Overview of Health Promotion in Taiwan

Bureau of Health Promotion Department of Health

- National health is a key gauge of national competitiveness. To increase physical, mental and social health in Taiwan, the BHP has taken its lead from the Alma-Ata Declaration of 1978 and the five action areas for health promotion identified in the Ottawa Charter of 1986.
- BHP has been striving to set health-friendly public policies, bring about healthy communities, hospitals, schools and workplaces, enhance public consciousness of health to usher in a society where health always comes first, and develop citizens' health skills and readjust health services.
- The ultimate goal is to achieve "Health For All" enunciated by the World Health Organization.
- BHP also conducted public health surveillance, related research and development to made evidence-based policy goals and strategies that best meet present needs and future development.

1

Outline

- Taiwan Health Profiles
- Vision and Strategies of Health Promotion
 - □ Healthy Birth and Growth
 - Healthy Living
 - Healthy Environment
 - Healthy Ageing
- Special Health Topics
- Health Surveillance



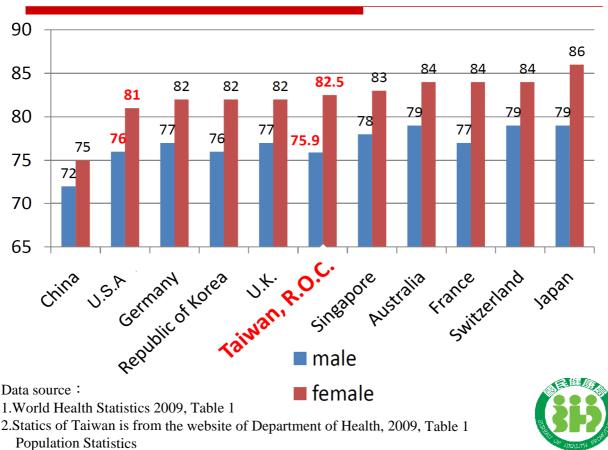
Taiwan Health Profiles



Health Status in Taiwan

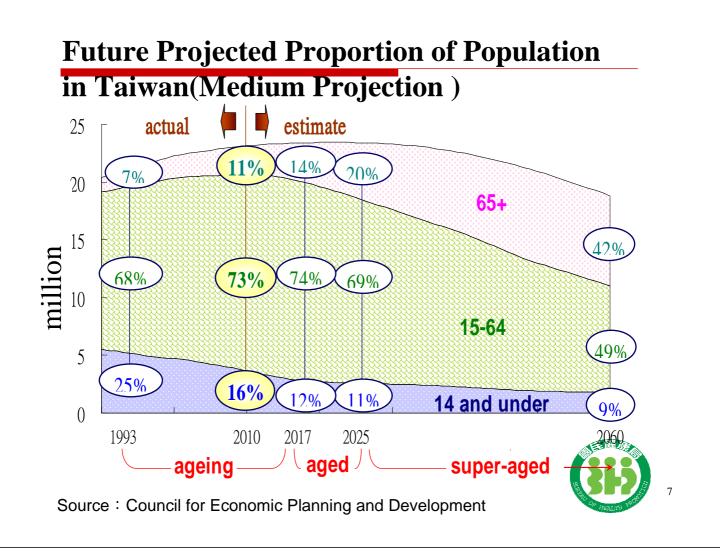
	Taiwan	
Total population	23,157,178	
Population age 65 and above(%)	10.6	
Crude birth rate (‰)	8.3	
Crude death rate (per 100,000)	618.7	
Total fertility rate (‰)	1.02 (2009)	
Maternal mortality rate (per 100,000)	6.5 (2008)	
Neonatal mortality rate (‰)	2.7 (2008)	
Infant mortality rate (%)	4.5	
Under 5 mortality rate (%)	6.3	
Life Expectancy	78.9	
Male	75.9	
Female	82.5	
Source : 1. Statistical Yearbook of Interior, R.O.C 2. National Vital Statistics Reports, U.S.A.		

2. National Vital Statistics Reports, U.S.A.

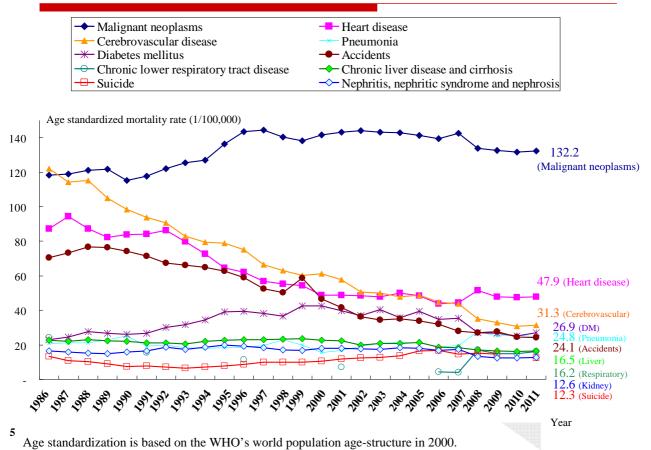


Life Expectancy at Birth, 2009

5



Top 10 Leading causes of death inTaiwan



Vision and Strategies of Health Promotion

Cherish Life, Promote Health Increasing healthy life expectancy



Vision and Strategies Cherish Life, Promote Health Prevention and Control of Noncommunicable Diseases Control of **Chronic Diseases Prevention; Safety Protection)** Health Promotion (3P: Prevention, Protection, Promotion) Developing Create a **Develop** and Reorient Invigorate Enhance public policies supportive Hygiene Communities Services for health environment **Health Skills** Draft and Strengthen Build healthy Health Literacy Formulate a amend laws and cross-sector families, • Health medical treatment and healthcare cooperation regulations communities, Communication system conducive to • Devise health Nurture a schools, Health health promotion system policies for workplaces, Surveillance • Build a different conducive to hospitals and R&D wellrounded system societal groups health Have health Healthy for preventing and Narrow gaps in promotion accepted as top Lifestyles caring for citizen health Make industry priority in society Noncommunicable healthy and diseases bring health to Turn medical care industry resources into health resources

Healthy Birth and Growth

1. Maternal Health

- Systematic Reproductive Health Services
- **Comprehensive Reproductive Health Regulations and Systems**



Preventive Services - Maternal Health Promotion

	Before Pregnancy	Before the Due Date	After the Due Date			
	ntenatal care coverage (%) st 1 visit: 98.16%	7 10 Free Prenatal Examinations				
At	least 4 visits: 95.88%	Reproductive Heal Foreign Sp				
	Assisted Reproduction		Promotion of Breastfeeding			
	Genetic Testing and Counseling Services					
	(iı	ncluding Prenatal Diag	nosis)			

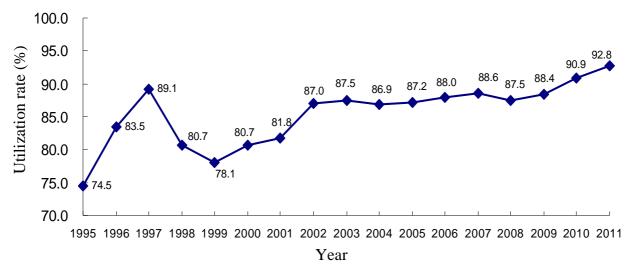


Preventive Services - Maternal Health Promotion

Target	Interval	Content
pregnant	2 times	Physical check-up,
women	(<17 weeks)	Blood and urine tests,
	2 times	Ultrasound examination, Health education
	(17-29 weeks)	
	6 times	
	(>29 weeks)	
low	once	
income		Group B streptococcus
pregnant		culturing and screening
women		
	pregnant women	pregnant women2 times (<17 weeks)2 times (17-29 weeks)6 times (>29 weeks)low income pregnant



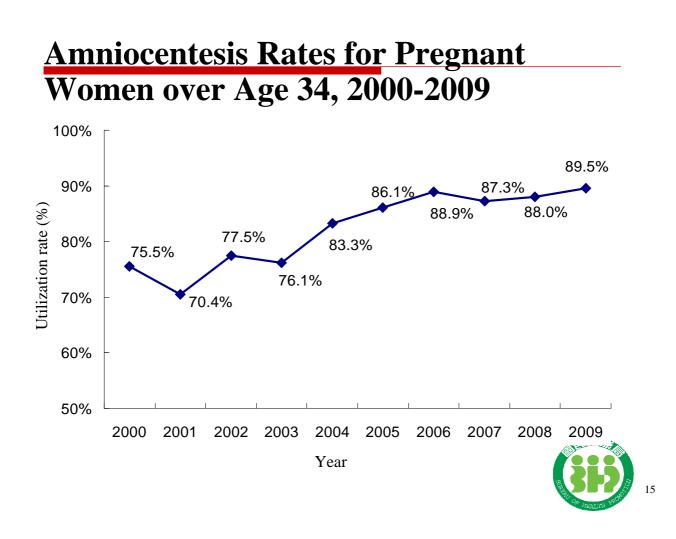
Utilization Rate of Prenatal Examinations



Source : Data for 2002-2005 is taken from the Bureau of National Health Insurance > data for 2006-2010 is based on BHP calculations **Average utilization rate**:the number of prenatal examinations/ the number of births multiplied by 10 prenatal tests



14



Healthy Birth and Growth

2. Infant and Child Health

Provision of Comprehensive Healthcare Services

- Preventive Healthcare Services for Children
- Newborn Screening
- Upgrading the Competence of Health Professionals
- Creating a Friendly Environment Conducive to Breastfeeding
- Promoting Legislation on "Public Breastfeeding Act"
- Countermeasures to Rectify Sex Ratio at Birth Imbalances



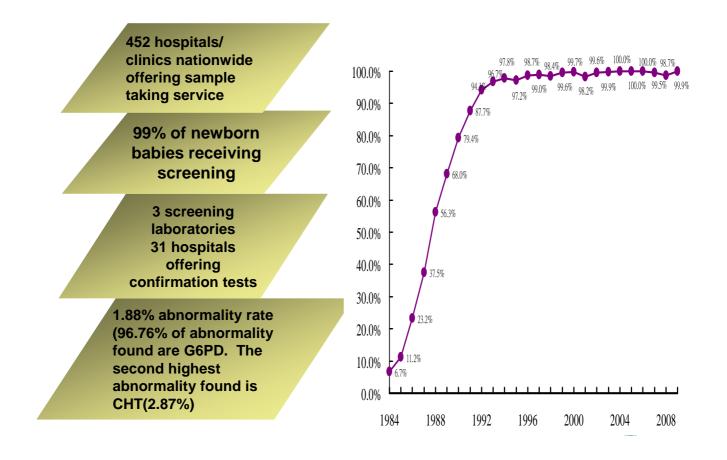
Preventive Services - Child Health Promotion

Newborns	Infa	ints	Р	re-scho	ool ch	ildren		I	Elemei	ntary	school	child	ren
1 1 day mon	6 mons	<u>1 yr</u>	<u>2 yrs</u>	<u>3 yrs</u>	<u>4 yrs</u>	<u>5 yrs</u>	<u>6 yrs</u>	<u>7 yrs</u>	<u>8 yrs</u>	<u>9 yrs</u>	<u>10 yrs</u>	<u>11 yrs</u>	<u>12 yrs</u>
New born creening for congenital metabolic							-	+	+	+	+	+	+-
disorders Infant stool color card Prevent	ive H	[eg]th	Fyar	ninati	on fo	r Chi	drep						
				nt scre									
l	heari	ng, or	al he	alth sc	reeni	ing)							
				Infants and children' Hearing screening	Ami s scr g	bismus/ blyopia eening	Studer physic Check- Vaccin n Eler	al ups natio	y scho	phys Checl		。 10ride	
Fluor	ide a	pplic	catior	n of te	eth				•		ent car		1 House

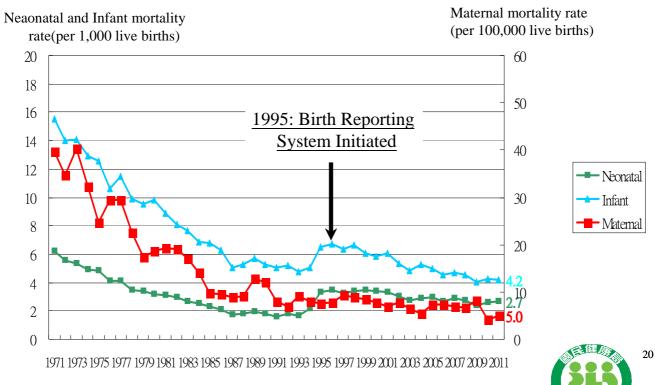
Preventive Services - Newborns and Children

Item	Target	Interval	Content
Newborn screening services	newborns	once	G-6-PD, CHT, CAH, PKU, HCU, Isovaleric acidemia, MSUD, GAL, MMA, GA1, MCAD
Hearing check	newborns in low income families	once	Hearing check
Preventive child health care services	children under 7 years old	7 times	Physical check-up: Medical history of individual and family, height, weight, hearing ability, eyes, mouth and dental, growth and development appraisal
			Examination of development: children hearing, language and Autism screening
			Health counseling: Breast feeding, nutrition, childhood development, oral health care, eye care, injury prevention
Professionally applied fluoride treatment	children under 5 years old	semiannually	Professional fluoride application by dentists, general oral examination, oral health education
Pit-and-Fissure Sealant Program for Children	elementary first and second grade students in mountainous area and first grade elementary school children of low-income families	once	Pit-and-Fissure Sealant of first molar

Completion rate of Taiwan newborn screening

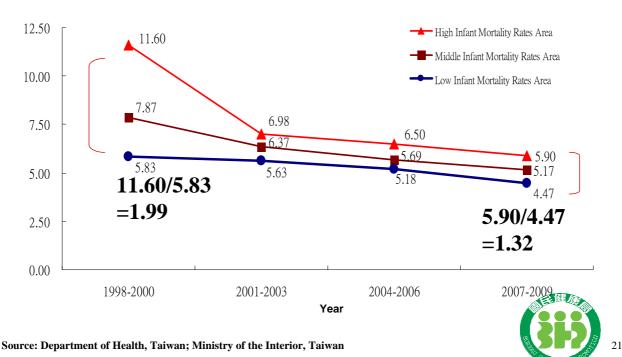


Maternal, Neonatal and Infant Mortality Rates



Infant Mortality Rates by High/ Middle/ Low Rate Areas

Infant Mortality Rates ‰



Baby- Friendly Hospital Initiative

Item Year	No. of hospitals receiving certification	Birth coverage rate of BFHI	
2001	38	- 3	国际公式时来处 使使任能
2002	58	-	M444 -
2003	74	-)	第一小時
2004	77	39.2	
2005	81	40.8	新 第二章 第二章
2006	82	41.3	· 地緣生命 · · · · · · · · · · · · · · · · · · ·
2007	94	47.4	IV OVER
2008	94	46.3	
2009	113	53.9	云雁》
2010	144	67.2	
2011	158	71.4	22

Promoting a Breastfeeding-Friendly Society

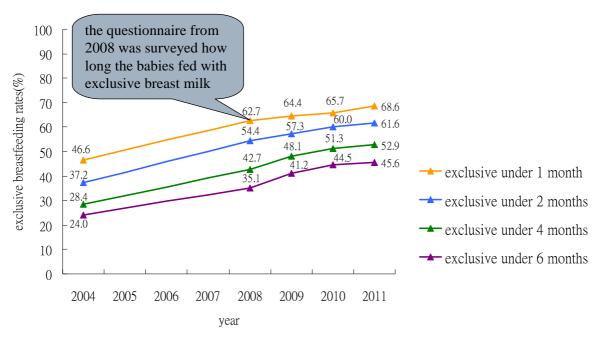
- Goal: To reduce barriers of and to promote breastfeeding in the communities
- Strategies
 - Baby- Friendly Hospital Initiative
 - Collaboration with the Council of Labor Affairs to promote breastfeeding-friendly workplaces.
 - > Breastfeeding support
 - ▲Hotline: 0800-870870
 - ★Website : <u>http://www.bhp.doh.gov.tw/mammy/</u>
 - ▲ Workforce training
 - Legislation in 2010: "Public Breastfeeding Act" to protect the right of breastfeeding in public places and require setup of

breastfeeding rooms in certain public places.





Exclusive Breastfeeding Rates, 2004-2011



Data resource: the national survey of exclusive breastfeeding rate, bureau health promotion, 2004, 2008-2011.

Alterant definition: the rate in 2004 was surveyed the breastfeeding situation in different time; the rate form 2008 to 2011 was surveyed how long the babies fed with exclusive breast milk.

Screening for Hearing impairment

- Pre-school (3 y/o) pure tone audimetry hearing screenings in kindergartens carried out by public health nurses since 2001, screening rate from 25%(2002) to 87%(2010).
- Newborn hearing screening: free for all newborn since March 15, 2012.



Screening for Vision in pre-school children

Vision

 Providing strabismus and amblyopia screenings in children of four and five years old in kindergartens in the communities, carried out by trained teachers.

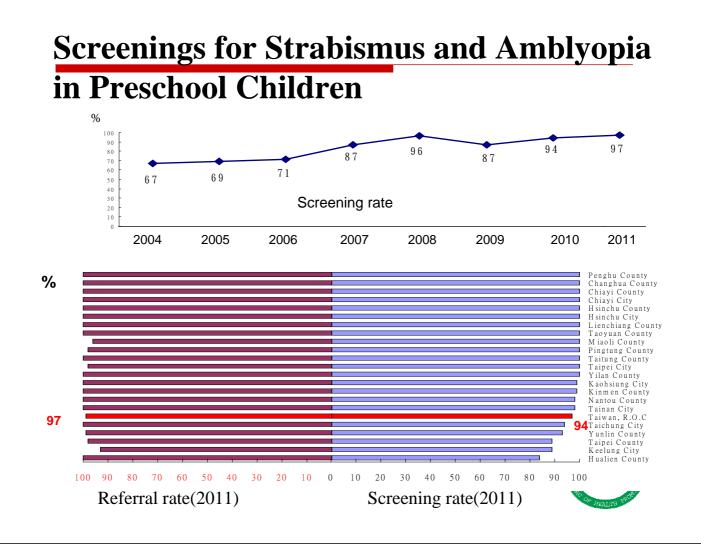








26

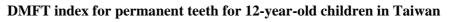


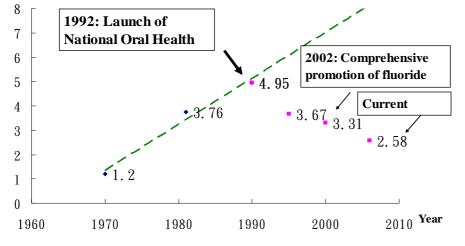
Oral health of children

1. Professionally applied fluoride treatment under 5 years old

2. A comprehensive fluoride mouth rinse program for elementary school children

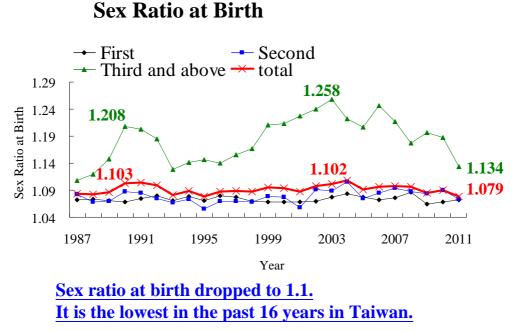
3. Pit-and-Fissure Sealant Program for Underprevilidged Children







Countermeasures to Rectify Sex Ratio at Birth Imbalances



Source: 1. Ministry of Interior, 1987-2003

2. Bureau of Health Promotion, Department of Health, Taiwan, 2004-2011



Healthy Living

1. Tobacco Hazards Prevention and Control

MPOWER

- **M**onitor tobacco use and prevention policies
- **P**rotect people from tobacco smoke via new ban
- **O**ffer help to quit tobacco use
- □ Warnings on tobacco packages
- **E**nforce bans on tobacco advertising, promotion and sponsorship
- **R**aise taxes on tobacco



MPOWER

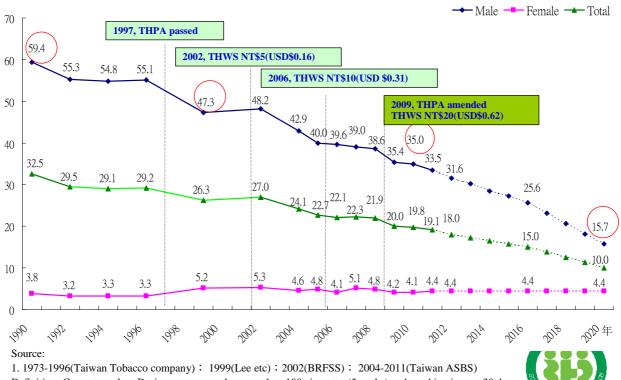
 WHO Report on the Global Tobacco Epidemic, 2008 - The MPOWER Package

Monitor tobacco use and prevention policies
Protect people from tobacco smoke
Offer help to quit tobacco use
Warn about dangers of tobacco
Enforce bans on
tobacco advertising, promotion and sponsorship
Raise taxes on tobacco



Monitor :

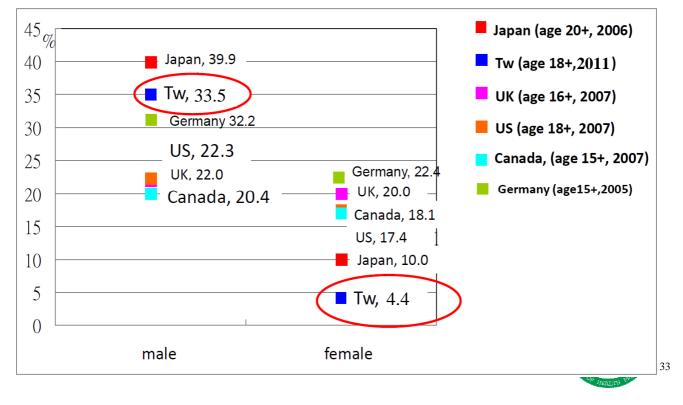
Taiwan Adults Smoking Prevalence and projection to 2020(Age 18+)



Definition: Current smoker, During survey, smoke more than 100 cigarettes(5 packs) and smoking in past 30 days Abbreviations: THWS- Tobacco health welfare surcharge, THPA: Tobacco Hazards Prevention Act

Smoking rate

Taiwanes men smoking rate 1.6 times of American's , 1.7 times of Canadan's



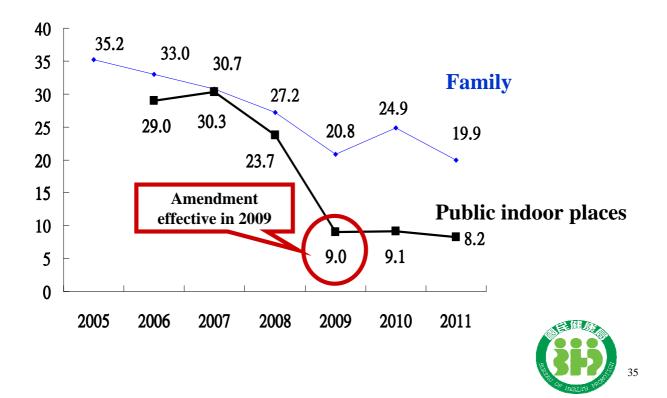
Protect people from tobacco smoke via new ban

Smoking ban on all indoor public and work places plus some outdoor places





Environmental tobacco smoke exposure



Offer help to quit tobacco use

- Smoking Cessation Outpatient Services (Since 2002,10,000/M)
 - □ Distributed to 97% townships
 - □ Point abstinence rate at 6 month: 23.8%
- Second generation smoking cessation payment scheme (since March, 2012)
- Taiwan Smokers' Helpline (Since 2003, 5,000/m)
 30% success rate at 6 month
- Cessation Group-Therapy in the Community (Since 2002)
- Smoking Cessation Campaign (Quit & Win)



36

Extensive training on cessation educators

Background	Ever trainee by 2009	Trainee in 2010	Trainee in 2011	Trainee in 2012 (JanAug.)	Total (persons)
Physicians	8,475	2,733	2,394	646	14,248
Pharmacists	280	5,554	5,198	2464	13,496
Others (nurses, psychologists, etc.)	900	19,083	11,932	3913	35,828
Total	9,655	27,370	19,524	7,023	63,572



"Sign-to-quit campaign" with self-help manual

	99年 末 孫共同緊張網
The Dorace State	
	田田平位 *•
💛 👷 😳 👝 🥸	ME 8'
Carles and a second	0 A. WARE: 0 6
	目: 「●」 書位: ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
	二、以上的人资料、合约增加水均制度具中的规则。2018 经济税、同时不合为期。
A state	行家的第三世界已是他的 副心主

In 2010, 1,458,000 manuals distributed, 50.6% signed to receive follow-up calls, 35.5% found it helpful, 33.2% tried to reduce or quit smoking.



38

Smoke-free health care:

Universal access to cessation help in clinical settings







Healthy Living

2. Pysical Activity

- Advocating a dynamic lifestyle
- Creating Supportive Environments
- Strengthening personal physical skills



Advocating a dynamic lifestyle

- To encourage citizens to take up regular exercise, the BHP made use of the media, such as radio, TV and the Internet for promoting the "10,000 steps a day, makes you healthier" campaign.
- In collaboration with all the counties and cities, the BHP designated November 11 as National Day for Walking to help people integrate it into daily life.
- In collaboration with the Ministry of Education, the BHP strengthened topics concerning physical fitness (including physical activity and diet) to schools. The objective is to make sure children and teenagers learn and cultivate healthy habits both in diet and physical activity.



Creating Supportive Environments

- Identify and improve the obesogenic environment Community obesogenic environments assessment **Building health information** Set up a website to provide information on healthy diets and exercise. Compile a list of frequently asked questions for the "Healthy Centenary, Healthy Taiwan" campaign, and make it available for everyone to view online. Free healthy weight management telephone consultation service (0800-367-100) Provide updated information to the public through social channels such as Facebook. Create a healthy food supply system Let People see, hear, buy and eat healthy foods.
 - Construct dynamic living environments
 - Everyone can exercise wherever and whenever they can



Creating Supportive Environments

 Developing tools to examine obesogenic environments in 22 cities/counties and 368 townships



Toll free helpline and internet telephony 0800-







Facebook



...

Supportive environments for healthy eating

Healthy food certification



Three bundles of veggies cost NTD\$ 10



Aboriginal healthy meal



Lotus meal



Healthy lunch box



Healthy lunch box



Calorie labeling in wholesale stores, lunch boxes, vending machines and chain restaurants







Mayors advocate healthy eating

 "Meat Free Monday" in Taichung city and Chuanhua county government and schools



 "Healthy market" promote local food ingredients in



 500 kilocalories menus with fresh local food ingredients in Hualien county



Local agriculture products-Broccoli in Chiayi county



Traditional Festival Smart Eats

- Help industries make traditional festival foods that are high in fiber and low in salt, sugar, fat and calories.
- Educate the public on selecting healthy traditional festival foods.
- Rice dumpling press conference



Osmanthus rice dumpling



Moon cake by TMH





Snacks for New Year

認識卡路里-	-ex. 常見	食品與	運動	
50 %	燕量 (大卡)	60公斤者走 路分鐘數	60公斤者爬 樓梯階梯数	2046階
奶茶 重量杯	350	113	2431	
花生糖一片	221	71	1535	4
牛軋糖 3顆	180	58	1250	A
夏威夷火山豆10颗	176	57	1222	
鳳梨酥 1個	175	56	1215	
汽水1罐	140	45	972	
麻糬栳1個	100	32	694	
花生一湯匙(20個) 🎆	90	29	625	
牛舌餅2片	80	26	556	
巧克力球1球 😡 🗸	75	24	521	an ch
杏仁果8顆	55	18	382	
三合一咖啡隨身包 1000000	54	17	375	

Supportive environments for dynamic lifestyle



Supportive environments for active living

Exercise in elementary schools





Calorie labeling on stairs

Exercise in BHP

國民健康局-上班族健康操影片職場版



Healthy walking in community



Healthy Exercise on fixed time and places led by volunteer in Community of Tainan



Supportive environments for active living

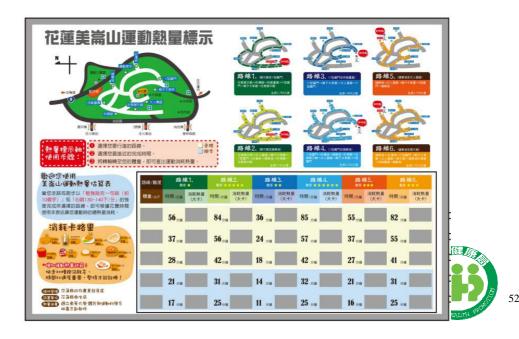
 Spent calories are marked on walking paths in Chiayi City





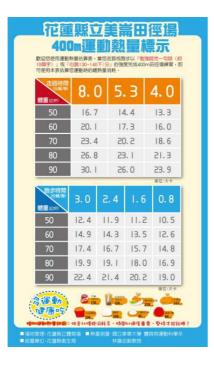
Supportive environments for active living

- Meiluen Mountain healthy walk paths, Hualien County
- Path distance and calories spent are marked on the path map.
- Walk paths are planned according to time of exercise and body weights 6 different routes in total.



Supportive environments for active living

 Calories spent after running are clearly labeled by the Meiluen Track Ground in Hualien County, based on user's weight and time spent exercising.





53

Supportive environments for active living

Calories spent after cycling for 1km is labeled on bike paths in Chia Yi county, based on the weights of the cyclists.





Develop Personal Skills

Designing Health Exercise







Health Exercise Disk

Downloadable Health Exercise

- Health Exercise Press conference Media promotion planning and national sweepstakes
- Conduct 1st and 2nd wave survey to know the change of KAP
- Set up obesity prevention website http://obesity.bhp.gov.tw
- Free healthy weight management telephone consultation service (0800-367-100)
- Video whiteboard on the topic of Healthy Weight Loss
- Compile a list of frequently asked questions for the "Healthy Centenary, Healthy Taiwan" campaign, and make it available for everyone to view online.



Guidebook, brochures, billboards, and Instruction Manuals

- Instruction Manuals for hospital, workplace, local health bureau and school to assist all sectors in implementing healthy weight loss management (11)
- Distribute guidebooks and brochures of "Healthy Centenary, Healthy Taiwan" to help people learning "Healthy eating, Happily exercise, Weigh everyone"

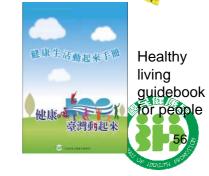


健康生活動起來了

brochure

Instruction Manuals

學校健康體位教育



動起來衛生局教

Develop Personal Skills







	夏威夷: 圓粒酥
	成至5年 汽水1峭
	麻福栳 花生一;
materials	牛舌餅

認識卡路里	一ex. 常見	食品與	理動	
品名	焦量 (大卡)	60公斤市走 路分撞载	60公斤者爬 植植殖梯数	204675
奶茶 重量杯	350	113	2431	
花生糖一片	221	71	1535	4
牛軋糖 3颗 15	180	58	1250	
夏威夷火山立10颗 💏 🍼	176	57	1222	
鳳葉酥 1個	175	56	1215	
汽水1罐	140	45	972	
麻褐花1個	100	32	694	
花生一湯匙(20個) 🧊 👝	90	29	625	
牛舌餅 2月	80	26	556	
巧克力球1球 📖	75	24	521	a'rei
杏仁果8類	55	18	382	
三合一咖啡随身包 🎫	54	17	375	

2.Obesity Prevention section on the BHP official website



5. Aboriginal healthy exercises



6.Healthy weight management weaved into local tourism aboriginal harvest dances

4.Calorie comparison chart by BHP - to burn the calories of a single cup of Bubble tea, one has to climb the entire floors of Taipei



Healthy Environment

- Healthy Settings
- Healthy Hospitals



57

Partners of Health Promotion

- Public health team: central and local
- Healthcare team: public and private
- Community participation through places where people live, work, study, seek care, etc.
- Academic field
- NGOs
- Media
- Political power: political leaders, central and local governments
- Industry



Health Promoting Settings (Nov. 2012)

	SETTINGS	TOTAL	
Communities ev	531		
Communities	with ongoing activities in HP	397	
Promoting Bet	el-quid Free Communities	233	
Promoting Sm	oke-Free Communities	217	
Promoting Saf	e Communities	82	
Promoting Hea	Promoting Healthy-Ageing Communities		
Promoting Health	7,411		
Health Promoting	g Schools	3,699	
	Healthy Communities	84	
Certified by	Baby-Friendly hospitals	144	
BHP	HP Workplaces	303	
	Age-Friendly Hospitals	32	
Certified by Healthy City		21	
WHO	Health Promoting Hospitals	91	
Collaborating Centers	Safe Community	19	
	Safe School	46	

International Certification (Nov. 2012)

Healthy Cities: a total of 10 cities/counties and 11 districts joined in the Alliance of Healthy Cities in the WPRO.



WHO Collaborating Centre for Healthy Cities and Urban Policy Research



Safe Communities and Safe Schools : a total of 19 communities and 46 schools were approved by the WHO International Community Safety Promotion Center.







 Health Promoting Hospitals: 91 Hospitals have joined the WHO International Network of Health Promoting Hospitals.



International Network of Health Promoting Hospitals & Health Services



WHO Collaborating Centre

for Evidence-Based Health Promotion in Hospitals



Health Promoting Hospitals

- Establishment of Taiwan HPH Network (1st Network in Asia), Dec. 2006
- Taskforce on HPH and Environment was approved to set up with 4-year periods by General Assembly of International HPH Network in 2010.
 --Dr. Chiou is the leader
 - --164 Taiwan hospitals and 10 foreign institutions have joined this task force.
- Dr. Chiou was elected as the Chair of International HPH Network in Apr. 2012
- The 20th International HPH Conference was successfully hosted by Taiwan in April of 2012 – the first time it's outside of Europe.

- International HPH Network established in 1990
- Up to Nov. 2012 (data from: www.hphnet.org)
 - -- over 900 member hospitals from 40 countries
 - -- 40 National/Regional HPH Network



Healthy Ageing

1. Four Key Components of Proactive Approaches to Healthy Ageing

- □ Preventive services and Disease management
- □ Age-friendly health services
- Community health promotion for elderly
- **D** Towards an age-friendly society





Preventive Services for Adult and Elderly

Item	Target	Interval	Content
Adult preventive health services	People aged 40-64	3 years	Physical examination , Health education, Blood test, urine routine test
	People over 65 years old	1 year	
	People who suffering from polio over 35 years old	1 year	
	Indigenous people over 55 years old	1 year	



Universal coverage of health services

- Provided jointly by National Health Insurance and Bureau of Health Promotion
- Scope:
 - evidence-based screenings, such as screening for: hypertension, hyperlipidemia, diabetes, obesity, GFR, health consultation, cervical cancers, CRC, breast cancer, oral cancer.
 - □ immunization (elderly flu shot),
 - □ smoking cessation,
 - □ acute and chronic illness care,
 - □ medications,
 - □ surgeries,
 - □ basic dental services, etc.



Disease management for chronic conditions

Ex.

- Diabetes
- Hypertension
- Chronic kidney disease
- Depression
- Asthma
- etc.



Components of disease management -1

- Evidence-based guidelines for diagnosis, management and follow-up
- Training and certification for healthcare providers based on the guidelines
- Team-based care by doctors + nurses, dieticians, care managers, etc.
- Cooperation between providers
- Quality indicators and monitoring of performance
- Extra pay for good performance



Components of disease management -2

- Planned care according to the guidelines, with:
 - Patient registry
 - Computerized decision support and reminding for providers
 - Regular review of complications
 - Reminding for patients to return for treatment and follow-up
 - Personal health record for patients to carry
- Patient empowerment:
 - □ Health education and shared decision making
 - List of resources (ex. for group physical activity, healthy foods, etc.)
 - Patient groups



Taiwan's Framework of Age-Friendly Hospitals and Health Services

- Based on:
 - □ WHO age-friendly principles
 - WHO Standards of Health Promoting Hospitals
- **32** Hospitals in Taiwan are Age-Friendly certified (November 2012)
- Working Group on HPH and Age-Friendly Health Care was approved by General Assembly of International HPH Network in Apr. 2012 -- Dr. Chiou is the leader

<u> </u>	Figure 6. Developing Age-friendly PHC Centres	
Implementing health promotion in hospitals: Manual and self-assessment forms	PHC Centre Objectives + Age-friendly Principles = Age-friendly PHC Centre Availability Accessibility Information, education and training Information, education Comprehensiveness Ouality Community-based health care management systems Information Fliciency Non-discrimination Physical environment and accessibility Information	
		69

Community Health Promotion for Elderly National Program on Healthy Ageing

2009-2012

Priority topics in community

1. Physical activity	5. Smoking cessation
2. Falls prevention	6. Mental health promotion
3. Nutrition	7. Social participation
4. Oral health	8. Screening



Health promotion station



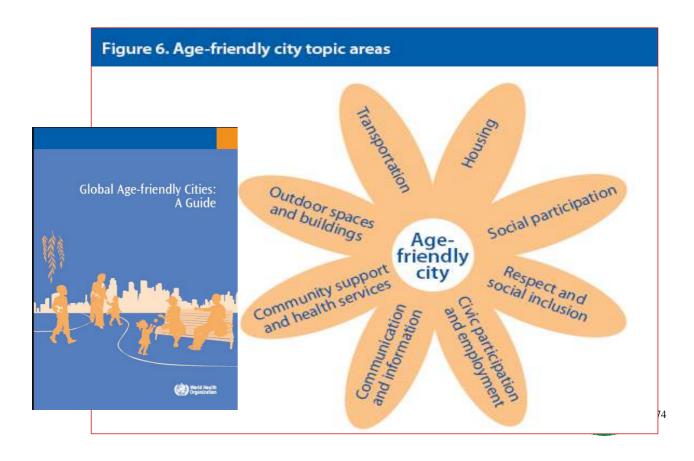




Community screening



WHO Age-Friendly Cities - A Guide



Age-Friendly Cities Project

■ in 2010 : 1 pilot city

- Commitment of the mayor and inter-department cooperation of the city government
- Collecting the views regarding the problems, needs and priorities from the elderly;
- Developing locally-tailored age-friendly city indices
- □ Review of age-friendliness in major policies and services
- in 2011:
 - Develop a three-year action plan based on the results of needs assessment and self-assessment
 - Apply to the WHO Global Network of Age-friendly Cities.
 - Extend to 8 counties/cities.
- in 2012:
 - □ 20 cities/counties participate

Vision

■ in 2013 : all counties/cities in Taiwan



President Ma visited seniors in Chia-Yi City (the first pilot age-friendly city in Taiwan)

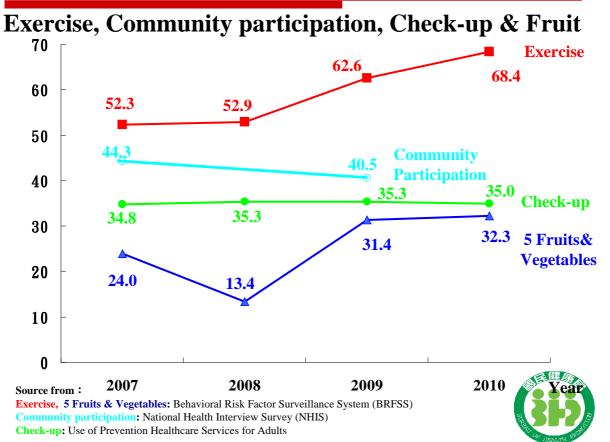




President Ma led all to pledge toward an age-friendly society

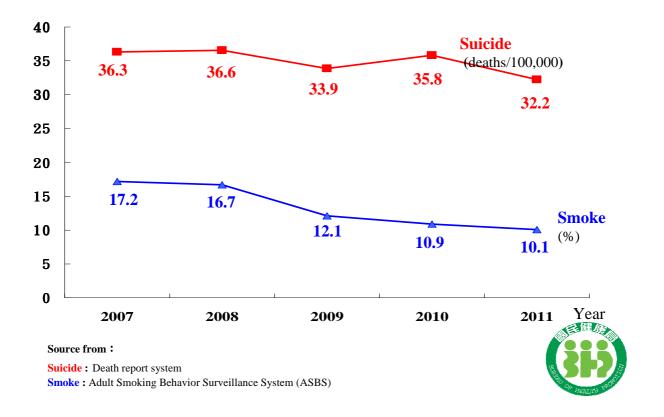


Elderly health promotion indicators : -1



Elderly health promotion indicators : -2

Smoke, Suicide



Healthy Ageing

2. Prevention and Control of Major Chronic Diseases -

Cancer as an example

- **Given Screening for Major Types of Cancer**
- Quality of Cancer Care

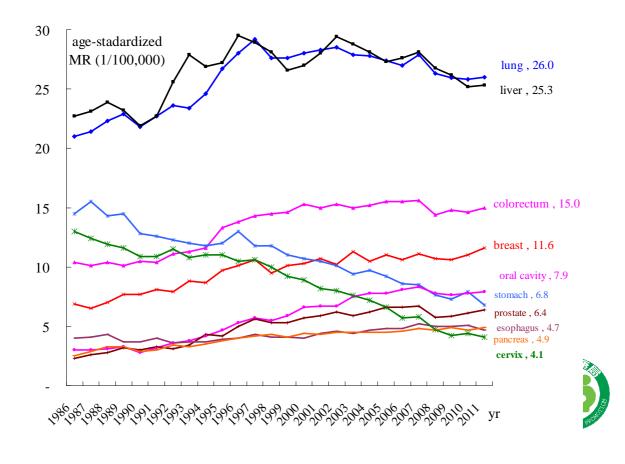


Burden of Cancers in Taiwan

- Cancer has been the number 1 killer in Taiwan since 1982.
- The cancer death tolls continued to rise until 2007 and accounted for 28% of total deaths and 10.1% of National Health Insurance expenditure in 2011

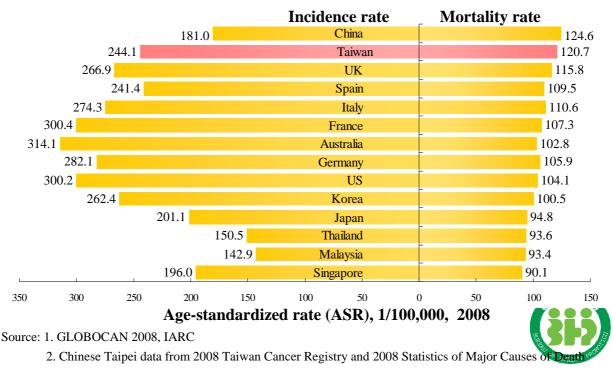


The trend of mortality of 10 leading cancers



Cancer -- Incidence & Mortality Rate

Cancer is the top leading cause of death in Taiwan. The incidence and mortality rates are both higher than many other countries



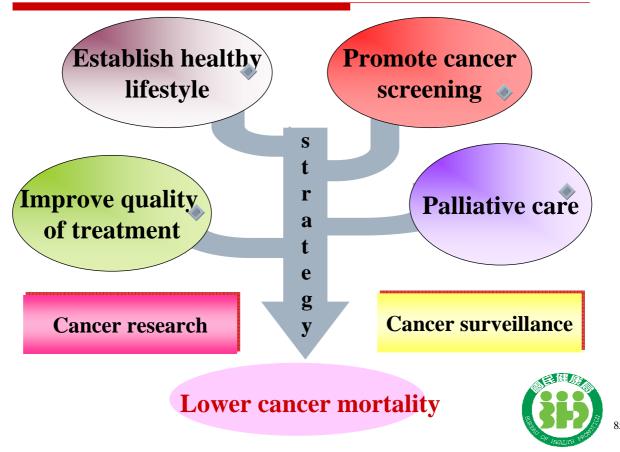
Objectives of National Cancer Control Program

Long term:	reducing	standardized	mortality	rate by 10%
0	0		v	v

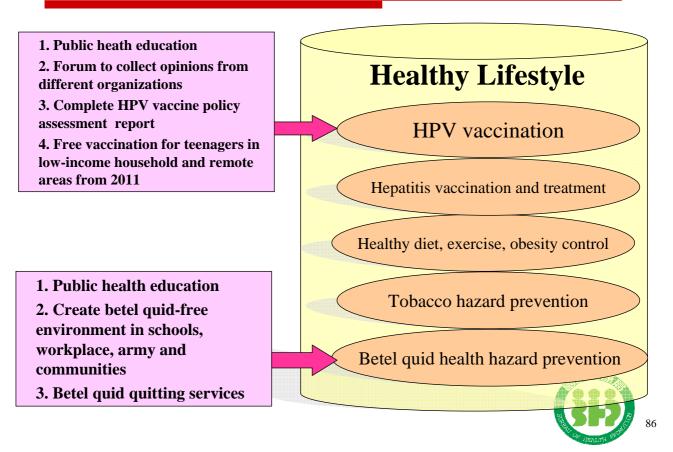
		2009	2013	
Cancer	Target	Regular Screening rate	Regular screening rate	Lifetime screening rate
Cervical Ca.	3-yr pap smear (or HPV) for female aged 30-69	58%	70%	-
Breast Ca.	2-yr mammogram for female aged 45-69	11%	30%	55%
Colorectal Ca.	2-yr i-FOBT for people aged 50-69	10%	50%	70%
Oral Ca.	2-yr visual inspection of oral cavity for smokers and betel-quid chewers aged 30+	28%	50%	70%

84

Strategy of Cancer Control



Strategy - Establish Healthy Lifestyle



Strategy - Promote Cancer Screening

Cancer	Target	Tool	Interval
	Women aged ≥ 30	Pap smear	3 years
Cervical Ca.	Women refused Pap Smear	HPV test	5 years
Breast Ca.	1.Women aged 45-69 2.Women aged 40-44 with family history	Mammography	2 years
Colorectal Ca.	People aged 50-69	i-FOBT	2 years
Oral Ca.	Betel-quid chewers and smokers aged ≥ 30	Oral mucosa exam	2 years

Evidences of Cancer Screening

Screening tool	Effectiveness/Mortality (screening interval)	ICER (screening interval)	
Pap smear	↓ 60-90% (3-5 years)	12.3 thousand USDs (3 years)	
Mammography	↓ 21-34% (1-3 years)	40.3 thousand USDs (2 years)	
Oral mucosa exam	↓ 43% (3 years)	11 thousand USDs (2 years)	
i-FOBT	↓ 18-33% (1-2 years)	Dominated	



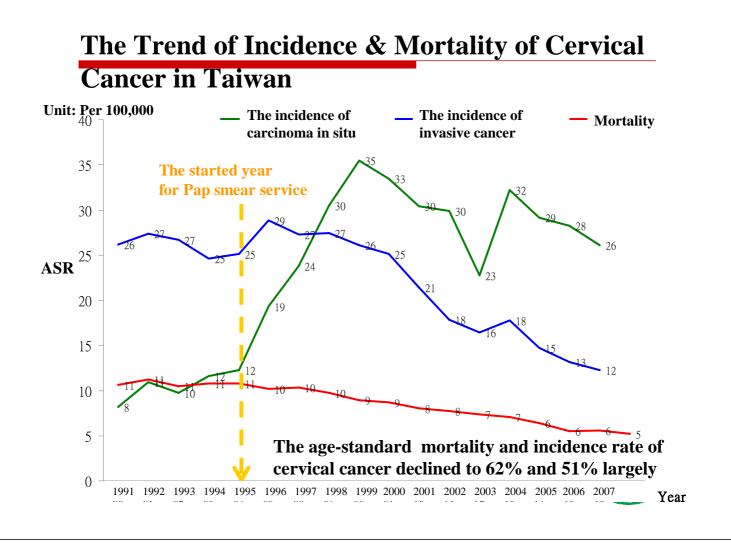
Strategy - Promote Cancer Screening

- Promote screening through mass media and working with NGOs and enterprises
- Provide accessible services (mobile clinics)
- Subsidize hospitals to integrate cancer screening into daily practice
 - **c** reminding system in the outpatient service
 - patient-friendly screening services
- Establish an effective referral and follow-up system for screened positive cases
- Conduct QC program to ensure screening quality
 - personnel training and certification
 - **medical institution accreditated and regular quality evaluation**
 - □ data analysis, feedback and monitoring

Positive Predictive Value & Case Yield of Screening Program, 2011

	PPV			Case Yield		
Cancer	Pre- cancer	Cancer	Total	Pre- cancer	Cancer	Total
Cervical	1/2	1/5	1/2	1/92	1/293	1/70
Breast		1/17	1/17		1/172	1/172
Colorectal	1/2	1/19	1/2	1/26	1/257	1/24
Oral	1/22	1/36	1/13	1/326	1/394	1/178

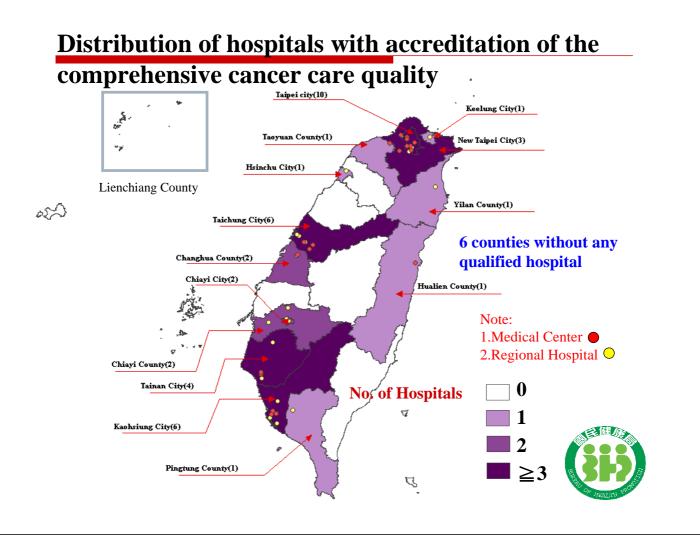




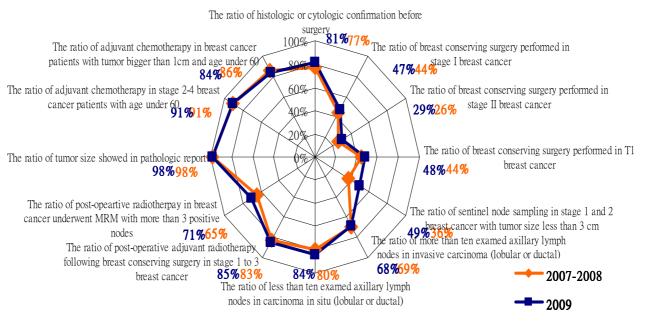
Strategy - Improve Quality of Cancer Care

- Subsidize hospitals to enforce "Regulations for Cancer Care Quality Assurance Measures"
- Conduct the accreditation program of cancer care
 - hospitals with more than 500 new diagnosed cancer cases every year are qualified for application
 - among 43 qualified hospitals, 41 hospitals received certification.
- Develop quality indicators of cancer care to evaluate the performance of hospitals
 - □ data analysis, feedback and monitoring



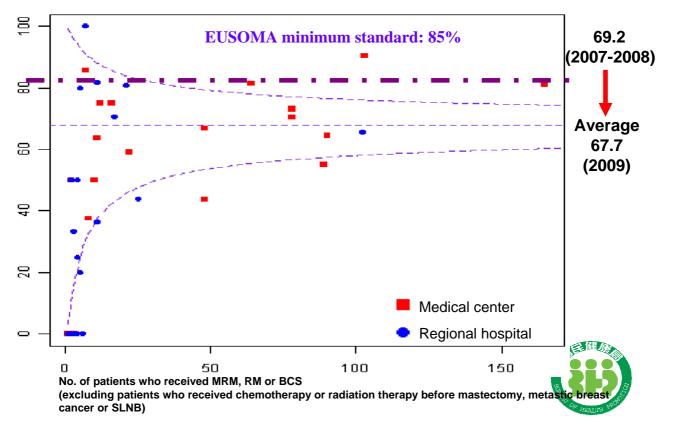


Performance on the core measures of breast cancer treatment





The ratio of more than ten axillary lymph nodes examed in invasive carcinoma (lobular or ductal)



Strategy- Surveillance and evaluation

- □ Mortality:
 - > Death certificate and registry
- □ Morbidity and healthcare utilization:
 - > Cancer registry: launched in 1979, hospitals \geq 50 beds
 - Household registry + Cancer screening registry
 - Claim Data of National Health Insurance
- □ Surveillance on risk factors :
 - Behavioral risk factors surveillance system (every year)
 - National Health Interview (every 4 years)
 - Measurement on obesogenic environments
- □ Evaluation of public awareness and practice, etc.



Special Health Topics

- Preventive healthcare services for aboriginal adults
- Oral care for people with disabilities
- Services for new immigrants

Preventive healthcare services for aboriginal adults

- (A)Provided once every year for aboriginals aged 55 years and older since July, 2010.
- (B)An aboriginal version handbook of adult preventive health services was compiled and distributed to the eligible groups to improve their compliance with preventive healthcare and self-management of health.
- (C)28,000 aboriginal adults availed themselves of the services in 2011, and the number of users is expected to be 29,000 in 2012.



Oral care for people with disabilities

Oral health of people with disabilities was inferior to that of the general public, and the Five-Year Oral Health Program for people with disabilities was conducted in 2008.

(A)12 home service teams were established during 2010-2011 and provided oral care services to 4,000 people with disabilities(B)Provided oral care services to 25,000 people with disabilities at homes and 154 specialized institutions during 2008-2012



Services for new immigrants

(A)Enroll in the National Health Insurance

(B)Reproductive health promotion and management: 99%



(C)Enhance mandarin ability(D)Life skill education & guidance





Health education





100

Health Promotion Research and NCD Surveillance



Sources of NCD Surveillance Data

Registration system

- □ Household registration system (MOI)
- □ Birth reporting system (BHP)
- □ Death reporting system (DOH)
- □ Cancer registration (BHP)

Administration system

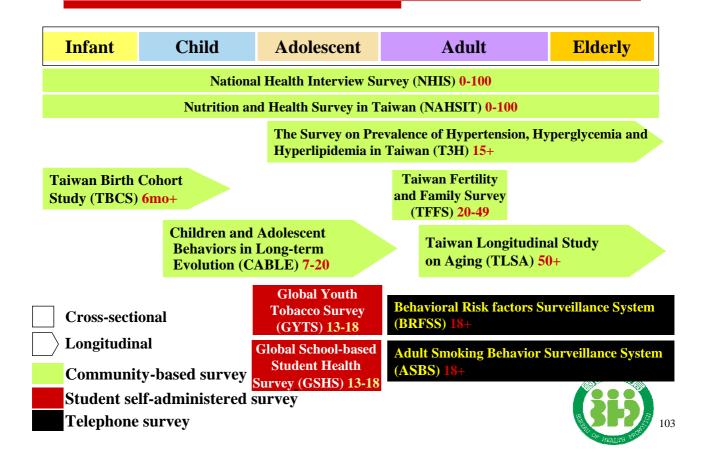
- □ The National Health Insurance data (BNHI)
- □ MCH service data base (BHP)

etc.....

Survey



NCD Surveys on population across lifespan



Application of Internationally Comparable Tool

WHO protocol

Global Youth Tobacco Survey (GYTS,2004 ~)

Global School Personnel Survey (GSPS,2004 ~)

Global Health Professions Student Survey(GHPSS,2009~)

Global School-based Student Health Survey (GSHS,2012~)

Others

Washington Group Questions on Disability (NHIS,2013)

The European Health Literacy Survey (NHIS,2013)



Thank You

If you have any questions or sugestions, please contact Vivian Liu at <u>chliu@bhp.doh.gov_tw</u>

Cherishing Life, Promoting Health

