# The management of perimenopausal menstrual symptoms

John Eden Sheila O'Neill

#### Abstract

Abnormal bleeding around the time of the menopause is common and may be a sign of premalignancy such as endometrial hyperplasia or even endometrial carcinoma. As such all will need uterine assessment which may include transvaginal scan combined with endometrial biopsy, hysteroscopy or a sonohysterogram. Having excluded (pre) cancer, treatment can then be offered. Medical treatment options include tranexamic acid to reduce blood loss, low-dose contraceptive Pills, the levonorgestrel intra-uterine device and cyclic progestins. Surgical options include resecting sub-mucus fibroids hysteroscopically, endometrial ablation and hysterectomy.

**Keywords** abnormal uterine bleeding; adenomyosis; endometrial ablation; endometrial cancer; endometrial hyperplasia; fibroid; levonorgestrel intra-uterine system; polyp; progestin; tranexamic acid

#### Introduction

The forties are often a time of hormonal turbulence in a woman's life. Fluctuating sex-hormone levels and anovulatory cycles can affect the brain causing flushes, sweats and mood swings, the breasts causing swelling and pain and the uterus causing abnormal uterine bleeding (AUB). It is this latter dilemma, namely AUB that is the focus of this article. For this paper, the search engine *Sirius* was used via the UNSW-Library website using the keywords — perimenopause, abnormal uterine bleeding, investigation, terminology, management, fibroid, adenomyosis, polyp, endometrial hyperplasia, endometrial cancer, hormone replacement, levonorgestrel intra-uterine device, endometrial ablation, hysterectomy, contraceptive pill,

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progestin, and tranexamic acid. Preference was given to reviews, especially meta-analyses and systematic reviews.

Perimenopause is defined as the time of menstrual irregularity leading up to the last period (menopause) and the 12 months following the last period. The Stages of Reproductive Ageing Workshop (STRAW) suggested the term "menopause transition" leading up to the last menstrual period and divided this phase into two parts. "Stage 0" is menopause (last period). "Stage-2" (early menopause transition) is characterized by more than 7 days of cycle variation compared with normal and "stage-1" (late menopause transition) as greater than 2 skipped cycles with at least 60 days of amenorrhoea.

Pelvic pathology is also commonly found in this age group. As such some women will need to be investigated to exclude (pre-) malignancy and to help decision making about the best treatment option. A FIGO working group has classified AUB into nine categories — Polyp, Adenomyosis, Leiomyoma, Malignancy and hyperplasia, Coagulopathy, Ovulatory disorders, Endometrium, Iatrogenic and Not Classified (acronym: "PALM-COEIN").

Leiomyoma (L) are further subclassified into those who have at least one sub-mucus fibroid (Lsm) and those with fibroids which do not impact on the endometrial cavity (Lo). Endometrial hyperplasia and malignancy and occasionally cervical cancer can present with AUB. The Coagulopathy group includes conditions such as von Willebrand disease, although this usually declares itself in the teenage years and is often associated with abnormal bleeding after childbirth, dental work or surgery, gum bleeding, bruising and epistaxis. Endometrial causes suggest a primary problem in the endometrium and as research in this area progresses, it is likely that specific biochemical and/or genetic problems will be defined. The latrogenic group includes breakthrough bleeding on hormone preparations such as the oral contraceptive Pill (OCP), hormone therapy (HT) and levonorgestrel-releasing intra-uterine systems (LG-IUS).

There is a lack of consensus of definitions and terminology of AUB and outcome measures (Confino 2007). Until recently there has been an abundance of old descriptive terms for AUB which have not been helpful. Table 1 contains some modern descriptive terms for menstrual loss which several groups have suggested as being useful in scientific trials and papers on menstruation and by FIGO.

#### When to investigate

A concise history and examination needs to be performed first. Large fibroids may present with the woman noticing a pelvic mass or bladder frequency but most will be concerned about a change in their menstrual pattern. As outlined in Table 1, menstrual history should focus on frequency, cycle regularity, duration and heaviness of flow. Frequent, heavy and or prolonged bleeding usually requires some investigations as does postmenopausal bleeding.

Physical examination may reveal a polyp, a fibroid uterus or some other lesion. Pallor may indicate anaemia. Laboratory tests may include a Papanicolaou smear, cervical cultures, full blood count, iron studies and occasionally tests for bleeding disorders.

All women with AUB who are in the perimenopausal age range will need their uterus assessed because many will have structural anomalies and some premalignant and malignant conditions, the commonest being endometrial hyperplasia.

FIGO termino	logy for	describing	menstrual loss

	Descriptive terms	Range
Frequency, days	Frequent	<24
	Normal	24-38
	Infrequent	>38
Cycle regularity	Absent	_
(cycle to cycle	Regular	Variation 2-20
variation over	Irregular	Variation >20
12 months, in days)		
Duration of flow, days	Prolonged	>8
	Normal	4.5-8
	Shortened	<4.5
Volume, ml	Heavy	>80
	Normal	5-80
	Light	<5

(Adapted from Table 3 found in Fraser IS, Critchley HOD, Munro MG. Abnormal uterine bleeding: getting our terminology straight. Curr Opin Obstet Gynaecol 2007; **19**: 591–5. Used with permission).

Table 1

Around 70% of women presenting with AUB will have a benign cause, 15% carcinoma and 15% a premalignant condition. Management algorithms have been published but in the end, if endometrial hyperplasia is suspected, then the endometrium will need to be assessed and most will require at least transvaginal pelvic ultrasound (TVUS).

Risk factors for endometrial hyperplasia or cancer include obesity, age over 40 years, polycystic ovary syndrome, exposure to unopposed oestrogen therapy, tamoxifen usage and postmenopausal bleeding. Many will present with AUB. It is not the intent of this review of perimenopausal menstrual symptoms to describe the management of endometrial hyperplasia; although it needs to be stated that any degree of atypia will usually necessitate hysterectomy because of the risk of small occult carcinoma being already present as well as the significant risk of progression to carcinoma.

#### **Investigations**

The guidelines of the American College of Obstetricians and Gynaecologists mandate that all women over 35 years with AUB should have an endometrial assessment (ACOG Committee on Practice Bulletins 2001). The tests available will vary according to location but include TVUS, endometrial biopsy, sonohysterogram (SHG or saline infusion sonogram), dilation and curettage (D&C) and hysteroscopy.

Historically, D&C was the mainstay of endometrial assessment. However, its main draw backs include the need for a general anaesthetic, missed pathology or incomplete removal of an intra-cavity lesion, free floating tissue left in-situ and a high false negative rate. Complications included uterine perforation and intra-uterine adhesions.

#### **Endometrial biopsy combined with TUVS**

Office endometrial biopsy (EB) using the Pipelle device is a costeffective tool for investigating AUB especially when combined with TVUS. Endometrial hyperplasia and carcinoma are unlikely if the endometrial thickness (ET) is 4 mm or less. This is very useful for assessing postmenopausal bleeding (later) but unfortunately, many perimenopausal women will have thick ET because of unopposed oestrogen surges and so some form of tissue sampling is very helpful in this group (NICE recommends EB in all cases of AUB, age >40). The Pipelle device can provide a histological diagnosis of most endometrial pathologies with some limitations (Table 2). Typically, the Pipelle system is very good at detecting pathologies that involve most of the endometrial cavity but can miss small focal lesions, including cancers. In one study, Pipelle sampling was done prior to hysterectomy for known endometrial cancer. Over 95% of the sample were adequate for histological examination and the sensitivity for picking up the malignancy was 83%.

#### Hysteroscopy

Hysteroscopy allows the entire uterine cavity to be visualized and any lesions found can be visualized and biopsied. This is can be performed in the office or in theatre. Hysteroscopy cannot assess the myometrium and so may miss adenomyosis and will not allow evaluation of the size and depth of fibroids.

#### Sonohysterogram

Saline instilled into the uterine cavity permits ultrasound to visualize its contents. It is an accurate test and cheaper than hysteroscopy. If a lesion is found then hysteroscopy and biopsy will be indicated. Meta-analyses have shown that SHG misses around 7% of lesions (usually a small endometrial polyp).

#### TUVS versus hysteroscopy versus SHG

Farquhar performed a systematic review of all three modalities and found that all three tests were moderately accurate in detecting intra-uterine pathology. SHG and hysteroscopy were better than TUVS for detecting sub-mucus fibroids. Hysteroscopy is considered the "Gold-Standard" test to assess the endometrium, especially for endometrial hyperplasia and cancer. However, in clinical practise, each test has its place and can help both with diagnosis and selection of the best treatment option for the individual patient.

#### Limitations of endometrial biopsy

Factors that might make it difficult to perform an endometrial biopsy:

Cervical stenosis (cervical surgery, multiple caesarean sections)
Pain

Sharply anteverted or retroverted uterus

Has the cavity been adequately sampled? Considerations:

Uterine shape and size (e.g. bicornuate uterus)

Location of a lesion (e.g. it is difficult to sample a cornual lesion)

Size of lesion

Is the lesion affecting most of the endometrium or localized?

Table 2

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