

Heavy menstrual bleeding: Choosing the right pathway

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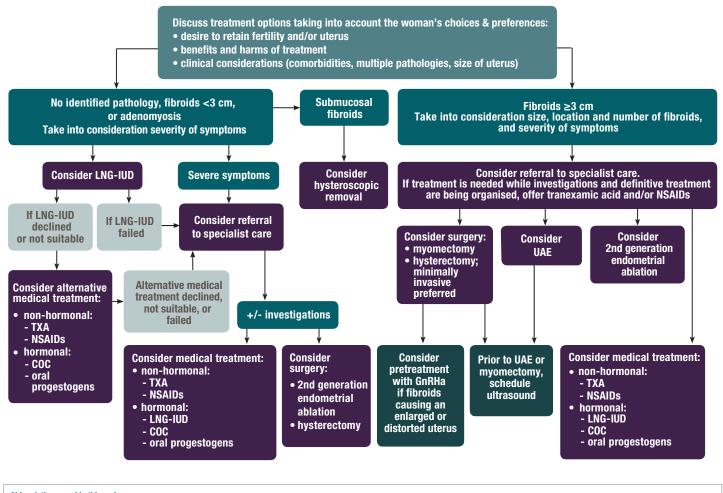
Anil is a specialist gynaecologist who after an extensive career in the NHS and NZ public hospitals now works in private practice in Auckland. His main interests are in the management of abnormal uterine bleeding, endometriosis and urogynaecology, particularly with effective minimally invasive therapies.

Background

Heavy menstrual bleeding is a significant problem in New Zealand and globally, affecting at least 10% of women.

When assessing a patient consider if there is an identifiable (PALM -COEIN) cause for the HMB.¹ This useful FIGO mnemonic classification system facilitates effective history taking, investigations and physical examination. The '**PALM**' categories describe structural aetiologies, which can be diagnosed by imaging and/or histopathological evaluation: **Polyp**, **A**denomyosis, Leiomyoma (fibroids), and **M**alignancy and hyperplasia. The '**COEIN**' categories describe non-structural aetiologies where the patient's medical history often provides a clue to diagnosis, even if their imaging results are normal: **Co**agulopathy, **O**vulatory dysfunction, **E**ndometrial dysfunction, **I**atrogenic, and **N**ot otherwise classified. These aetiologies are not mutually exclusive, and patients may have more than one cause.¹

NICE recently provided updated guidance offering an optimum, efficient, and evidence-based treatment pathway (Figure 1) and recommends that healthcare professionals advise each woman with HMB about the treatment options that are right for her, with a clear focus on the woman's choice.²



Abbreviations used in this review

- **COC** = combined oral contraceptive pill
- FBC = full blood count

FIGO = International Federation of Obstetrics & Gynecology

GnRHa = gonadotrophin-releasing hormone analogue HMB = heavy menstrual bleeding LNG-IUD = levonorgestrel-releasing intrauterine device NSAIDs = non-steroidal anti-inflammatory drugs NICE = National Institute for Health and Care Excellence PCOS = polycystic ovary syndrome **TVS** = transvaginal ultrasonography **TXA** = tranexamic acid **UAE** = uterine artery embolisation





Disadvantages:

required)

• Non-reversible

Disadvantages:

Conception no longer

of late miscarriage

(contraception still

Sometimes necessary

appropriate due to risk

Investigations

Ideally an assessment should include history, abdo-pelvic examination and laboratory and imaging investigations. This will aid in the identification of a cause(s), and to gain an understanding of the impact on a woman's physical and psychological health, and work and social effects.

Where appropriate, a Pipelle® endometrial biopsy can be useful, although a normal result does not overrule an abnormal TVS. An endometrium that is described as 12mm or over or where 'inadequate views' or 'ill-defined' phrases are used should lead to gynaecological referral. TVS is especially important if irregular periods or if a structural aetiology is suspected or if symptoms persist despite appropriate initial treatment. TVS may be difficult to access for some patients however there are DHB referral pathways.

This document only covers premenopausal women, and HMB in this group is usually a symptom of benign problems. However, it can also be due to endometrial cancer or hyperplasia and these risk factors include obesity, age > 45 years, early menarche, nulliparity, infertility, smoking history, family history of ovarian, colon or uterine cancer, history of certain conditions (such as PCOS, diabetes, thyroid disease) or tamoxifen use or unopposed oestrogen replacement therapy.3

Clinicians should provide information about all HMB treatment options, both medical and surgical, and discuss:2,4

- · The nature, benefits, and risks of the assorted options
- Suitable treatments if she is trying to conceive
- Whether she wants to retain her fertility and/or her uterus.

The aim is to ensure that women are offered the least invasive and most effective treatment appropriate to their clinical needs and that they can make an informed choice from the range of treatments suitable to their individual situation.^{2,4}

Specialist referral

A woman with HMB should be referred for early specialist review when there is a suspicion of malignancy or other significant pathology based on clinical assessment or ultrasound i.e. irregular bleeding, abnormal examination, fibroids bigger than 3 cm, enlarged uterus, inadequate response to treatment over 3 months, thickened endometrium, risk factors for hyperplasia, abnormal endometrium on scan or Pipelle®, or if there has not been a satisfactory response to 3 months of medical treatment.

There are several surgical procedures (Table 1) to control HMB including the minimally invasive techniques of endometrial ablation, hysteroscopic polypectomy and myomectomy. Where clinically appropriate, these uterine-sparing surgical procedures are an alternative to hysterectomy.

Table 1: Secondary care procedures

Endometrial ablation

· Removal of the uterine lining. Radio frequency endometrial ablation, e.g. with NovaSure®

Fibroid and polyp removal

By minimally invasive procedure, methods include:

- Hysteroscopic resection, e.g. with MyoSure® device
- Fibroid embolisation after assessment for appropriate cases.

Hysterectomy

- Removal of the uterus and ideally the tubes (ovarian cancer prevention) and discussion regarding ovaries (ideally preserved if premenopausal and no other indications to remove e.g. family history ovarian cancer).
- Ideally vaginal or laparoscopic preferred (including for large uteri, e.g. morcellation)

- Advantages: • No hormones / foreign body or incisions
- Day case procedure
- Quick recovery time⁵
- Average treatment time 90 seconds⁵

Advantages:

- No pre-treatment required · Outpatient treatment
- possible if small^e Quick procedure and
- recoverv⁶

- · Retain fertility

Advantages:

· Permanent solution with 100% success

 to repeat the procedure as fibroids and polyps can grow again/recur. Contraception still required May not resolve the bleeding if there are
also hormonal reasons for it
Disadvantages: • Major surgery, 2-6 weeks recovery

- · Increased risk of complications e.g. infection, haemorrhage, damage to the bowel or bladder and other surgical complications4
- Only suitable once childbearing complete

EXPERT'S CONCLUDING COMMENTS

The hysterectomy rate in NZ is 134/100,000 women and whilst we are doing well compared to Australia (255/100,000), we have a way to go to match Denmark (19/100,000).⁷ That is not to say that there zero is the ideal rate, as women should be offered choice after objective case-specific informed discussion and consent. However, given the potential physical, psychological, and social consequences of hysterectomy and the fact that it can still be undertaken after an initial trial of an alternate lower risk option (if that fails), it would be negligent not to discuss options prior to planning treatment.

REFERENCES

- Munro MG, et al. FIGO classification system (PALM-COEIN) for causes of abnormal uterine bleeding in nongravid women of 1. reproductive age. Int J Gynaecol Obstet. 2011;113(1):3-13. doi:10.1016/j.ijgo.2010.11.011
- 2 National Institute for Health and Care Excellence. Heavy menstrual bleeding: assessment and management. Published online 2018. www.nice.org.uk/guidance/ng88/resources/heavy-menstrual-bleeding-ass <u>pdf-1837701412549</u>
- 3. Cancer Australia. Abnormal vaginal bleeding in pre- and peri-menopausal women. Published online 2011. https://www. canceraustralia.gov.au/sites/default/files/publications/abnormal-vaginal-bleeding-pre-peri-and-post-menopausal-women-diagnostic-guide-general-practitioners/pdf/ncgc_a3_menopause_chart_june_2012_final.pdf
- 4. Australian Commission on Safety and Quality in Health Care. Heavy Menstrual Bleeding Clinical Care Standard. Published online 2017. https://www.safetyandquality.gov.au/publications-and-resources/resource-library/heavy-menstrual-bleedingclinical-care-standard-2017
- Cooper J, et al. A randomized, multicenter trial of safety and efficacy of the NovaSure system in the treatment of menorrhagia. J Am Assoc Gynecol Laparosc. 2002;9(4):418-428. doi:10.1016/s1074-3804(05)60513-0 5.
- Vidal-Mazo C, et al. Clinical recurrence of submucosal myoma after a mechanical hysteroscopic myomectomy: Review after 5 years follow up. Eur J Obstet Gynecol Reprod Biol. 2019;243:41-45. doi:10.1016/j.ejogrb.2019.10.014
- Deans R, Abbott JA. Toward "net zero" hysterectomy for Australia; New Zealand is already heading there.... Aust N Z J Obstet 7 Gynaecol. 2022;62(1):9-11. doi:10.1111/ajo.13478



Scan the QR code to view a short podcast on general management of HMB including minimally invasive surgical techniques

Patient Resources:

ADHB patient pamphlet - heavy periods **RANZCOG - Patient Information Pamphlets**

- Heavy Menstrual Bleeding
- Hysteroscopy-pamphlet.pdf •
- Endometrial-Ablation.pdf
- Hysterectomy-pamphlet.pdf •



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