Newer therapies in treatment of AUB



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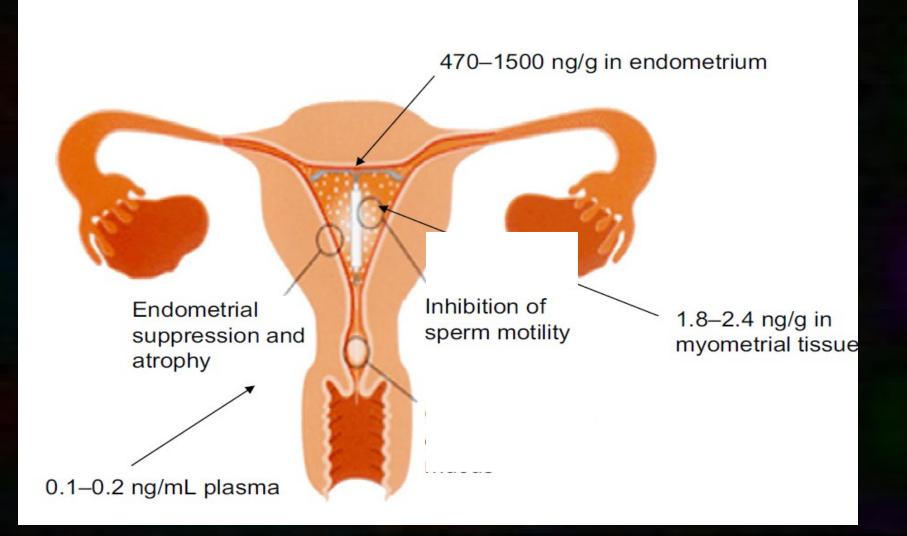
Levonorgestrel Intrauterine Device Hysteroscopic
Polypectomy/
Myomectomy/
Resection of
Endometrium

Conservative therapies for AUB if medical treatment fails

Endometrial Ablation techniques

Fibroid embolisation Ultrasound treatment of Fibroids

Levonorgestrel IUD



Menorrhagia: Indications for LNG-IUS

Normal sized uterus

Fibroids

(Higher expulsion rates)

Adenomyosis

Dysmenorrhoea due to Endometriosis

What to expect from LNG IUS?

Good relief for dysmenorrheoa.

Spotting for first 6-8 months

Initial prolonged periods will respond to tranexamic acid

Cannot be used after Rheumatic heart disease due to danger of endocarditis

Cannot be used after acute liver failure

Cannot be used after TCRE; Formation of synechiae will make it difficult to remove.

Hysteroscopy or hysterosonography can be suggested as a second-line procedure when ultrasound suggests an intrauterine abnormality or if medical treatment fails after 3–6 months.

Marret et al. / European Journal of Obstetrics & Gynecology and Reproductive Biology 152 (2010) 133–137

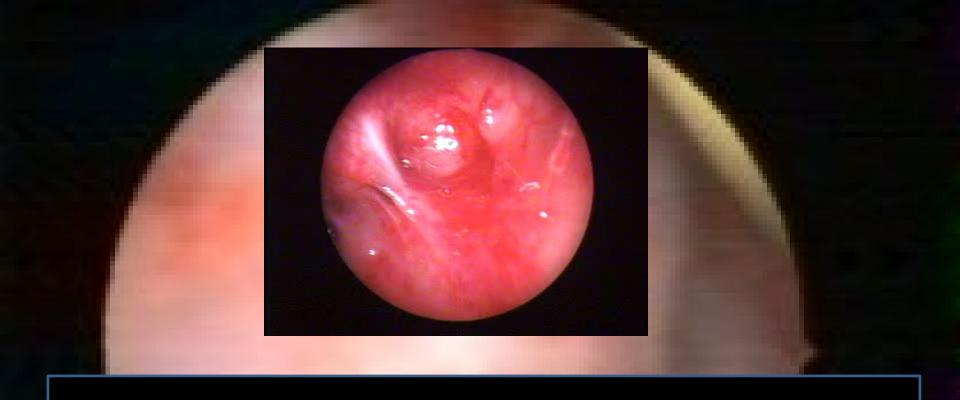
48 year old woman with menorrhagia

D&C showed secretory endometrium 6 months back

Patient continues to bleed every day lightly

USG shows thick endometrium of 1.5 cm

Various regimens of progesterone and estrogen have failed



Hysteroscopic picture of intra uterine adhesions in this patient

Because of adhesions, patient gave an atypical picture of bleeding every day in small amounts which is usually typical of estrogen withdrawal bleeding.

After cutting the adhesions, lot of tiny polyps could be seen. TCRE was done.

Patient went into natural menopause 1 year later and came for hot flashes 3 years later.

40 year old woman had menorrhagia in 2014 USG thick endometrium: Could not tolerate hormones.

2 years later, in january 2016, she had heavy menstruation and was diagnosed to have 10mm endometrial polyp. Uterus 8.4cm.

She had pelvic infection and was given antibiotics.she also had intractable vomiting and was told that hormones caused vomiting.

In June 2016 she has bleeding that lasts 16-20 days comes every 30 days

Hysteroscopic removal of multiple polyps cured her for 1 year.

She was adviced to put in LNG-IUS or take medical treatment,
which she did not take.

2 years later, she underwent hysterectomy.

29 year old woman who delivered 5 months back comes with heavy bleeding.

PV: uterus bulky fornices free. No pelvic inferction

USG: Bulky uterus with 10mm endometrium. Bilateral PCOD.

Serum HCG; Negligible values.

Norethisterone 5mg 2-2-2

Plus

Tranexamic acid 500mg 2-2-2-2-

Plus

Venusmin 900mg daily -

No relief in 2 days

Hysteroscopic removal of placental bits was done. She continued to bleed. She was then treated with desmopressin nasal spray and she remains asymptomatic for 2 years now.

Office hysteroscopy is an attractive option to diagnose abnormal uterine bleeding

Classification of fibroids

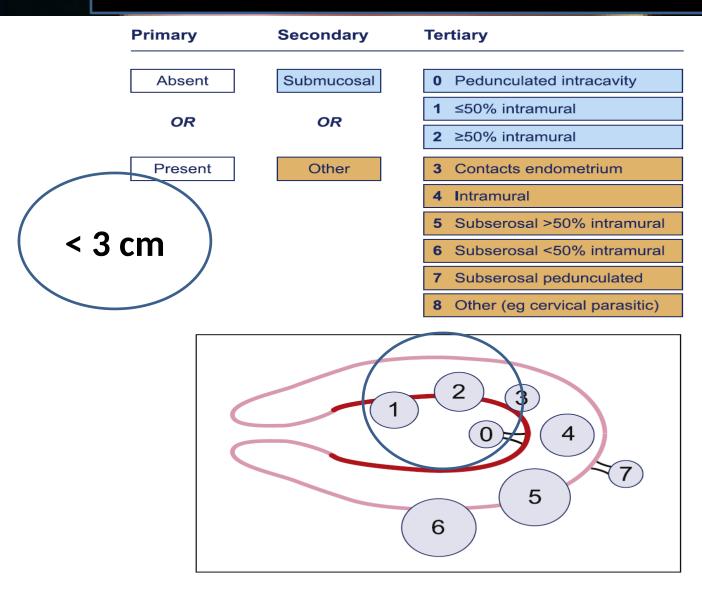


Fig. 2. Tertiary classification of AUB-L (adapted from Munro et al. [13]).

Hysteroscopic myomectomy with unipolar cautery, bipolar cautery, contact lasers, morcellators, etc are newer modes of therapy for submucous fibroids.



Indications for thermal ablation

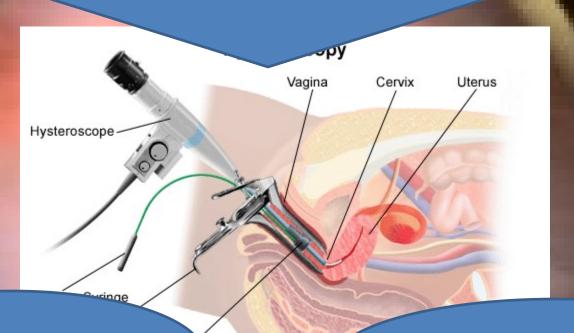
Failed Medical treatment

Rule out malignancy, polyps, Adenomyosis.

Woman has completed her family

Destroy the basal layer of Endometrium

First Generation Endometrial Ablation



Loop resection

Seal

Roller ball resection

Laser Ablation

Second Generation Endometrial Ablation

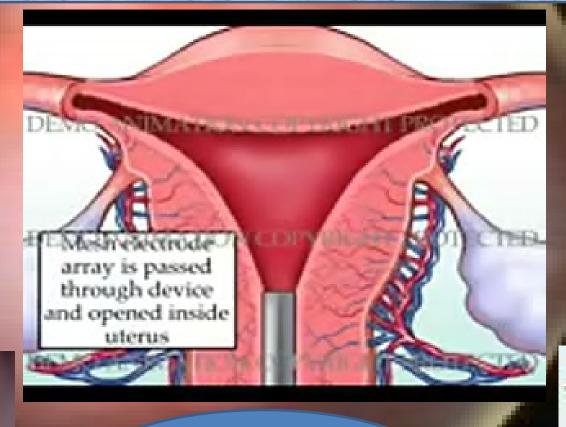
Free fluid thermal ablation





With Hysteroscopic visualisation

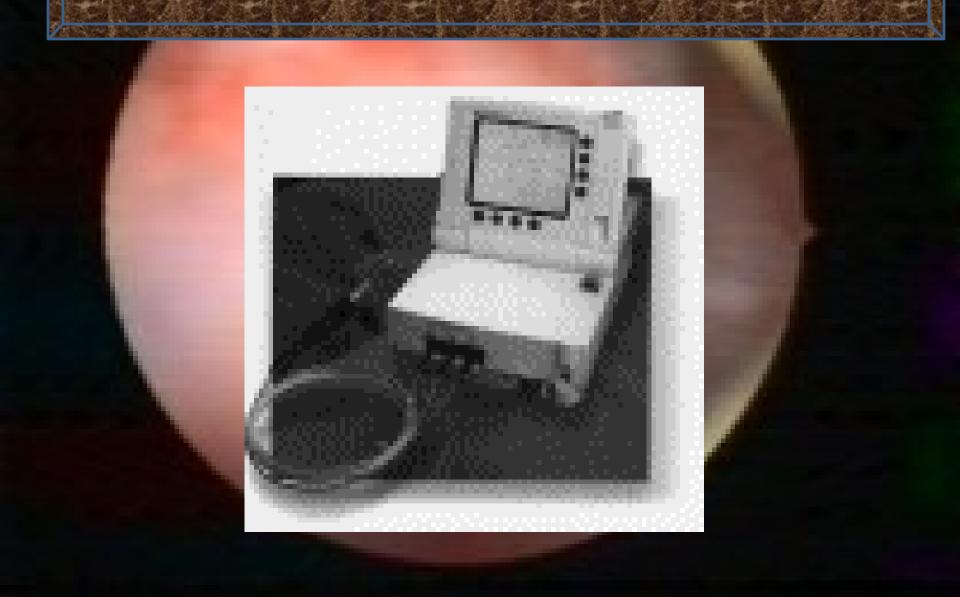
Impedance-controlled bipolar radiofrequency



Novasure



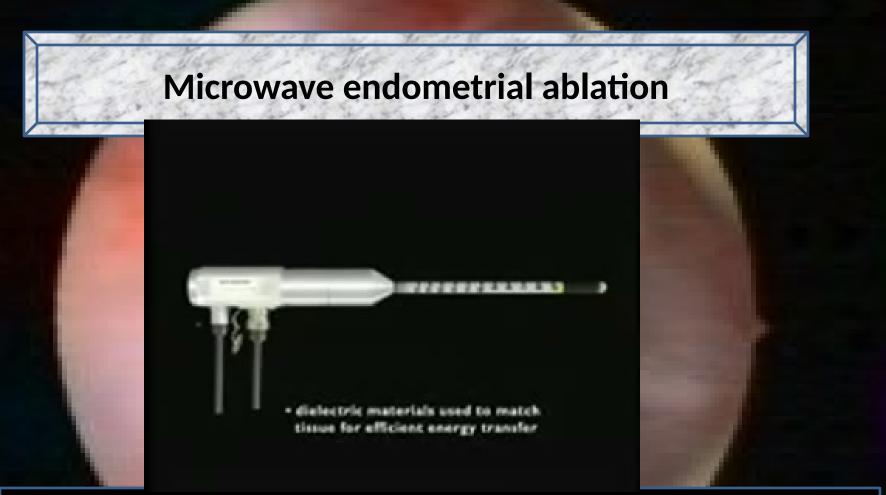
ELITT: Endometrial laser intrauterine thermo-therapy



Cryoablation: HerOption

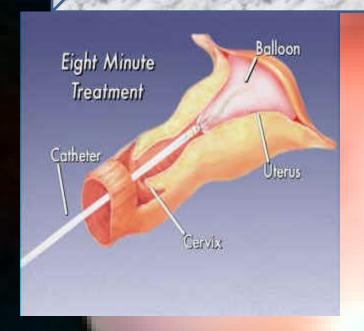






A microwave generator supplies microwave energy to a hand held reusable applicator. Treatment is completed by 'painting' the inside of the cavity from side to side with the probe, whilst withdrawing the device. The treatment temperature is maintained between 70 and 80 8C observed on a computer screen. The procedure may be performed under local or general anaesthetic

Thermal balloon endometrial ablation

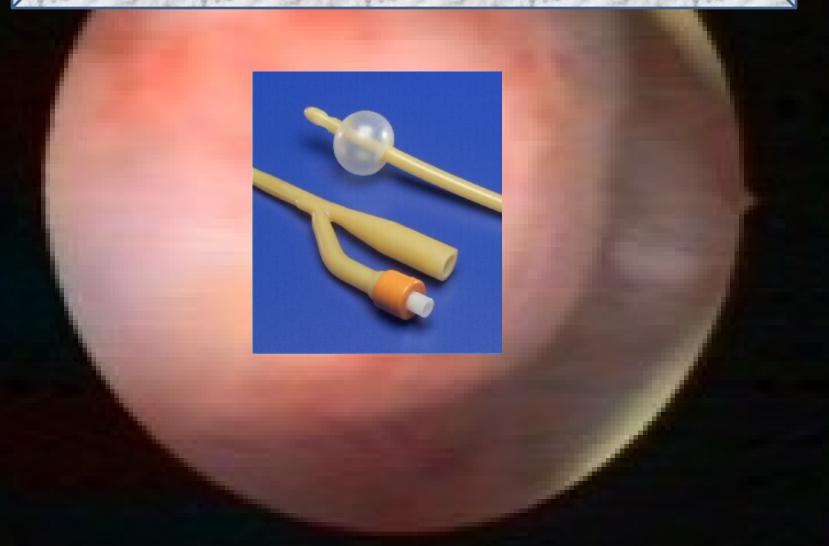


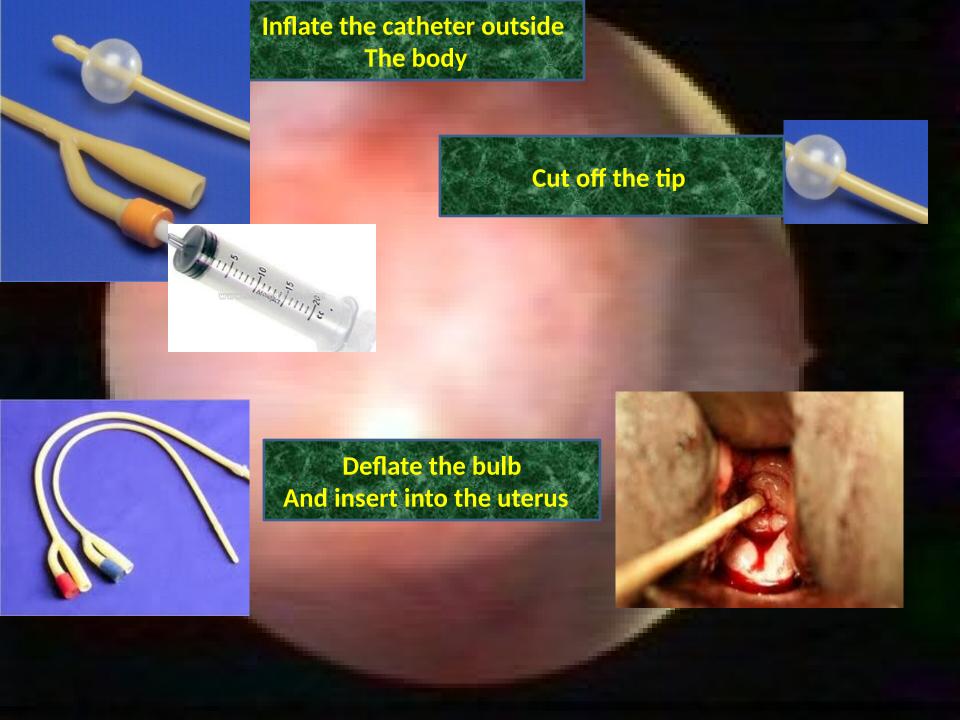
Thermachoice 8 minutes



Cavaterm
15 minutes
Diff balloon sizes

Thermal balloon endometrial ablation using foley's catheter.





Inflate the bulb with 30 cc Boiling water. Keep for 5 min

Deflate

Re-inflate with fresh boiling water and keep for 5 min

Repeat for 6 times



Side effects

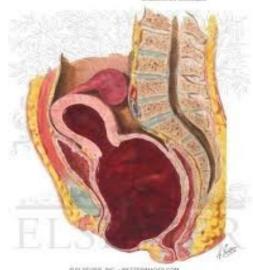
Crampy abdominal pain for a few hours after procedure

Watery discharge for 1 month

Non stop bleeding

Uterine cramps with amenorrhoea

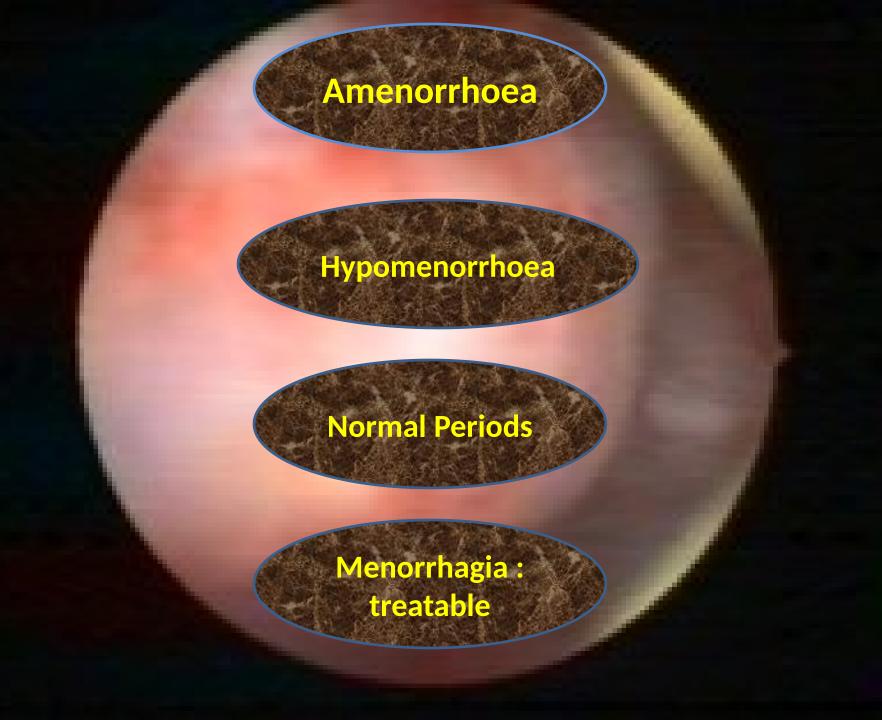




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Inflated foley in uteus with cold water for a few hours

Dilate cervix.



Predictors of treatment failure

Age less than 45.

H/O Dysmenorrhoea

H/O Tubal ligation.

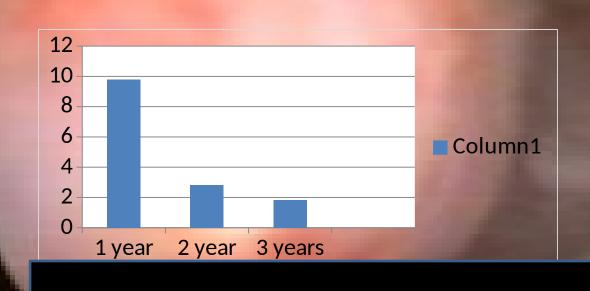
Prediction of treatment outcomes after global endometrial ablation. El-Nashar SA - Obstet Gynecol - 01-JAN-2009; 113(1): 97-106

Uterine Artery Embolisation

Polyvinyl alcohol particles are passed through a fluoroscopically guided transarterial catheter inserted in the common femoral artery to selectively occlude the arteries supplying the myoma.



Large symptomatic myomas in women who do not wish or are poor candidates for major surgery



Percentage of women who needed surgery

Absolute contraindications

Active genitourinary infection,
Genital tract malignancy,
Reduced immune status,
Severe vascular disease limiting access to the uterine arteries, Contrast allergy, or impaired renalfunction.

Relative contraindications

Submucous myomas, Pedunculated myomas, Recent GnRH-a treatment Previous iliac or uterine artery occlusion, Postmenopausal status

Magnetic resonance-guided focused ultrasound surgery (MRgFUS)



The rise in temperature of the tissue receiving the high intensity focused ultrasound (HIFU) and the resultant protein denaturation and irreversible cell damage form.

A reduction of up to 98% in myoma volume and symptoms has been reported.

Rule out concomitant Adenomyosis

There should be no bowel between the abdominal wall and fibroid

Levonorgestrel IUD is a promising option for AUB without pelvic infection. Treats dysmenorhoea also. Spotting is a problem for 6 months

Endometrial ablation is a one time procedure, and no spotting. Patients with dysmenorrhoea or fibroids may not benefit

Hysteroscopy is worth learning and a useful procedure for intractable bleeding, diagnosed polyps and type 0 ,1 and 2 fibroids, preferably <3 cm

Uterine artery embolisation and MRI guided ultrasound treatment of fibroids in selected patients with fibroids

