

The current Status of Colorectal Cancer in China

Suzhan Zhang
Cancer Institute, Zhejiang University
2012.8



The current Status of Colorectal Cancer in China

Incidence

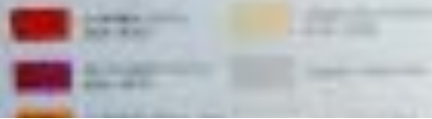
Screening

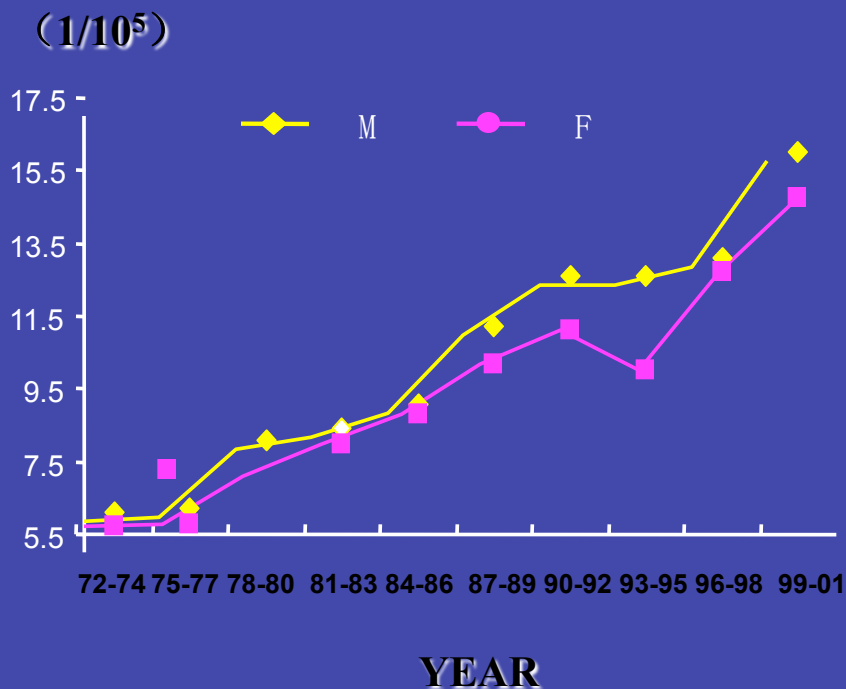
Standardization for diagnosis and treatment

National data collection

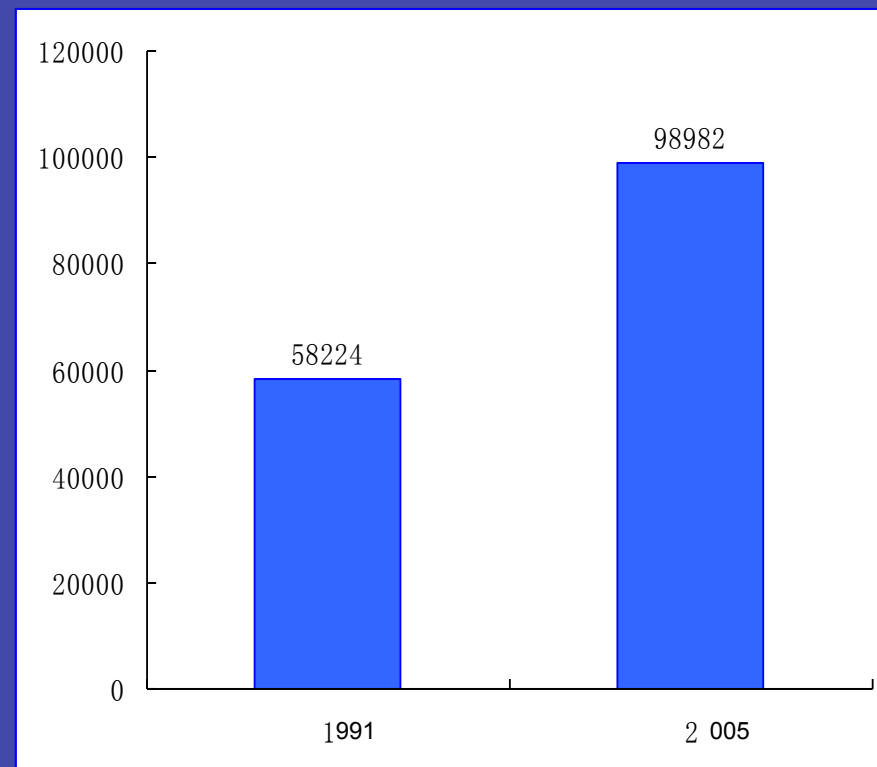
Incidence of Colorectal Cancer in China (1970S)

红色区域为高发地区





Incidence of Colon Cancer in Shanghai 1971-2001



Mortality of Colorectal Cancer in China 1991-2005

L Yang, British Journal of Cancer, 2004(90):2157-2166.



Estimated New Cases*



Estimated Deaths

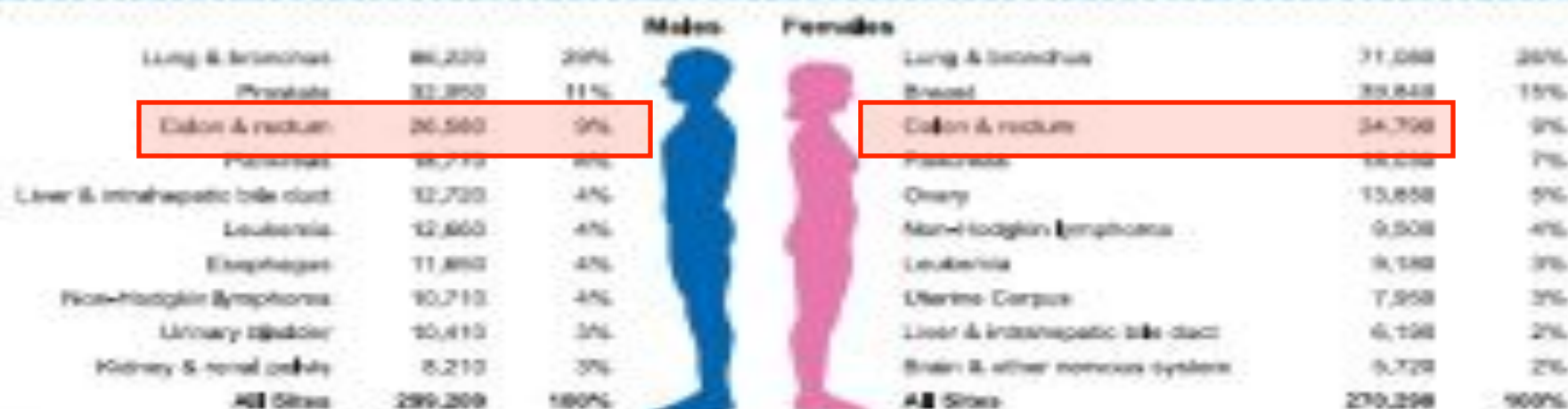


FIGURE 1. Ten Leading Cancer Types for the Estimated New Cancer Cases and Deaths by Sex, 2010.

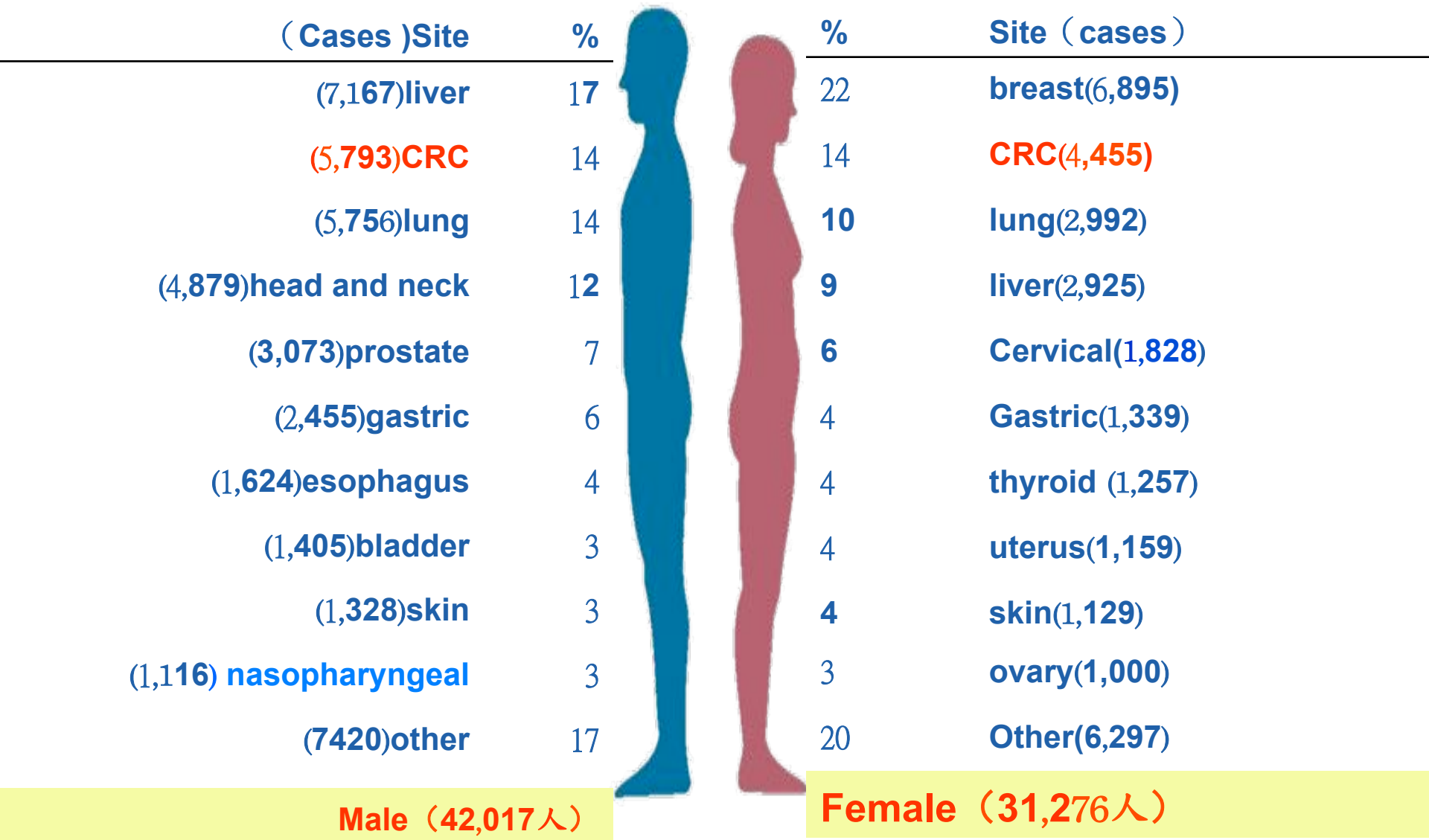
*Excludes basal and squamous cell skin cancers and in situ carcinomas except urinary bladder. Estimates are rounded to the nearest 10.

Cancer incidence in Taiwan , 2006年

28%CRC= 5,793 + 4,455= 10,248

27%liver=7,167 + 2,925 = 10,092

24%lung=5,756 + 2,992 = 8,748



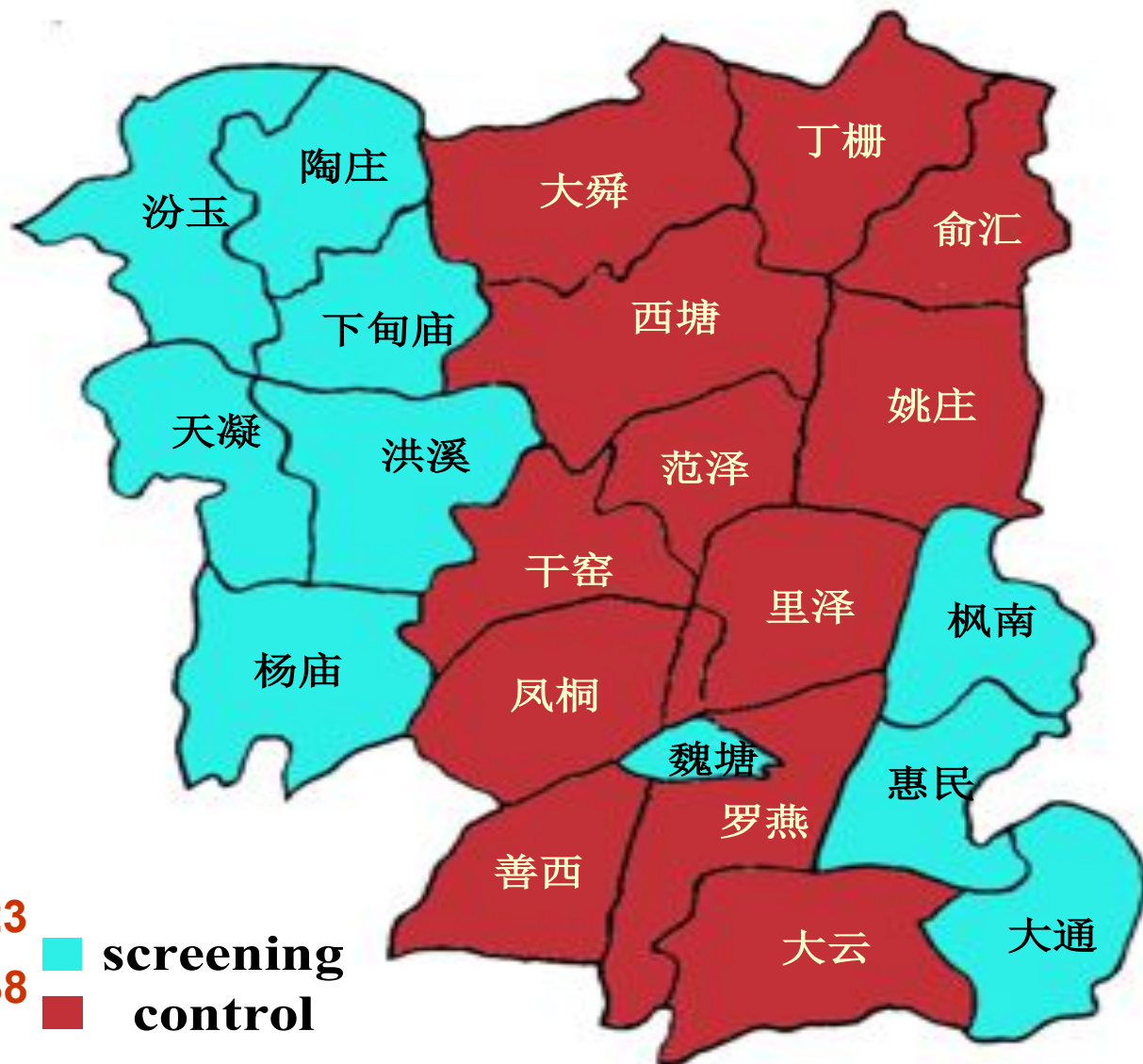
Screening and control community in Jiashan county

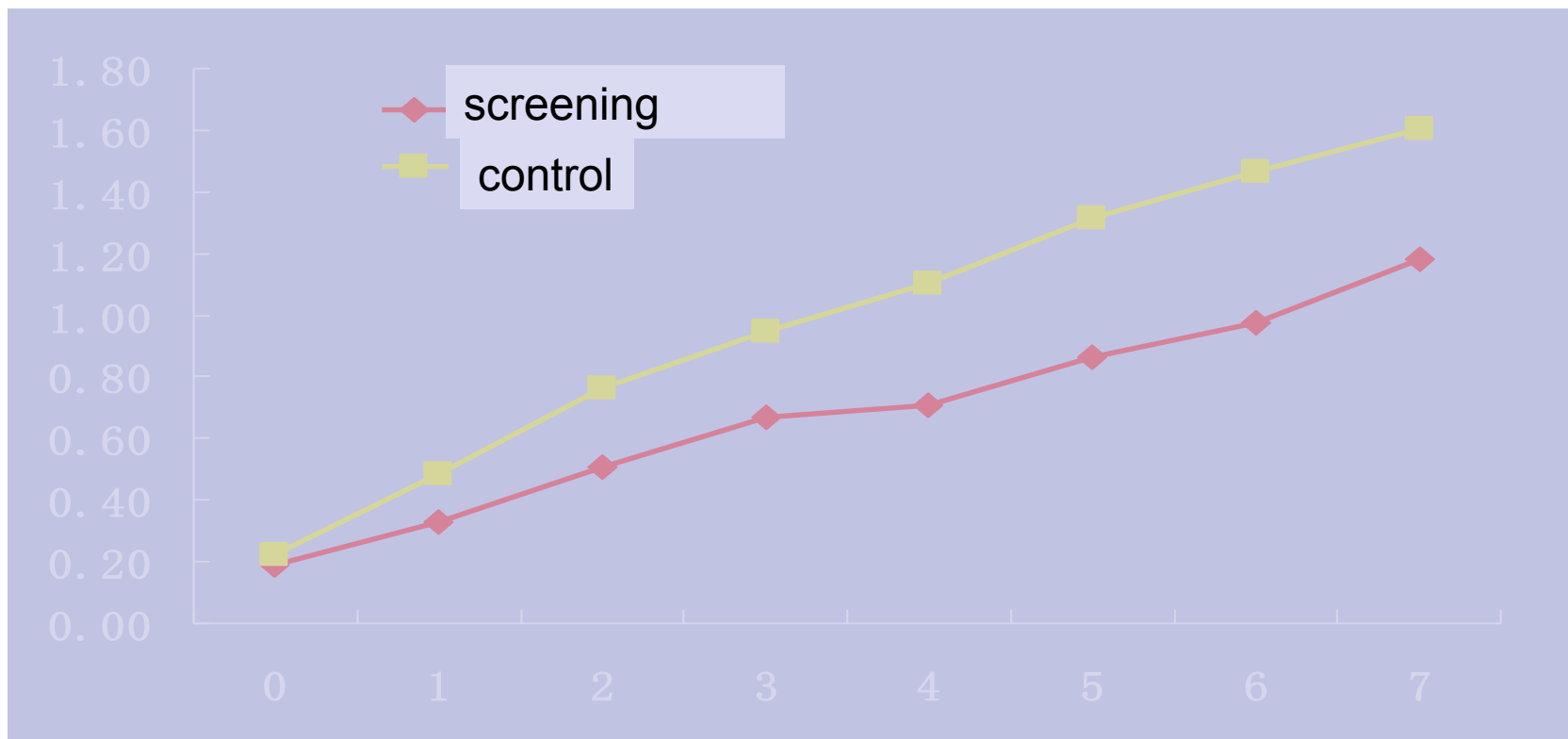
1990年

94423

97838

■ screening
■ control

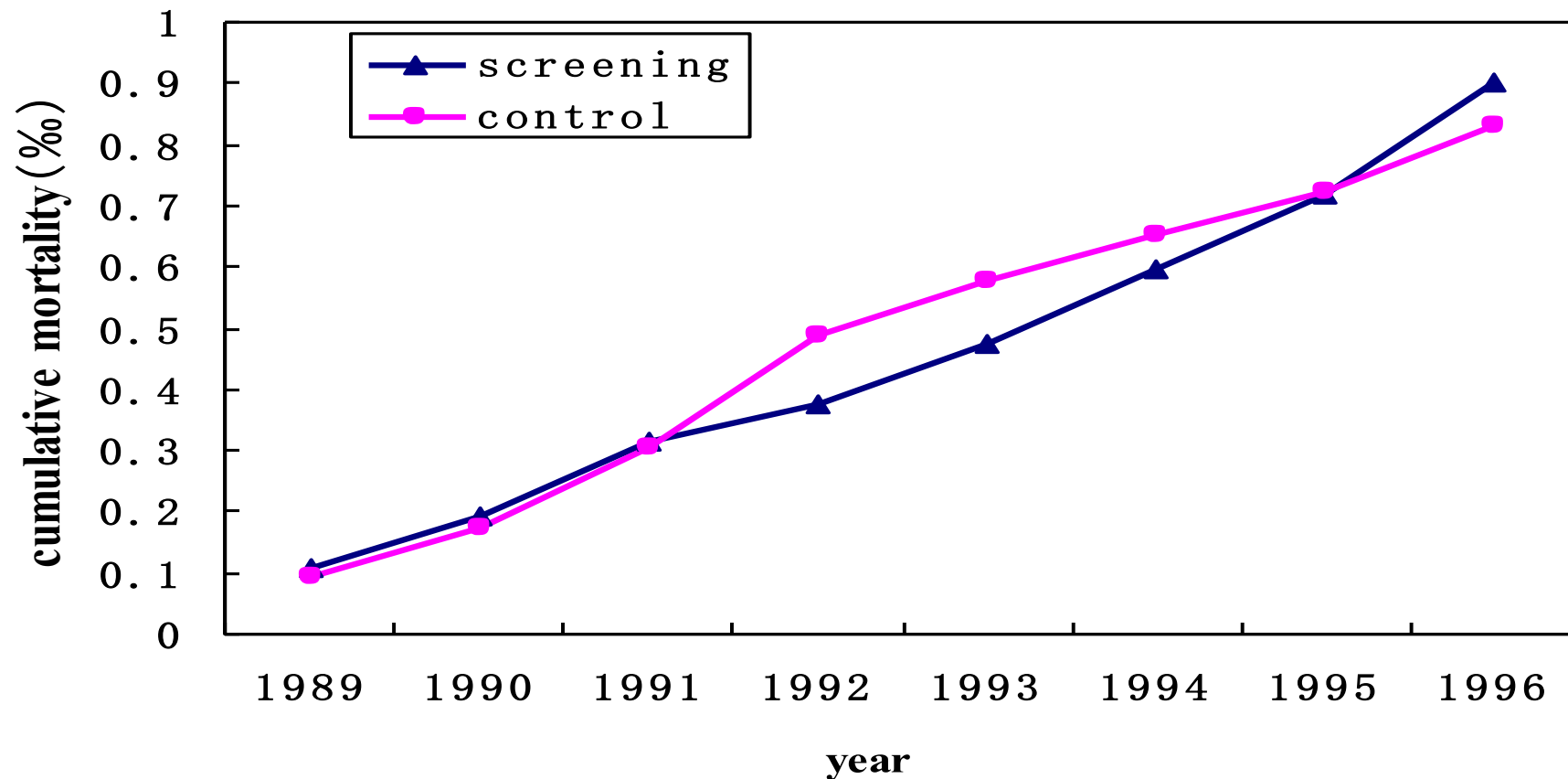




1989-1996

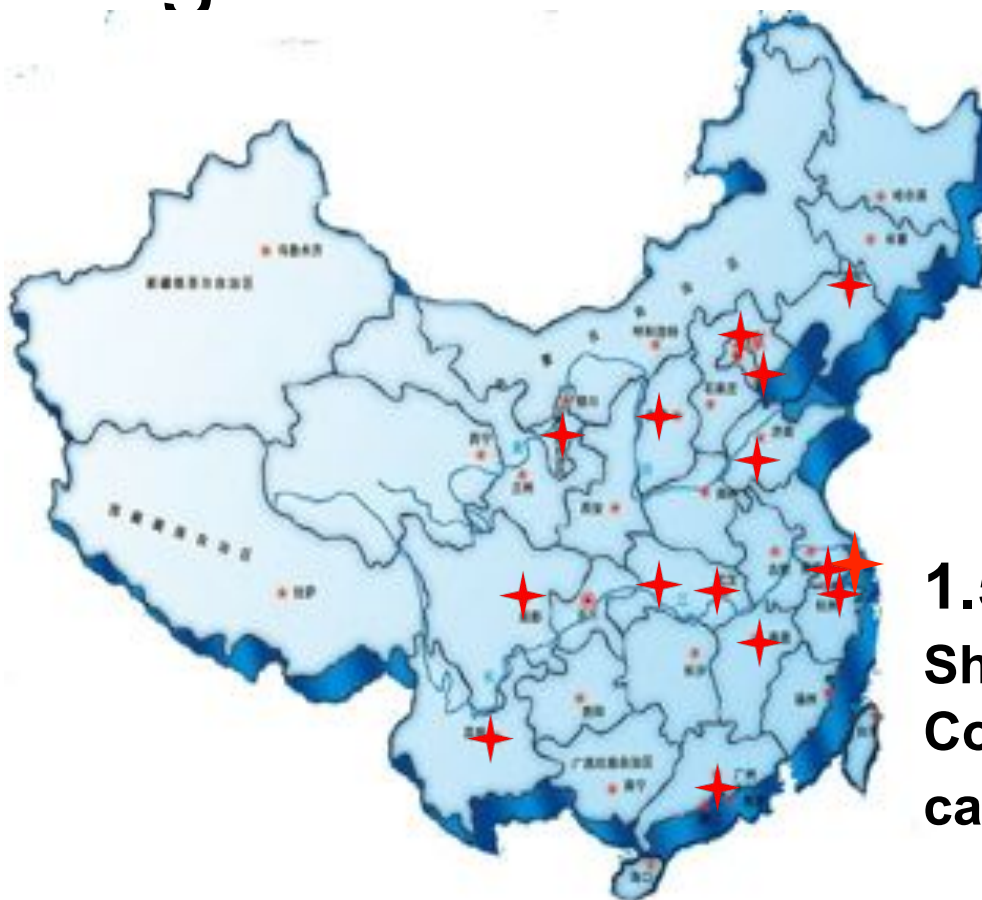
Cumulative Mortality of Rectal cancer in Jiashan

Comparing cumulative mortality of conlon cancer between screening and control groups during 1989-1996





National Screening Program Sites



year	sites	Primary Screening	Colonoscopy
2007	2	100,000/y	10000/y
2010	8	300,000/y	28000/y
2011	14	400,000/y	32000/Y
2012	15	430000/y	33000/Y

1.5M was covered Since 2007
Shanghai CRC Screening 8M in 4y
Combine Screening for 5 common cancer in city 10M in 5y

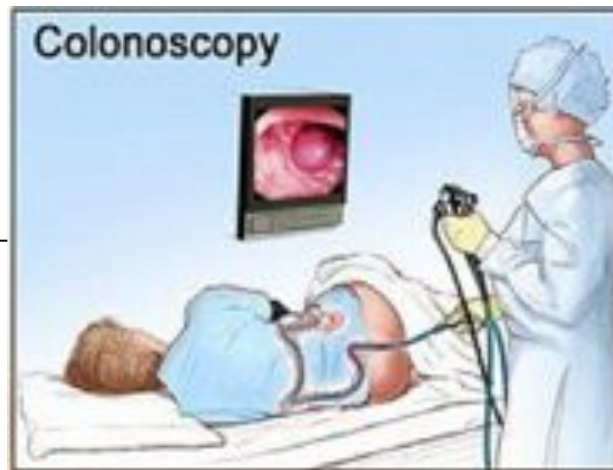
Workflow of CRC screening in China



Questionnaire survey
(+)



iFOBT
(+)



Optimized Screening Program

- Questionnaire based survey
age ≥ 40 , meet one of the four requirements below:
 - (1) Colorectal cancer history of first class relatives
 - (2) Personal history of any cancers
 - (3) Personal history of colorectal polyps
 - (4) meet any two of the six conditions below:
 - ①chronic diarrhea; ②chronic constipation;
 - ③mucosanguineous feces; ④chronic appendicitis;
 - ⑤severe psychological stress; ⑥chronic disease of biliary tract
- iFOBT

two iFOBT, 1 week interval , any iFOBT positive is FOBT(+)
- Colonoscopy

questionnaire (+) or iFOBT(+) subject to colonoscopy

Screen compliance in Urban and Rural area in China

		Compliance for first screen	Compliance for colonoscopy	High risk individuals
Rural area	Haining	89.8%	79.6%	16.5%
	Jiashan	88.9%	78.0%	12.6%
Urban area	Hz,Hb,Sh	45.6%	34.8%	13.3%

Screen compliance in counties is much better than that in large cities

Contributions of QS & FOBT

	Adenoma	Nonadenomatous polyps	cancer	all
Ques(+)	465(61%)	457(61%)	19(21%)	941(59%)
FOBT(+)	245(32%)	225(30%)	50(54%)	520(32%)
Both(+)	53(7%)	68(9%)	23(25%)	144(9%)
all	763	750	92	1605

61% adenoma were discovered by Questionnaire but missed by FOBT

The 5year survival rate on world (WHO,2005)

N America	61%	Japan	57%	Sahara	37%
Mid East and N. Africa	37%	S. Europe	45%	E. Europe	30%
Australia/New Zealand	54%	S. Asia	36%	WN Europe	46%
Mid Asia	33%	Latin America	45%	China	32%

《结直肠癌诊疗规范》(2010年版)发布会

卫生部医政司

2010年11月4日



The first Guideline for Cancer diagnosis and treatment was published by MOH in 2010



结直肠癌诊疗规范

【2010年版】

卫生部医政司
2010年10月

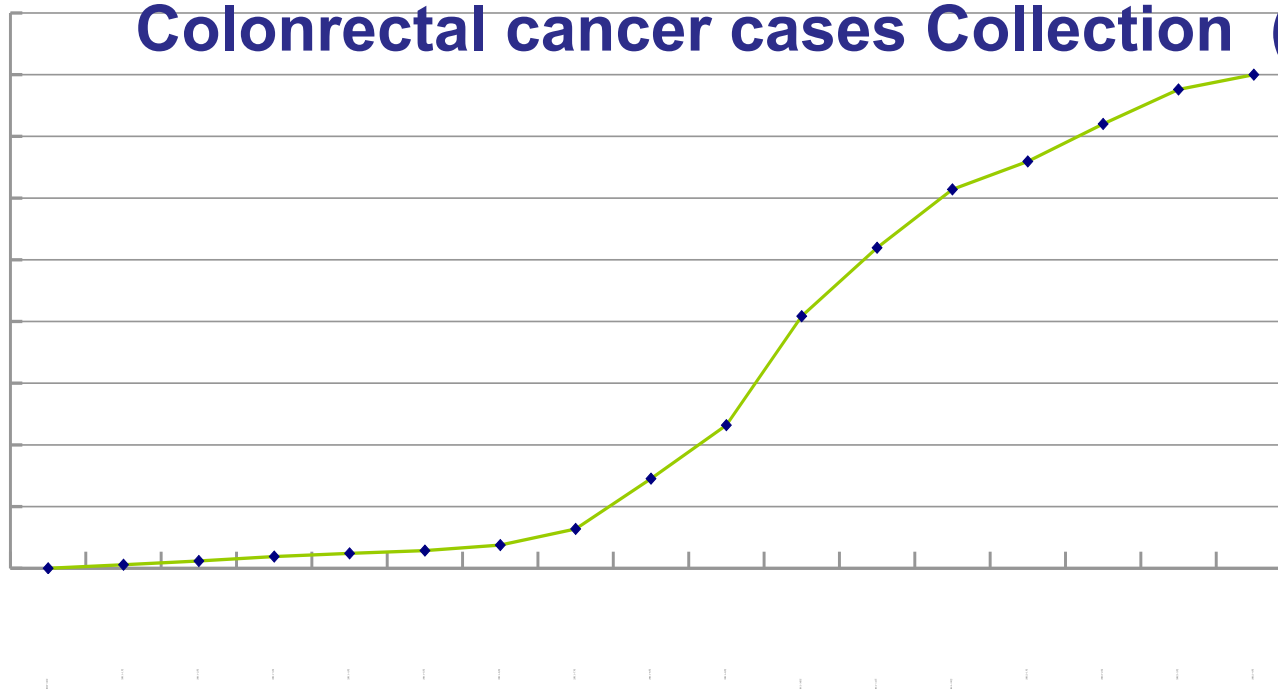
Manual of Colonrectal Cancer cases Collection. MOH,PR.China

Guideline for colonrectal cancer MOH. PR. China



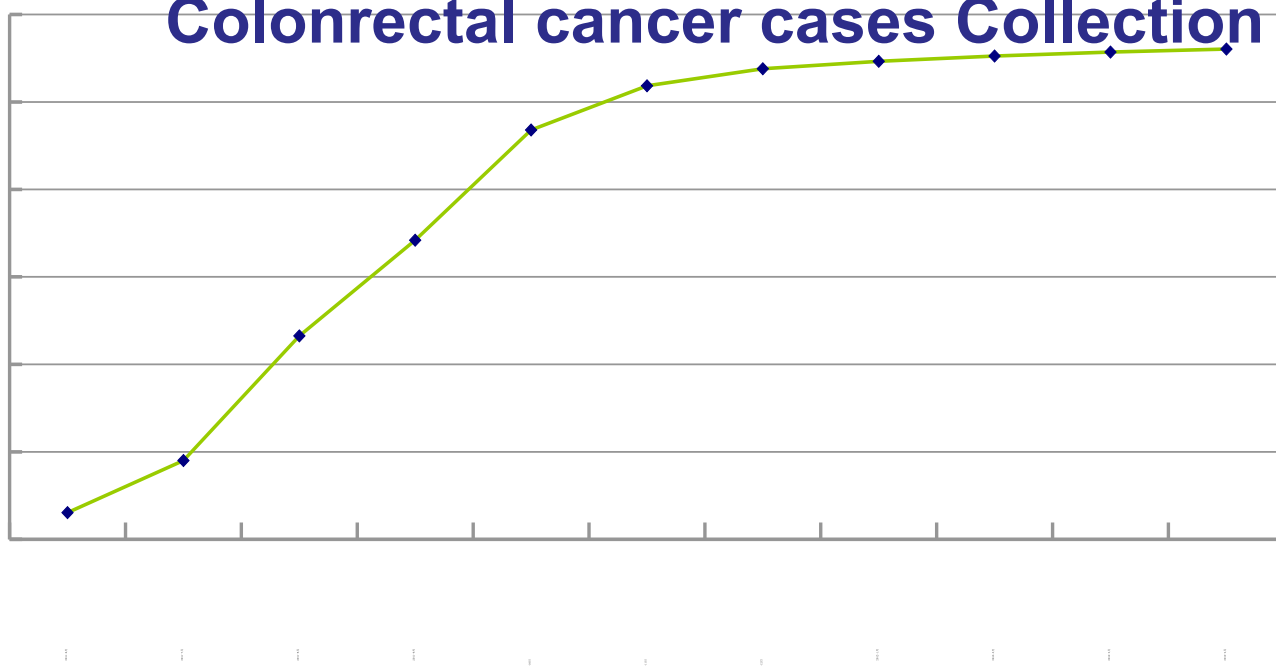


Colonrectal cancer cases Collection (Total)





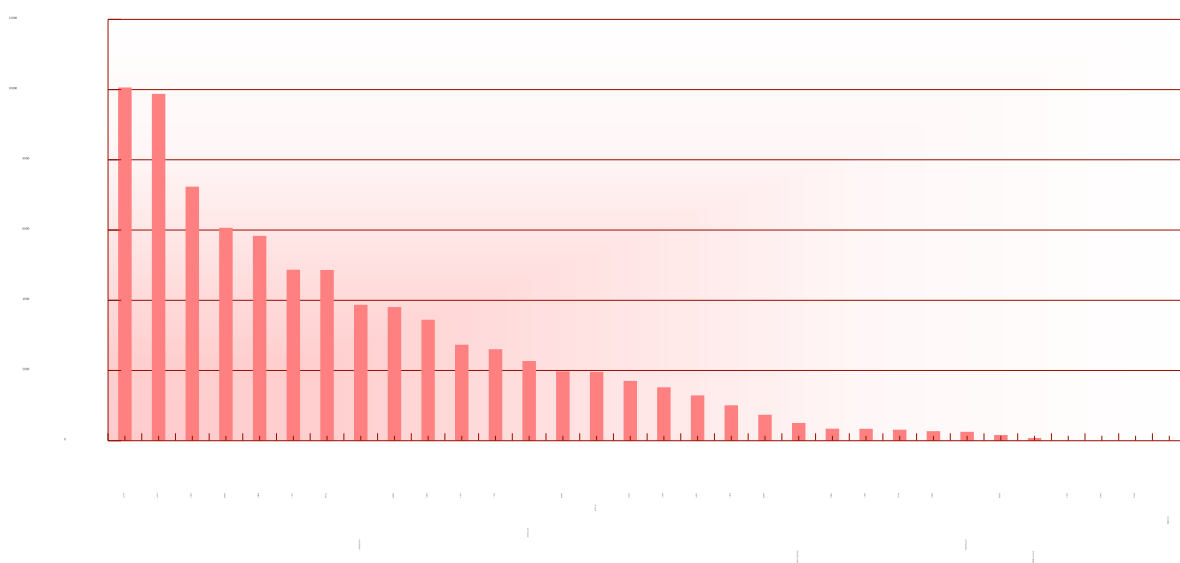
Colonrectal cancer cases Collection (monthly)



况



Colonrectal cases Collection (Province)



National CRC Case Quality Control Statistics Requirement (2012)

1. Stage procedure should be performed before treatment
2. Pathological Confirm before treatment
3. Exploring and record the location, size, liver, pelvic and I nodes condition in operation
4. 10% Formalin buffer should be used for tissue preservation
5. The gross view, differential, deepness of infiltration, margin condition, infiltration to vessel or never, node number examined and node number involved should be reported in the final pathological report.
6. RAS status should be determined before the target therapy.
7. The field, technics and dosage of radiotherapy should be recorded.
8. Chemo-Radiation therapy used on mid and low rectal cancer above T3 or N1 stage
9. Follow the guidelines in chemotherapy for mCRC
10. Evaluate and record side effect of chemotherapy and radiotherapy.
11. Health education for CRC patients
12. Mean hospital stay and cost of CRC patients



Thank You!