

Long term effects of PCOS

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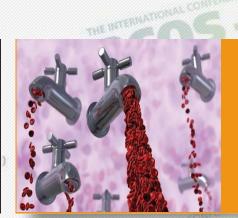
Dysfunctional Uterine Bleeding



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Abnormal uterine bleeding

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Every woman faces it, between menarche & menopause.

Rule rather than exception in those with PCOS!

The Androgen

The problem, and the approach







Evidence-based Good Clinical Practice Recommendations for Indian women

FOGSI Recommendations under aegis of Gynae Endocrine Society of India (GESI)











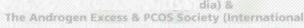












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Management Guidelines of Abnormal Uterine Bleeding in Reproductive Period

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causes

DUB in PCOS

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DUB in PCOS: Causes

1. Ovulatory dysfunction

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Ovulatory dysfunction

Endometrial

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Endometrial carcinoma

From menarche to menopause

Most common complaint

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hyperplasia



2. Coagulopathy

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Young women with PCOS

HMB since menarche

Regular, painful periods

Family history of bleeding disorders

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DUB in PCOS: Causes

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- HMB from menarche to menopause
- May occur in PCOS, not causally related

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DUB in PCOS: Other Causes

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History of other drug intake

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PCOS on hormones

DUB in PCOS: Other Causes

5. Other causes

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Reproductive age women

Perimenopausal women

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Management of DUB in PCOS

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Treatment to be tailored to address concerns of the patient, and depending on age & severity

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. Anemia

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3. QOL issues

2. Infertility

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4. Cancer

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Iron supplementation, iron rich diet, IV iron therapy













2. Infertility

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Ovulation induction to reverse the anovulation is the principal treatment used to help infertility (& DUB) in PCOS.





















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Achieving bleeding control, life style modification

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In young adults



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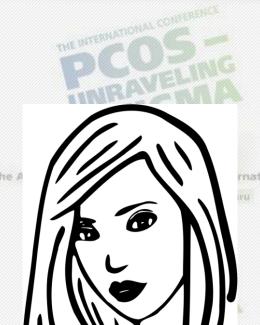








What constitutes a positive screen for coagulopathies?



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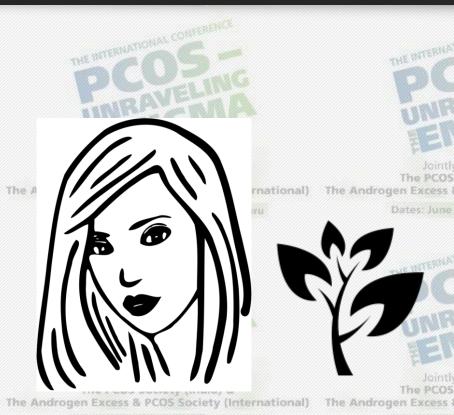


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Investigations:







Bloods:

- CBC
- Bleeding time, platelet count, PT / PTT
- beta HCG
- Ristosetin cofactor activity
- von Willebrand factor antigen
- Factor VIII activity
- TSH

Imaging:

TAS / TVS









TXA / MFA COCs with DRSP / CPA / MPA / LNG IUS

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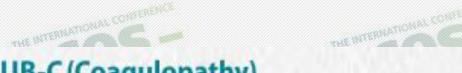
Coagulation defect?

Factor replacement / desmopressin

Check: Thyroid dysfunction / coagulation defects Life style modification







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AUB-C (Coagulopathy)

Recommendations specific to AUB-C

- In patients with AUB-C, non-hormonal treatment with tranexamic acid (1 g qid) as primary option and hormonal treatment with COCs/LNG-IUS as secondary option* are recommended in consultation with a haematologist, with the following considerations (Grade A; Level 2)
 - a. For refractory patients of vWD with uncontrolled uterine bleeding with above medical management specific factor replacement where possible or desmopressin to be given in refractory cases of von-willebrand disease in consultation with haematologist.
 - When surgical interventions are indicated, appropriate pre-, intra- and post-operative management of bleeding should be done.
- *NSAIDs are contraindicated as they can alter platelet function and interact with drugs that might affect liver function and production of clotting factors [8, 106].
- * Intramuscular injectable preparations are contraindicated, except in mild coagulation abnormalities. When administered, prolonged pressure should be applied at injection site

In the reproductive years

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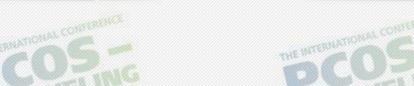
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Imaging:

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- USG to evaluate uterus, adnexa and ET (Grade A Level 1)
- Doppler USG in suspected AV malformation, malignancy (Grade B Level 3)

Endometrial histopathology

Women < 40 years of age with risk factors including PCOS (Grade A Level 2)



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Tranexamic acid / NSAIDs COCs / Progesterone / LNG IUS Ovulation induction



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AUB-O (Ovulatory Dysfunction)

Recommendations specific to AUB-O





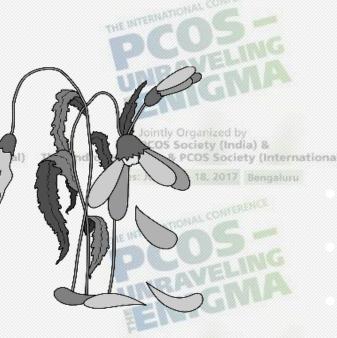
- In women not desiring conception presently, COCs can be used as first-line therapy for 6-12 months (Grade A; Level 1).
- 2. Cyclic luteal-phase progestins (for 10-14 days) can be used as a specific treatment in women with
- Norethisterone cyclically (for 21 days) is given as initial therapy in acute episodes of bleeding for short-term management of 3 months (Grade B; Level 4).
- 4. It is suggested to assess response after 1 year of medical management and judge to continue/discontinue existing therapy (Grade B; Level 4).
- 5. Surgical intervention is not recommended unless, there is evidence of persistent AUB or failure of medical management to alleviate the condition (Grade A; Level 4).
- 6. If COCs are contraindicated or patient is unwilling for COCs, LNG-IUS is recommended if she wishes to use it for at least 1 year (Grade A; Level 1).
- In adolescents with AUB-O, both hormonal and non-hormonal therapies can be prescribed, (Grade A; Level 4).

In perimenopausal age



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In the perimenopausal age:





Imaging:

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- USG to evaluate uterus, adnexa and ET (Grade A Level 1)
- Doppler USG in suspected AV malformation, malignancy (Grade B Level 3)

Endometrial histopathology

- Women > 40 years of age (Grade A Level 2)
- Women < 40 years of age with risk factors including PCOS (Grade A Level 2)
- Endometrial aspiration is the preferred procedure (Grade A Level 2)
- Hysteroscopy if endometrium is thick (polyp) / atrophic (Grade A Level 2)
- D & C should not be the procedure of choice (Grade A Level 3)

AUB-M (Malignancy and Endometrial Hyperplasia)

Recommendations for AUB-M





- In AUB-M with endometrial malignancy, standard protocol for management of malignancy should be followed (Grade B; Level 4).
- In AUB-M with endometrial hyperplasia with atypia, hysterectomy is the standard treatment. (Grade B; Level 2). Conservative treatment with high-dose progestins and close histological monitoring should only be considered in exceptional cases (when the patient wants to have children and compliance is satisfactory.)
- In AUB-M with endometrial hyperplasia without atypia, LNG-IUS can be considered as first-line therapy; alternatively oral progestins can be used (Grade A; Level 1). Preventive hysterectomy should only be considered in exceptional cases (e.g., extreme obesity without any prospect of weight loss).







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Last but not the least...

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Arrest abnormal bleeding

Induce ovulation

Prevent endometrial cancer

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