



PELVIC MASSES IN PRIMARY CARE

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ADHB REFERRAL GUIDELINES

- **Management:**
- **1. For a detailed discussion on GP ultrasound follow up of ovarian cysts see the “Pelvic Ultrasound – Referral Guidelines” document under the “Protocols/Guidelines” section of this website.**
- **2. If >5cm or solid refer - to Gynaecology Outpatients Department Fax (09) 638 0402 - Central Referrals Office. (include Ca125 and LFTs)**
- **3. If <5 cm and simple/haemorrhagic and the patient is: oPre-menopausal and simple analgesia failing – discuss with acute gynaecology registrar. Ph (09) 307 2800 if the patient becomes symptomatic or cyst clinically increasing - arrange a repeat ultrasound scan after 1-3 months. If the scan shows the cyst has increased, refer to Gynaecology Outpatients Department. Fax (09) 638 0402 - Central Referrals Office**
- **post-menopausal - check Ca125. If >35 u/ml, refer to Gynaecology Outpatients Department. if <35 u/ml, repeat scan and Ca125 in 4 months. If the scan shows the cyst has increased or Ca125 >35 u/ml, refer to Gynaecology Outpatients Department Fax (09) 638 0402 - Central Referrals Office.**



REFERRAL FORM

Gynaecology Oncology Referral Form

On receipt this referral will be triaged either
to Gynae Oncology CLINIC or MDM

Date of Referral NHI Number

Patient Name DOB
Address

Phone/Mobile

NB: Incomplete referrals are unable to be processed. Please note on page 2 the minimum set of pre-referral investigations.

Please EMAIL completed form to gynaeoncteam@adhb.govt.nz, but if unable please fax it to 09 6309791 (external) or 27791 (internal).

REFERRING SPECIALIST

- Consultant name:
- Hospital/DHB:
- Email address:

GP name and address:

HISTORY:

- Age:
- Brief history:
- Co morbidities:
- Tumour markers:
- BMI:

RADIOLOGY:

- Type of diagnostic performed:
- Date that diagnostic performed:
- Location that diagnostic performed:
- Key findings:

- Type of other diagnostic:
- Date of other diagnostic:
- Location of other diagnostic:
- Key findings:

OPERATION:

- Date:
- Surgeon:
- Procedure:
- Findings:

HISTOLOGY

- Histology type, e.g., pipelle/cervical, biopsy/specimen:
- Date and location of histology:
- Key findings:

DATE OF DIAGNOSIS: Minimum set of investigations prior to referral :

Carcinoma of the vulva	Biopsy result: CT abdomen and pelvis: CXR:
Carcinoma of the Vagina	Biopsy result: CT abdomen and pelvis: CXR:
Carcinoma of the cervix	Biopsy result: UECS < Renal Function, FBC: CXR:
Endometrial Carcinoma	Histology (pipelle or curettings): MRI pelvis and abdomen: CXR:
Pelvic Mass	RMI (risk of malignancy index) score: Abdominal pelvic imaging (CT or MRI): CA125, CEA: If age < 40 AFP, HCG: UEC, LFT, albumin:

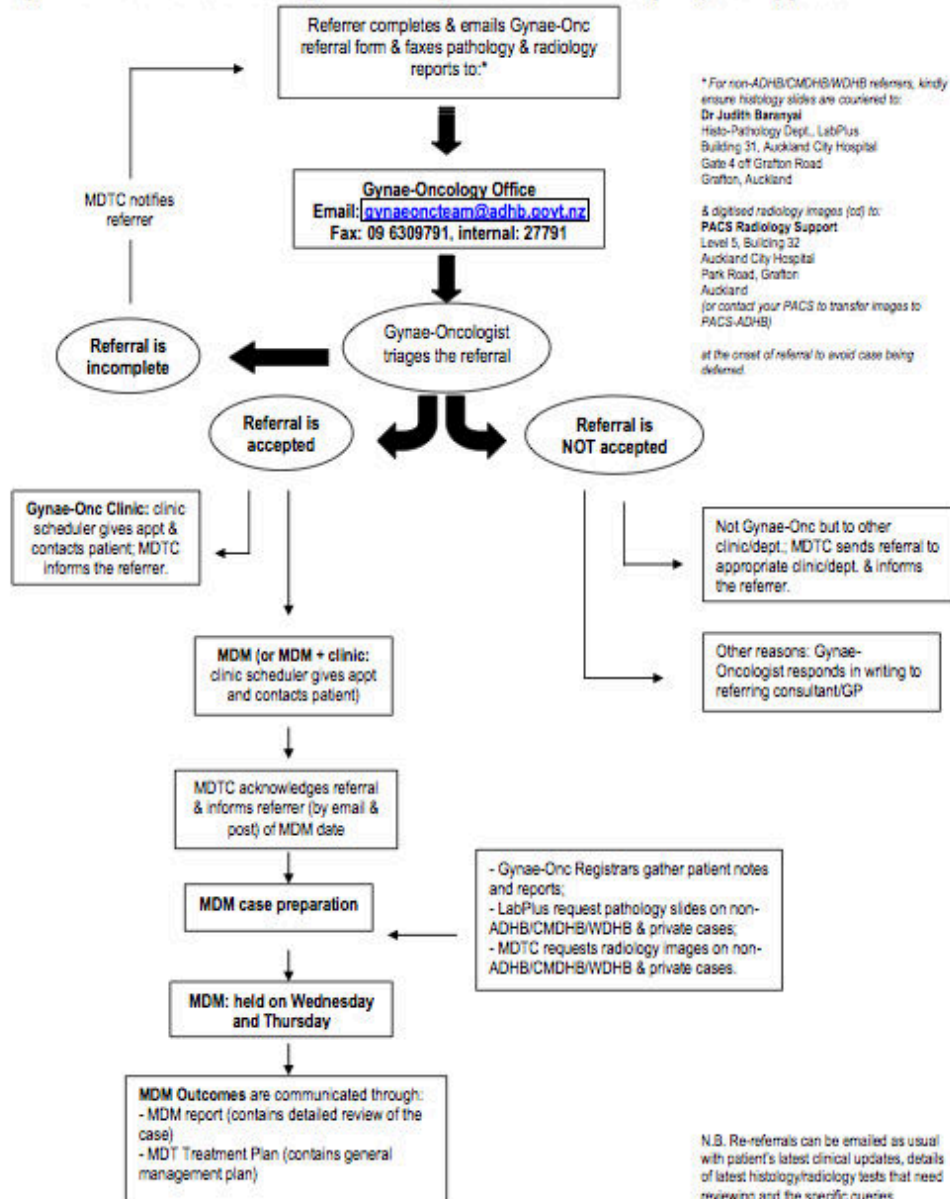
Note 1: USS for Endometrial Carcinoma and Pelvis Mass may be accepted as an alternative to MRI in exceptional case only (where MRI or CT is not available) with prior agreement with regional service provider.

Note 2: Date of diagnosis – confirmed by histology +/- radiology



Gynaecological Oncology Referral Pathway: for Medical Practitioners

This guide is intended to assist referring consultants/registrars/GPs on multidisciplinary meeting process.



MULTIDISCIPLINARY

- Two weekly meetings
- Specific referral forms for other hospitals/services
- Cases reviewed at MDM
- Patients then seen to discuss and plan treatment
- Decide if further investigations required
- Postop. cases discussed again
- Urgent patients seen in 1-3 weeks
- Some cases not gynae or cancer



INVESTIGATIONS

- Clinical cancer cervix – biopsy
- Clinical vulval cancer – biopsy
- Endometrial cancer – biopsy
- Molar pregnancy – tissue – usually
- Pelvic masses – usually USS, tumour markers



PRIVATE REFERRAL CRITERIA



- Also hold weekly private sector MDM
- Same system with our secretary Jackie arranging the meetings and ensuring imaging available



RMI – RISK OF MALIGNANCY INDEX

Trying to predict who might have a malignant mass.

Want to end up with a system where as few patients as possible are operated on inappropriately.

Different RMI scoring systems – all similar – we tend to use a modification of the original 1990 scoring system of Jacobs as per Tingulstad

Other systems such as referral just on basis of Ca_{125} or using morphological index based on USS alone have also been used.



Risk of malignancy index (RMI)

Criteria	Scoring System	Score
Menopausal status:		
Premenopausal	1	A (1 or 3)
Postmenopausal	3	
Ultrasonic features:		
Multiloculated	no features = 0	B (0, 1 or 3)
Solid areas	one feature = 1	
Bilaterality	> 1 feature = 3	
Ascites		
Metastasis		
Serum CA125	Absolute level	C
Risk Of Malignancy Index (RMI)		$A \times B \times C$

As per Jacobs



RMI

Triage of ovarian masses

Yin Nin CHIA,² Donald E. MARSDEN,^{1,2} Greg ROBERTSON^{1,2} and Neville F. HACKER^{1,2}

¹School of Obstetrics and Gynaecology, University of New South Wales, Sydney, ²Gynaecological Cancer Centre, Royal Hospital for Women, Sydney, New South Wales, Australia

Two hundred and four patients were eligible for RMI calculation.
An RMI of < 200 correctly identified 83 of 108 (77%) benign ovarian tumours.
An RMI of > 200 correctly identified 11 of 19 (58%)
borderline ovarian tumours and 70 of 77 (91%) invasive ovarian tumours

This study showed that using RMI at a cut-off of 200 for referral could have prevented 83 benign cases (41%) from being referred

We propose that the RMI could be utilised more widely in order to prevent unnecessary referral of benign ovarian masses to gynaecological oncology units. This would free up operating time, allowing frankly invasive cancers to be dealt with more expeditiously.



RMI

Results of evaluation by RMI: total material

RMI	Benign ^a	Malignant
< 200	335	3
≥ 200	46	63

^a Stage I disease considered “benign”.

Ulusoy et al 2006



RMI

Table 1. FIGO stage and RMI sensitivity

Stage	Total number	Sensitivity (%)
I	38	78.9
II	10	70
III	83	91.6
IV	12	100

From Bailey et al 2006



RMI

False positives –

- cystadenomas
- endometriosis
- functional cysts
- tubo-ovarian abscess
- fibromas

False negatives -

- borderline tumours
- early ovarian cancers
- non-epithelial cancers



RMI

Pelvic mass assessment

RMI of value in deciding likelihood mass could be malignant and therefore –

who should operate and where

what method of entry

extent of surgery

whether frozen section may be of value

assists in counselling



OTHER INVESTIGATIONS

Tumour markers - Ca19.9

CEA

BHCG / AFP

Imaging - CT scans

MRI scans

PET scans



WARNING SIGNS FOR OVARIAN CANCER

- Often subtle and mimic symptoms of other diseases— multiple symptoms that persist are more sinister
- Abdominal pain discomfort
- Bloating and distension, tight clothing
- Early satiety, loss of appetite and indigestion
- Urinary frequency, constipation



HIGH RISK WOMEN

- Some women at special risk
- Strong family history
- BRCA1 and 2
- Risk reducing surgery

Prophylactic BSO or

Prophylactic bilateral salpingectomy

