



PALM-COEIN: Your AUB Counseling Guide

10 million+

Treat the cause, not the symptom

In the U.S, more than 10 million women between the ages of 35 and 49 are affected by AUB¹

Diagnosis	Cause
	Structural
AUB-P	Polyps
AUB-A	Adenomyosis
AUB-L	Leiomyoma
AUB-M	Malignancy/Hyperplasia
	Non Stuctural
AUB-C	Coagulopathy
AUB-O	Ovulatory Dysfunction
AUB-E	Endometrial Disorders
AUB-I	latrogenic
AUB-N	Not Classified

AUB-P Polyps

Symptoms

- Menorrhagia
- Infertility
- Post menopausal bleeding²

Medical relevance

• May be asymptomatic and/or may contribute to AUB. Potential for malignancy and/or infertility.

Some treatment options include:

Medical therapy, NovaSure® endometrial ablation, MyoSure® tissue removal, curettage³

AUB-P Polyps

IMAGING AND DIAGNOSIS

Sonohysterography (SIS)

- Substantial evidence exists to indicate that sonohysterography is superior to transvaginal ultrasonography in the detection of intracavitary lesions, such as polyps and submucosal leiomyomas.⁴
- SIS provides better information on the general size and location of cavitary abnormalities in comparison to TVUS.⁶

Hysteroscopy

- Hysteroscopy offers direct visualization of the uterine cavity including exact information on specific size and location.
- Hysteroscopy allows the ability to see and treat intracavitary pathology simultaneously.⁶

AUB-A Adenomyosis

Symptoms

- AUB
- Dysmenorrhea
- Enlarged uterus³

Medical relevance

• Endometrial tissue within the myometrium. Often found by MRI, the relationship between Adenomyosis and AUB is not well understood.

Some treatment options include:

NSAIDs, hormone therapy, uterine artery embolization, NovaSure® endometrial ablation, hysterectomy³

AUB-A Adenomyosis

RADIOLOGIC FINDINGS

- Localized thickening of junctional zone
- Poorly defined endometrial borders
- High signal intensity spots MRI/TVUS¹

IMAGING AND DIAGNOSIS

Transvaginal ultrasound

• Transvaginal ultrasonography may perform less well in the presence of an enlarged uterus or with coexisting myomas.⁴

MRI

 Some experts recommend transvaginal ultrasonography as the initial screening test for AUB and MRI as a secondline test when the diagnosis is inconclusive, when further delineation would affect patient management, or when coexisting uterine myomas are suspected.⁴

AUB-L Leiomyoma

Symptoms

- UB
- Pelvic pressure and/or heaviness
- Urinary frequency
- Dysmenorrhea
- Abdominal enlargement
- Pregnancy loss
- Infertility⁷

Risk factors

- Nullparity
- Obesity
- Family history
- Hypertension
- African-American⁷

Some treatment options include:

Hormone therapy, MyoSure[®] tissue removal, uterine artery embolization, myomectomy, hysterectomy[®]

AUB-L Leiomyoma



IMAGING AND DIAGNOSIS

Transvaginal ultrasound

• The primary imaging test of the uterus for the evaluation of AUB is transvaginal ultrasonography.⁴

Sonohysterography (SIS)

 If TVUS images are not adequate or further evaluation of the cavity is necessary, then sonohysterography (SIS) or hysteroscopy (preferably in the office setting) is recommended.⁶

AUB-M Malignancy/Hyperplasia

Risk factors

- Obesity
- Prolonged anovulation
- Post menopausal estrogen replacement therapy
- Tamoxifen
- Family history
- Hypertension
- Diabetes[®]

Some treatment options include:

Hormone therapy, radiation therapy, chemotherapy, hysterectomy³

AUB-M Malignancy/Hyperplasia

Diagnostic approach

- Endometrial tissue sampling should be performed in patients with AUB who are older than 45 years as a first-line test.[®]
- Endometrial sampling also should be performed in patients younger than 45 years with a history of unopposed estrogen exposure (such as seen in obesity or PCOS), failed medical management, and persistent AUB.[®]
- Endometrial biopsy has high overall accuracy in diagnosing endometrial cancer when an adequate specimen is obtained and when the endometrial process is global.^a

AUB-C Coagulopathy

INHERITED (Von Willebrand)

Examples

- Von Willebrand disease (13%)
- Carrier states for factor deficiencies
- Idiopathic thrombocytopenia purpura (platelet # abnormalities)
- Platelet dysfunctions (platelet function abnormalities)
- Leukemia
- Liver dysfunction[®]

Diagnostic approach

- Initial tests should include a CBC with platelets, prothrombin time, and partial thromboplastin time (fibrinogen or thrombin time are optional).
- Depending on the results of the initial tests, specific tests for von Willebrand disease or other coagulopathies may be indicated.³

Some treatment options include:

Therapeutic environment, gonadal steroid agents, antifibrinoltic therapy, NovaSure® endometrial ablation³

AUB-O Ovulatory Disorders

PREVIOUSLY CALLED "DUB" ACQUIRED³

Symptoms

• Irregular bleeding patterns

Possible causes

- Hypothalamic dysfunction (stress)
- Polycystic ovary syndrome (PCOS)
- Eating disorders³

Diagnostic approach

• Laboratory testing (pregnancy test, complete blood count, measurement of thyroid-stimulating hormone (TSH) levels and cervical cancer screening). Testing for Chlamydia trachomatis should be considered.⁴

Some treatment options include:

Medical therapy, gonadal steroids, NovaSure® endometrial ablation, IUD, hysterectomy³

AUB-E Endometrial Disorders

REQUIRES UNDERSTANDING OF STRUCTURED HISTORY AND EXCLUSION

Definition

• Ovulatory cycle with no structural or systematic abnormalities

Possible causes

- Impaired vasoconstriction (ratio of PGF2a:prostacyclin)
- Enhanced fibrinolysis
- Localized hemostatic disorder

Diagnostic approach

• No commercial testing available[®]

Some treatment options include:

Medical therapy, gonadal steroids, NovaSure® endometrial ablation, IUD, hysterectomy³

AUB-I latrogenic

REQUIRES UNDERSTANDING OF STRUCTURED HISTORY AND EXCLUSION

Examples

- Warfarin
- Heparin
- IUD
- Oral contraceptive

Possible causes

- BTB a result of poor patient compliance
- Bleeding induced by gonadal steroidal therapy

Diagnostic approach

• Targeted medical history[®]

Some treatment options include:

Estrogen/Progestin contraceptive agents, therapeutic agents³

AUB-N Not Classified

REQUIRES UNDERSTANDING OF STRUCTURED HISTORY AND EXCLUSION

Examples

- Ateriovenous malformations
- Associations with some systematic diseases
- Endometritis

Diagnostic approach

- Doppler scanning
- Biopsy and cultures3.8



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