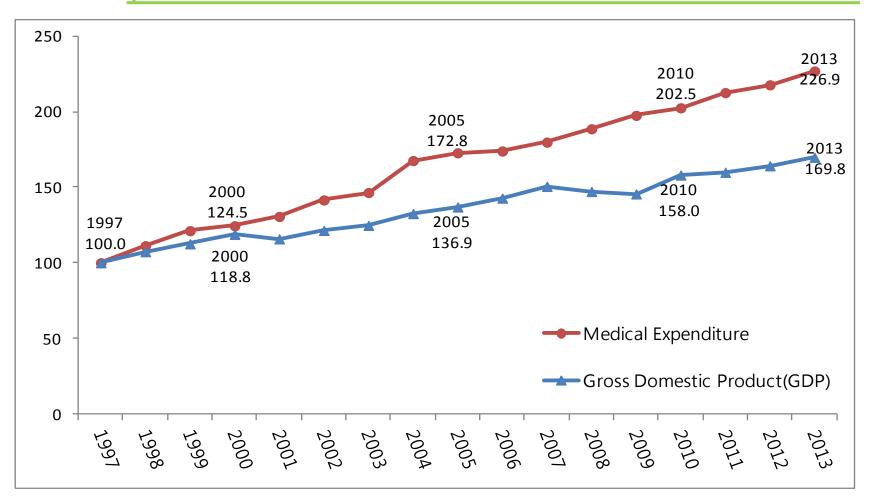
NHI revenues and costs

NT\$ billion





Medical expenditure vs. GDP



Note1 : GDP(1997) is reference year · Ratio=100x[GDP(Year)/GDP(1997)] ·

Note2 : GDP(1997) is 8.57T-NTD ${\, \cdot \,}$ 2013 is 14.56T-NTD and growth rate is 69.8% ;

Medical expenditure is 259.69B-P in 1997 $\,^{\circ}$ 589.27B-P in 2013 and growth rate is 126.9% $\,^{\circ}$



Aging Across Region

	2009		2050						
Country	15-59:60+	Rank	Country	15-59:60+	Rank				
Japan	1.92	1	Japan	1.01	1				
Australia	3.24	2	Taiwan	1.14	2				
USA	3.45	3	S.Korea	1.17	3				
Hong Kong	3.97	4	Singapore	1.24	4				
Singapore	4.51	5	Hong Kong	1.25	5				
S.Korea	4.51	6	China	1.73	6				
Taiwan	4.75	7	Australia	1.82	7				
China	5.71	8	USA	2.03	8				
Vietnam	7.63	9	Vietnam	2.13	9				

Source:

Prof. Alan Cass Senior Director

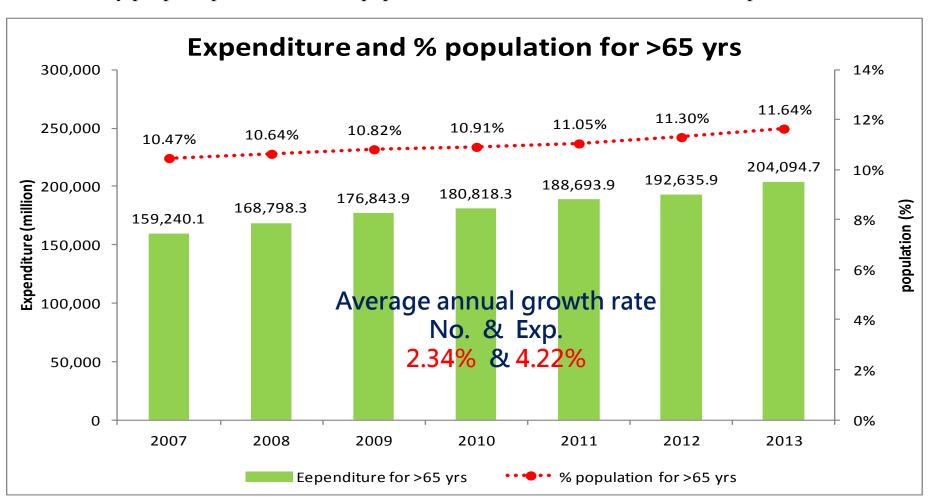
The George Institute for Global Health

Chair, Scientific Committee, Australasian Kidney Trials Network



Current Aging Trends and Impact to Healthcare

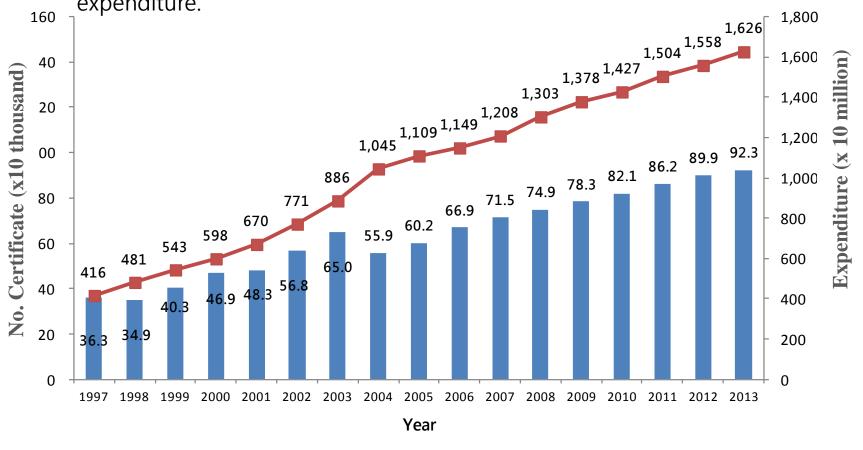
•The elderly people represent 11.6% of population, who used 34.6% NHI medical expenditures in 2013.





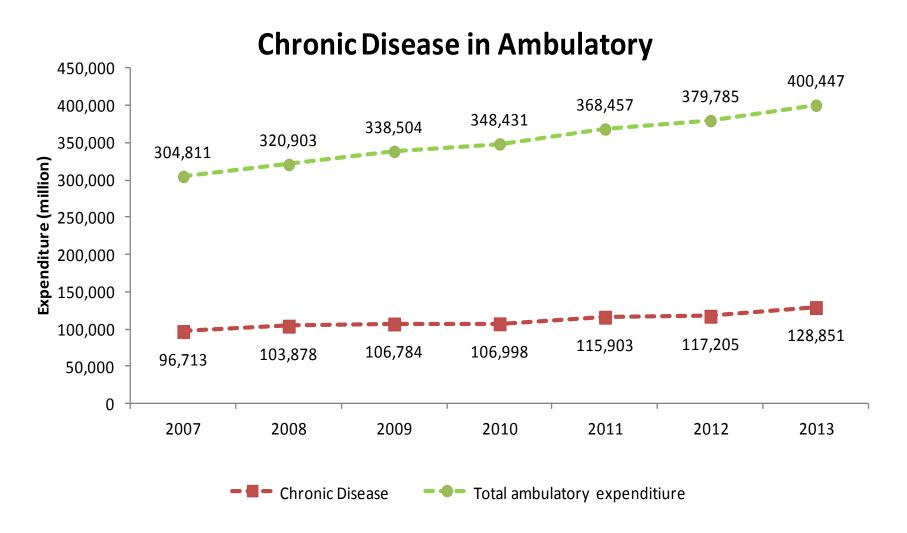
Catastrophic Illnesses

- There are more than 920 thousand catastrophically ill patients, or about 3.9% of all those insured under NHI program.
- Their medical expenditure in 2013 costs NT\$ 162.6 billion, or 27.1% of all NHI expenditure.



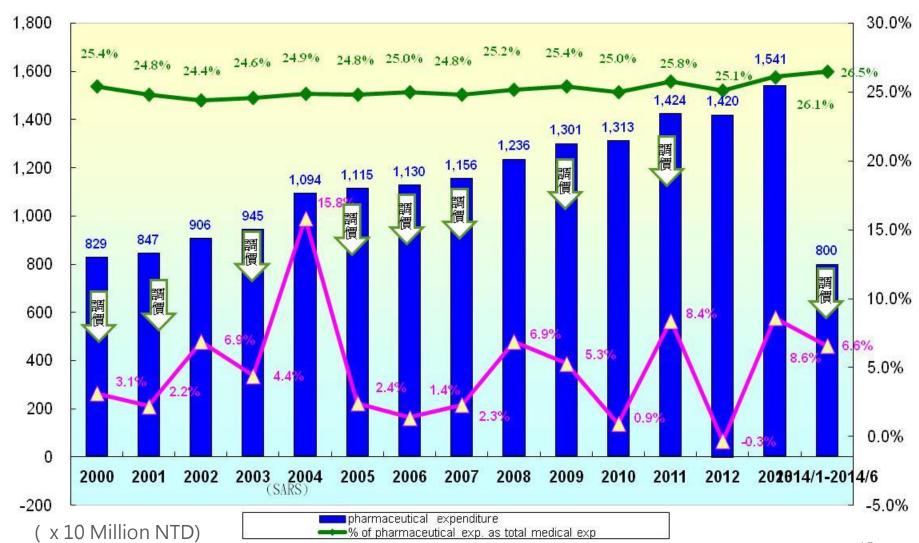


Medical Expenditure of Chronic Disease





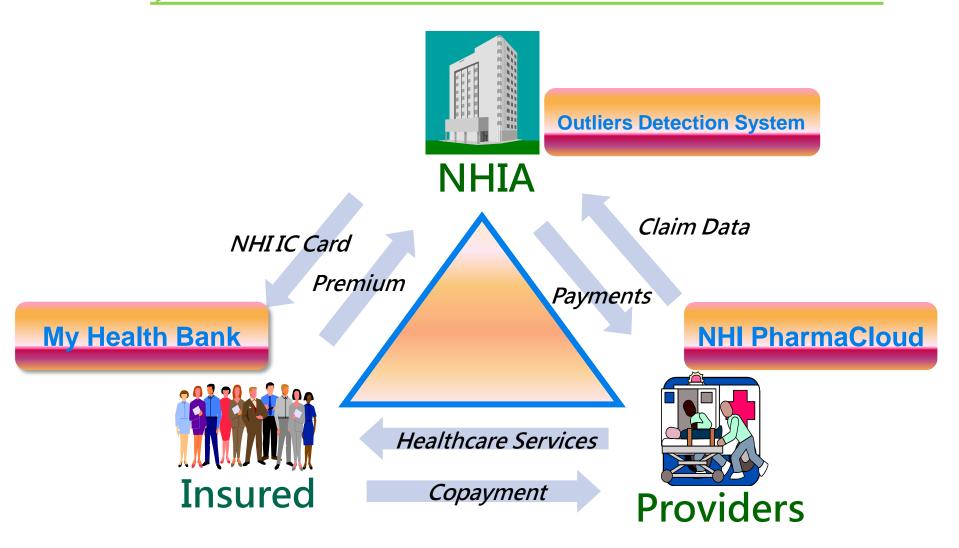
NHI Pharmaceutical Expenditure







Healthcare Innovation 2014



全民健保 健康存摺



MY HEALTH BANK -My Health Bank-



My Health Bank

衛生福利部中央健康保險署 MATIONAL HEALTH INSURANCE ADMINISTRATION
全民健保健康存摺系統 / MY HEALTH BANK
請插入自然人憑證後按確認

確認



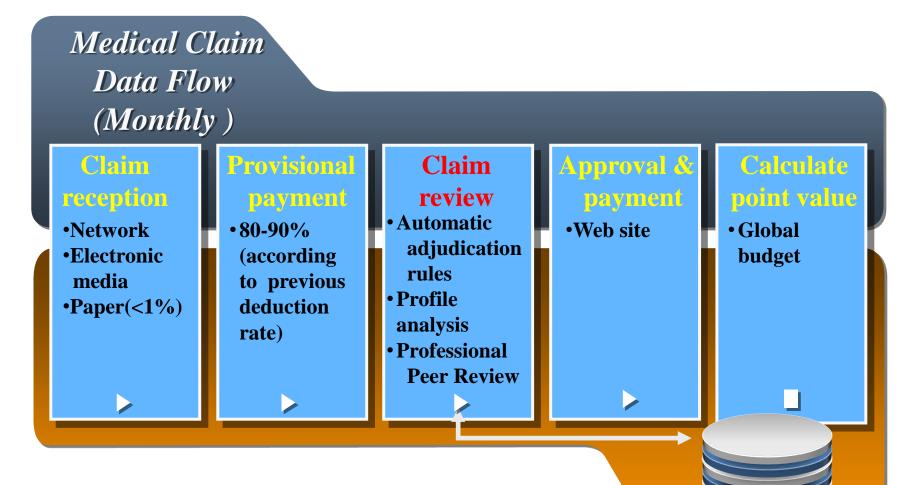
Multiple Sources

Scope of Benefits

- Inpatient care
- Outpatient care
- Prescription drugs and certain OTC drugs
- Dental services
 (orthodontics, prosthodontics excluded)
- Traditional Chinese medicine
- Day care for the mentally ill
- Home nursing care
- Allergy & Vaccine records*



High Quality-Medical Claim Data



Data warehouse system



NHI IC Card for Each Patient

NHI IC Card









Functions of NHI IC Card

Simplification of management process

Daily update of medical visit data

Infectious disease tracing & monitoring

Heavy-user detection & management



Providing Personal Medical Data

Personal medical data accessibility

- Self-managing healthcare records
- Alerting hospital to claim accurate data
- Facilitating discussion between doctors and patients

Personal privacy

- Certificate identity
- Security for downloading files





How soon to get the data?

登出



(H) 全民健保健康存摺系統

- ≛。本系統提供 台端自申請日前2日起近一年醫事機構申報及健保卡上傳之醫療資料,並於每日更新健保卡上傳資料之內容,例如: 103年09月16日申請可查詢102年09月01日至103年09月14日之醫療費用申報及上傳資料,以此類推。 全民健保健康存摺並非病 歷,相關診斷及詳細罹病情形,請洽相關醫事機構。
- 💒 請於申請日之隔日8時再至本網頁下載申請結果,本網站依據 台端申請產製資料後保留7日 (例如:103年09月16日提出申請,請 於103年09月17日8時至103年09月23日23時59分至本網站下載),下載檔案密碼寫您的「身分證號」(首碼英文寫大寫)。

Medical Data Period: 2013/9/1~2014/9/14

Apply Date: Sep 16, 2014

Download Date: Sep 17, 2014



申請日期	資料起迄期間	可下載期間	狀態
103/09/16	102/09/01 至 103/09/14	103/09/17 至 103/09/23	可下載



My Health Bank – Outpatient

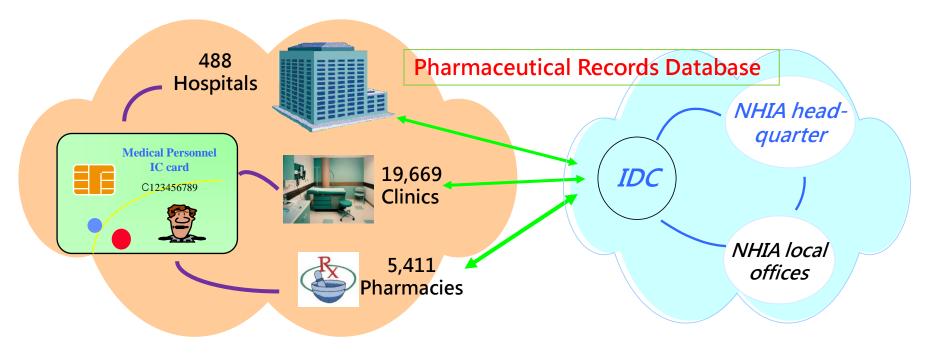
NHI Service Clinic/ Visit Date/ NHI IC Card Diagnosis Copayment NHI Office Procedure Hospital Pharma Date Seg. No. Expenditure Operation 門診及交付機構資料工醫管明細表 衛生福利部中央健康保險署 ID 身分證號:Z222***999 資料申請日期:103/)7/02 資料起迄期間: 103/05/01~103/05/31(申報) Period 交付調削、檢查 健保卡 疾病或復健治療日期 就醫序號 分類碼 部分負擔金額 疾病 健保支 就醫日期 處置名稱 緊事機構 虚置碼 健保署 分類名稱 付點數 服務軍位 醫囑代碼 緊觸名稱 醫囑總量 103/05/14 類風濕性關節炎 東區 7140 0022 1,438 250 一般門診診察費-基層院所門診診察費1・每位醫師每日門診量在三十人次以下部分(3-1)未開處方或處… 00110C Order 門診藥事服務費-慢性病處方給藥28天以上(山地離島地區每人每日100件內) 05211C **Detail Orders:** 08005C 紅血球沈降速度測定 Quantity Medicines 12015C C 反應性蛋白試驗 - 免疫比濁法 Medical Devices 18C 肌腱注射 "汎宇" 樂悠 錠 A047570100 56 AC29575100 舒腦膠囊 1 0 公絲 (服納利林) 28 AC316761G0 "柏理"康速龍錠5毫克(培尼皮質醇) 56 AC346701G0 "強生"葉酸膜衣錠 5 公絲 24 AC367491G0 舒肌痛膠囊(鋁箔/膠箔) 56 ***健亞* 殲症膜衣錠200公絲(硫酸羥氨奎寧)** AC42899100 56 AC47371100 "強生" 易除痛膠囊200毫克 56 滅殺除癌錠2・5公絲 B022726100 24 **檢驗所 類風濕性關節炎 南區 103/05/14 0022 7140 275 12015C C反應性蛋白試驗 - 免疫比濁法 25



-Pharma Cloud-



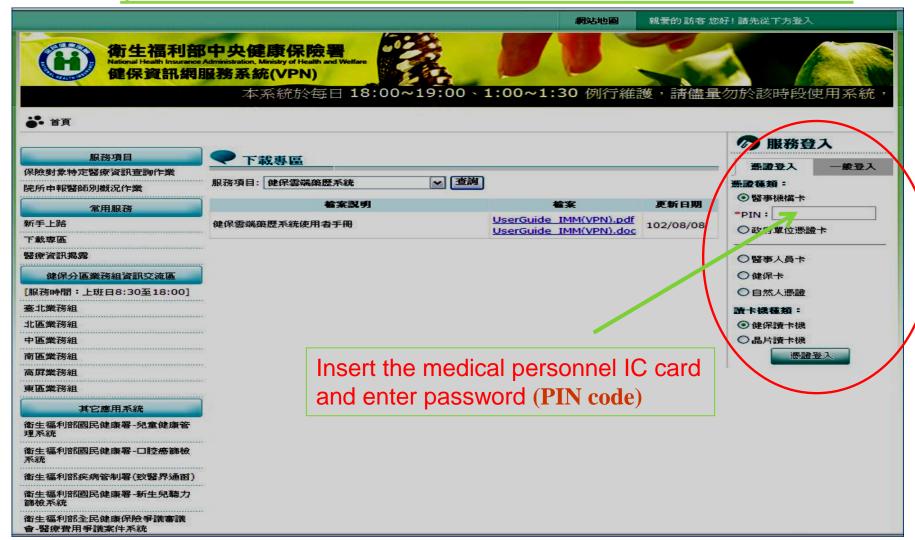
The NHI Pharma Cloud



- ✓ A patient-centered medication information system established in July 2013
- ✓ Information updated on a rolling daily basis
- Allowing practitioners to view real-time medication records with patient's consent
- ✓ Subject to strict privacy and security through VPN network



Inquiry Platform



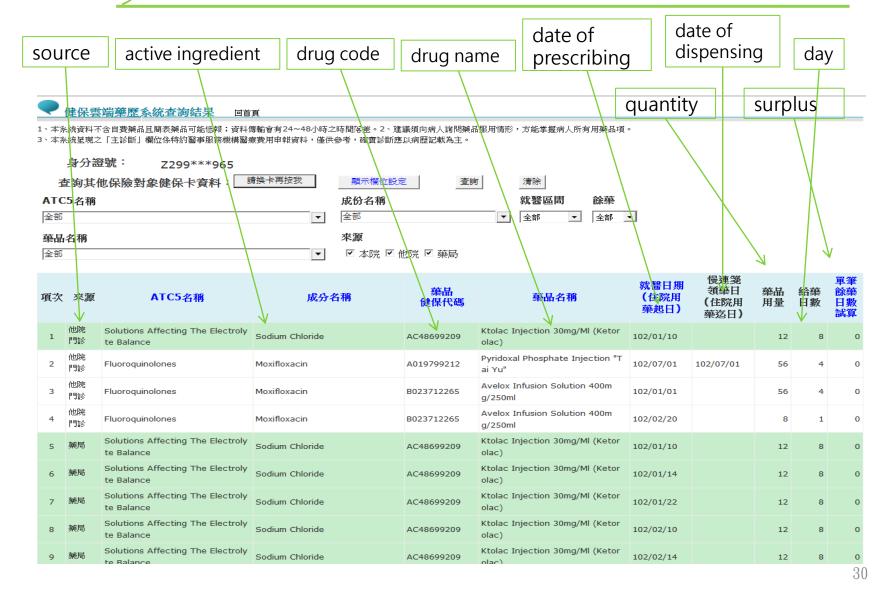


Inquiry Page of Hospital

•	健保	雲端藥歷系統查詢結	果」「回首頁」												
1 · 4	系統資料 系統呈3		低報;資料傳輸會有24~48小 蘇服務機構醫療費用申報資料,			情形,方能掌握病人所有用藥品	诸項。								
	身分	→證號: Z299**	**965												
	查詢	其他保險對象健保卡貧	資料: 請換卡再按我	顯示欄位設定	查詢	清除									
ΑT	C5名	再		成份名稱		就醫區間 餘藥	•							1	Search criteria can be
全部	В			全部		▼ 全部 ▼ 全部	-							1.	Search criteria can be
藥	品名稱			來源											set.
全	15			▼ 本院 ▼ 他院	☑ 藥局								,	\ <u></u>	"ATC5
項次	來源	主診斷	ATC5名稱	成分名稱	藥品 健保代碼	藥品名稱	藥品 規格 量	用法用量	就醫日期 (住院用 藥起日)	慢連箋 領藥日 (住院用 藥迄日)	藥品 用量	給藥 日數	軍筆 餘藥 日數 試算	Z.	"ATC5 name", "Drug name", "Date of
1	他院門診	SECONDARY SYPHILIS O F SKIN OR MUCOUS MEM BRANES	Solutions Affecting The Electrolyte Balance	Sodium Chloride	AC48699209	Ktolac Injection 30mg/M I (Ketorolac)	1ML		102/01/10		12	: 8	0		consultation", "Remaining drugs" ca
2	他院門診	第二期(續發性)皮膚或粘膜 梅毒	Solutions Affecting The Electrolyte Balance	Sodium Chloride	AC48699209	Ktolac Injection 30mg/M I (Ketorolac)	1ML		102/01/10		12	. 8	0		be selected to set search
3	他院門診	PRIMARY TUBERCULOUS COMPLEX. TUBERCLE BA CILLI NOT FOUND BY BA CTERIOLOGICAL EXAMIN ATION. BUT TUBERCULO SIS CONFIRMED HISTOL OGICALLY	Fluoroquinolones	Moxifloxacin	A019799212	Pyridoxal Phosphate Inje ction "Tai Yu"	2ML	IV	102/07/01	102/07/01	56	i 4	. 0		criteria.
4	他院門診	細菌學檢查未發現結核菌但 組織學確認為結核病之原發 性結核複合症	Fluoroquinolones	Moxifloxacin	A019799212	Pyridoxal Phosphate Inje ction "Tai Yu"	2ML	IV	102/07/01	102/07/01	56	4	0		
5	他院門診	細菌學檢查未發現結核菌但 組織學確認結核病之 原發性 結核複合症	Fluoroquinolones	Moxifloxacin	A019799212	Pyridoxal Phosphate Inje ction "Tai Yu"	2ML	IV	102/07/01	102/07/01	56	i 4	0		
	他院	SECONDARY SYPHILIS O		● 健促症	滤蘇麻多	統查詢結果 🗉	直首								
l	l be	content avail displayed if t as no drug his	lable" wi the patie	1、本系統資料不	含自費藥品 詢問藥品服用 Z299** *	推簡表藥品可能低報; 開情形,方能掌握病人。	所有用	藥品	a項。	18小時之的 就 醫區	3	室詢	其他	保險	計算。 計算。 計算。 計算。 計算。 計算。 計算。 計算。
				查無資	料										



Pharma Cloud Query Result





Pharma Cloud Benefits

- Offer comprehensive medication information to healthcare professionals to provide patients with high quality care
- Prevent duplication of prescriptions and prescription fraud
- Protect patients from drug interactions and dosage errors
- Save the cost of drug expenditure



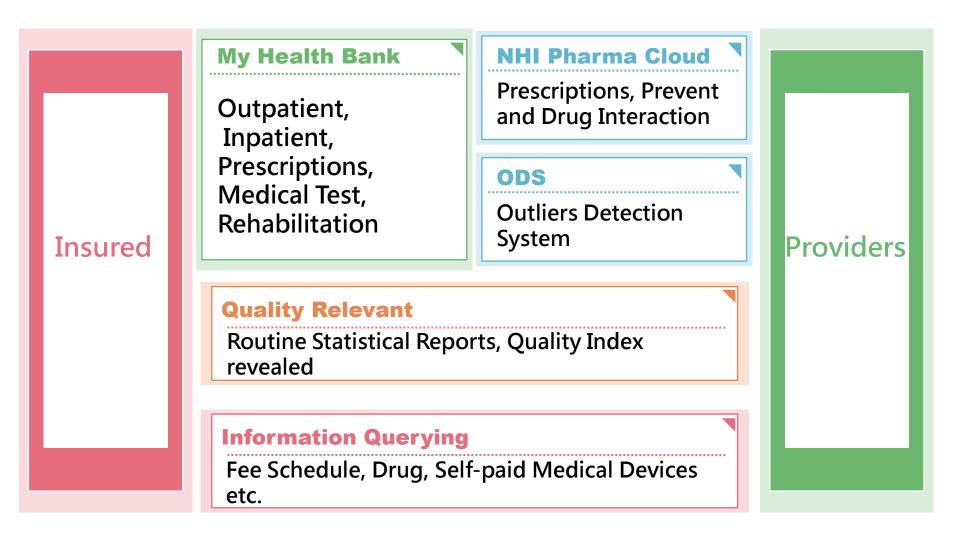
Development and applications

- Upgrade the bandwidth of the VPN
- Continuous improvement of system stability and inquiry efficiency
- Allow the information to be downloaded into hospitals' system if patient's consent was obtained.
 - Integrate patients' allergy history and drug interaction alarm check into the HIS system of hospitals
- The application of the system will be gradually expanded
 - 2,459 hospitals and clinics have the access to the system so far and increases continuously.
 - 2,492,698 patients were inquired until September 2014.

Future Perspectives



Solution for Healthcare





Next step in the Healthcare



Healthcare Platform

Prevention

Health Promotion

Medical Records

L.T.C.

Hospice





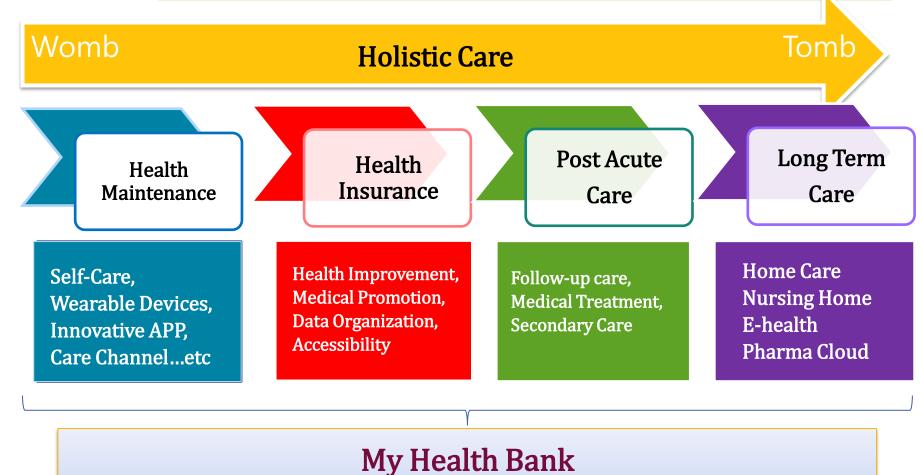




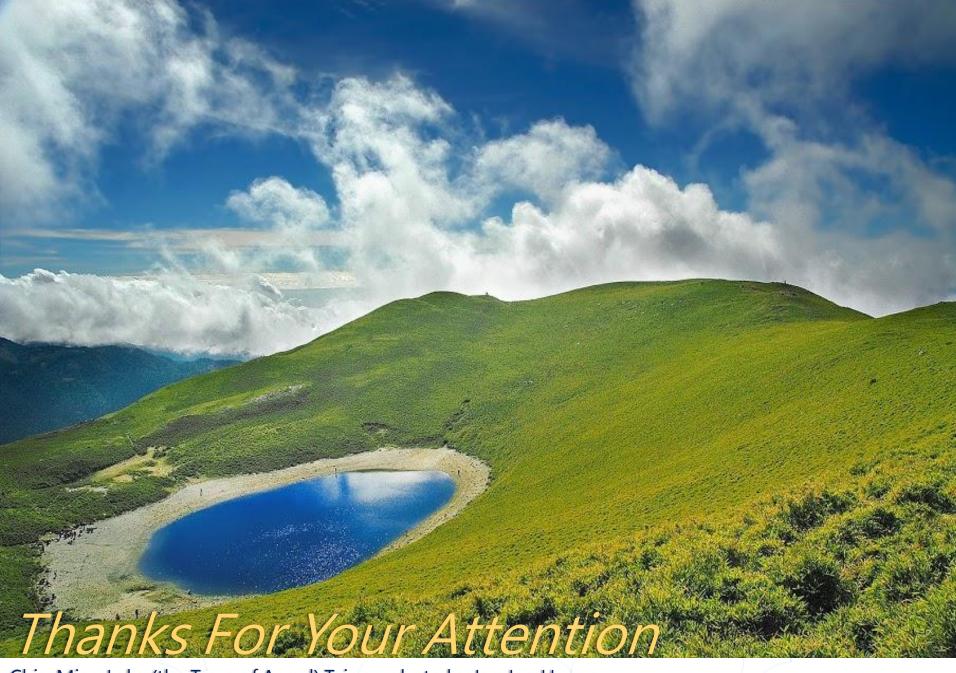




Vision to Holistic Care



(MHB)



Chia-Ming Lake (the Tears of Angel) Taiwan photo by Joe Joe Huang