# National Cancer Control Program in Korea

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H. President National Cancer Center, Korea (NCC-K)

Secretary-General Asian Pacific Organization for Cancer Prevention (APOCP)

## Health and Welfare Statistics Republic of Korea

population:

(ranked 18th in the world)

49 M (south)

23 M (north) as of 2008

75.7 yrs (M) / 82.4 yrs (F)

People



aging (65+):

life expectancy:

9.0% (2005) 20.0% (2026)

population IR:

0.33% (2008)

health insurance: universal coverage

per capita GNI: USD 20,045 (2007)

major industries: semiconductors, automobiles, ships, mobile telecoms, chemicals, steels, consumer electronics









## Incredible Changes in Korean Society from Agricultural to Highly Advanced Industrial Country

Cause of death = infections
Life expectancy < 45 yrs
Per capita GNI < US\$200
Traditional medicine



Korea

Cause of death = cancer

Life expectancy = 79 yrs

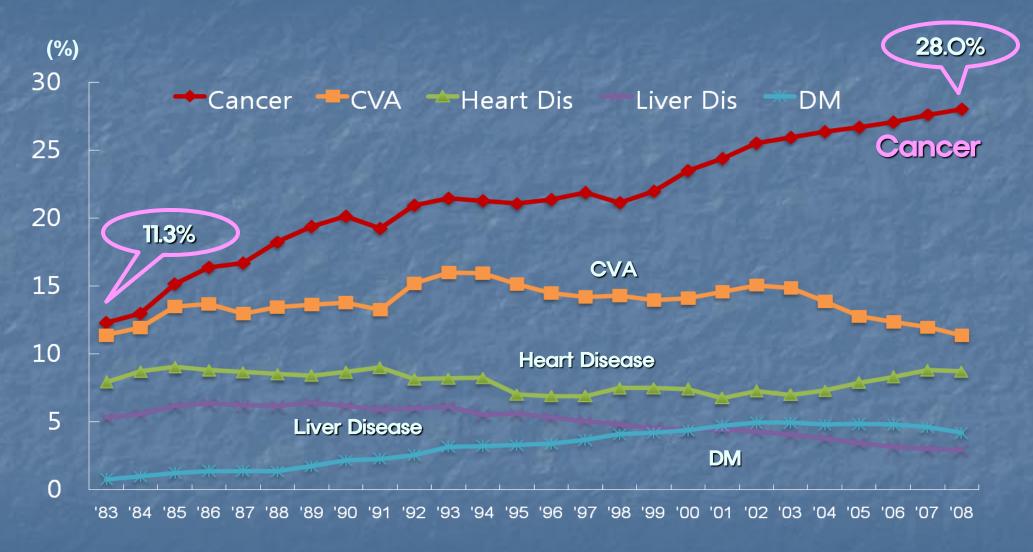
Per capita GNI = US\$20,000

Universal health insurance



1954 2010

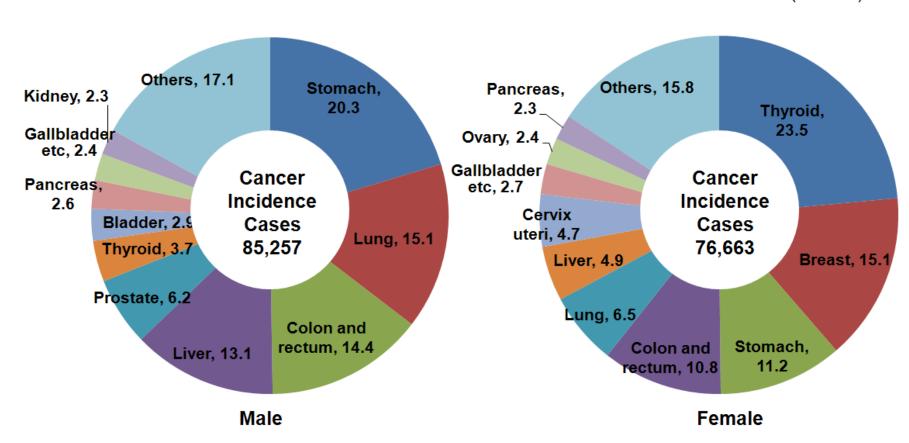
## Causes of Deaths in Korea



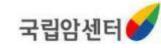
**Source: Korea National Statistical Office, 2008** 

## Relative Frequency of Incident Cancer Cases in Korea 2007

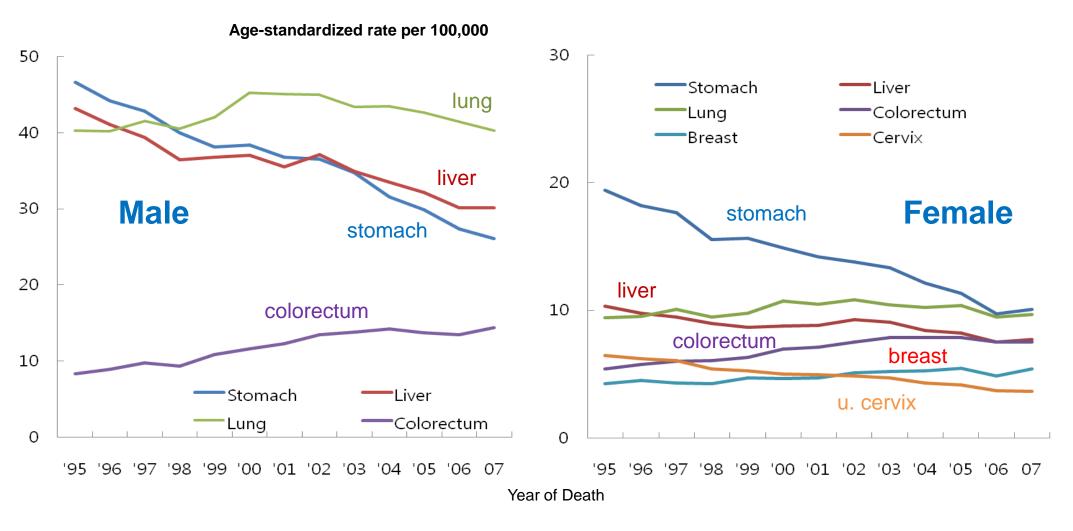
(Unit: %)







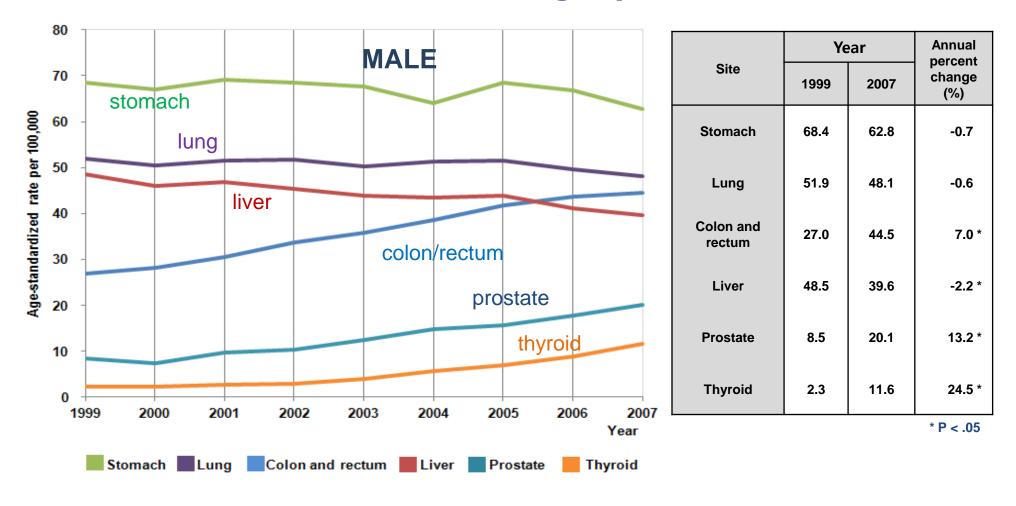
## **Trend in Major Cancer Mortality Rates**



Source: Annual Report of Causes of Death, Korea National Statistical Office (age-standardized rates on the 2000 Korea registration population)

### Trend in Age-standardized Incidence Rates of Cancer

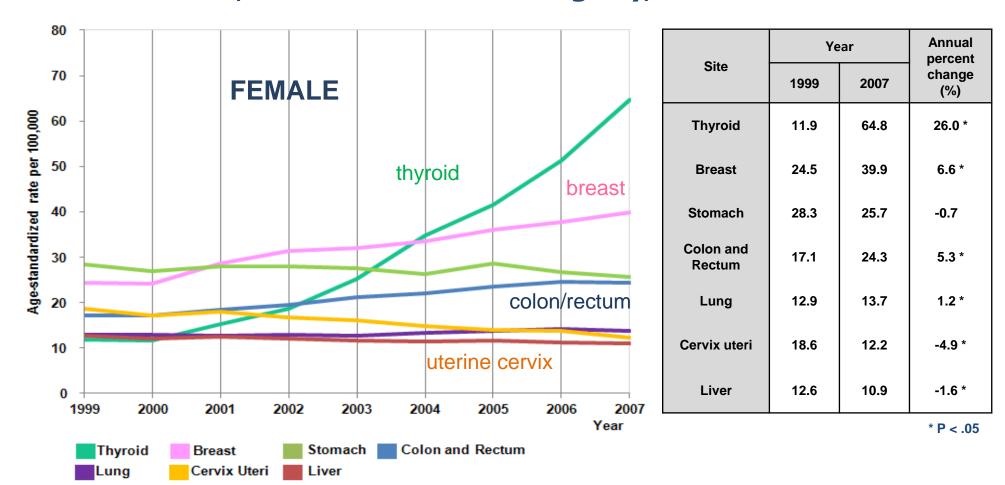
#### Male, Korea Central Cancer Registry, 1999-2007



Source: Korea Central Cancer Registry, 2010

### Trend in Age-standardized Incidence Rates of Cancer

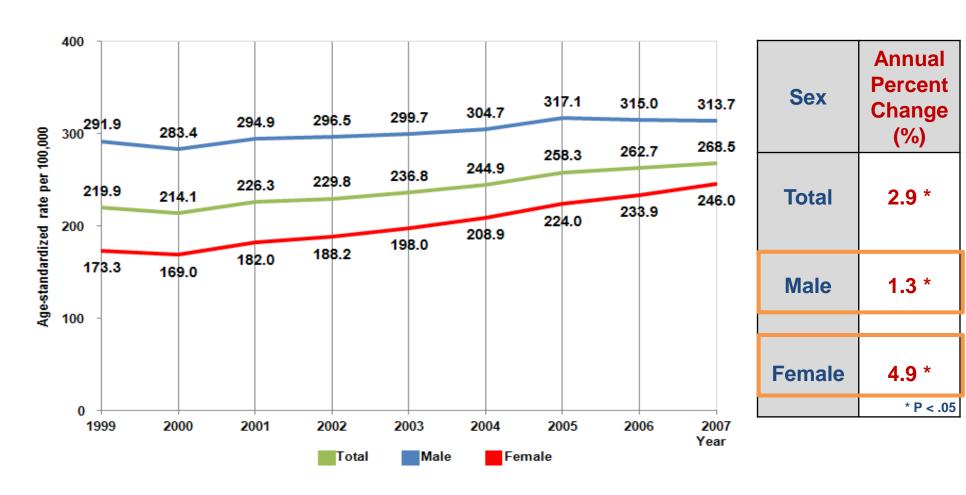
#### Female, Korea Central Cancer Registry, 1999-2007



**Source: Korea Central Cancer Registry, 2010** 

### Trend in Age-standardized Incidence Rates of Cancer

#### Korea Central Cancer Registry, 1999-2007



**Source: Korea Central Cancer Registry, 2010** 

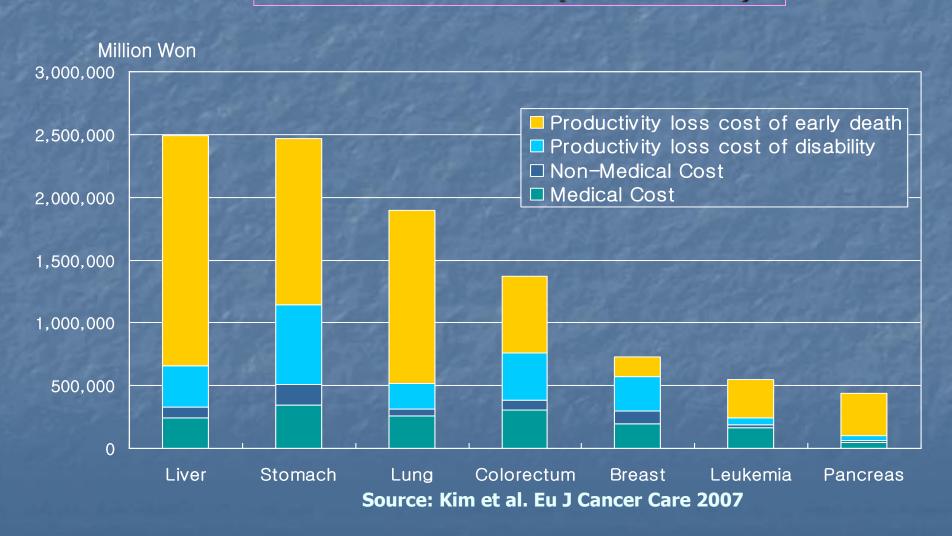
### **Cumulative Risk of Cancer in Korea**

Life expectancy 76 years 83 years (2007)34.4% 28.9% **Cumulative risk** Male **Female** 1 out of 3 1 out of 4

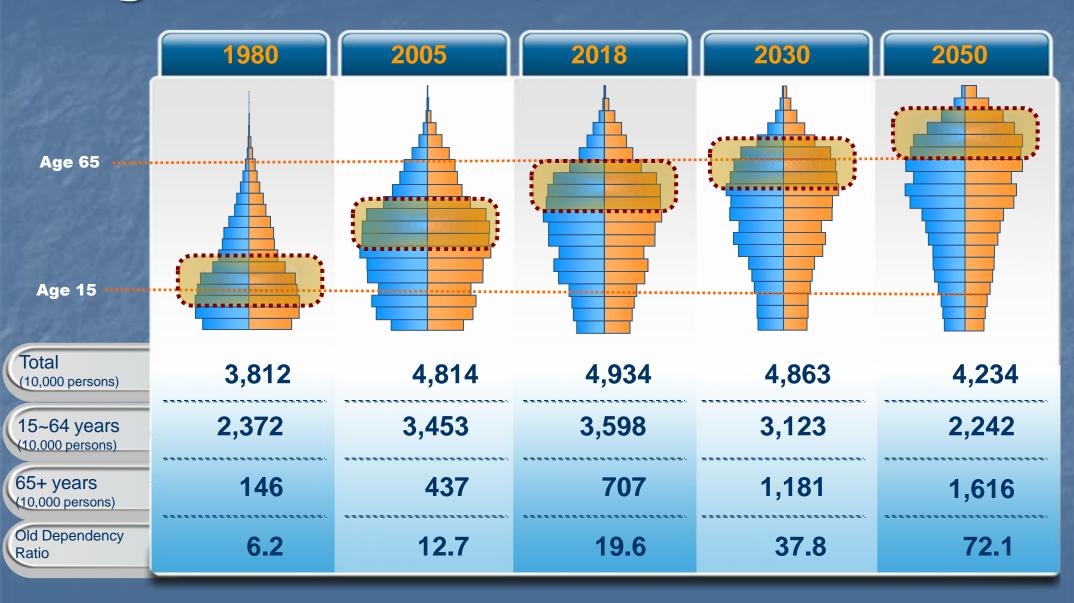
**Source: Korea National Statistical Office, 2009** 

# Economic Burden of Cancer Korea, 2005

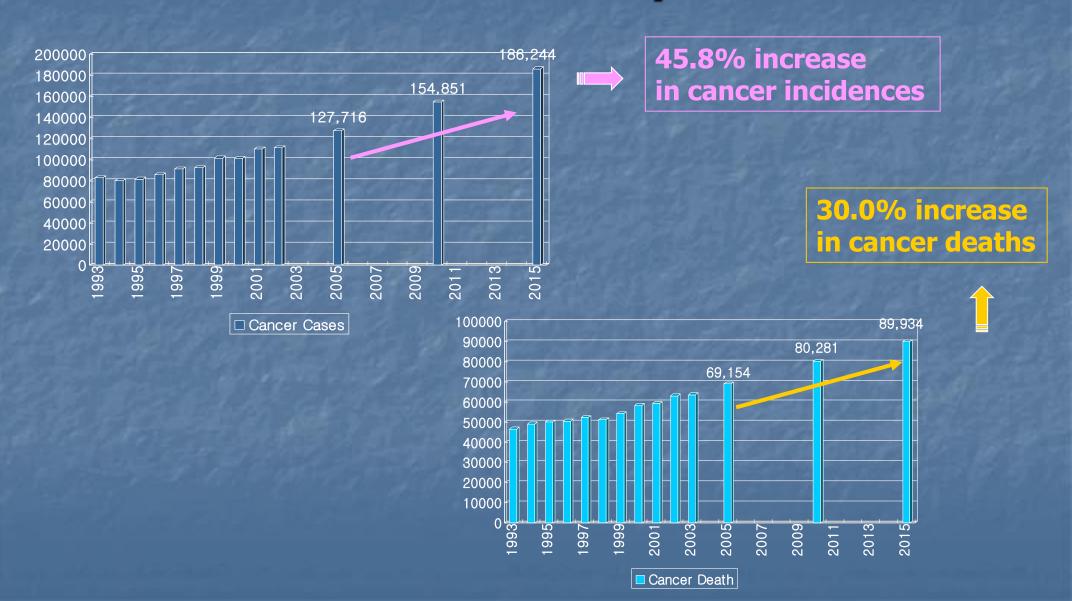
Total: 14 billion USD (1.7% of GDP)



## Age Tsunami: Baby Boomer born 1953-1958



## Estimated Cancer Incidences and Cancer Deaths by 2015



## National Action against Cancer in Korea

1996	1st Term 10-year Plan for Cancer Contro	別 第1期 癌征服推進事業
1999	National Cancer Screening Program	國家癌檢診事業
2000	Cancer Control Division, Health Promotion Bureau,	
	Ministry of Health & Welfare 保健和	區祉部 健康增進局 癌管理課
2001	National Cancer Center	國立癌센터(中心)
2003	National Cancer Act	癌管理法
2004	Regional Cancer Centers	地域癌센터(中心)
2006	2 <sup>nd</sup> Term 10-year Plan for Cancer Contro	为 第 <b>2</b> 期 癌征服推進事業

# Infrastructure for National Cancer Control Program



## **National Cancer Screening Program**

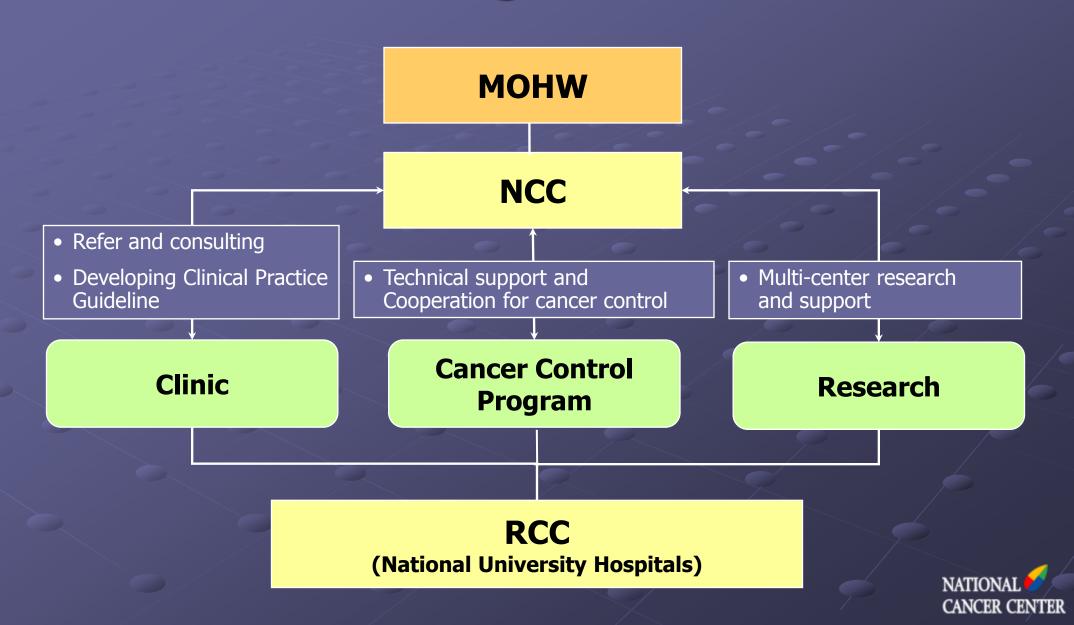
#### 國家癌早期檢診事業

Target Population	Medicaid	NHI Beneficiaries <sup>1</sup>
Starting Year	1999	2002
Target Cancer for Screening	Stomach Breast Cervix Liver <sup>3</sup> Colorectal <sup>4</sup>	Stomach Breast Cervix <sup>2</sup> Liver <sup>3</sup> Colorectal <sup>4</sup>

- 1. Lower 20-50 % of premium of National Health Insurance
- 2. Included in the routine health check-up since 1988
- 3. Included in NCSP since 2003
- 4. Included in NCSP since 2004



### Framework of Regional Cancer Center



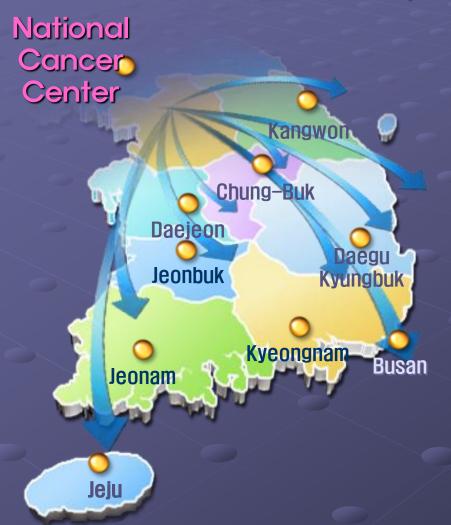
## National Cancer Center of Korea 국립암센터 國立癌中心





## National/Regional Cancer Centers in Korea

國立癌中心/地域癌中心



- > 9 RCCs were designated since 2004
- financial and technical support
   by the Central and Local government
   (USD 20 million for each RCC)
- > to provide clinical services for cancer patients at the local level
- > to facilitate national cancer control program including cancer prevention and screening
- to perform population-based researches on collaboration basis, i.e., multi-center trials, tumor banks and genome cohort



## Cancer Registry System in Korea (since 1980)

Hospital Cancer Registries

Regional Cancer Registries

hospital-based

since 1980

headquarter: NCC

coverage: 95% of all cancers







population-based

Seoul / Busan
Daegu / Gwangju
Incheon / Daejeon
Ulsan / Jeju

coverage: 50% of population

Site-specific Cancer Registries

Academic Societies: breast, uterine, cervix etc.

### **Cancer Statistics in Korea**

**Mortality** 

(戶籍法,統計法)

National Death Certificate

National Statistical Office

Incidence

(癌管理法)

(國立癌센터法)

The Korea Central Cancer Registry: since 1980

nationwide hospital-based cancer registry

covers 90% of all cancer cases

Regional Cancer Registry: 8 geographical areas

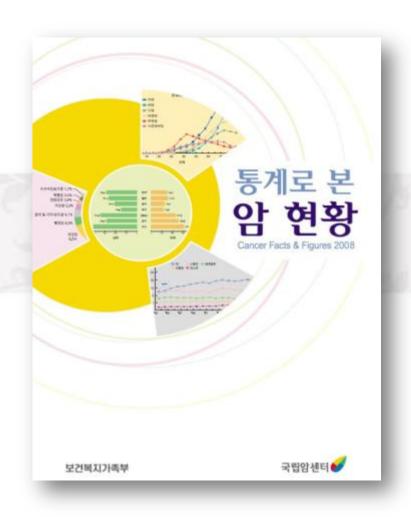
Medical utilization (國民健康保險法) Health Insurance: universal coverage since 1988



Korean ID 13 digits 住民登錄番號

## 2008 Cancer Facts & Figures

Korean Cancer Fact Book (March 21, 2008)





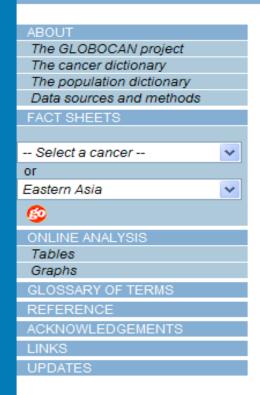


#### International Agency for Research on Cancer



### **GLOBOCAN 2008**

Cancer Incidence and Mortality Worldwide



#### THE GLOBOCAN PROJECT

Welcome to the GLOBOCAN project. The aim of the project is to provide contemporary estimates of the <u>incidence</u> of, and <u>morthage</u> have been prepared separately for each sex and for ten broad <u>age groups</u>. Please note that:

- The GLOBOCAN estimates for 2008 are based on the most recent data available at IARC and on information publical.
- Because the sources of data are continuously improving in quality and extent, estimates may not be truly comparable differences may be the result of a change in the methodology and should not be interpreted as a time trend effect.

#### Usage:

- ▶ For a quick access to a summary of the burden of cancer in a country or for a cancer, use the FACT SHEETS option. Fact S They were developed to provide a quick overview of frequently-requested cancer incidence and mortality statistics.
- ▶ If you want to perform simple analysis or create your own graphs using GLOBOCAN data, use the ONLINE ANALYSIS me

#### Notes:

- ▶ The material extracted from this website is in the public domain. You may use it "as is" but must cite the corresponding re
- ▶ The Cancer Information Section (CIN) of IARC reserves the right to update or change information contained in the databas
- IARC has proprietary rights to the materials on the Website. Systematic retrieval of data to create or compile, directly or ind

Should you find any error, inconsistency or mistake, please contact the CIN section at IARC.



### National Cancer Act, revised in 2006

- central and regional government must establish the plan for cancer control every 5 years
- establish National Cancer Control Committee
- support cancer research
- establish cancer registry & National Cancer Screening Program
- start National Hospice-Palliative Care Program
- amend cancer registration law based on "Statistics Law"
- establish National Cancer Prevention Day March 21th (3-2-1)
- activate cohort study, regional cancer center
- quality assessment of cancer screening program
- support cancer burden of cancer patients

# National R&D Program for Cancer Control (since 1996~)

#### Causes and Mechanisms of Common Cancers

Cancer etiology
Cancer metastasis and progression
Tumor immunology
Functions of tumor suppressors

#### Cancer Therapeutic Technologies

Surgical, radiological chemo-therapeutics
Anticancer drug candidates
Bone marrow transplantation
Molecular/cellular therapeutics for cancer
Alternative medicine for cancer
Multi-institutional clinical trials for cancers

#### Cancer Diagnostic Technologies

Diagnosis of precancerous lesions
Discovery of new tumor markers
Development of new diagnostic technologies
using novel targets or tools
Studies on the movement, storage and
reproduction of diagnostic media

#### Cancer Prevention and Control

Intervention studies on risk factors for cancer prevention

Cancer education, awareness, and information Enhancing the quality of cancer screening

Improving of life for cancer patients and palliative care

Cancer control policies



## **Plans for Activating Cancer Research**

increasing the government R&D budget for cancer to 300 million USD per annum

 $\rightarrow$  0.3% of the total government budget



- strengthening infrastructure
  - cancer cohort, tumor bank, cancer information
- translational research: from bench to bedside
- activating clinical trial: multi-institutional clinical trials

### **Health Promotion Fund**

Ministry of Health & Welfare

#### **Health Promotion Act (1995)**

major source: tobacco sales tax

(KT&G: Korea Tobacco & Ginseng Co.)

Korea Tomorrow & Global

15 cents / 1.5  $\sim$  2.0 dollars / pack (  $\sim$  2004) 35 cents / 1.9  $\sim$  2.5 dollars / pack (2005.1.1)

#### **Health Promotion Fund:** 1.9 billion USD (2008)

- infrastructure for health promotion
- social indirect investments for health
- genome cohort: 10 million USD (2006)

### 保健福祉部 健康增進基金



## Korean Genome Epidemiologic Study: KoGES Korean CDC Cohort

Began in Nov. 2004 (~2010)

90,000 from community-based model 160,000 from institution-based model ( 250,000 Health Examinee)

- 12 geographic sites for model I
- 12 medical institutions for model II
- <u>130,000 persons enrolled</u> (as of Dec. 2007)
- interviewer-administered questionnaire
- bio-repository: central / backup
- repeated measurements every 2 or 5 years
- Asia Cohort Consortium (ACC) protocol



Source: Yoo et al. 2005



## National Cancer Center – Korea Korean NCC Cohort

#### **Cancer Screenee Cohort**

National Center for Cancer Prevention and Early Detection



questionnaire

blood / urine

tumor bank

30,000 men & women (~2007)

target: 100,000 (5,000/yr)

## **Asia Cohort Consortium**

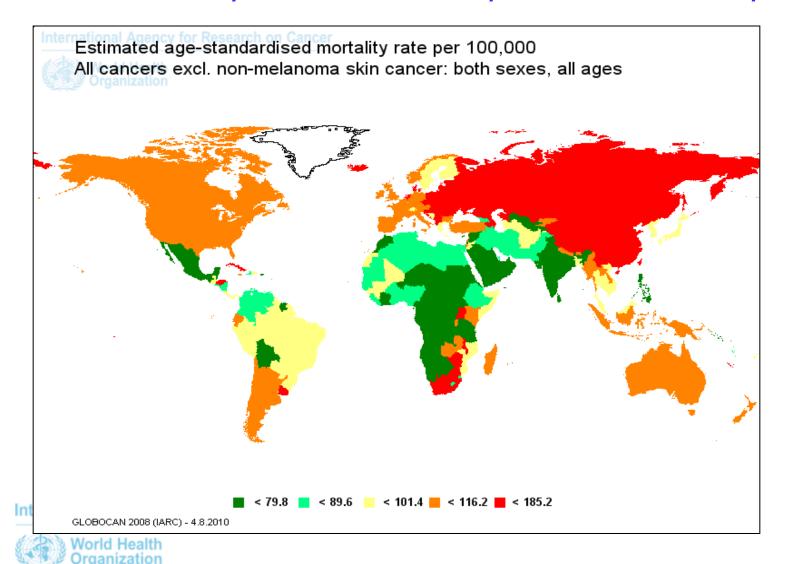


Coordinating Center at FHCRC

# Early Detection by National Cancer Screening Program



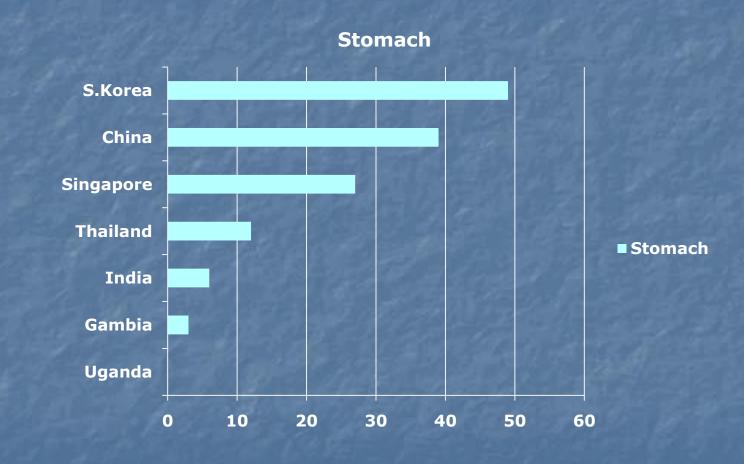
## Global Distribution of Cancer Mortality ASIR, all cancers, both sexes, all ages



Asian shows
similar to higher
mortality
than the Western.

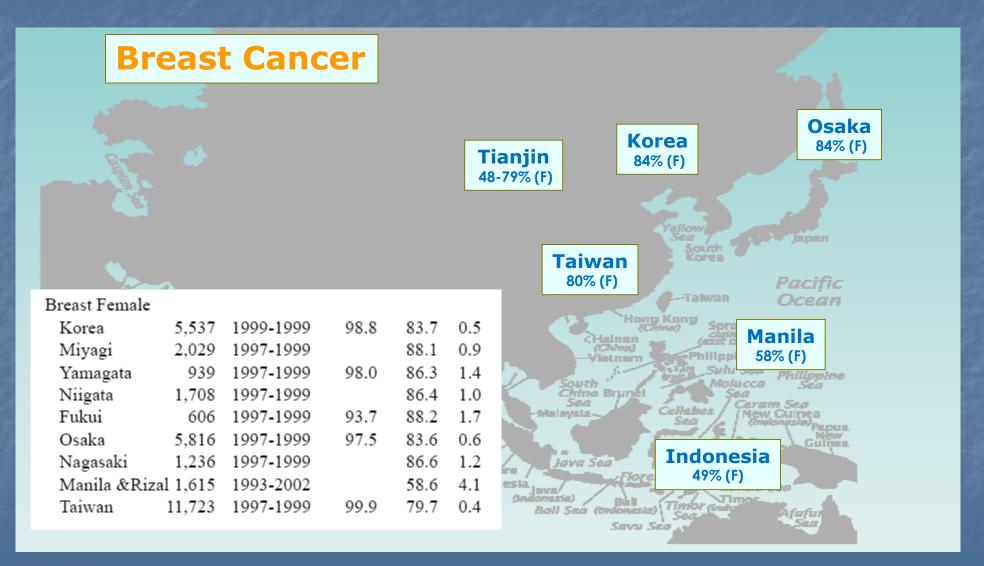
# Cancer Survival in Asia population-based study

Survival	Stomach
S.Korea	49
China	39
Singapore	27
Thailand	12
India	6
Gambia	3
Uganda	0
Costa Rica	
Pakistan	18 P. P. S.
Philippines	SOFT THE
Saudi Arabia	12 1 1 1 1 N
Turkey	42.174



Sankaranarayanan et.al. Lancet Oncol 2010;11:165-73

## Cancer Survivorship in Asia



## Initiation of National Cancer Screening Program NCSP in Korea

- NCSP program was needed for the low SES group to improve their usage of medical resources.
- ❖ Aim of the NCSP
  - Providing structured guideline with academic societies
  - Providing screening services to low SES people
- Implemented in 1999 and expanded target population and cancers through 2007
- Development of the national guideline protocols
  - Ministry of Health and Welfare
  - Supporting Committee for Cancer Screening Program in NCC
  - collaboration with the related academic societies



# National Coverage for Cancer Screening in Korea

source population for cancer screening: 24.4 million (women ≥ 30 yrs and men ≥ 40 yrs)

No. covered by NCSP

10.7 million
(52%)

NHI Beneficiaries
(lower 50% income)

NHI Beneficiaries
(upper 50% income)

Medicaid recipients

CANCER CEN

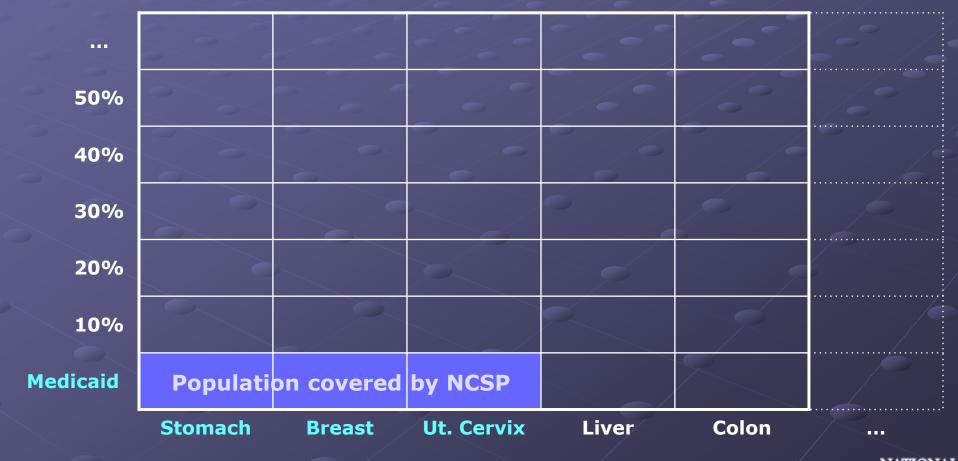
### Screening Guideline of NCSP

Cancer	Eligible	Frequency	Test / Procedure	
Stomach	40 & over adults	every 2 yrs	endoscopy or UGI	
Breast	40 & over women	every 2 yrs	mammography & CBE	
<b>Cervix</b>	30 & over women	every 2 yrs	Pap smear	
Liver	40 & over high risk group*	every 6 mo	sonography & AFP	
Colorectal	50 & over adults	every 1 yr	FOBT → colonoscopy or barium enema	

<sup>\* 40 &</sup>amp; over with HBsAg positive or anti-HCV positive or liver cirrhosis

### National Cancer Screening Program (1999)

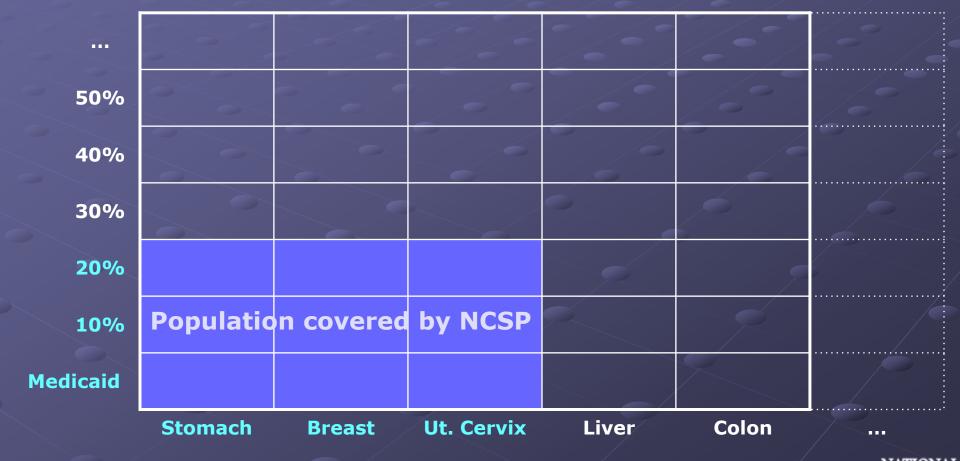
**Income levels of NHI Beneficiaries** 



CANCER CENTER

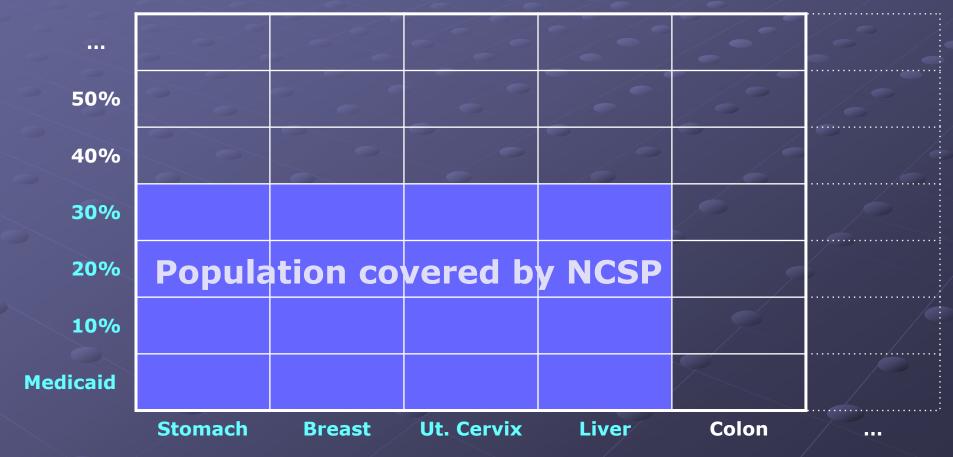
### National Cancer Screening Program (2002)

**Income levels of NHI Beneficiaries** 



### National Cancer Screening Program (2003)

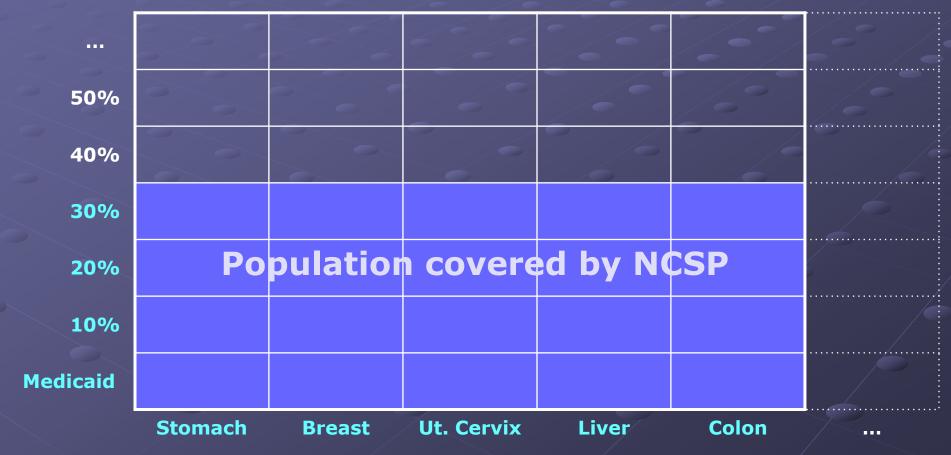
**Income levels of NHI Beneficiaries** 



CANCER CENTER

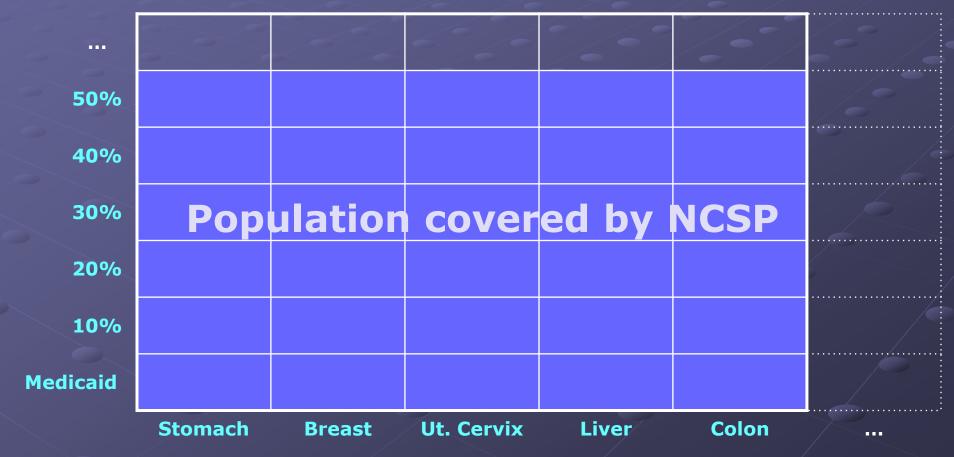
### National Cancer Screening Program (2004)

**Income levels of NHI Beneficiaries** 



### National Cancer Screening Program (2005)

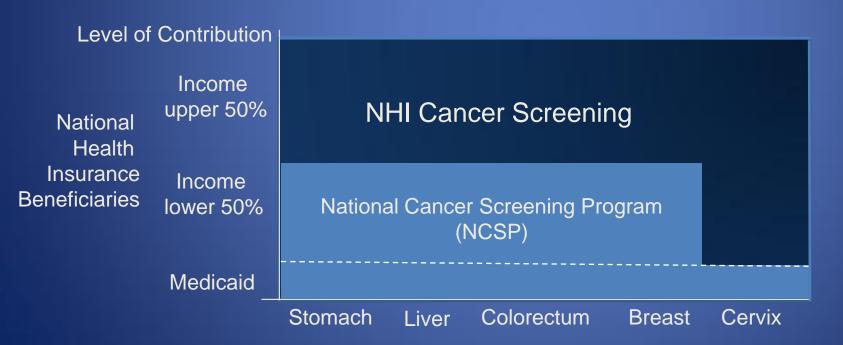
**Income levels of NHI Beneficiaries** 



CANCER CENTER

### **Organized Cancer Screening in Korea**

- Nationwide organized cancer screening program
- Managed by two systems
  - Upper 50% contributors: National Health Insurance Screening Program
  - Lower 50% contributors & Medicaid: National Cancer Screening Program

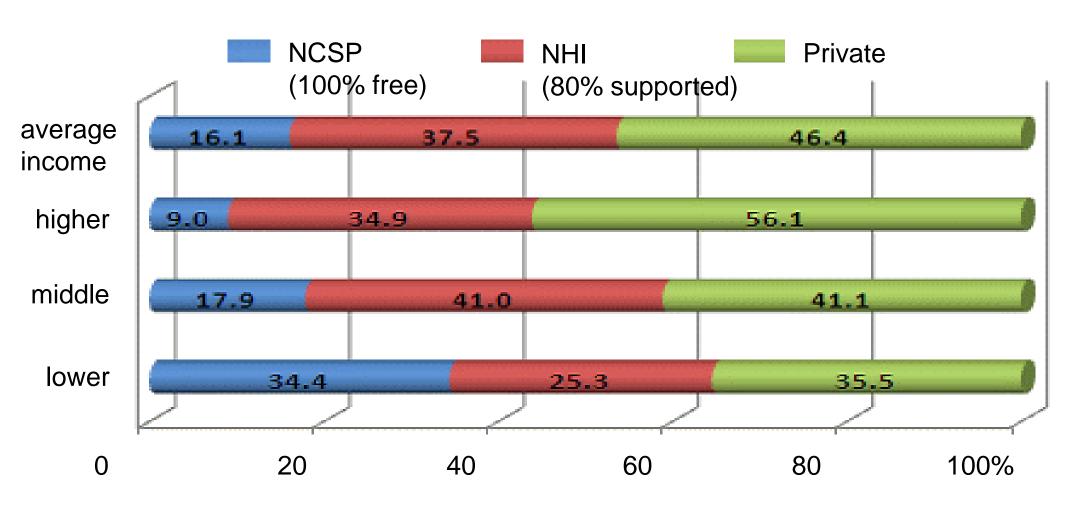




### Performance of NCSP by Cancer Type

	No. of participants (1,000)		No. of cancer detected (detection rate, %)			
	2005	2006	2007	2005	2006	2007
Stomach	1,150	1,525	1,724	1,383 (0.12)	1,717 (0.11)	1,784 (0.10)
Breast	729	946	1,064	112 (0.02)	124 (0.01)	104 (0.01)
Cervix	73	70	80	28 (0.04)	27 (0.04)	28 (0.03)
Liver	100	117	111	145 (0.15)	152 (0.13)	122 (0.11)
Colorectum	537	692	783	207 (0.04)	289 (0.04)	350 (0.04)
Total	2,589	3,350	3,750	1,875 (0.07)	2,309 (0.07)	2,388 (0.06)

### Payment System and Proportion for Usage of Cancer Screening Program in Korea



Source: Korea National Cancer Screening Survey 2007

### Screening rates, All Combined, Korea

unit: %

Cancers	2004	2005	2006	2007	2008
Stomach	39.2	39.4	43.3	45.6	53.5
Liver	20.0	16.3	16.5	22.7	19.7
Colon	19.9	25.4	29.4	34.1	39.7
Breast	33.2	38.4	40.6	45.8	49.3
U. cervix	58.3	38.4	54.9	57.0	59.9

Source: National Cancer Center. Nationwide Survey for Health Screening Performance Rate, 2004~2007

Note: Cancer screening performance rate by any programs in a given year under the screening guideline recommended by the National Cancer Center and the Ministry of Health & Welfare

### **Participation** Rates of **National Cancer** Screening **Program in** Korea?



NATIONAL CANCER CENTER

### Schematic Procedure for NCSP

**Ministry of Health, Welfare and Family Affairs** 

The supporting and Evaluation **Board of NCSP, NCC** 

(1) Planning and funding the program

- Provides national guidance on screening

  - Training for health professional Public education and promotion
- Evaluation and monitoring of the program

**Monitor & Encourage**  **Public Health Centers** n = 248

**National Health Insurance Corporation** 

- 2 Select the target population and send invitation letter
- 6 Pay for the bill
- (5) Send the results and claim the bill

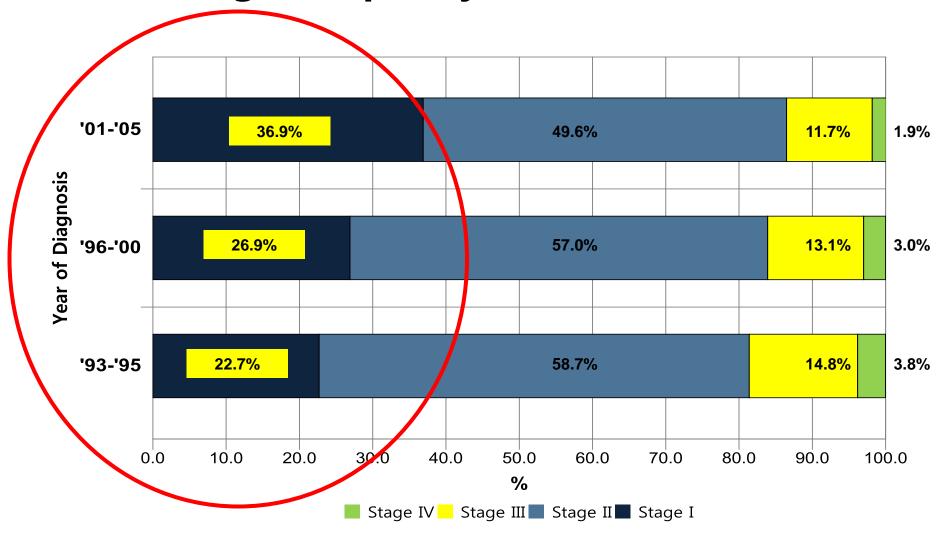
Target population

- ③ Visit and take screening
  - 4 Send the results

**Screening Unit** in hospital or clinic



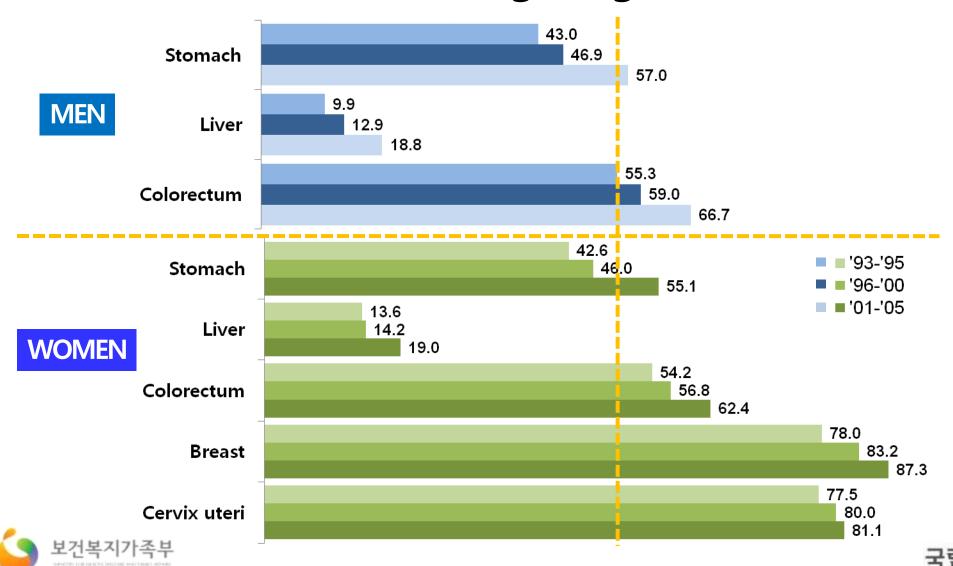
### **Stage Frequency of Breast Cancer**







### Five Year Survival of Cancer Sites of National Screening Program



### International Comparison of Five Year Relative survival

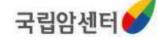
(Unit: %)

	Korea ('01-'05)	USA <sup>1)</sup> ('96-'04)	Japan <sup>2)</sup> ('97-'99)	Eurocare <sup>2)</sup> ('95-'99)
Stomach	56.4	24.7	62.1	24.1
Lung	15.5	15.2	25.6	12.6
Colorectum	64.8	64.4	65.2	53.5
Liver	18.9	11.7	23.1	8.6
Thyroid	98.1	96.9	92.4	86.5
Breast	87.3	88.7	85.5	81.1
Cervix uteri	81.1	71.2	71.5	66.5
Prostate	76.9	98.9	75.5	77.0
All Cancers	52.2	65.3	54.3	51.9

<sup>1)</sup> Ries LAG, et al (eds). SEER Cancer Statistics Review, 1975-2005, National Cancer Institute, 2008

<sup>2)</sup> National Cancer Center in Japan. Cancer Statistics in Japan, 2008





# Challenging Issues in NCSP of Korea

- improving quality of screening
- increasing participation rate in NCSP
- assessment of effectiveness
- providing cost-effective program



### National Cancer Act, 2003 癌管理法 (2003)

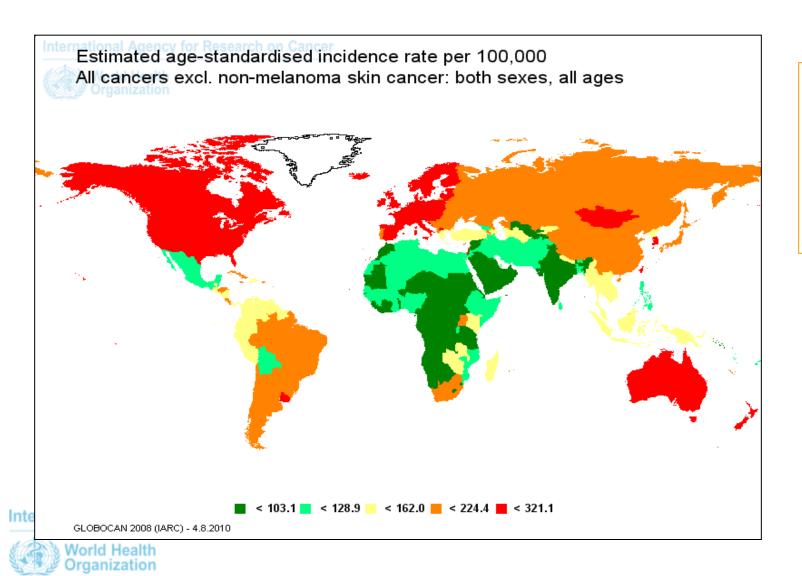
- Central and regional government must establish cancer control plan in every 5 years
- National Cancer Control Committee
- R&D for cancer research
- Cancer Registration
- National Cancer Screening Program
- National Hospice-Palliative Care Program



### Cancer Prevention



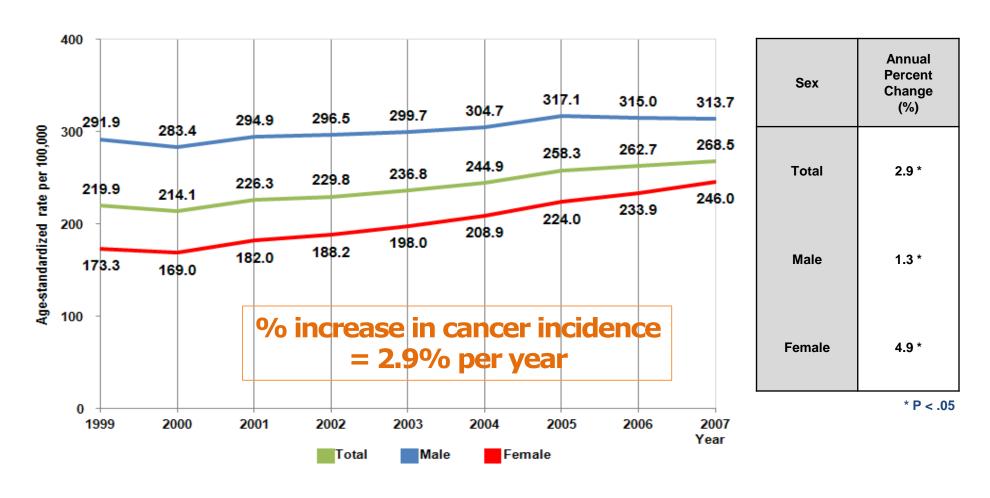
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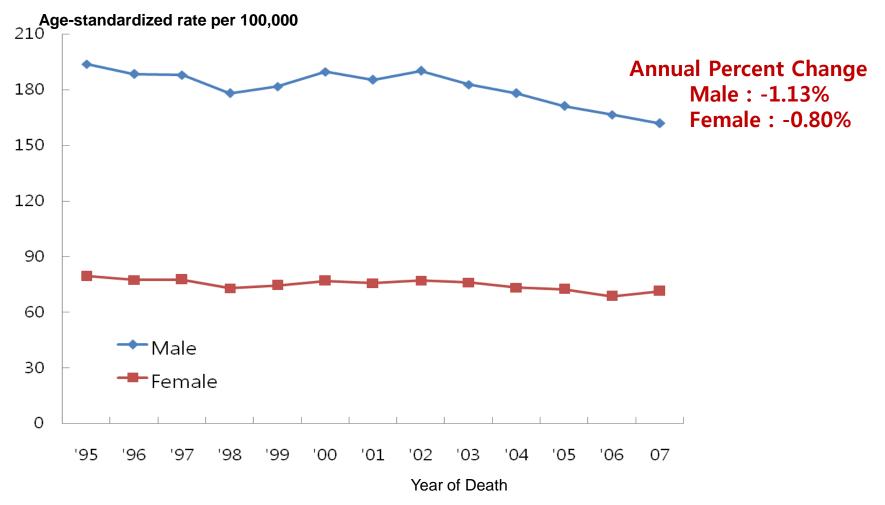
Asian shows
moderate to lower
incidence
than the Western.

#### Trend in Age-standardized Incidence Rates of Cancer

#### Korea Central Cancer Registry, 1999-2007



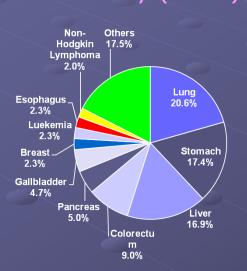
### **Trend in Cancer Mortality Rates**



Date Source: Annual Report of Causes of Death, Korea National Statistical Office Age-standardized rates on the 2000 Korea registration population

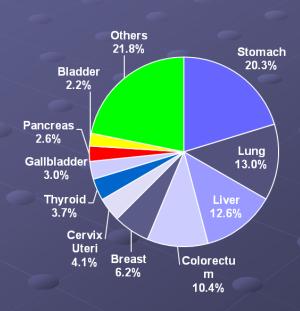
### Increase in <u>Cancer Survival</u> ultimately induces Increase in <u>Cancer Prevalence</u>

#### Mortality (2007)



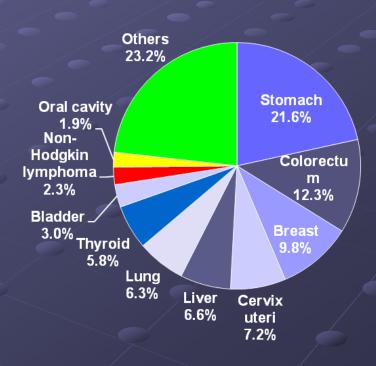
67,559 deaths

#### **Incidence (2007)**



161,920 cases

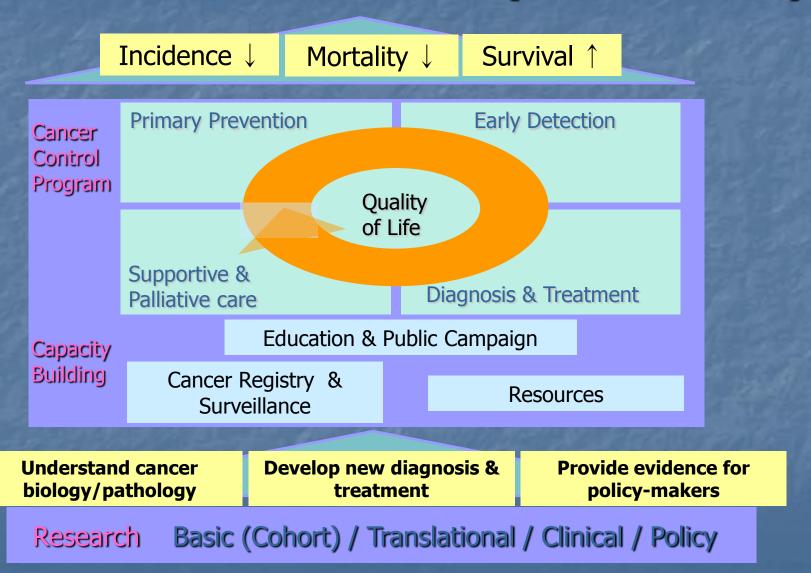
#### Prevalence (2007)



606,804 persons



## 2<sup>nd</sup> Term Ten-year Plan for National Cancer Control (2006-2015)



### National Cancer Act, revised in 2006

- central and regional government must establish the plan for cancer control every 5 years
- establish National Cancer Control Committee
- support cancer research
- establish cancer registry & National Cancer Screening Program
- amend cancer registration law based on "Statistics Law"
- establish National Cancer Prevention Day March 21th (3-2-1)
- activate cohort study, regional cancer center
- quality assessment of cancer screening program
- start National Hospice-Palliative Care Program
- financial support for cancer patients



### 2007 - Year of Cancer Prevention



Inauguration Ceremony (2007. 6. 19)

급가 압접진 지원센터 환공식 축하에서지 금다 당성의 이원센터의 환문을 반성으로 축하합니다. 이제 우리도 선언국 문지않은 당인로 인프라를 갖추게 되었 습니다. 특히 새롭게 도입된 방선자리로기는 방원로 수준을 뭐기적으로 끝야용하를 것입니다. 그동안 에서주인 국항암센터 라르던과 공사 관계자 여러분에 일은 감사의 방송을 트립니다. 앞으로 당성진 의원생하는 조기전단과 선준인화 당성 용 국가적 방관리 사업을 선도하 보다 사선예상적 관리를 통해 배 크레 기여랑 청으로 만듭니 상환자의 선장보험 금여름이 2004년 40보여서 시난해 70보 进场的 语用可称染度 存錄 女子三星 点对 查引性点, 有智性 取代的 排發 形层的 存款表 급인의 건강이 나라의 경쟁력인 1/38 22244, 함여정부는 그용한 국건 보기 望其论 智尔里尼 5대 양州 明於 持折를 計畫 智能标正 榜 반물가 위해 노력해 봤습니다. 可以表現事 明晚 杂种 高品精研費 古安特尔 規 報前期 芦荟苷 혼자이 강남하기 어려운 집법! 动物体管 法设计略,否则对特别 形正性 网络亚亚 有信证据 중기를 갖고 연극의 인도에 위를 함께가장 달부드립니다. 상화해나가고 있습니다. 속사 업당선 지원선처의 무장한 발전을 지원합니다.

Message from President of Korea



### **Main Activities for Cancer Prevention**

- Cancer Prevention Day for public awareness
   (celebration, event, campaign, seminar, etc.)
- 10 codes and practical guidelines for cancer risk reduction
- standardized information on cancer prevention, i.e., dietary factors
- education and campaign
- policies and program for tobacco control
- strategic plan for prevention of cancer caused by infection
- surveillance system for occupational exposure on carcinogens



### **2007 Cancer Prevention Day**



### **2008 Cancer Prevention Day**













#### **Codes of Conduct for Cancer Prevention**



Don't smoke and avoid smoke-filled environments



Consume sufficient amounts of fruits and vegetables and balance your diet with a wide range of healthy foods



Limit your salt intake from all sources, and avoid burnt or charred foods



Limit your consumption of alcoholic beverages to one or two drinks per day



Engage in at least 30 minutes of regular, moderate-intensity physical activity on most days of the week



Maintain your body weight within a healthy range



Ensure vaccination against Hepatitis B virus following the HBV vaccination schedule



Engage in safe sexual behavior to avoid sexually transmitted diseases



Follow all health and safety instructions at work places aimed at preventing exposure to known cancer-causing agents



Undergo routine check-ups following the cancer screening programs

國民癌豫防守則

### Cancer is Preventable & Avoidable!!





### **10 Action Codes of Cancer Prevention**



























### NCSP Information System 國家癌情報센터

http://ncs.ncc.re.kr



#### **National Cancer Information Center at NCC**

http://www.cancer.go.kr/



NCIC provides a comprehensive cancer information services through website, telephone, and on-site education.

NCIC provides some booklets and leaflets on various aspect of cancer.

NCIC have supported health professionals with information on cancer research relates and have developed educational booklets and leaflets on most aspects of cancer.

# Primary Cancer Prevention

**Smoking cessation** 



**Vaccination** 



Dietary change









### **Anti-Smoking Program of Korea**

- increase in tax on cigarettes
- ban on smoking in public places, health education, etc.
- limit cigarette advertising
- prohibit promoting the sale of tobacco
- warning on cigarette packets
- expand public anti-smoking campaign & education
- limit sales to minors

### 癌! 바로 알기

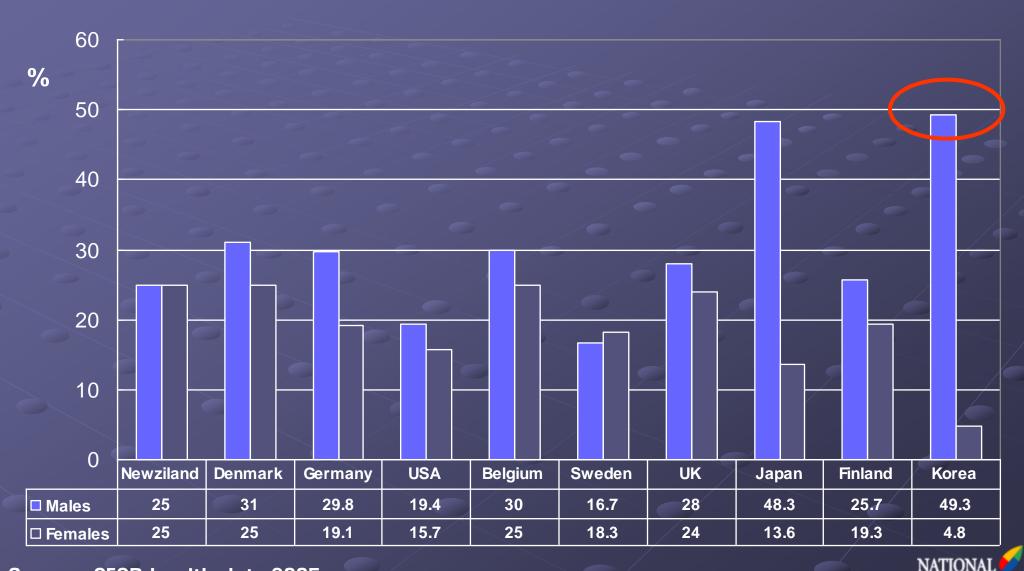


코미디언 이주일 2002년 타계 (62세)

"담배 맛있습니까? 그거 톡약입니다!"



### **Smoking Rate in OECD Countries**



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Source: OECD health data,2005

#### **Initiatives to Reduce the Tobacco Use**

Major TVs, Newspapers Banish Tobacco 2002-2004

KBS SBS MBC





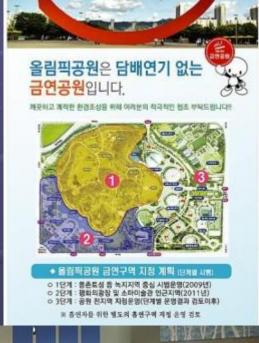
- Increase in Tax on Cigarettes
- Ban on smoking in public places, health education, etc.
- Ban by legislation on the manufacture and sale of tobacco products (Tobacco Free World Alliance: ToFWA)



# Smoke-free Zone based on Health Promotion Act















### Quitline Service for Smoking Cessation at NCC



since April 2006 by telephone & website providing smoking cessation coaching releasing knowledge on hazards of smoking collaboration with 248 Health Centers

for pharmacotherapy: NRT and bupropion by all the health centers charge free







#### **Smoking Prevalence: Adults**



Source: Ministry of Health & Welfare, Korean Association of Smoking & Health

### **HBV Vaccination**

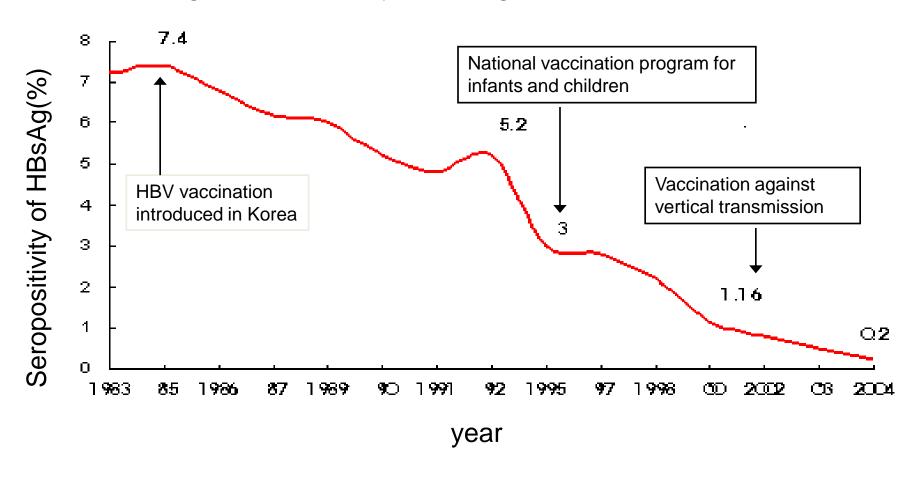
Vaccination
HBV
HPV

National Vaccination against HB has been implemented in

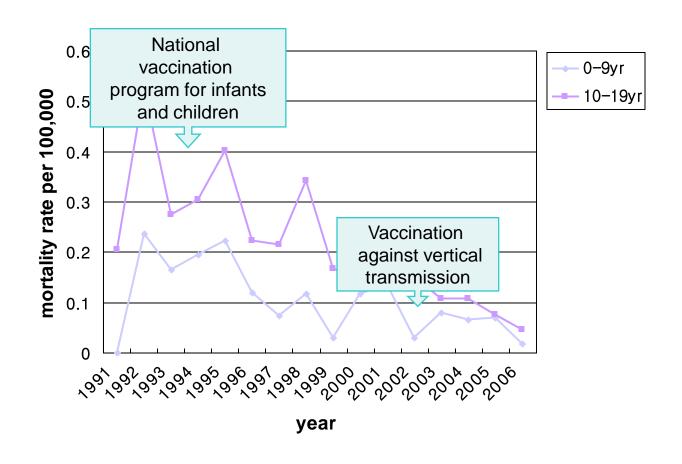
Taiwan (1984)
Thailand
Malaysia (1989)
Singapore
Korea (1985)
China
Mongolia (1991)

### HBsAg seropositivity

<HBsAg seropositivity among blood donors>

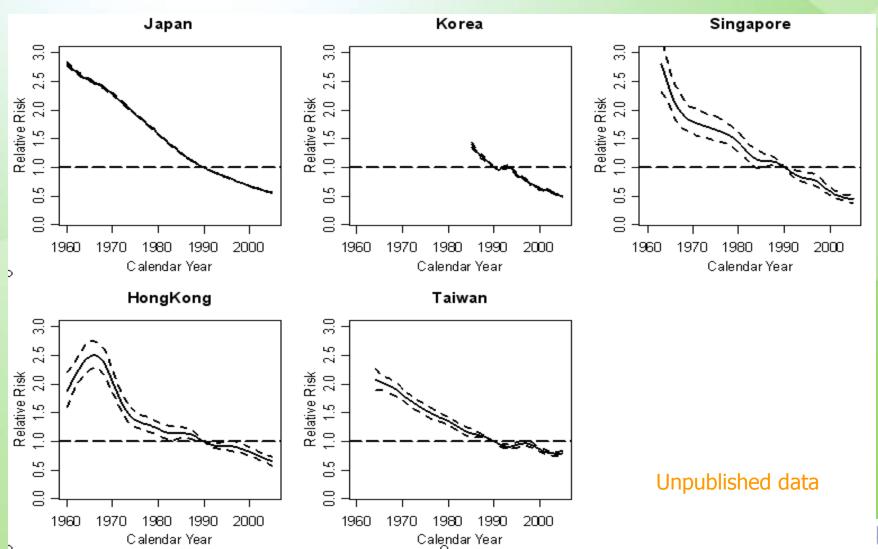


# Liver Cancer Mortality Rates in Young Koreans



#### **Decline in Gastric Cancer - An Unplanned Triumph**

(Howson et al. 1986)



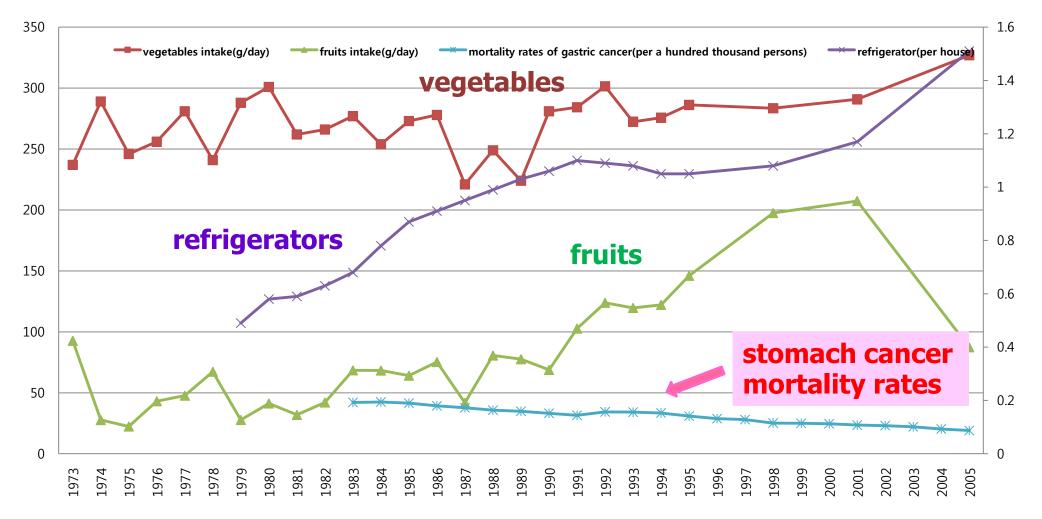


### Reducing Salt Intakes





### Intake of Vegetables/Fruits, Use of Refrigerator and Stomach Cancer Mortality in Korea, 1973-2005



(Mortality) Korea National Statistical Office. Annual Report of Causes of Death.
(Nutrition) Ministry for Health, Welfare and Family Affairs. The Third Korea National Health and Nutrition Examination Survey (Refrigerator) Korea Power Exchange. The number of refrigerators in use in Korea.

### Lifestyle Changes in Korea

- mean age at first marriage
  - $\rightarrow$  24.9 (1990)  $\rightarrow$  27.3 (2003)  $\rightarrow$  28.1 (2007)
- total fertility rate
  - **2.0** (1980) → 1.19 (2003) → 1.26 (2007)
- age at menarche\*
  - $-13.5 (1988) \rightarrow 12.7 (1998)$
- total calorie supply (per capita per day)
  - 2,622 (1983) → 2,927 Kcal (2006)

Source: *National Statistical Office. 2007*\* Cho et al. 1999

#### 2007 Pink Ribbon Love Marathon Seoul World Cup Park, Oct. 2007





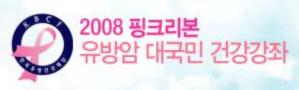




The Public Relations Officer

# Surgeon's Concert for Breast Cancer Survivors

http://www.kbcs.or.kr/





행사명 유방암 재발방지를 위한 핑크리는 주 회 한국유방건강재단

월 보건되지가족부, 여성부, 한국유병
 초청감사 해당지역 한국유방입학회 전문의

WITH ADDRESS OF THE STATE OF TH

2008년 9월말 ~ 10월(주관 범원

병원 강당 또는 지정 장소(협의

· 유방압 환자들의 사후관리와 제발병 · OSANA 지배

유방맘예방홍보감사가 전하는 유방
 용음감사, 노래감사 등 오락적 요소

보건택지가족무 후원과 암 정택시

**Open Lecture** 





希望愛樂 Pink Tie Concert

### **Korean Breast Cancer Patients** Society 韓國乳房癌患友聯合會

노동영 박사 Q&A



- **Foundation** 
  - Aug 22. 2006
  - Alliance of survival groups from 20 hospitals
  - Members: 1,158
  - Staff
    - President
    - 2 vice-president
    - Manager



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The 2<sup>nd</sup> Term of 10-Year National Cancer Control Plan

### Supportive & Palliative Care



#### Hospice-palliative Care Program

- support palliative care units in hospital
- provide home-based cancer patient management
   program through public health center
- provide education program to the health care providers
- publish cancer pain control guideline



# Designation of 23 Hospice Organization & Financial Support (2007)

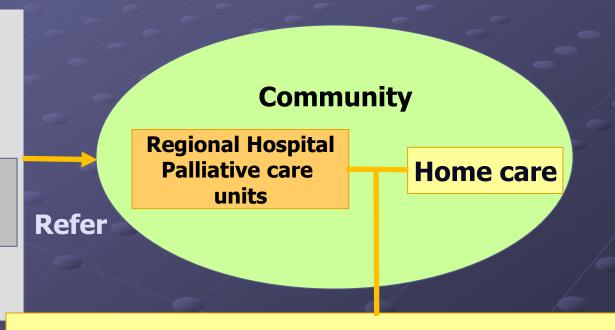




# Terminal Cancer Patient Management Plan

**Tertiary Hospital** 

**Palliative care units** 



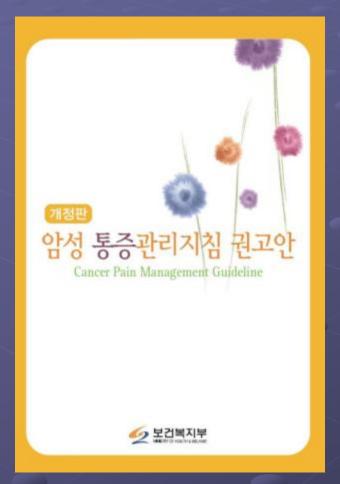
**Home-based cancer patient management** 

**Community Health Center** 



## Cancer Pain Control Guideline (2nd edition, 2007)

for Health Care Providers



for Patients







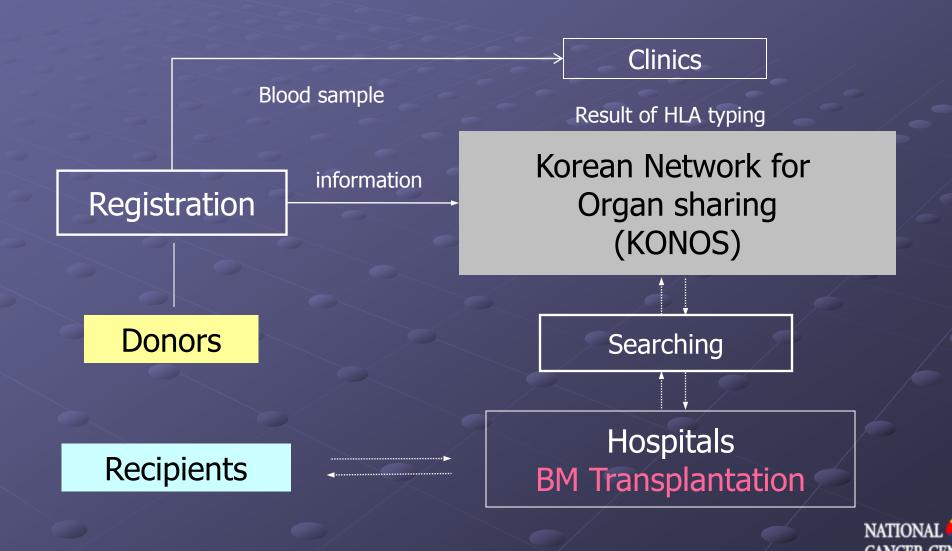
#### **Cancer Patient Financial Aid Program**

population	Inclusion criteria	Type of cancer	Financial aid/ out of pocket medical expenditure (%)	Starting Year
Adults	Beneficiaries <sup>1</sup> Who participated NCSP <sup>2</sup>	Stomach Breast Cervix Liver Colorectal	27-32%	2005
	Medicaid	All cancer	35-65%	2005
	Beneficiaries <sup>1</sup> & Medicaid	Lung cancer	20-30%	2005
Under 18 years olds	Beneficiaries <sup>1</sup> & Medicaid	All cancer <sup>3</sup>	Leukemia: 75% Other cancer: 73-83%	2002

- 1. Lower 50 % of premium of National Health Insurance
- 2. National Cancer Screening Programs
- 3. 2002-2004: Only for Leukemia



# Financial Aid Program for Bone Marrow Transplantation

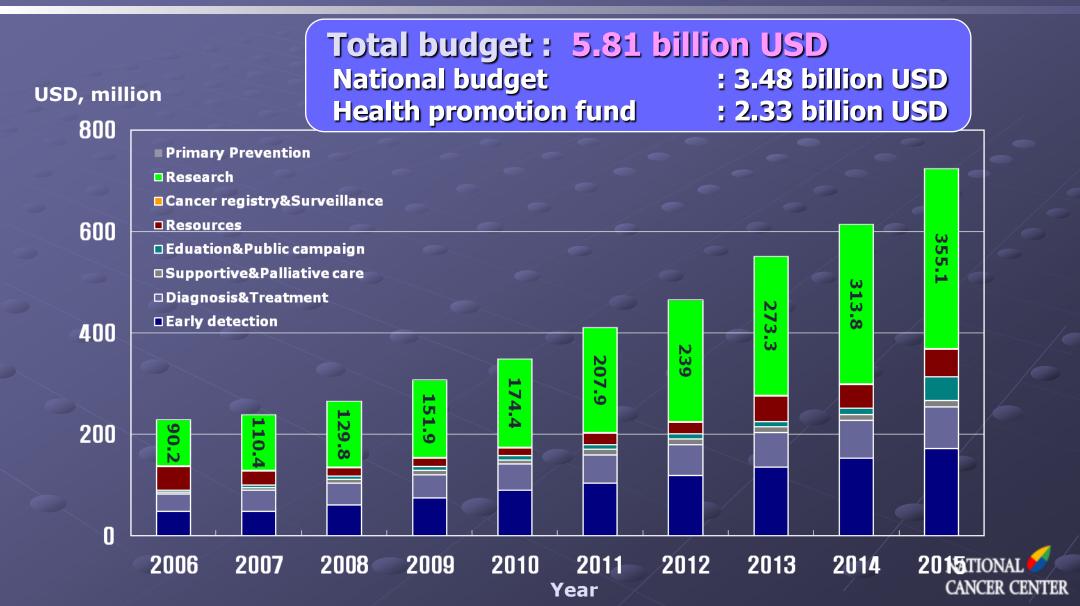


The 2<sup>nd</sup> Term of 10-Year National Cancer Control Plan

### Goals of the 2<sup>nd</sup> NCCP



# 2<sup>nd</sup> Term Ten-year Plan for National Cancer Control (2006-15)

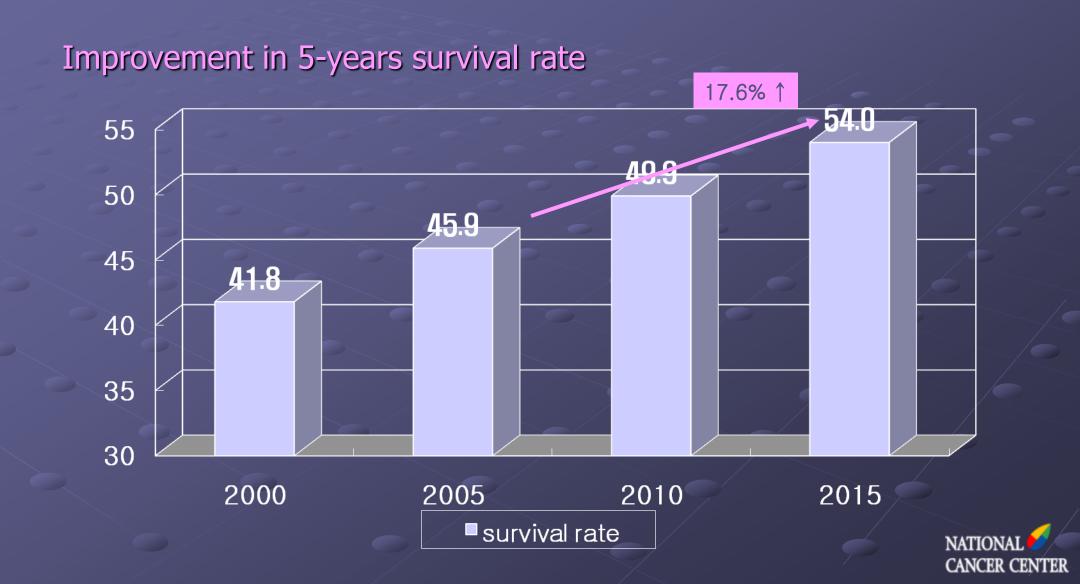


## 2nd 10-Year Plan for Cancer Control Korea, 2006-2015

#### Cancer mortality reduction



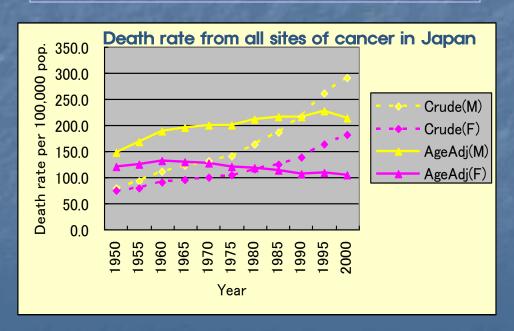
## 2nd 10-Year Plan for Cancer Control Korea, 2006-2015



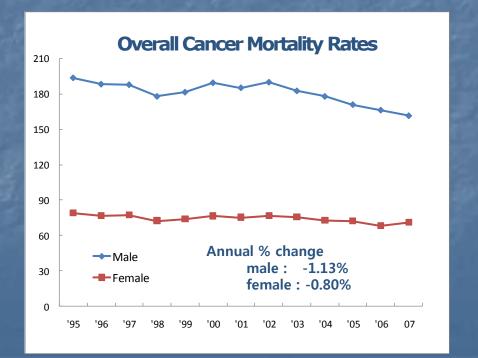
### Cancer Facts in Korea, Today

United States
War against Cancer, 1971
Decline in cancer mortality, 1991

Japan NCC, 1962 NCCP, 1965 NCSP, 1966(stomach)-92(colon)



Korea NCC, 2001 1<sup>st</sup> NCCP, 1996 NCSP, 1999(stomach)-04(colon)



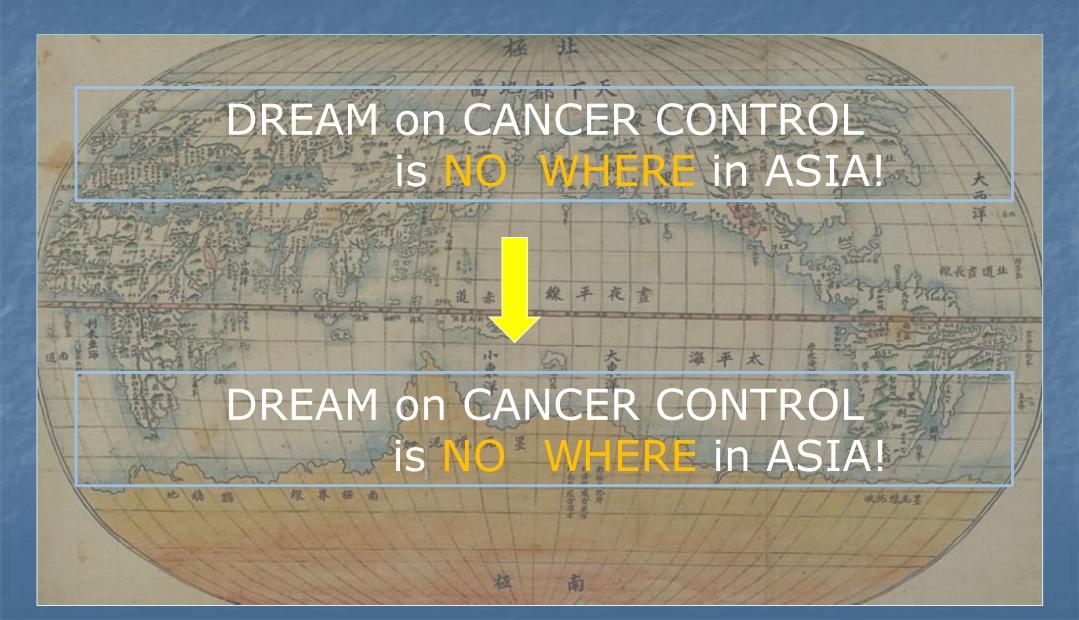
Data: Vital Statistics of Japan (1950-2000)

#### **International Cooperation**

- Agreements of cooperation for joint research, exchange of personnel and information, and etc
  - National Cancer Institute, U.S.A. in 2001
  - National Cancer Center, Japan in 2001
- Cooperative activities
  - International Union Against Cancer (UICC / UICCARO)
  - World Health Organization (WHO / WPRO)
  - Tobacco Free World Alliance: ToFWA
  - WHO collaborating center for cancer registration, prevention and early detection
  - Asian National Cancer Center Alliance (ANCCA)
  - International Agency for Research on Cancer (IARC)
  - Asian Pacific Organization for Cancer Prevention (APOCP)



### Asia, Today & Tomorrow





See you in 2011