### BMUS») Ultrasound for Endometriosis

Endometriosis affects up to 1 in 10 people assigned female at birth and can take on average 8 years to diagnose. NICE guidelines advise an ultrasound scan to aid diagnosis. This quick visual reference guide may help guide sonographers to diagnose pelvic endometriosis.

#### **Ultrasound Reference Guide**

#### Consider uterine position within the pelvis

Anatomy

An anteverted and retroflexed uterus (sometimes called the question mark sign) is a strong indicator of adhesions in the Pouch Of Douglas (POD)

Imaging features

## Assessment for Adenomyosis (strongly associated with endometriosis)

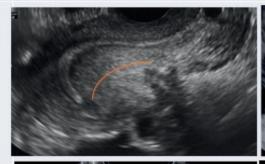
Uterus

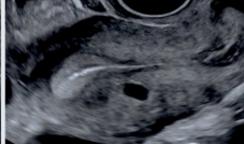
Ovaries

Direct ultrasound signs of adenomyosis: Myometrial cysts / sub-endometrial lines or buds / hyperechogenic islands

Indirect signs of adenomyosis:
Globular uterus / asymmetrical myometrial
thickening / fan-shaped shadowing / translesional vascularity / irregular or interrupted
junctional zone

#### **Example imaging**









#### Reporting phrase suggestion:

The myometrium displays the following [direct/indirect] features suggestive of adenomyosis: [insert appropriate signs]

Endometrioma

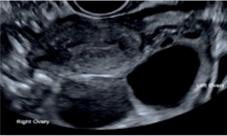
Ground glass cysts with no Doppler flow. May be single or multiple.

 Consider position of ovaries

Dynamically assess the

- Assess position and mobility of ovaries:
- Low position (POD)
- Kissing ovaries posterior to uterus





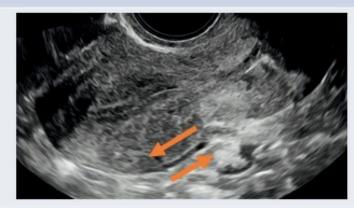
#### Reporting phrase suggestion:

There is a x mm unilocular cyst with ground glass echogenicity cyst contents, no solid component, vascularity or shadowing, suggestive of an ovarian endometrioma.

# POD for mobility by gently applying pressure to the cervix with the TV probe. Observe whether the uterus glides freely from the rectosigmoid.

A positive sliding sign is used to describe the posterior aspect of the uterus sliding freely from the rectosigmoid.

A negative sliding sign is used to describe the posterior aspect of the uterus not sliding freely from the rectosigmoid and/or ovaries (frozen pelvis)



#### Reporting phrase suggestion:

- + Positive sliding sign observed, the uterus was seen to move freely against the tissues in the POD
- Negative sliding sign observed, this is suggestive of adhesions in the POD / posterior compartment and the pelvis may be frozen.

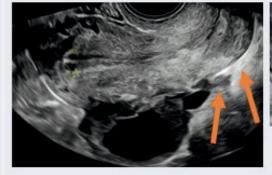
## 00

flags

Red

Assess the POD for evidence of fibrosis, especially when negative sliding sign is observed. Fibrosis appears echogenic on ultrasound and is typically seen in the retro-cervical region (encompassing the torus uterinus and uterosacral ligaments).

Within this echogenic fibrosis, you may see irregular, hypoechoic lesions which represent nodules of Deep Endometriosis (DE).
You may see a bowel nodule of DE in the





Bowel nodule

#### Reporting phrase suggestion:

There is evidence of retro-cervical fibrosis with x mm nodules of Deep Endometriosis in the torus / RUSL / LUSL.

Observation of the following should prompt reassessment by an experienced operator or specialist referral (dependent on local guidelines):

△ Anteverted and retroflexed uterus (question mark sign)

rectal muscularis.

- △ Repeated 'normal' scans with chronic pelvic pain
- △ Tender pelvis during TV examination

△ Ovarian endometrioma

△ Kissing ovaries

△ Bowel nodule

△ Negative uterine sliding sign

- △ Retro cervical fibrosis with dark nodules DE
- ▲ Adenomyosis