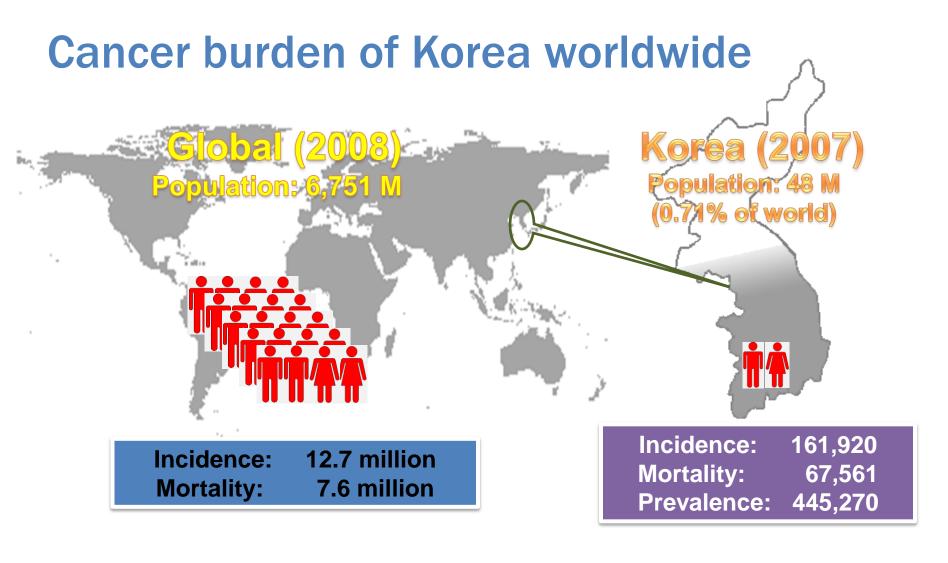
International Workshop on control of cancer as a part of NCD

## **Cancer Control in Korea**

National Cancer Control Institute, Nation Cancer Center

Park, Eun-Cheol





Source: GOLOBOCAN 2008, IARC, 2010

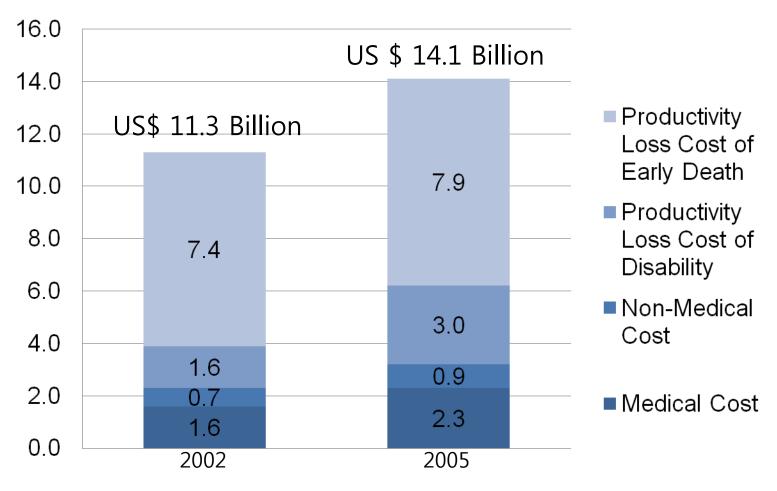


#### Causes of Death in Korea

(%) 28.3% 30.0 ►Cancer --CVA --Heart Dis --Liver Dis --DM 25.0 20.0 11.3% 15.0 10.0 5.0 0.0 '83 '84 '85 '86 '87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 09



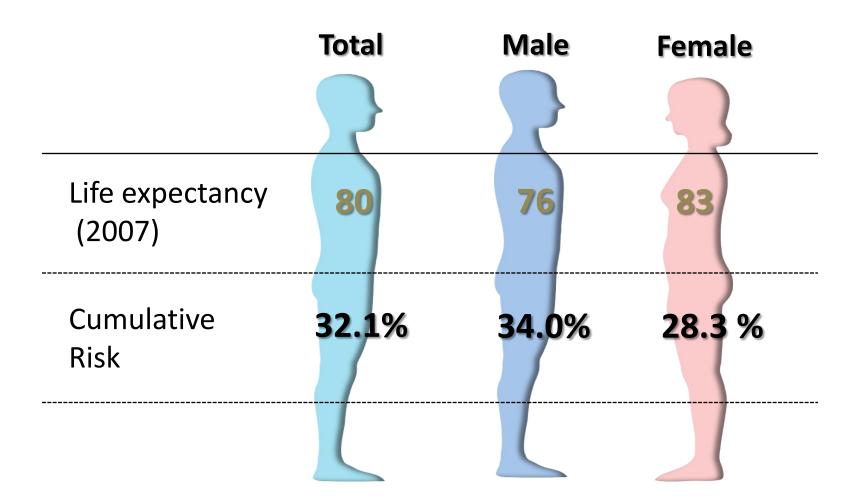
#### **Economic Burden of Cancer**





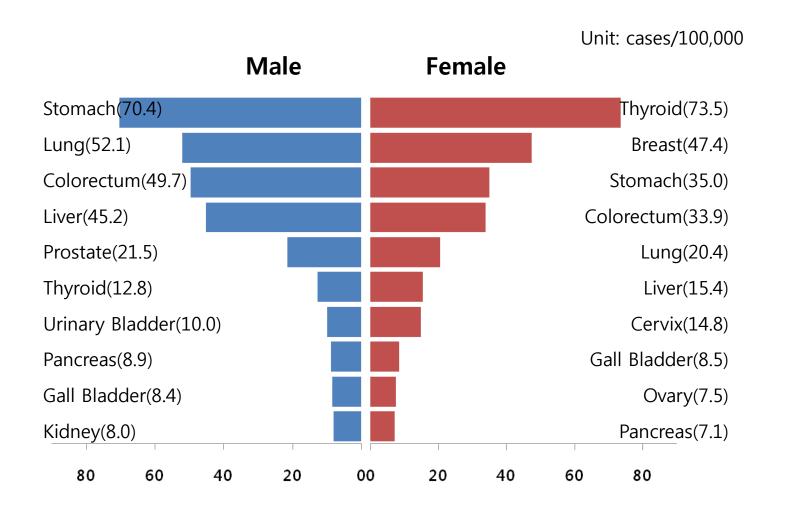


#### **Cumulative Risk of Cancer in Korea**

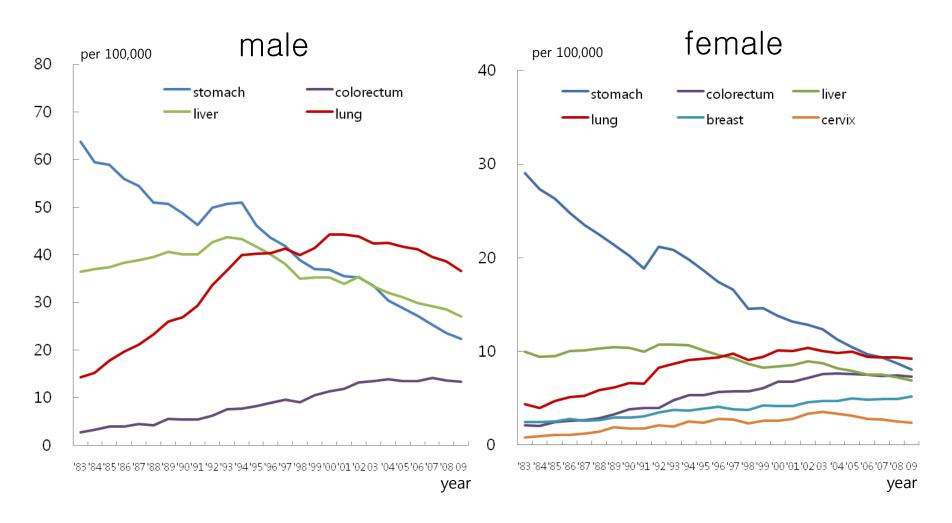




## Major Cancer Site, 2007



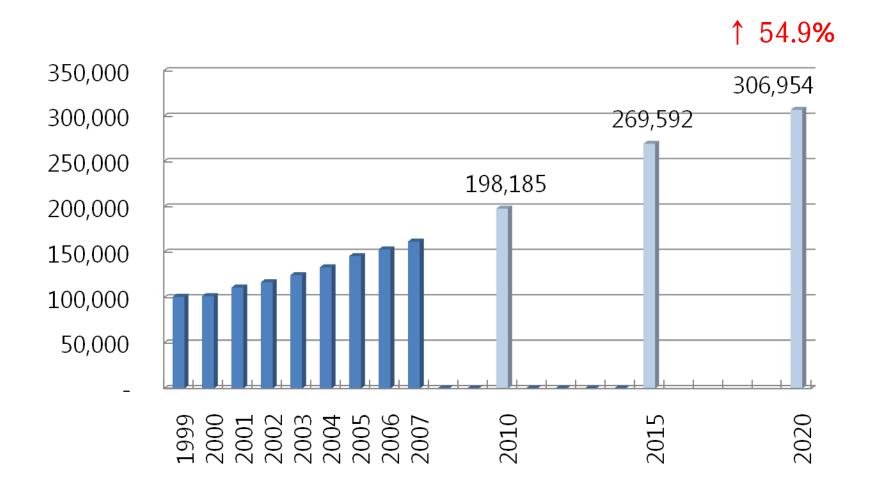
## Trend of major cancer death rates



Source: Korea National Statistical Office, 2010



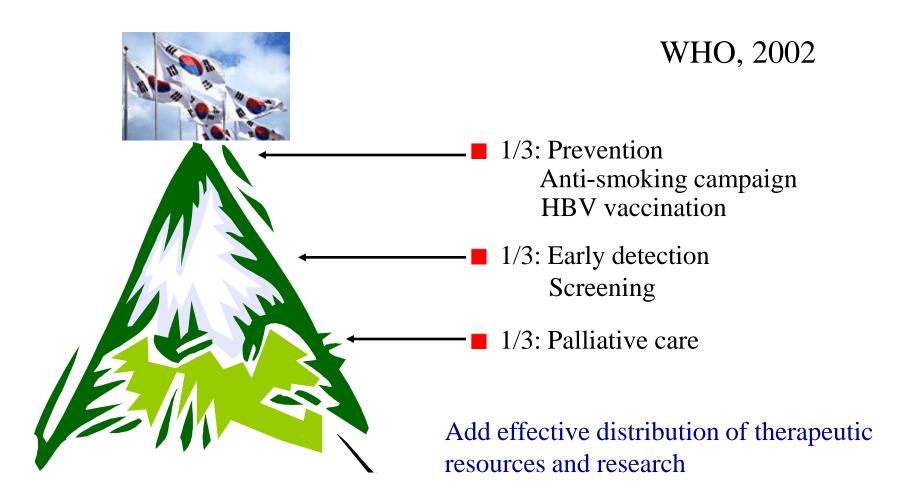
## **Expected Cancer Cases**





# 10 year Plan of Cancer Control

## **Basic Principle of Cancer Control**





#### **10-Year Plan of Cancer Control**

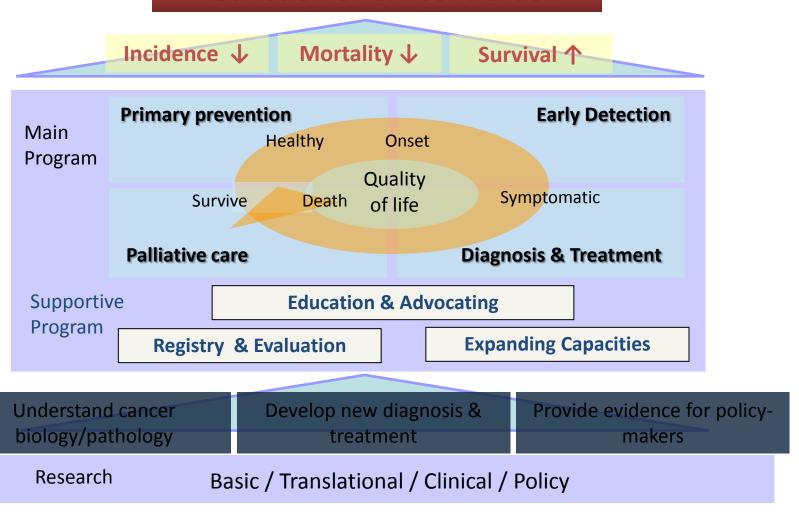
- 1st 10-Year Plan of CC (1996-2005)
  - Constructing Infra-structure of CC
    - Building Capacity of Cancer Control
    - Setting Program of Cancer Control

- 2nd 10-Year Plan of CC (2006-2015)
  - Operating CC Program effectively and efficiently



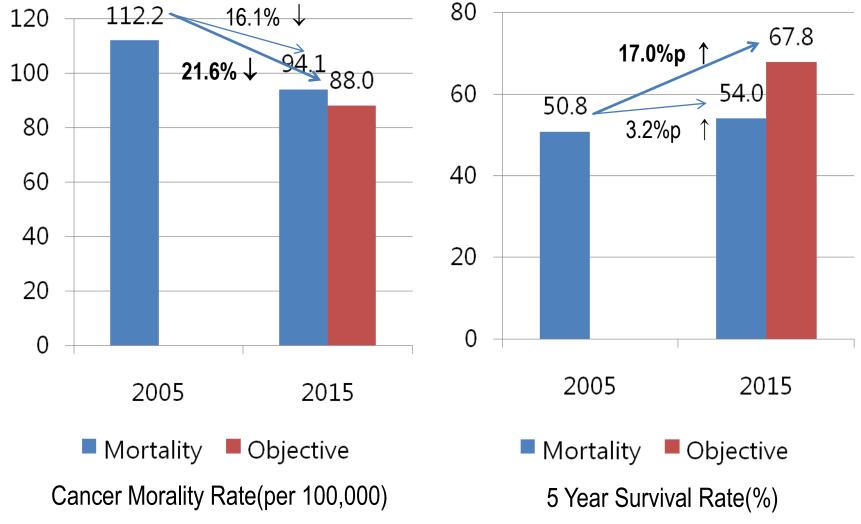
#### 2nd 10-Year Plan for Cancer Control (2006-2015)







## **Objectives**





#### Primary Prevention: Anti-smoking program

- Increase in Tax on Cigarettes
- Anti-smoking campaign & education
  - Ban on smoking in public places
  - Warning on cigarette packets
  - Education program for youth
  - Say 'No' campaign for second hand smoking
- Prohibit promoting the sale of tobacco
  - Ban on cigarette advertising
  - Prohibition of sales to teenagers



#### PP: Quitline service for smoking cessation

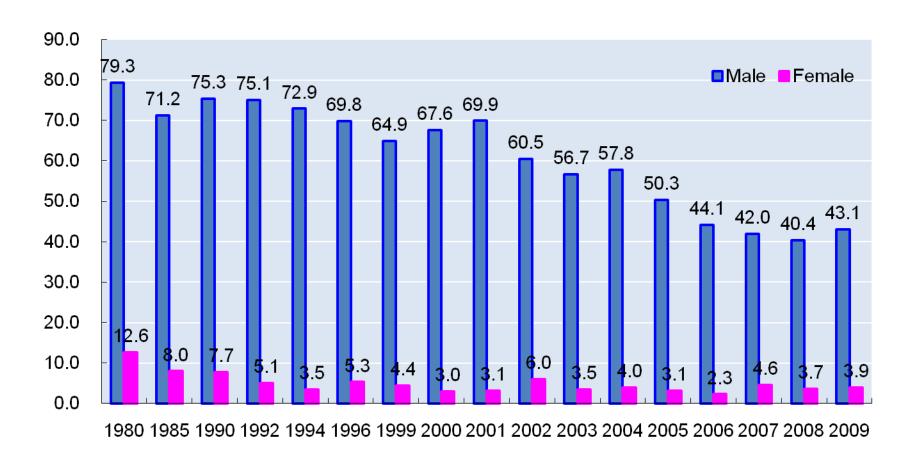
- Smoking cessation counseling
  - □ by telephone since April 2006
  - ☐ ARS, On-line portal services
- Collaboration with 251 Health Centers for pharmacotherapy : NRT and Medical drug by all the health centers charge free





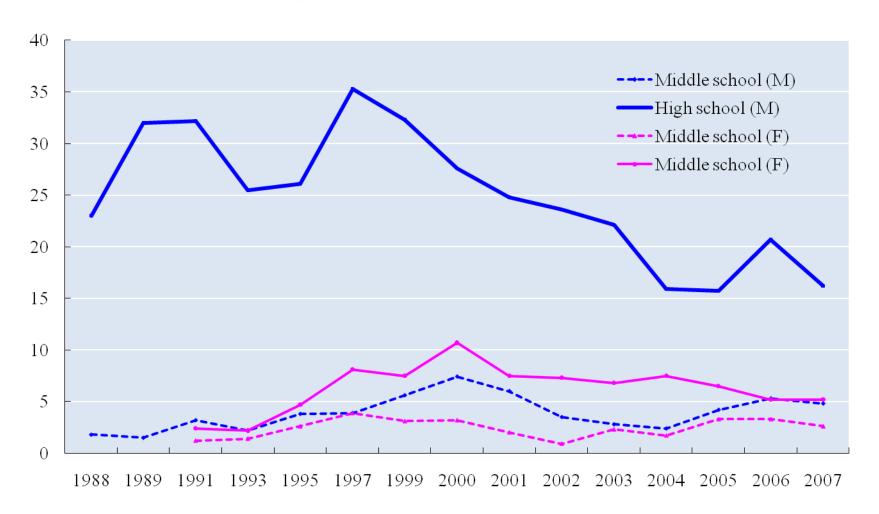


## PP: Smoking prevalence: Adults



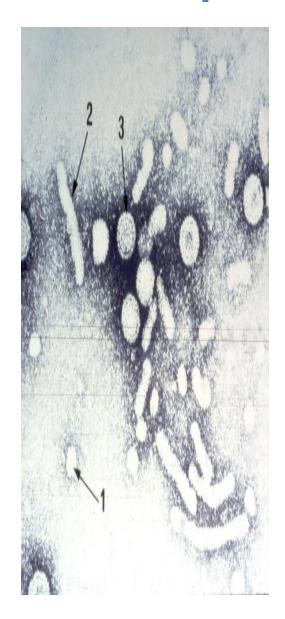
Source: Ministry of Health & Welfare, Korean Association of Smoking & Health

## PP: Smoking prevalence: Youths



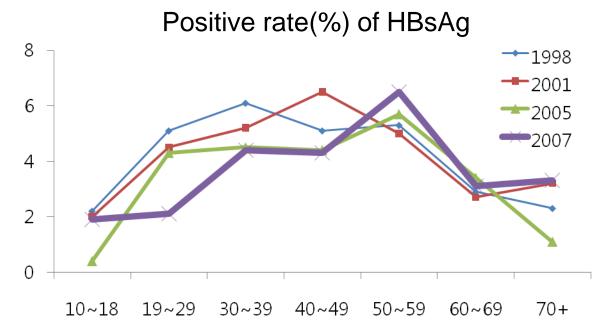
Source: Ministry of Health & Welfare, Korean Association of Smoking & Health

## PP: Hepatitis B vaccination



- HBV vaccination History in Korea
  - ☐ 1985: Temporary basis
  - ☐ 1995: Regular basis

(Nationwide childhood immunization)





#### PP: 10 Action Codes of Cancer Prevention



















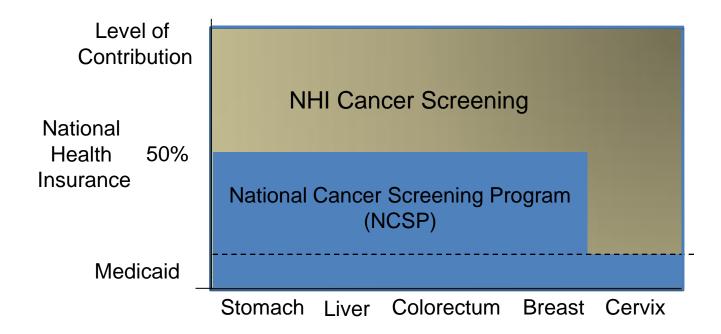






#### **Early Detection: Organized Cancer Screening**

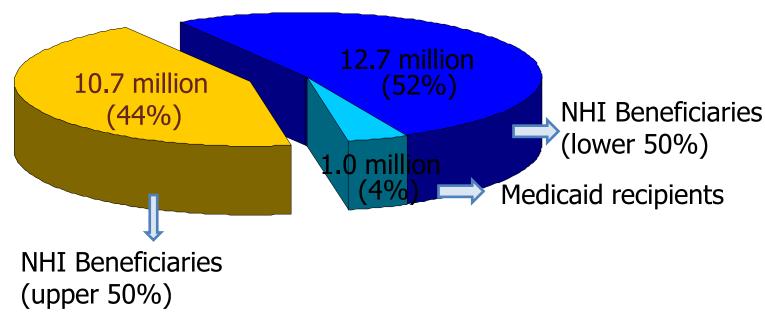
- Nationwide organized cancer screening program
- Managed by two systems
  - Upper 50% contributors: National Health Insurance Screening Program
  - Lower 50% contributors & Medicaid: National Cancer Screening Program





## **ED: Population Coverage for NCSP**

- Source population for screening: 24.4 million
  - Women ≥30 yrs and men≥ 40 yrs
- No. of persons covered by NSCP: 13.7 million
  - Coverage rate: 56%





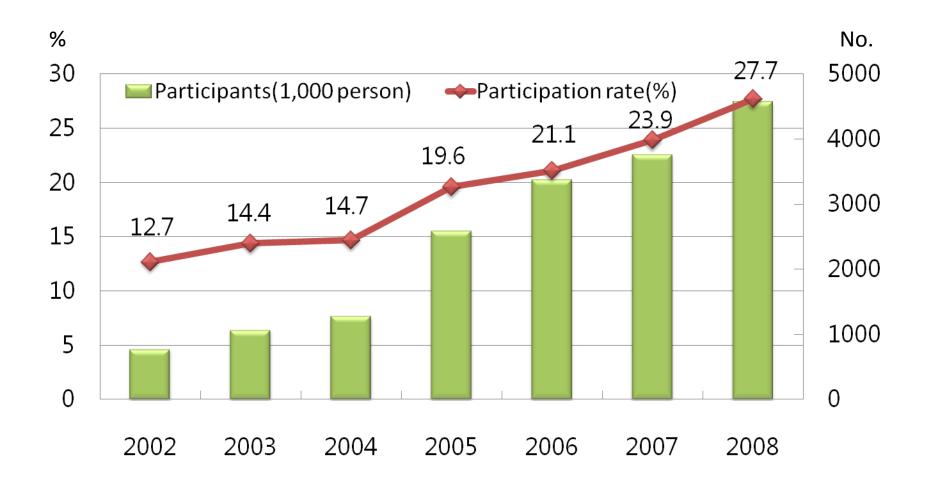
## **ED: Screening Guideline of NCSP**

Cancer	Age	Interval	Methods
Stomach	≥40	2 yrs	Gastro-endoscopy or UGI
Liver	≥40 high risk group*	6 mo	Liver sonography & AFP
Colorectum	≥50	1 yr	FOBT → colonoscopy or DCBE
Breast	≥40, women	2 yrs	Mamongraphy & CBE
<b>Cervix</b>	≥30, women	2 yrs	Pap smear

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

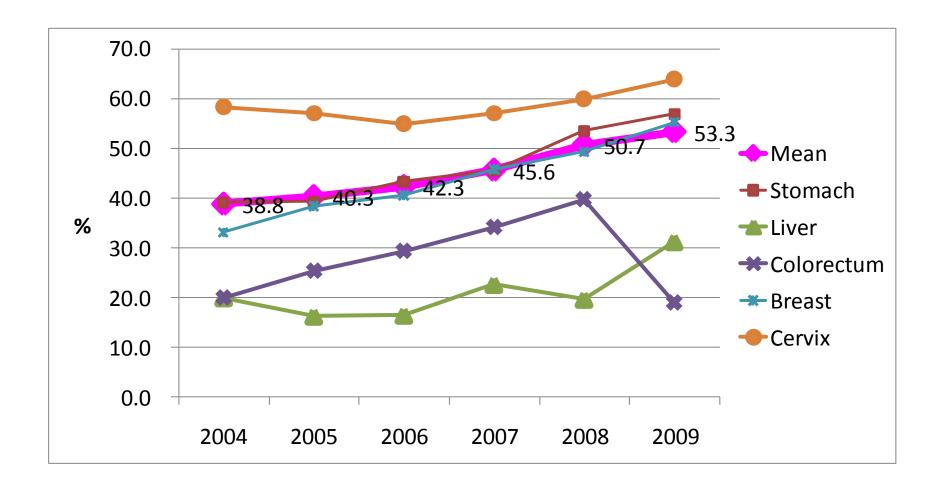


## **ED: Participation Rate of NCSP**





#### **ED**: Cancer screening rates with recommendations





### **ED: Evaluating Cancer Screening Units**

#### **2006-2007**

- □ Enactment for Evaluation of Cancer Screening Unit (ECSU) passed by revision of Cancer Control Act (Oct. 28, 2006)
- Model test with 5 hospitals
- Establishing three year period evaluation system

#### **2008-2010**

- □ 2008: evaluation of general hospitals
- □ 2009: evaluating of hospitals
- □ 2010: evaluating of clinics



#### **Medical Care: 5Year Relative Survival rate**

(단위: %)

site	Korea ('03-'07)	USA <sup>1)</sup> ('99-'05')	Canada <sup>2)</sup> ('98-'00)	Japan <sup>3)</sup> ('97-'99)
All Cancer	57.1	66.1	60	54.3
Stomach	61.2	25.7	22	62.1
Liver	21.7	13.1	14	23.1
Cervix	80.5	70.6	75	71.5
Colorectum	68.7	65.2	59/61 <sup>4)</sup>	65.2
Thyroid	98.8	96.9	97	92.4
Breast	89.5	89.1	87	85.5
Lung	16.7	15.6	15	25.6
Pancreas	7.6	5.5	6	6.7
Prostate	82.4	99.7	94	75.5

<sup>1)</sup> Horner MJ, Ries LAG, Krapcho M, Neyman N, Aminou R, Howlader N, et al (eds). SEER Cancer Statistics Review, 1975-2006, National Cancer Institute. 2009



<sup>2)</sup> Statistics Canada. Cancer Survival Statistics 1992-2000,

<sup>3)</sup> National Cancer Center in Japan. Cancer Statistics in Japan, 2008

<sup>4)</sup> Colon/Rectum

#### MC: Cancer Patient Financial Aid Program

- Financial support to the lower income group
  - Medicaid
  - Participants of NCSP
  - Under age 18
- Provide 30-70% of out of pocket medical expenditure



## MC: Challenges of Medical Care

- Reducing variation of care quality
  - Assessment of quality including patient's satisfaction
  - Public reporting and Pay for performance (P4P)
- Increasing benefit coverage of National Health Insurance and the amount of financial aid



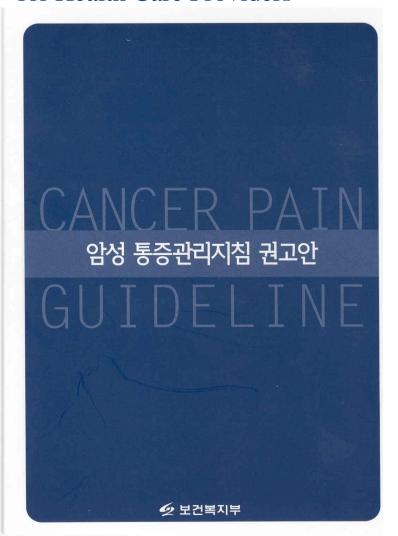
#### **Palliative Care**

- Supporting hospice care facilities
- Providing home-based care of Public Health Center
- Providing education program to the health care providers for palliative care
- Publishing cancer pain control guideline for providers and patients

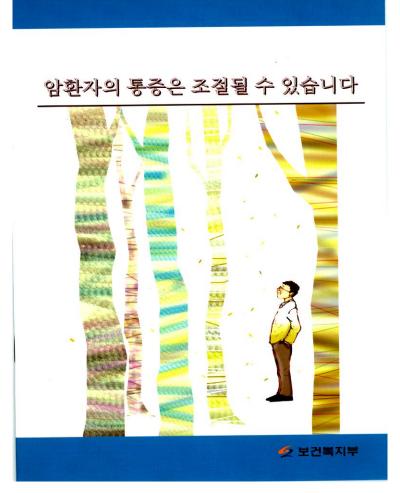


#### PC: Cancer Pain Control Guideline

for Health Care Providers



for Patients





## **Education & Advocating: NCIC**

National Cancer Information Center(2005-)





Center

1577-8899

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



#### **EA: NCIC**

- More than 30 education materials
  - Leaflet, booklet, panel and DVD
  - Distributing to public and professionals





## **Expending Capacities: NCC**

#### National Cancer Center



Research Institute



Hospital

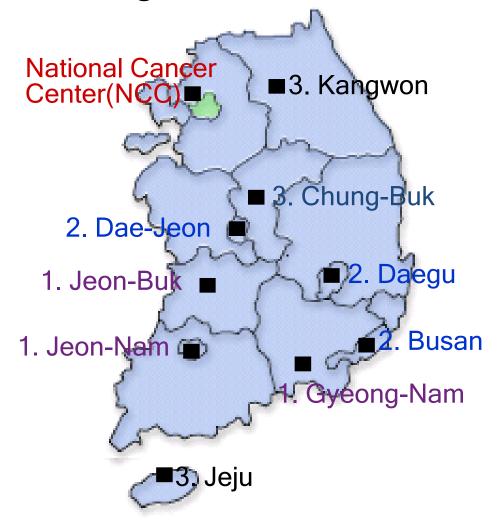


National Cancer Control Research Institute



## Constructing Infra-structure of CC

9 Regional Cancer Center

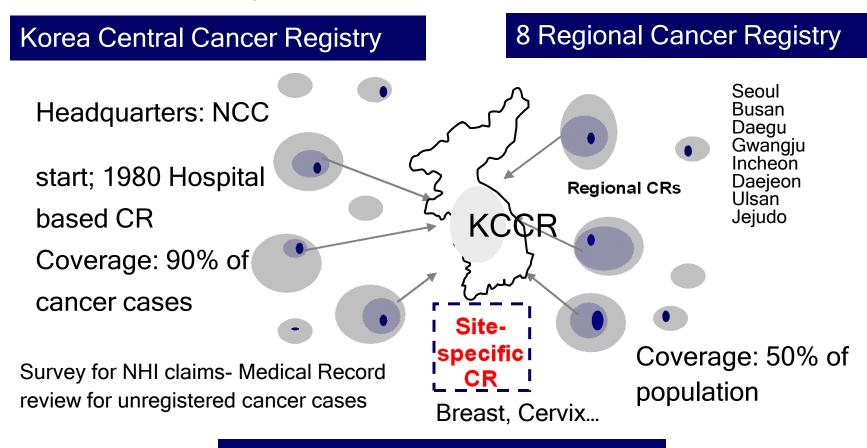


Year	Financial & technical	
2004	supports	
2005	By MOHW (NCC)	
2006	& Regional Gov	



### Registry & Evaluation: Cancer Registry

Cancer Registry



Site-specific Cancer Registry



## **RE: Cancer Registry**

#### Cancer Registry



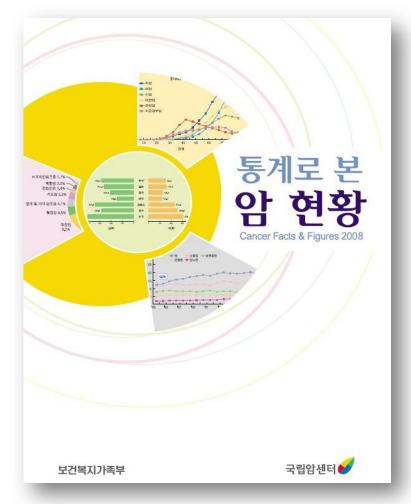


IARC CI5 Vol. 9 web page (<a href="http://www-dep.iarc.fr/">http://www-dep.iarc.fr/</a>) (2007. 11)



#### **RE: Cancer Fact Book**

#### Cancer Fact Book







#### Research

- Develop new diagnosis & treatment
   Methods, especially Anti-Cancer drug
- Provide evidence for policy-making

Develop new technology

Primary Prevention	1	Diagnosis Treatment	

Evidence for program



# **Key Success Factors**

- Fund
  - Tabaco sales tax by Health Promotion Act(1995)
    - 15 cents / 1.5-2.0 dollars / pack (~2004)
    - 35 cents / 1.9-2.5 dollars / pack (2005~)
  - Fund(2008) : 1.9 billion US\$
- Long-term Plan
  - 10-year Cancer Control Plan(1996~)
- Cancer Registry
  - Since 1980



### Weakness

- Government driven cancer control
  - Plan & fund from the Government

- A few activities of cancer NGO
  - A few donation for cancer control

A few evidences of cancer control programs



# National Cancer Control Institute National Cancer Center

# **Brief History of NCC**

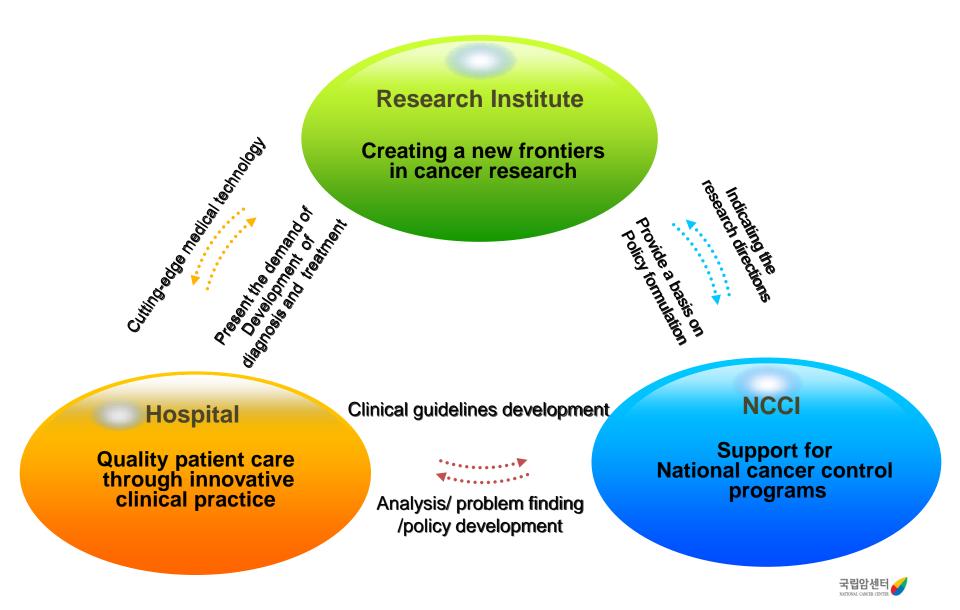
1989. 12. Plan to Establish NCC Formulated by MOHW 2000, 01. National Cancer Center Act enacted 2001. 06. Inauguration Ceremony Held 2002. 03. Nat'l Screening Guideline for 5 Common Cancers Developed 2005. 04. Nat'l Cancer Control Institute Established 2005. 06. Research Building Completed 2005. 10. 'Vision 2020' Announced 2007. 03. Proton Therapy System Introduced Nat'l Cancer Prevention & Detection Building 2007. 06. Completed



### **Vision Statement of NCC**



#### **Functions of NCC Korea**

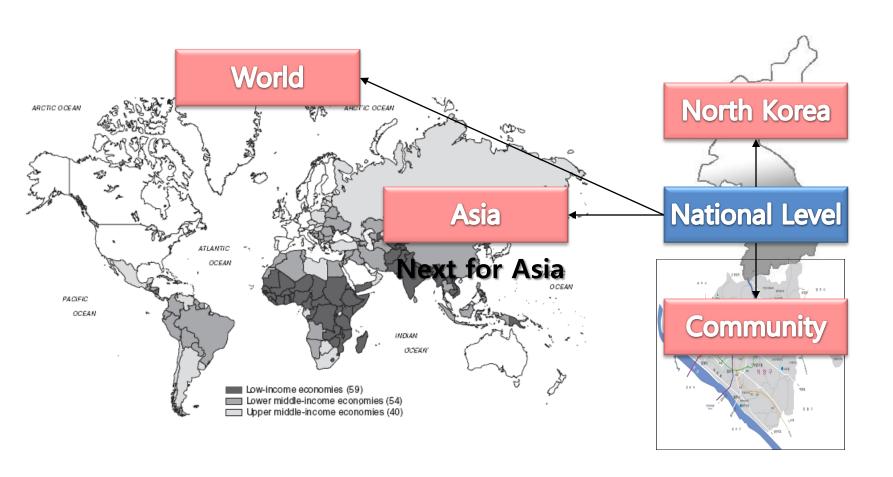


#### **National Cancer Control Institute**

- Think-Tank for cancer control policy
  - Planning and evaluating the National Cancer Control Programs
- Supporting National Cancer Control Programs
  - Prevention, Screening, Palliative care
- Operating Central Cancer Registry, National Cancer Information Center(NCIC) and Quitline
- Research for cancer control



## **Direction of NCCP**





### **Next for Asia**

Asian Pacific Rim Region

- 2000
  - Incidence cases 3 M
  - Mortality casesM
- 2050
  - Incidence cases 7.8 M (2.6 times)
  - Mortality cases5.7 M (2.9 times)

Source: Yang BH, et al. 2004



#### **Next for Asia**

- Sharing experiences of cancer control
  - Success and failure

Korea, Asian countries and WHO



