EVOLUTION OF TREATMENT METHODS FOR CERVICAL CANCER IN CHINA

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THE HISTORY OF CERVICAL CANCER TREATMENT IN CHINA.

Two treatment methods (radiation therapy and surgical treatment) for cervical cancer in China for almost 100 years.



RADIATION THERAPY

From 1920s radiation therapy was the majority treatment for cervical cancer for all stages and have good resolved in China

Mainly using Radium therapy which bought from UK or US by the first generation of gynecological oncologists of China

Some Tumor hospital and Cancer center using external radiotherapy and after loading in 1970s.

RADICAL HYSTERECTOMY

From 1950s few medical center such as Beijing, Shanghai, Tianjin, Chengdu, Guangzhou start the Abdominal Radical Hysterectomy (Wertheium operation) only for stage I and IIa



THE TREATMENT METHODS FOR CERVICAL CANCER IN CHINA TODAY



RADICAL HYSTERECTOMY TODAY

Most radical hysterectomy are abdominally 80%, laparoscopic radical hysterectomy increased about 20%.

Only very few hospital did vaginal radical hysterectomy .this depend on the doctor's experience and medical instrument



INCIDENC GETTING YOUNGER

2001 FIGO report 1950s were 60 years old. 1990s 51.7 years old.



In China 2000-2009: 44.7 ± 9.5 years old

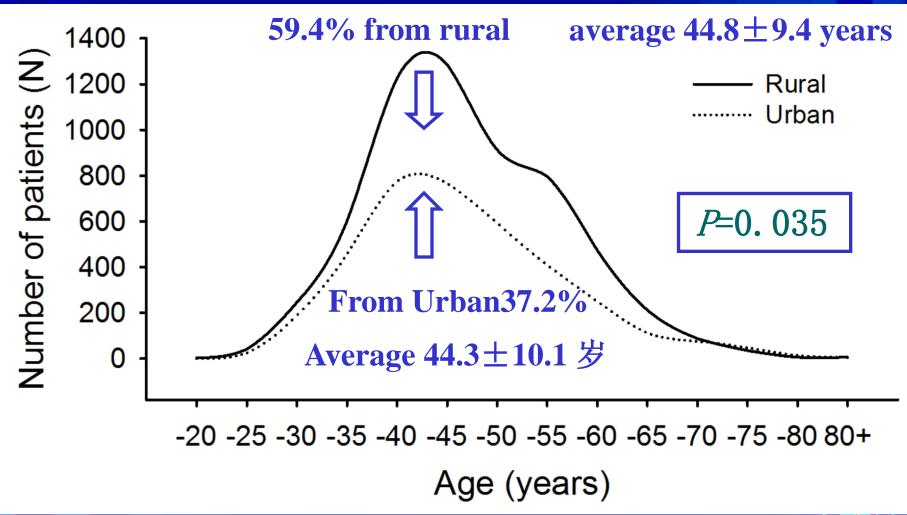


The change in prevalence age of cervical cancer in China: a report of 10,039 cases from a nationwide working group



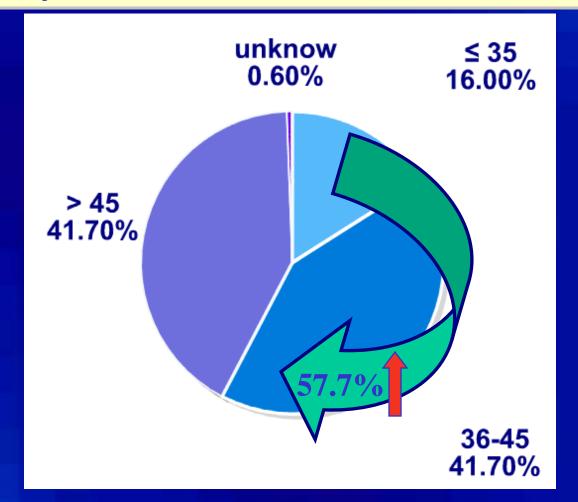
Compete with before 2000 decrease 10 years







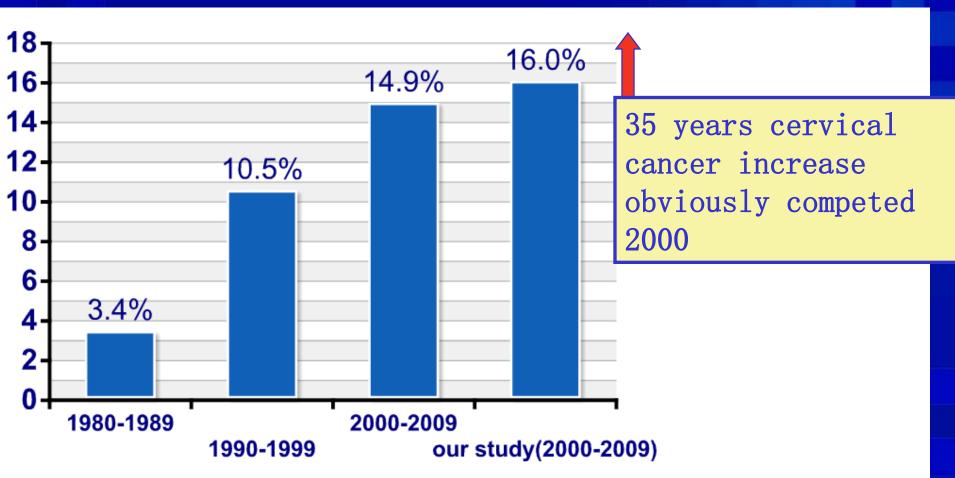
●≤45 years: 57.7%



cervical cancer patients age structure



●≤35years: 16.0%

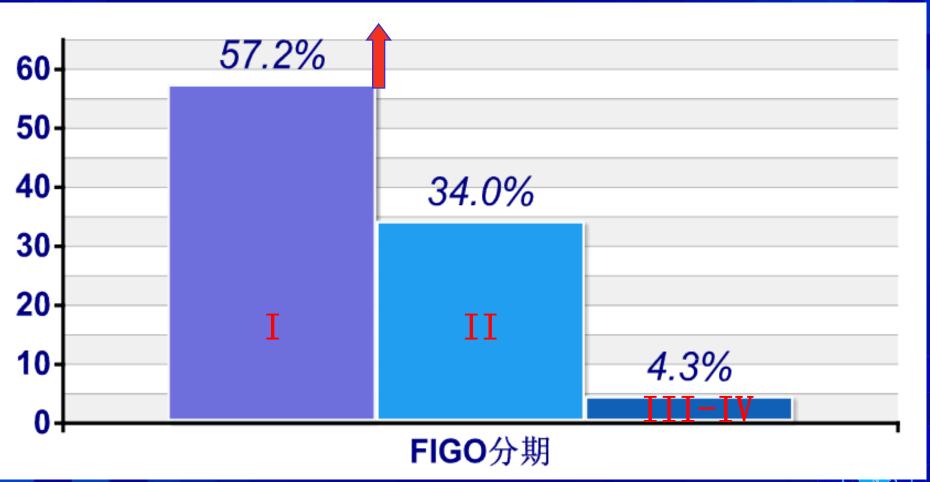


Different years ≤35 cervical cancers in China

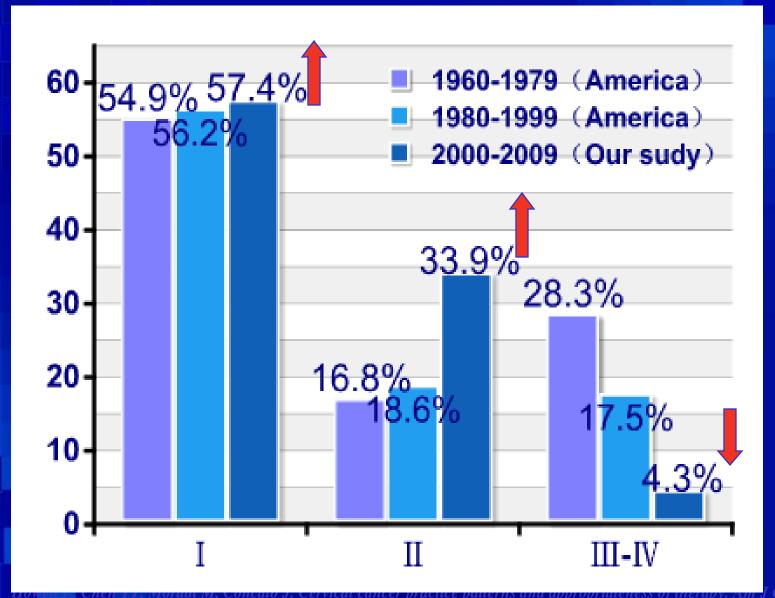


Cai HB, Liu XM, Huang Y, et al. Trends in cervical cancer in young women in Hubei, China. Int J Gynecol Zeyi Cao M.D. Cancer 2010;20:1240-3.

EARLY CASES INCREASED OBVIOUSLY









lovya S. Noone AM, Banerjee M, et al. Racial differences in cervical cancer survival in the Detroit metropolitan



LIFE QUALITY

Life quality after treatment is most important of young and middle age patients

But the radiation therapy has the side effects as destroy ovary and vaginal function

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YOUNG PATIENTS OF CERVICAL CANCER

Recent 30 years the young patients of cervical cancer increased obviously From 10% to more than 40%,

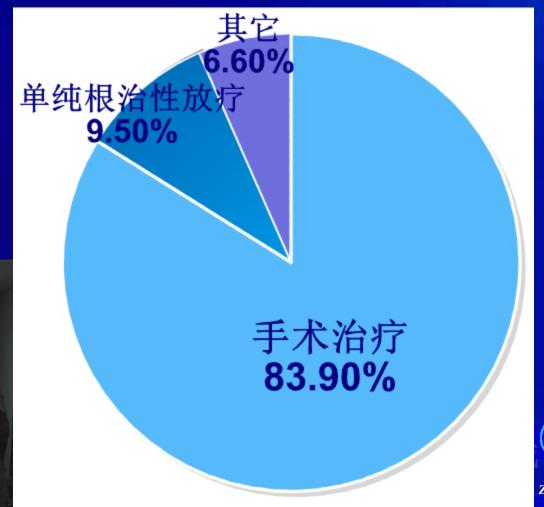
The life quality after treatment become very concern by these younger patient group, so their first choices for surgery treatment is about 84%.

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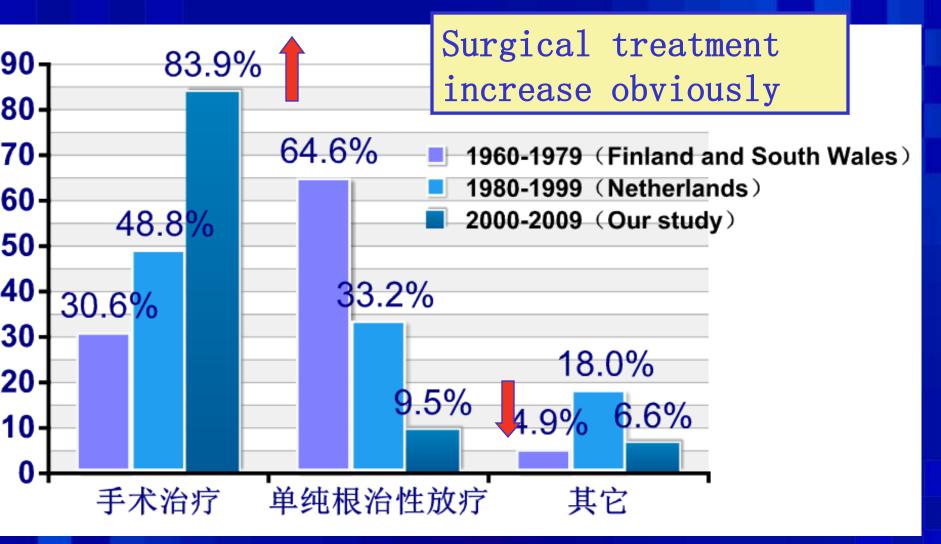
SURGICAL TREATMENT INCREASED FOR CERVICAL CANCER











Hakama M, West R. Cervical图8. 不同年代的宫颈癌手术治疗率的比较 cancer in Finland and South Wales: implications of end results data on the natural history. J Epidemiol Community Health 1980;34:14-8.

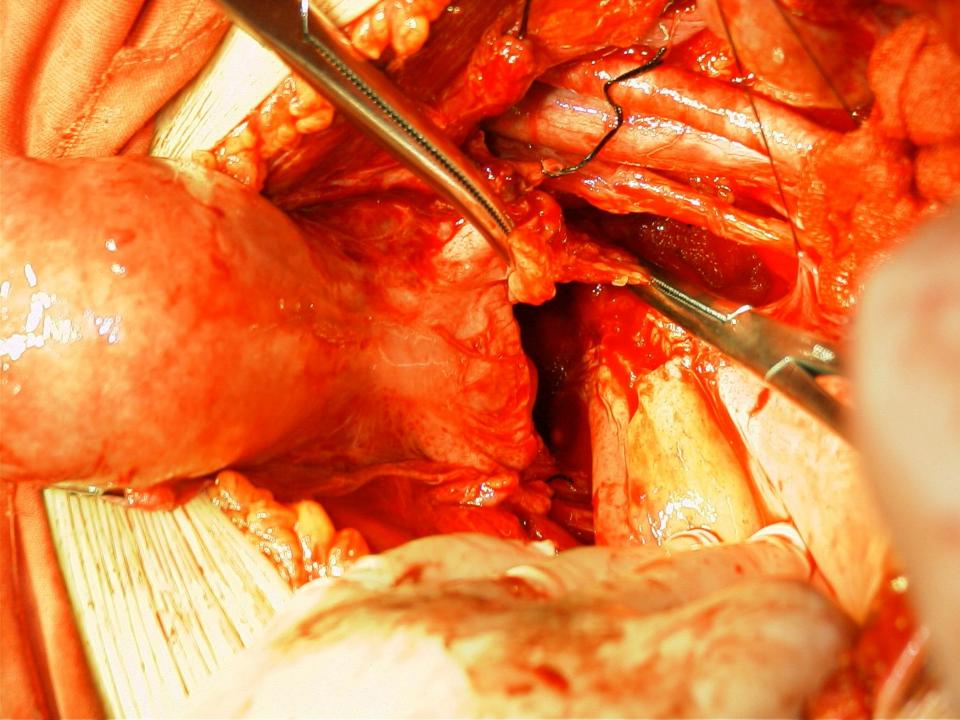
de Rijke JM, van der Putten HW, Lutgens LC, et al. Age-specific differences in treatment and survival of patients with cervical cancer in the southeast of The Netherlands, 1986-1996. Eur J Cancer 2002;38:2041-7.

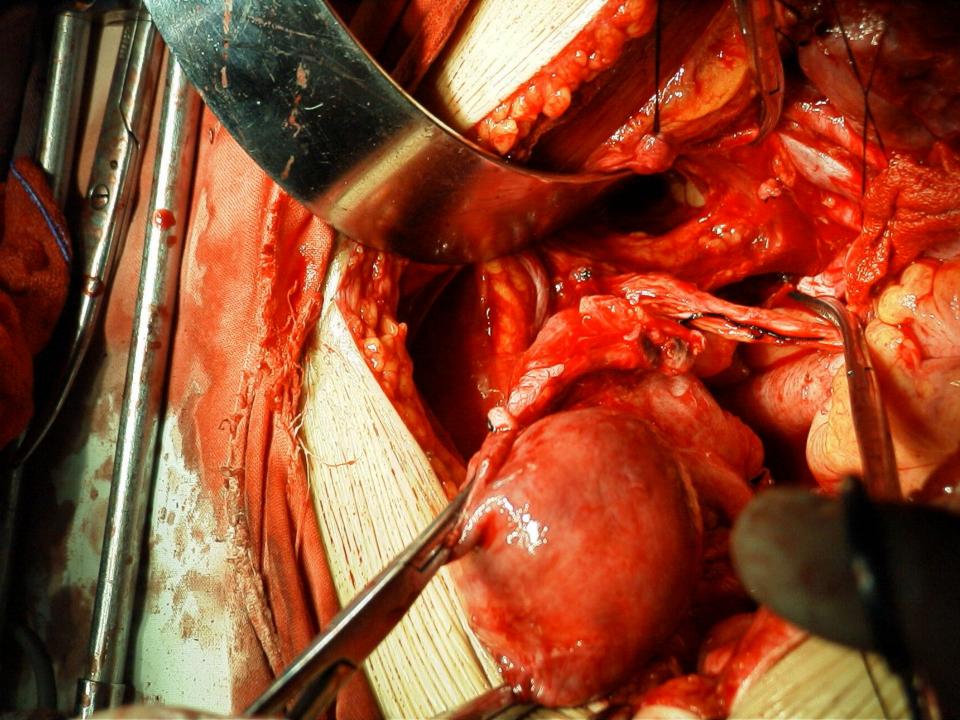


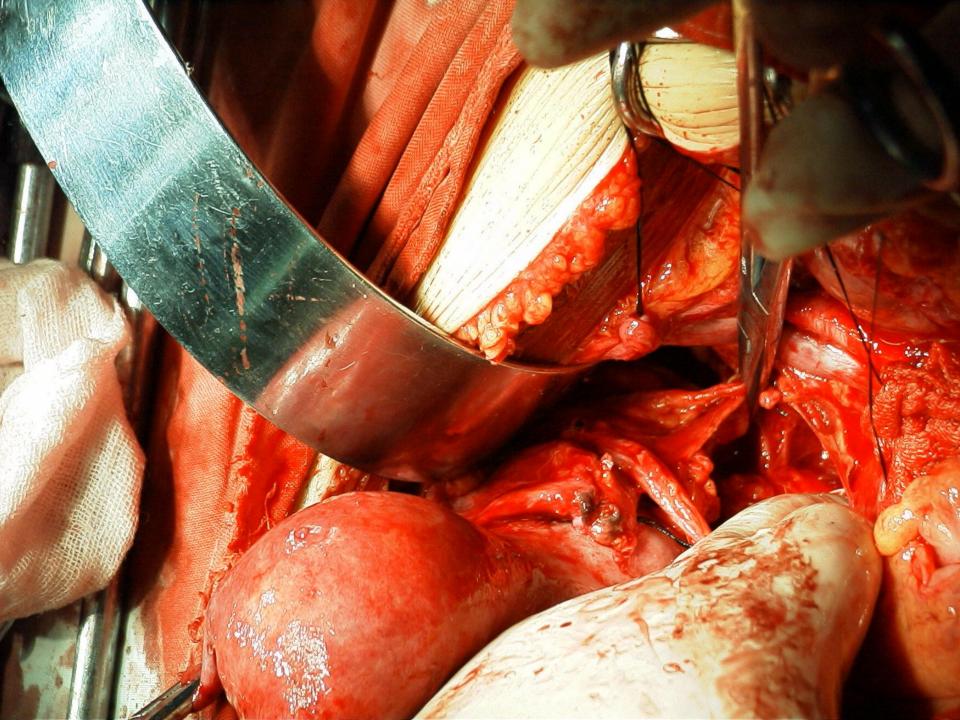
STANDARLIZATION OF RADICAL HYSTERECTOMY

No matter what type performed the radical hysterectomy the principle must be emphasized that means the cardioligament and sacroligament and vaginal must be resection 3cm or close the pelvic wall









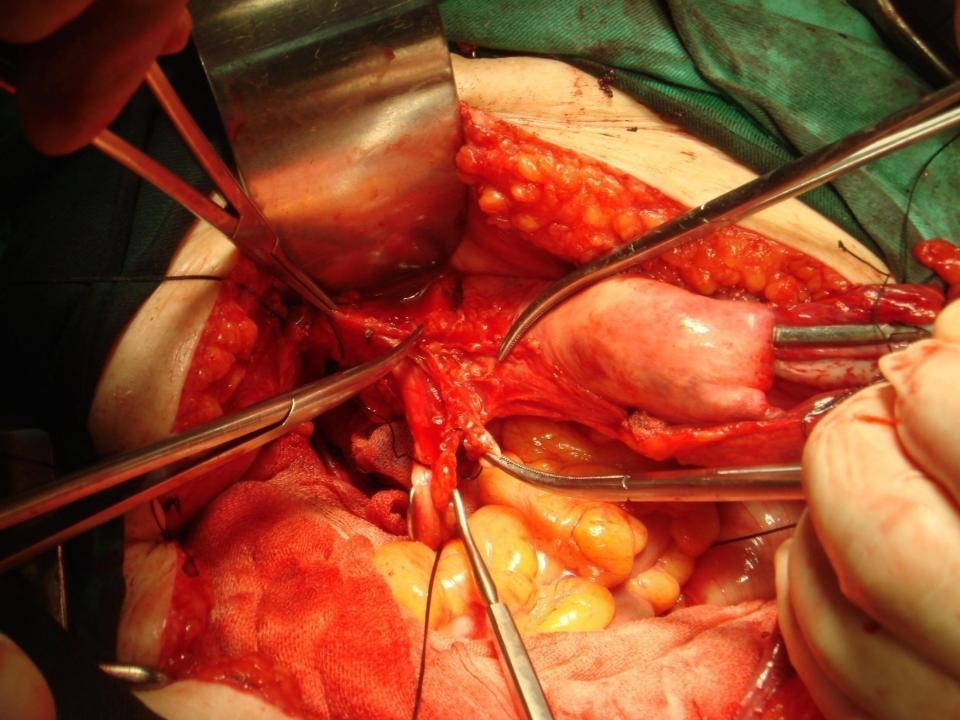
URETEROTUNNEL

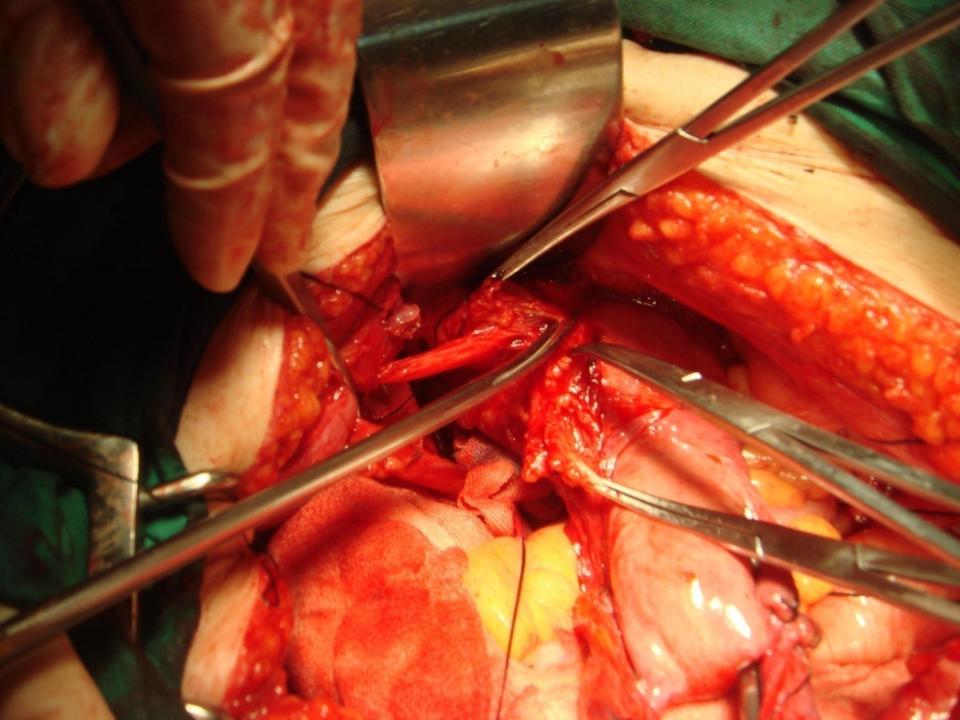
Dissection the ureterotunnel explore the

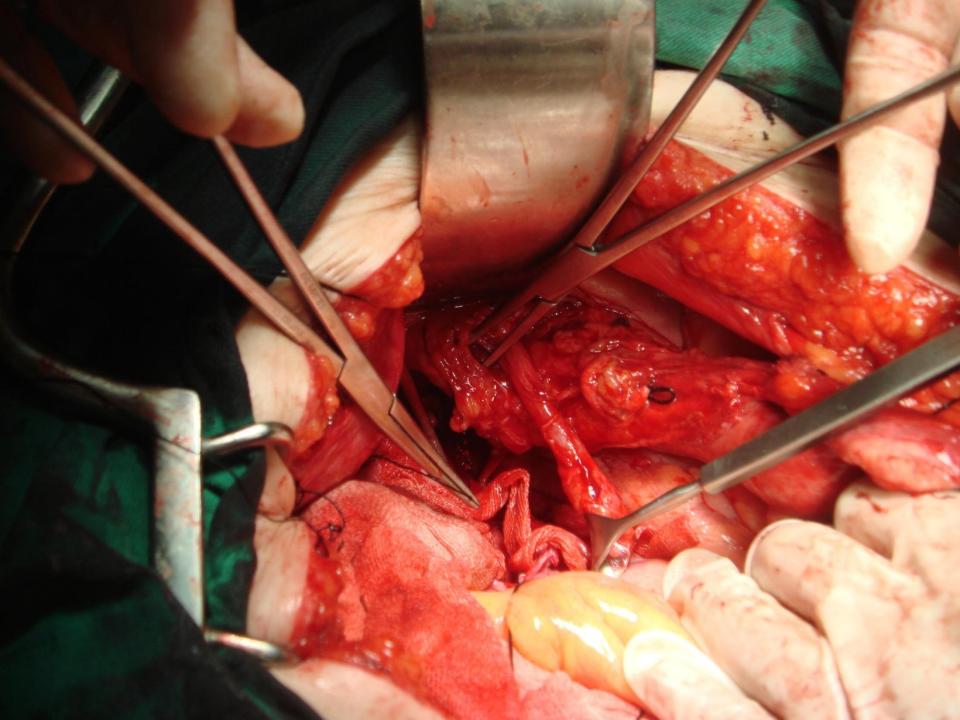
ureterocervical ligament pushdown the bladder

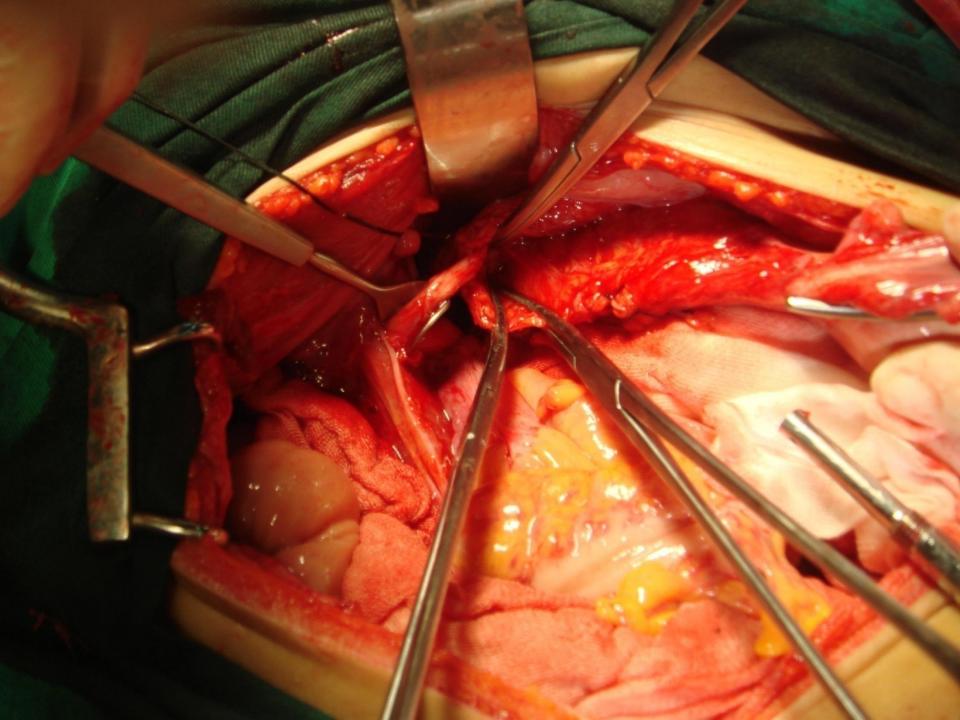
than cut the vaginal as length as you want.

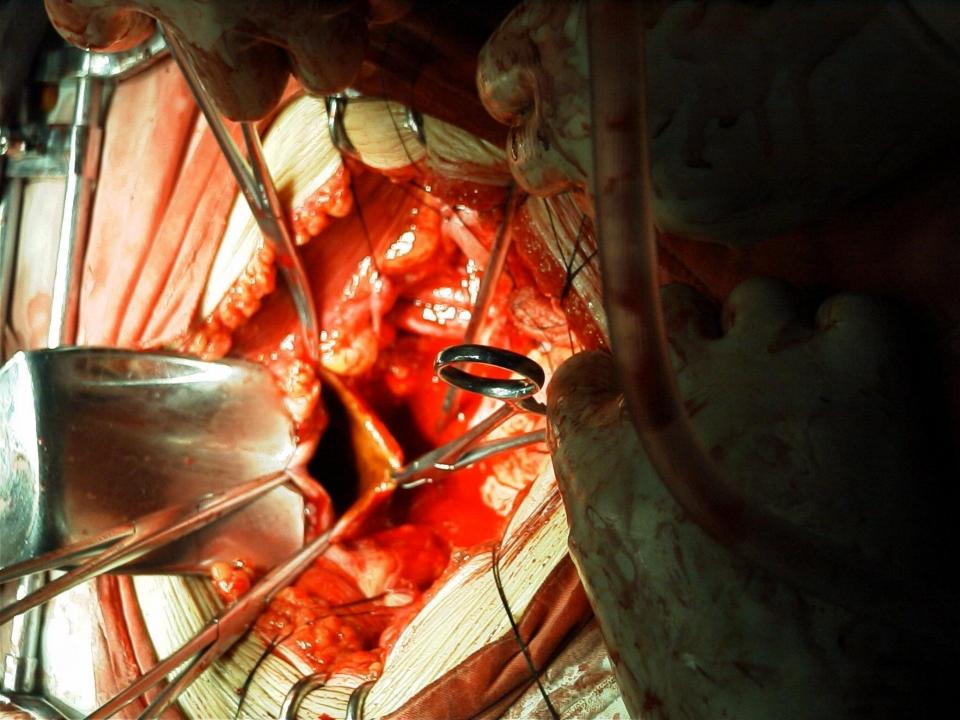








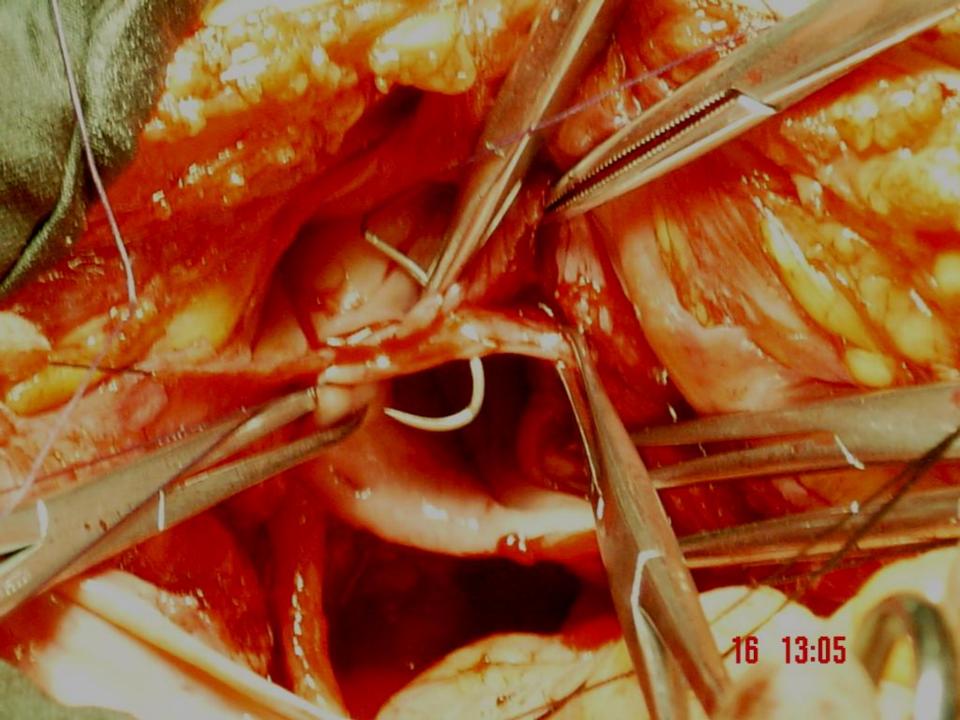


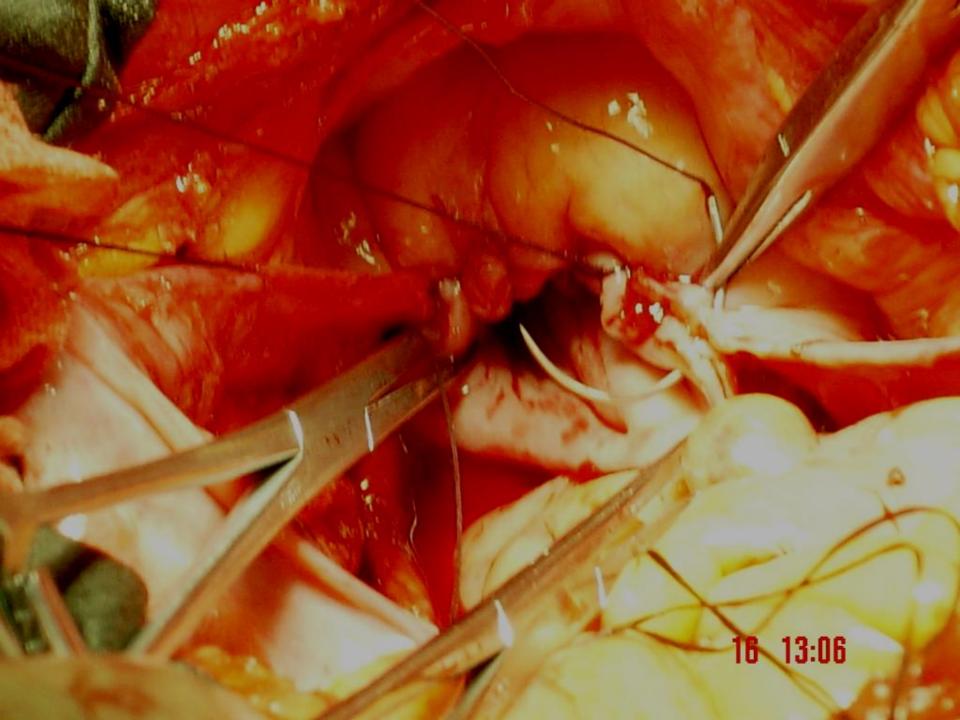


RECONSTRUCTION OF VAGINA

We use the peritoneal of bladder and the serous membrane reconstruct the prolong vaginal keeping sexual function after treatment

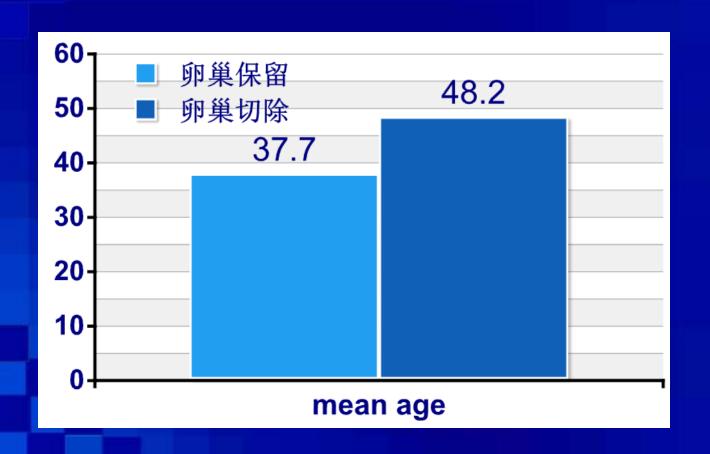








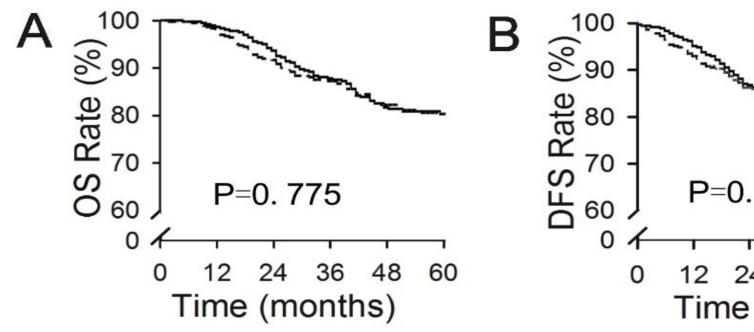
RETAIN OVARY (42.00%)

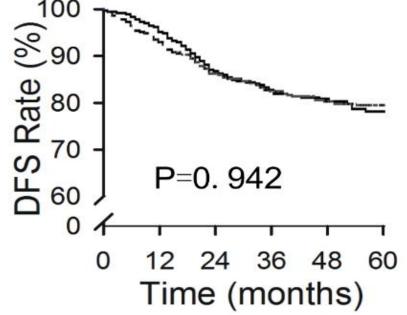




Retain ovary cases 5 years survival

—— Bilateral oophorectomy —— Ovarian preservation





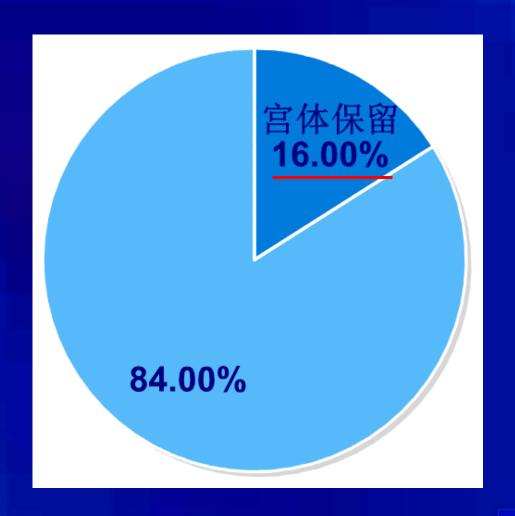


TRACHELECTOMY

From 2000 we have done more than 100 cases of trachelectomy via vaginal or abdominal the successful pregnancies is 30%

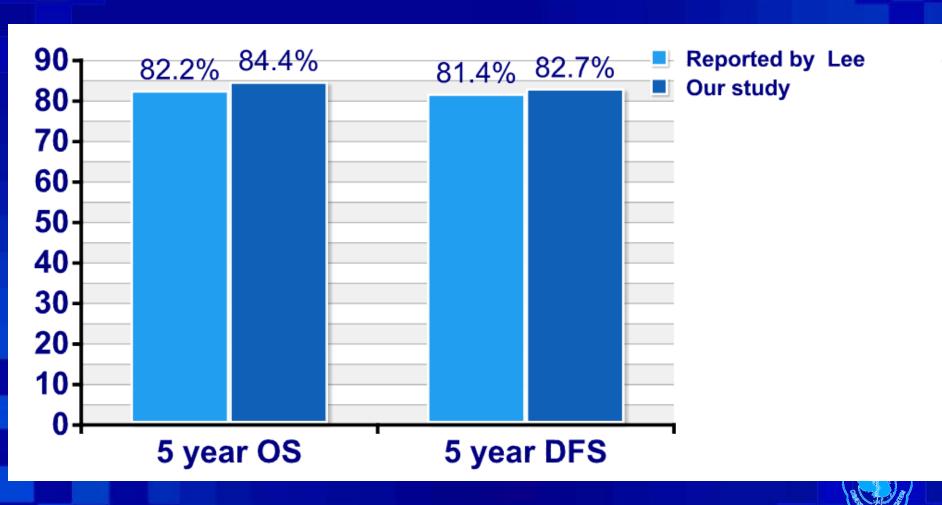


IA Trachlectomy (16%)





5 YEARS SURVIVAL OF CERVICAL CANCER



Lee HN, Lee KH, Lee DW, Lee YS, Park EK, Park JS. Weekly cisplatin therapy compared with triweekly combination chemotherapy as concurrent adjuvant chemoradiation therapy after radical hysterectomy for cervical cancer. This of the supplementary of the supplement

CHEMOTHERAPY TO DAY

Neoadjuvant chemotherapy getting more for the younger group before surgical treatment

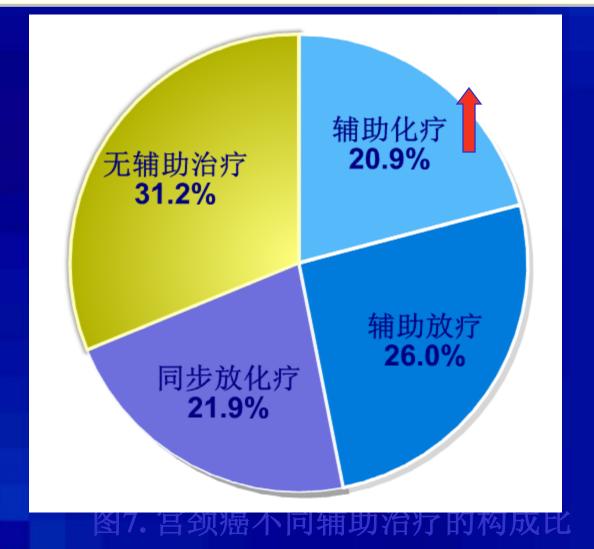


NEOADJUVANT CHEMOTHERAPY

1980s we using chemotherapy (Neoadjuvant chemotherapy) for cervical cancer before surgery treatment especially for young patients of cervical cancer stage IIb or IIIa in order to keep their (ovary sex sex fertility) function and good life quality after treatment.



Neoadjucent chemotherapy increases





RADIATION THERAPY TODAY

• Today we have IMRT (intensity modulated radiation therapy), CCRT (classical conformal radiation therapy) radiation therapy.

The radiation therapy ratio is reduced as 10%, the surgical treatment ratio is up to nearly 90%, we don't do radiation therapy alone but with chemotherapy

RECURRENCE CASES AFTER TREATMENT

30% will recurrence after radiation therapy or surgical treatment mostly within 2 years!



EXENTERATION

We start Exenteration surgery in 1980s, LEER operation in 2008 for recurrent or VIa cervical cancers.



FUTURE OF CERVICAL CANCER TREATMENT

More new techniques will be used to treat cervical cancer patients in near future



HIGH QUALITY OF LIFE

Pay more attention to keep function after treatment personality



MICROINVANSIVE SURGERY

Microinvasive surgical will be more wildly used in clinical and well developed no gas, Robot laparoscopic surgery.



ROBOT LAPROSCOPIC SURGERY

Robot- surgeon with 3D micro-robot-hand, finger-feeling, robot-handle operation



BIOCHEMOTHERAPY THERAPY

Biochemo-therapy with surgical treatment.



EXENTERATION AND LEER OPERATION

Control and Reduce cervical cancer recurrence cases

Never give up, especially for young recurrence patients.

Improve effective and well select patients for Exenteration and LEER operation

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NEW MEDICAL MATERIAL

Expect better material for fill pelvic floor & pelvic cavity and artificial bladder, urethra, anus, vaginal(stem cell technic) for reconstruction operation for good quality of life



LET'S HOPEFULLY

FACE to GLORIOUS TOMORROW!



















