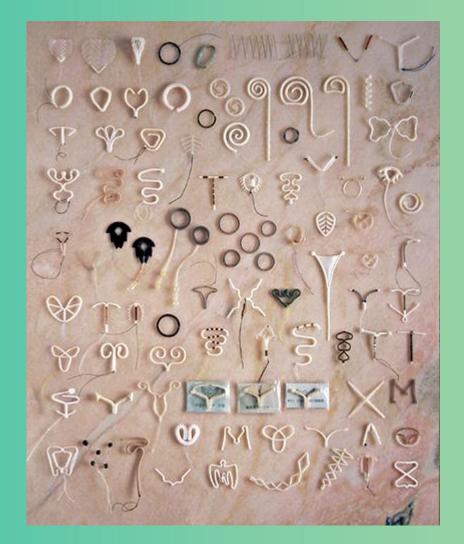
IUD issues in clinical practice

Dr Amy Moten





Terminology

In this presentation, terms are used as follows:

IUD = Intrauterine Device, covering both LNG-IUDs and copper-IUDs

LNG-IUD = a type of intrauterine device releasing levonorgestrel

Cu-IUD = a type of intrauterine device containing copper

Multiload



IUD malposition

Correct position of an IUD:

- fundally placed with arms fully extended
- vertical portion extending straight downward

Malpositioned IUDs may be:

- located in the lower uterine segment or cervix
- rotated
- embedded in the myometrium
- partially expelled
- protruding through the serosa or within the uterine cavity

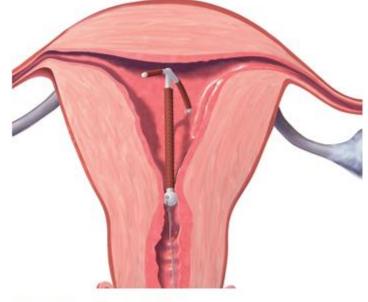


IUD malposition

Most common presentation is pain or bleeding

Concerns regarding risk of pregnancy Removal may be unnecessary Increased risk associated with replacement

Pregnancy associated with discontinuation of contraception







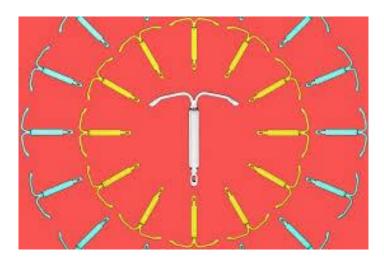
Low lying IUD

>20mm below the uterine fundus

Cu-IUD vs LNG-IUD

May reposition over time

No association with increased bleeding or pain





Low lying IUD

Intracervical IUDs recommended to be removed and replaced

Decreased efficacy particularly Cu-IUD

LNG-IUD intracervically may cause irregular bleeding

Expulsion risk is higher





Embedded IUDs

- Penetration into the superficial layers of the myometrium
- Impingement on the endometrium causing pressure necrosis of underlying tissue
- Trauma may occur when removal of an embedded device is attempted



Partial expulsion

IUD sits in the cervix and the tip extends through the external os

High rate of expulsion

Can present as a change in bleeding pattern with LNG-IUD

Should be removed and alternative contraception organised



IUD perforation

Protruding through the serosa (partial)

Or completely outside the uterus and within the abdominal cavity (complete)

An embedded IUD may lead to further perforation –

the "wandering IUD"



IUD migration

Rare but does occur

Case 1:

- 44yo para 2 was fitted for an LNG-IUD
- Routine speculum exams strings seen
- Strings not seen at next cervical screen
- IUD found attached to the rectus sheath





IUD migration

Case 2:

- 46yo para 1 long time user of DMPA
- Multiple co-morbidities
- LNG-IUD inserted to 11cm after sounding
- USS post procedure confirmed correct position
- Subsequent repeat CT scans
- 26 months post insertion CT scan showed device had perforated

On review CT scan at 3 weeks post insertion suggested embedded IUD



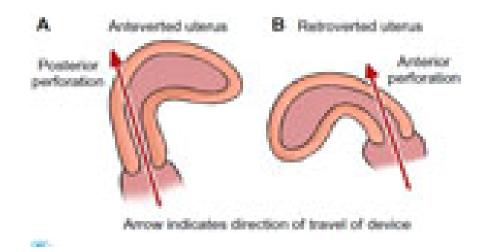
IUD perforation

Risk is 1-2.3/1000 insertion

Breastfeeding and 36 months post partum

No difference between LNG-IUD and Cu-IUD

Number of insertions performed by inserter





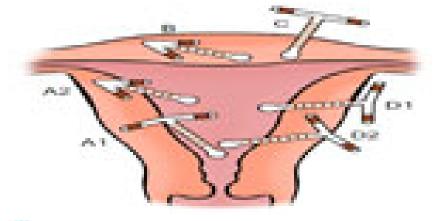
Mechanism

Perforation with sound at time of insertion

Perforation with device at the time of insertion

May be completely painless

The most common location for a complete perforation is the pouch of Douglas





Management of perforation

If perforation with the sound is suspected:

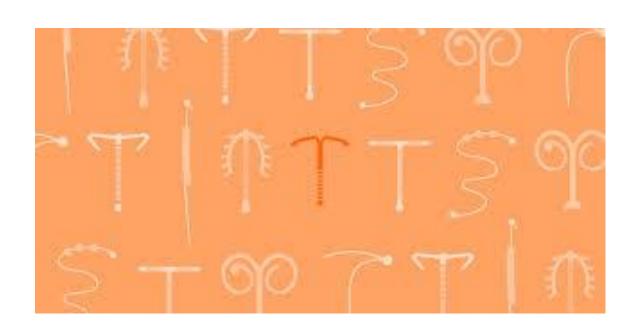
- Ultrasound
- Monitor haemodynamic status and bleeding
- ?Antibiotic cover indicated
- Potential re-insertion ?6 weeks



Management of perforation

Management of suspected perforation with IUD:

- USS/AXR to locate IUD
- Haemodynamically stable/pain controlled
- ?Antibiotic cover
- Laparoscopic removal





Complications of perforation

Serous complications are rare

1 case of haemorrhage leading to hysterectomy reported in the media

Some reports of bowel perforation

Infertility

Adhesions

Some debate regarding the need to remove at all



Malposition - recommendations

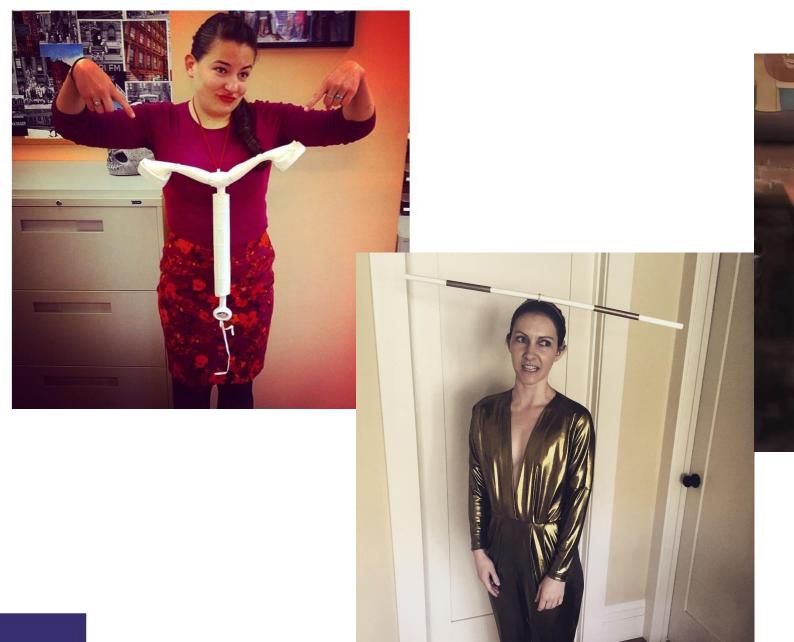
efficacy and remove and replace if desired

If symptomatic with pain or bleeding – remove and replace Asymptomatic patients with a malpositioned LNG-IUD still within the uterine cavity can be counselled regarding the

Asymptomatic patients with a malpositioned Cu-IUD should be counselled regarding increased risk of pregnancy

Embedded IUDs increased the risk of perforation and should be removed







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