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M&N&GEMENT OF C&RCINOM& CERVIX

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PreventiveCurative



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Preventive

- Primary Prevention
- Secondary prevention



Primary Prevention

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- Identifying 'high-risk' female
- Identifying 'high-risk' males
- Prophylactic HPV vaccine
- Use of condom
- Removal of cervix during hysterectomy



Identifying 'high-risk' female

- Women with high risk HPV infection
- Early sexual intercourse.

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- Early age of first pregnancy.
- Too many births/too frequent birth.
- Low socioeconomic status.
- Poor maintenance of local hygiene



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Identifying 'high-risk' males

- Multiple sexual partners.
- Previous wife died of cervical carcinoma.



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Prophylactic HPV vaccine

Bivalent 0–2–6 month,

Quadrivalent 0–1–6 month



Secondary prevention

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identifying and treating the disease earlier in the more treatable stage

(This is done by screening procedures)

Down staging screening (Who 1986)
Down staging procedure



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Downstaging screening (Who 1986)

Detection is done by nurses and other paramedical health workers using a simple speculum for visual inspection of the cervix

it can minimize the cancer death through early detection



Down staging procedure

A female primary health care worker is trained for 2–3 weeks to perform speculum examination

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Distinguish a normal cervix from an abnormal one



Definitive treatment

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- Surgery (stage | to || a)
- Radiotherapy (all stages)
- Combination of both



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Management based upon stage

- Ia1 cone biopsy or type I simple hysterectomy
- Ia2- Type II (modified radical) hysterectomy and pelvic lymphadenectomy
- Ib1- Type III (radical) hysterectomy and pelvic lymphadenectomy
- Ib2&liba- Primary chemoradiation or Type III (radical) hysterectomy with pelvic and paraaortic lymphadenectomy

Ilb onwards – primary chemoradiation



Treatment modalities of Carcinoma Cervix

- Primary surgery
- Primary radiotherapy
- Chemotherapy
- Combination therapy



surgery

- Radical Hysterectomy
- Laparoscopic Radical Hysterectomy
- Simple Hysterectomy
- Cone biopsy
- Radical Trachelectomy
- Extenteration



Radical Hysterectomy

- removal of the uterus, tubes and ovaries of both the sides
- upper half of vagina, parametrium (most of cardinal and uterosacral ligaments)
- obturator, internal and external iliac groups and sometimes common iliac
- Paraaortic lymph node evaluation is done. Any enlarged paraaortic lymph node is sampled and sent for frozen section biopsy.

Difference between Radical Hysterectomy Type II & III

Type III

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Described by Meigs

Ideal for stag

- Uterine artery ligated at the internal iliac
- Cardinal ligament divided at pelvic wall
- Uterosacral divided close to sacrum
- 3-4 cm of vaginal cuff removed
- More post operative problems

Difference between Radical Hysterectomy Type II & III

Type II

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- Described by Wertheim
- Uterine artery ligated as it crosses the ureter
- Medial half of Cardinal ligament only removed
- Uterosacral divided more anteriorly
- 2-3 cm of vaginal cuff removed
- Less post operative problems

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Complications - Immediate

Haemorrhage

- Injury to ureter , bladder or bowel,
- Pulmonary embolism



Complications - **Delayed**

- Bladder atony
- Small intestinal obstruction
- Vescovaginal fistula
- Ureterovaginal fistulae



advantages of surgery over radiotherapy

- Spread of the disease can be determined more thoroughly by surgicopathological staging
- Surgical staging (Laparotomy or Laparoscopy) and assessment of paraaortic and pelvic nodes, can predict the survival rate accurately
- Preservation of ovarian function, if desired, specially in a young woman.



advantages of surgery over radiotherapy – cont....

- Ovaries may be transposed out of the radiation field if radiation is considered in the postoperative period.
- Retention of more functional and pliable vagina for sexual function.
- Psychologic benefit to the patient in that her cancer bearing organ has been removed.



Simple Hysterectomy

- Type I or extrafascial Hysterectomy
- Stage la1

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- With out lymph node invovment
- Women completed their family



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Cone biopsy

Diagnostic & therapeutic

- Stage la1
- Microinvasive carcinoma definitely diagnosed by this



Radical Trachelectomy

- Cervix a & para cervical tissue are removed
- Preserve the uterus
- Ia2 and Ib1

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First lymphadenectomy then Trachelectomy



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Extenteration

- Uterus and vagina removed
- Bladder or rectum or both removed
- After primary radiotherapy and no metastasis



Primary Radiotherapy

All stages

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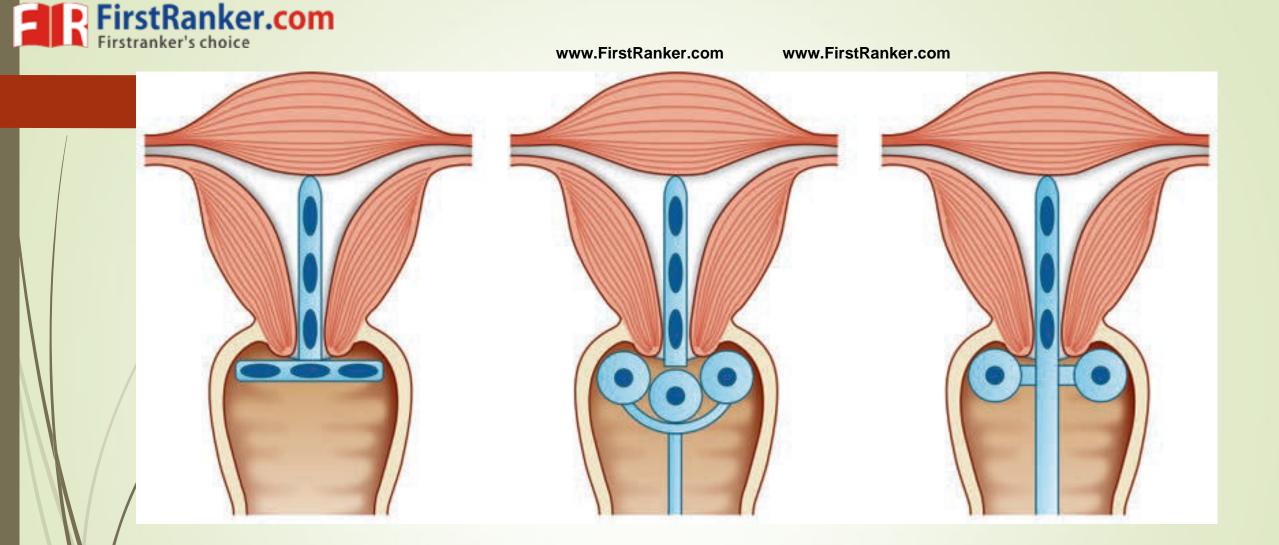
- In early stage, results of both more or less same
- I. Brachytherapy or intracavitary
- 2.external beam or teletherapy

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Brachytherapy

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- Intra uterine and intra vaginal tubes are used
- Small radioactive sources, mainly radium sulphate is mixed withsome inert powder and packed in small needles or tubes
- Radiation sources for intracavitary radiation are Radium (226Ra), Cesium (137Cs) or Cobalt (60Co).
- The container is made up of platinum, gold or alloy steel to absorb alpha and beta particles and allowing the gamma rays to sterilize the cancer cells



Different methods of brachytherapy — A. Stockholm technique, B. Paris technique, C. Manchester technique



External beam or Teletherapy

- Treating lymph node
- Decrease tumour volume
- Apparatus linear accelerator
- Dose depend upon stage of disease

Advantages of Radiotherapy

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- Wider applicability in all stages of carcinoma cervix.
- Survival rate 85%, comparable with that of surgery in early stages.
- Less primary mortality and morbidity.
- Individualization of dose distributions/requirement possible.

Disadvantages of Radiotherapy

- Intestinal and urinary strictures, fistula formation (2–6%),
- vaginal fibrosis and stenosis
- Perforation of the uterus may result during introduction of uterine tube
- radiation menopause , fibrosis of bowel and bladder.
- Bleeding per rectum

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Nausea, vomitting, abdominal cramps, diarrhoog



CHEMORADIATION

- Chemotherapy with radiation
- Benefits of systemic chemotherapy with regional radiation
- Chemotherapy sensitize cells to radiation
- Increases 5 year survival rate
- Usually cisplatin used (40 mg/sq.m)



Combination therapy

In the form of surgery, radiotherapy and chemotherapy may be done, one following the other



Follow Up

3 monthly for first 2 year

- 6 monthly for next 3 year
- There after annually
- Counseling

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Palliative treatment

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Palliative treatment is primarily aimed to provide comprehensive care for relief of symptoms along with treatment of cancer in the advanced stage.



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Five year Survival Rates



► IV – 18%

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Conclusion

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- Surgery and radiotherapy have equal results in early stages cancer
- Surgery may preferred up to stage lb1
- Primary chemo radiation preferred from Ib2 onwards
- Survival depends upon lymph node status
- Radiotherapy is a combination of brachytherapy and external radiation
- It is proved that 100% squamous cervical cancer due to HPV, HPV vaccines are available.
- Survival rate of stage his 85%.



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THANK YOU