Derby Gynaecological Cancer & Laparoscopic surgery Centre

Gynaecological Oncology Symposium

East Midlands Cancer Network



Endometrial cancer

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Objectives

- Incidence
- Endometrial cancer- issues
 - Clinical presentation
 - Diagnosis
 - Cancer statistics: Incidence, Survivorshi
 - COVID surge data
 - Investigations including radiology
 - Pathology
 - Staging
 - Natural history
 - Management within MDT
 - Prognosis
 - Follow-up
- Summary









Clinical Presentation

- Abnormal vaginal bleeding/discharge
- PMB
- Postmenopausal discharge
- Pelvic pain









Diagnosis

- Women presenting with PMB require a full history, abdominal and pelvic examination with a speculum.
- 5-10% risk of endometrial cancer in women presenting with PMB (increases with age and risk factors).
- Endometrial biopsy required in women > 45 year old with HMB or following failure of medical treatment (7 NICE guideline).
- Endometrial cancer diagnosis based on endometrial biopsy histology.

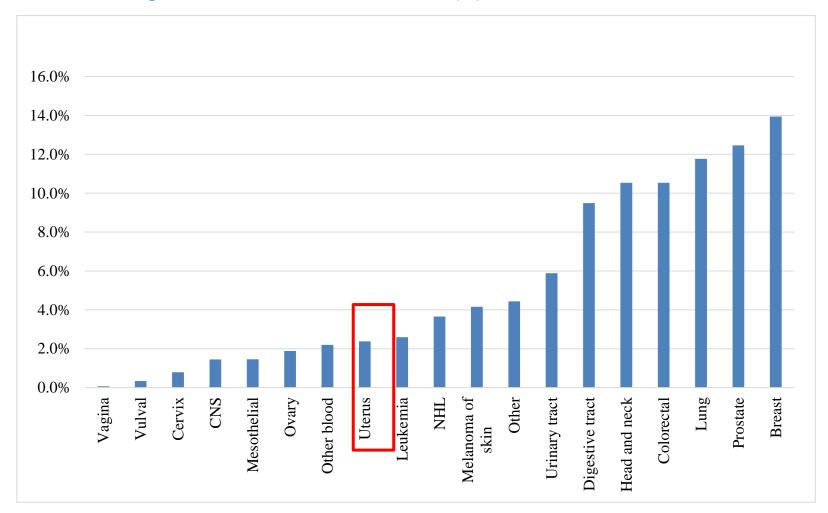








Cancer registration statistics 2017 (1)











Incidence

Type of cancer	Cases in 2017	1yr survival rate (2017)	5 yr survival rate (2017)	Incidence/10 0, 000
Uterine	9377	90%	75%	29.1
Ovarian	5676	70%	45%	22.2
Cervical	2591	80%	60%	9.4
Vulval	1107	85%	65%	4.0

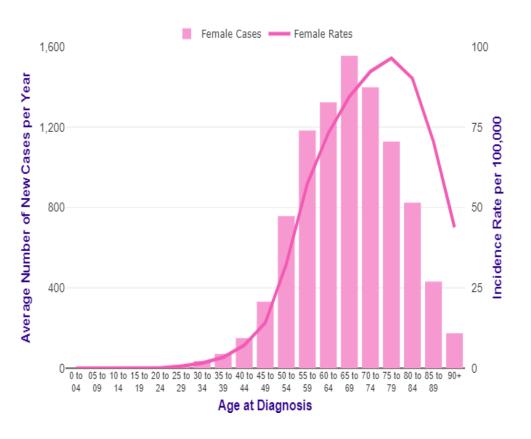








Incidence by age



- Account for 3% female malignancies UK
- 9377 cases in 2017.
- Incidence : age related
- Steep rise age 45-49 year old
- Peak onset 75-79 years old



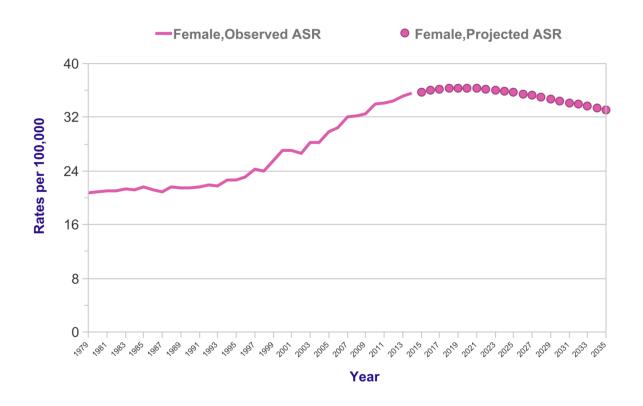






Uterine Cancer (C54-C55): 1979-2035

Observed and Projected Age-standardised Incidence Rates, Females, UK





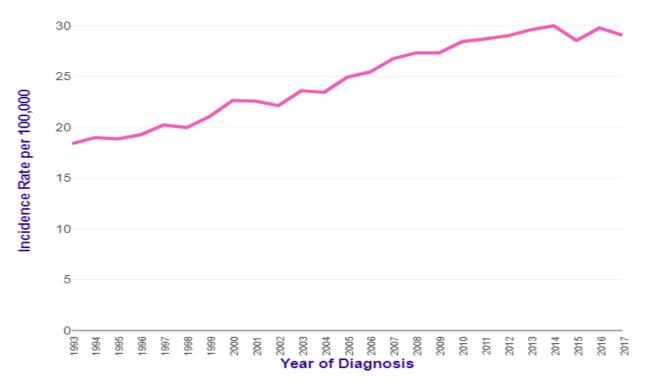






Trends in incidence

• 55% increase when comparing 1993-1995 to 2015-2017.

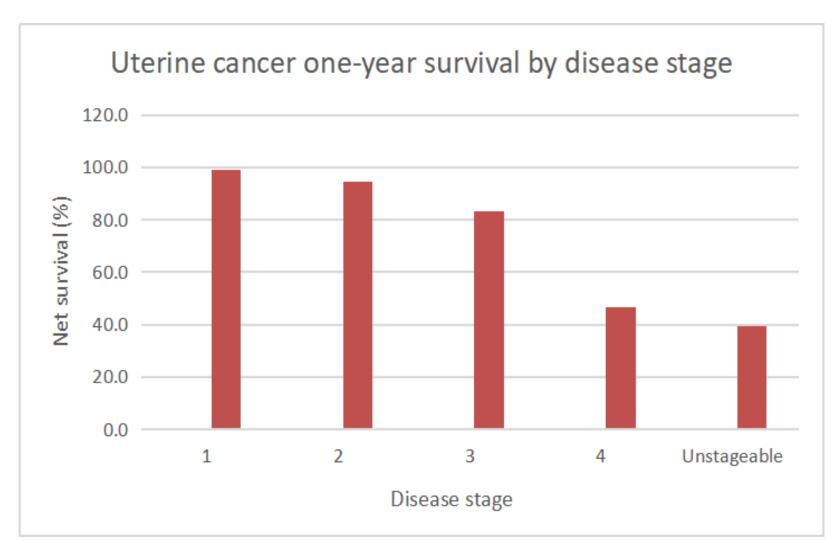




http://www.cancerresearchuk.org/health-professional/cancerstatistics/statistics-by-cancer-type/uterine-cancer/incidence#heading-Two (4)















COVID surge data (2)

- Study from May 2020 suggests during 12 week surge 328, 505 gynaecological cancer operations cancelled globally (39.3%).
- Backlog of gynaecological cancer operations will require a careful government strategy.











Aetiological factors

Increased risk

- Unopposed oestrogen
- Nulliparity
- PCOS
- Diabetes
- Obesity
- Functional ovarian tumuors
- Family history of breast/colon/endometrial cancer
- Tamoxifen

Decreased risk

- COCP
- Prosteogens









Investigations - PMB

- Most referred via the 2WW pathway (53%).
- TV US scan the most widely used investigation for PMB.
- Endometrial thickness ≤ 4 mm has a risk of endometrial cancer of < 1% (7).
- Abnormal endometrial thickness on US scan requires an endometrial biopsy.
- High risk woman such as those on Tamoxifen should be investigated with TV US scan, hysteroscopy and endometrial biopsy.









Investigations - hysteroscopy

- Hysteroscopy required for any abnormality detected at US scan (e.g. endometrial polyp) and any high risk women.
- Where possible this should be as an outpatient procedure.
- UK units developing outpatient hysteroscopy treatment pathways.





TruClear or Myosure



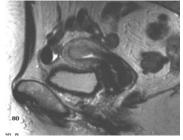




Investigations - endometrial cancer confirmed on biopsy

- Bloods FBC, U&Es, LFTs
- CT chest/CXR all endometrial cancers
- MRI pelvis/CT scan high risk histology including grade 3 endometrioid, uterine serous, clear cell cancer.













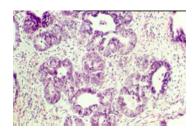
Pathology

Hyperplasia (2014 WHO classification):

1. Without atypia



2. With atypia



- Architecture complexity no longer features in classification i.e. simple and complex.







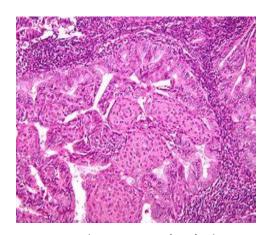


Pathology

Malignancy from Glands or stroma

Endometrial Carcinomas: Types

- 1:Type 1- Endometriod adenocarcinoma (90%)
- 2: Type 2 Adenosquamous
 - -Serous (5%)
 - -Clear cell (1-2%)



Endometrioid endometrial cancer histology









FIGO staging (3)

Carcinoma of the endometrium

IA Tumour confined to the uterus, $< \frac{1}{2}$ myometrial invasion.

IB Tumour confined to the uterus, $> \frac{1}{2}$ myometrial invasion.

II Cervical stromal invasion, but not beyond uterus

IIIA Tumor invades serosa or adnexa

IIIB Vaginal and/or parametrial involvement

IIIC1 Pelvic node involvement

IIIC2 Para-aortic involvement

IVA Tumour invasion bladder and/or bowel mucosa

IVB Distant metastases including abdominal metastases and/or

Inguinal lymph nodes









Natural History

- Local Invasion : Myometrium
- Trans-peritoneal spread
- Lymphatic (Pelvic and para-aortic directly)
- Vascular invasion (uncommon)









Referral pathway

- 2 week wait (53%)
- GP referral
- Other outpatient
- Inpatient elective
- Emergency presentation

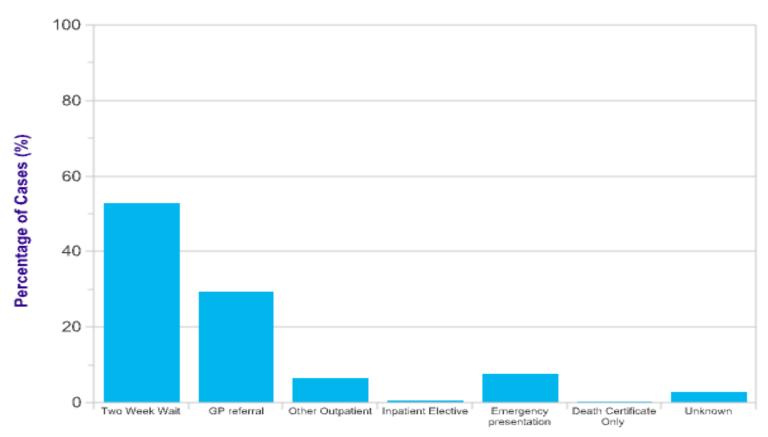








Referral pathway graph



Route



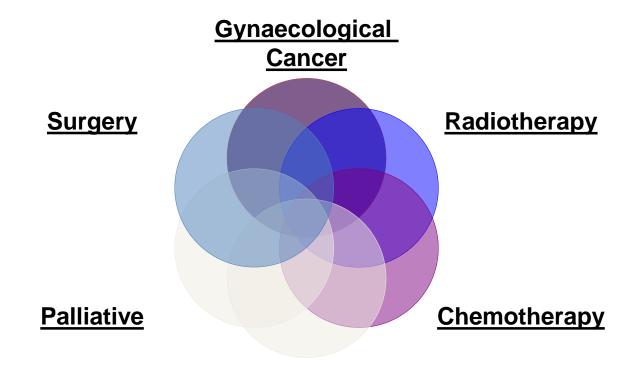






Management

-Determined after discussion in cancer centre MDT.



Psychological support









Multidisciplinary Team

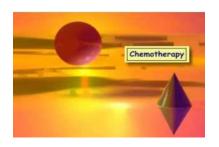
- Consists of:
- Gynaeoncologist
- Oncologist
- Specialist nurse
- Radiologist
- Histopathologist



















Management

1:Surgical

2: Medical:

- A. Radiotherapy
- B. Chemotherapy
- C. Hormonal









Surgery (4)

Procedure:

- Hysterectomy + BSO
- Omentectomy
- Washings
- Lymph node sampling (cancer centre only)
- Debulking in advanced disease (cancer centre only)

Route:

- Abdominal
- Laparoscopic
- Vaginal (if women unfit for standard treatment)



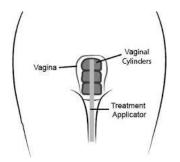




Radiotherapy

Low risk	FIGO grade 1/2, Stage 1a, no LVSI	No adjuvant treatment
Intermediate risk	FIGO grade 2, Stage 1b, no LVSI FIGO grade 3, Stage 1a, no LVSI	Vaginal brachytherapy
High-intermediate risk	FIGO grade 1/2, LVSI unequivocally positive	EBRT vs vaginal brachytherapy in node status unknown
High risk	FIGO grade 3, Stage 1b	EBRT vs vaginal brachytherapy +/- adjuvant chemotherapy











Hormonal treatment

- Can be used in patients unfit for surgery due to co-morbidities e.g. morbid obesity.
- Progestogens
 - Medroxyprogesterone acetate 200-400mg/day
 - Megestrol 160mg/day
- Mirena IUS can be used in endometrial hyperplasia without atypia.
- Recurrent disease









Follow up

- According to MDT recommendations
- Aim:
 - -Detect recurrent disease
 - -Detect & treat complications from treatment.

How often & For how long?

- Low risk endometrial cancers typically have infrequent visits for 2 years.
- High risk endometrial cancers typically have rigorous follow-up in first two years for up to 5 years.









Summary

- Increasing incidence -obesity epidemic, aging population
- Good prognosis as often presents at early stage
- MDT input essential
- Optimal management to maximize prognosis









Questions??











References

- 1. Cancer Research UK, https://www.cancerresearchuk.org/health-professional/cancerstatistics/statistics-by-cancer-type/uterine-cancer, Accessed February 2021.
- 2. COVIDSURG Collaborative, Nepogodiev D, Bhangu A. 2020, 'Elective surgery cancellations due to the COVID-19 pandemic: global predictive modelling to inform surgical recovery plans', BJS, vol. 107, Issue. 11, pp. 1440-1449









References cont...

- 3. Pecorelli S. FIGO committee on gynecologic oncology: revised FIGO staging for carcinoma of the vulva, cervix and endometrium. Int J Gynecol Oncol 2009;105(2):103-4.
- 4. British Gynaecological Cancer Society [BGCS]., (2014). BGCS Uterine Cancer Guidelines: Recommendations for Practice [Online]. [Viewed 15 February 2021]. Available from: https://www.bgcs.org.uk/wp-content/uploads/2019/05/BGCS-Endometrial-Guidelines-2017.pdf



