

# Advanced LARCs: Successful Management of IUD and Implant Challenges

Patty Cason, MS, FNP-BC

Envision SRH

UCLA School of Nursing

Arthur Ashe Student Health and Wellness Center

[envisionsrh.com](http://envisionsrh.com)



# Objectives

- Demonstrate appropriate language for describing IUD complications when obtaining informed consent
- Display familiarity with use of the 2016 CDC guidelines
- Describe effective management of IUD related side effects.

# Your Questions

“How can I assist my clinic with increasing the percentage of patients being asked about their contraceptive use?”

# Reproductive Intention/Goals PATH Questions

1. Do you think you might like to have (more) children some day?
2. When do you think that might be?
3. How important is it to you to prevent pregnancy (until then)?



# Counseling Patients Choosing a Contraceptive Method



# Particular Characteristics Of Contraception

- Do you have a sense of what is important to you about your method?
- Do you have a sense of what you are looking for in a contraceptive method?

# Elicit Her Attitudes About

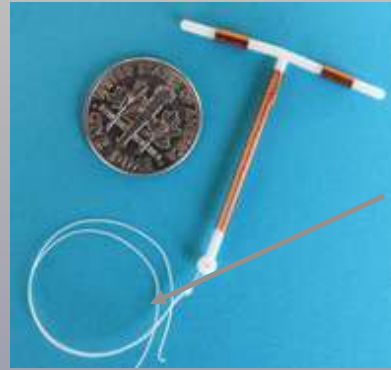
- Effectiveness
- Return to fertility
- Control over removal
- Menstrual cycle/bleeding profile
- Object in her body
- Non-contraceptive benefits
- Length of use
- Side effects
- Hormones

# Your IUD Questions

- “To become aware of what providers might be dealing with”
- “Various types of IUD and Indications”

# Copper: ParaGard

32mm horizontally x 36mm vertically



White threads

# Levonorgestrel: LNG 52: Mirena

32mm x 32mm



# Levonorgestrel: Liletta

32mm x  
32mm

Blue threads



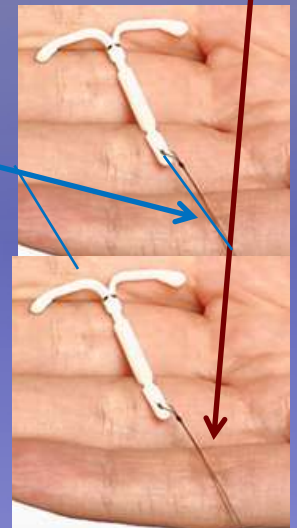
Brown threads

# Levonorgestrel: LNG 19.5: Kyleena

28mm horizontally x 30mm vertically

# Levonorgestrel: LNG 13.5: Skyla

28mm horizontally x 30mm vertically



# Length of use “UP TO”



Copper: PARAGARD  
12 years



Levonorgestrel: LNG 52: Mirena  
5 (probably 7 years)



Levonorgestrel: Liletta  
3 (probably 7) years



Levonorgestrel: LNG 19.5: Kyleena  
5 years



Levonorgestrel: LNG 13.5: Skyla  
3 years

# Which LNG IUD

| Brand Name                                     | Skyla®      | Kyleena®        | Mirena®          | Liletta®                                |
|--|-------------|-----------------|------------------|---|
| LNG content (mg in reservoir)                  | 13.5        | 19.5            | 52               | 52                                      |
| Release rate (mcg/24 hrs) --<br>at end of life | 14<br><br>5 | 17.5<br><br>7.4 | 20<br><br>+/- 10 | 19.5<br>17, 14.8,<br>12.9,<br>11.3, 9.8 |
| Max duration, years                            | 3           | 5               | 5 (7)            | 3 (7)                                   |
| T-frame, mm                                    | 28 x 30     | 28 x 30         | 32 x 32          | 32 x 32                                 |
| Insertion tube diameter                        | 3.80        | 3.80            | 4.40             | 4.80                                    |
| String color                                   | Brown       | Blue            | Brown            | Blue                                    |
| Silver ring                                    | Yes         | Yes             | No               | No                                      |



# Cu IUD: Mechanism of Action

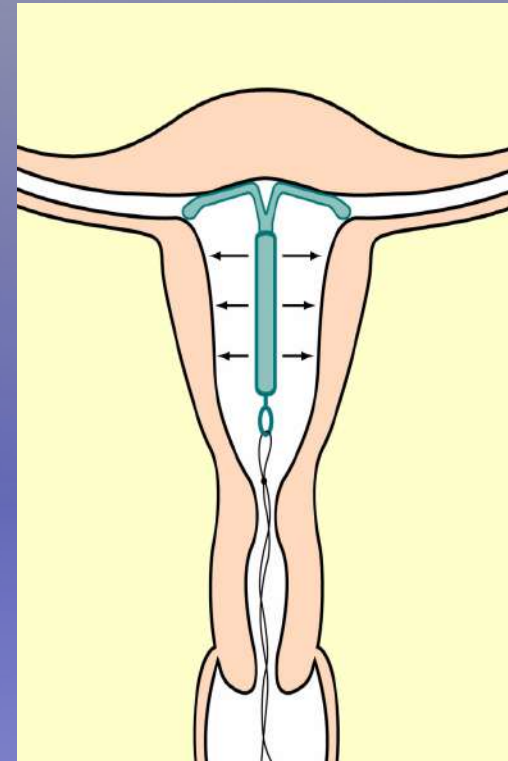
- Primary mechanism is prevention of fertilization
  - Reduce motility and viability of sperm
  - Inhibit development of ova
- Possible secondary mechanism inhibition of implantation





# LNG IUDs: Mechanism of Action

- Cervical mucus thickened
- Sperm motility and function inhibited
- Unlikely secondary mechanism of action
  - Endometrium suppressed
  - Occasional ovulation inhibition



# Your IUD Questions

“Pre-insertion labs”

# Pre-IUD placement Screening

- Pelvic exam
- No *routine* screening tests
  - Any indicated screening test can be performed at time of placement
- Baseline Hgb-may be helpful for later management

# Pre-IUD placement Screening

- CT/GC:
  - If age <25 and due for annual screening
  - Or if high risk for STI
- Cervical cancer screening if due
- Pregnancy test if indicated

# Copper T: Emergency Contraception

- Prospective, multicenter cohort clinical trial: 1,963 women in China; CuT380 placed within 120 hours of unprotected intercourse
- No pregnancies at 1 month follow-up visit
- 94% parous women and 88% nulliparous women continued at 1 year

# Your Questions

“The challenges clinics face when managing patients IUDs”

“Why do so many fear getting them”

“General management of side effects of both the Implant and the IUDs.”



# MANAGEMENT



# Responding to Complaints

- **All staff** gives similar messaging
- “Actively listen” to the complaint so you know the root problem!
- Then re-phrase
- She doesn’t have to “fight for the right” to have her IUD removed
- Don’t assume the visit is for removal



So you understand *what the real problem is* and

*What outcome she wants:*

Does Carol want...

- To be reassured that she is not in danger?
- The problem *fixed*?
- To complain? Be given compassion? Advice?

# Any IUD: Cramping Pain and/or Spotting

## *Soon After Placement*

- It is normal for a woman to feel cramps, intermittent pelvic pain and any amount of spotting and light bleeding for a few weeks
- NSAIDS alleviate much or all of the cramping/pain

“I struggle with when to pull the trigger to get an ultra sound for cramping and discomfort.”

# **Expulsion Perforation Pregnancy Infection**

- Afebrile
- Negative pregnancy test
- Strings visible at the cervical os
- No mucopurulent discharge from the cervical os
- Normal bimanual exam – no cervical motion tenderness

# Carol 18 year old G<sub>2</sub> P<sub>2</sub> In Medical Assistant School

- LNg IUD 52mg placed 2 months ago
- “I love my IUD but I spot almost every day and it is starting to make me crazy!”
- “You told me I might have spotting or irregular bleeding but this seems like it’s not good for me.”

# LNG IUD: Unscheduled Bleeding

- Some women have irregular bleeding for 3-4 months after placement:
  - Frequent spotting
  - Frequent light bleeding
  - *Rarely* heavier bleeding
  - Usually resolves after 3-4 months
- General pattern: amenorrhea or regular menses get increasingly lighter with time

# Empathy Without Labeling

- Rather than...
  - “You sound anxious” or “angry”
- Use neutral words...
  - “It sounds like this constant spotting is quite concerning to you”
  - “I can see that spotting every day is really hard to deal with”

# Empathy Traps

## Avoid...

- Saying, “I know what you mean”
- Downplaying the significance of the concern or side effect

## Rather...

“In the first few months using this IUD many of my patients feel that way”

“Anyone would find that spotting to be a drag!”



# Implant and LNG IUD Complaints Other than Bleeding

- Depends on the amount of progestin systemically absorbed
  - Weight gain, mood changes, acne, hair loss, headache
- Rarely
  - Breast tenderness and nausea

# Susan G<sub>1</sub>P<sub>2</sub> (twins)

## 29 year old Yoga Instructor

- Cu T placed 3 months ago
- “I love the fact that I am off hormones, but my periods are off the hook!”
- “I heard that this thing makes you bleed more and it sure does...”



# On the One Hand- On the Other Hand

“So it sounds like on one hand you would like to continue with your IUD...”

“And on the other hand, your periods are really an issue right now. Do I have that right?”

pause for a reply



“Is there an NSAID that is more preferable to use for the spotting, or do all the NSAIDS (Naproxen vs Ibuprofen) have about the same effectiveness at reducing spotting? And what would be the doses you recommend, and for how long?”

# Longer or Heavier Menses

NSAIDs prophylactically WITH FOOD

- Pre-emptive use for 1st 3 cycles
- Start before onset of menses
  - **Naproxen sodium 220mg x2 BID (max 1100mg/d)**
  - Ibuprofen 600-800mg TID (max 2400mg/day)

# No Suppression of Endogenous Hormones with the Copper IUD

- May experience sensations related to her own endogenous hormones
  - Premenstrual bloating, breast pain, tenderness, or swelling, mood changes, low back pain, dysphoria or depression
- Sharp brief stabbing pain during the time of ovulation

# Your Questions about Unacceptable Bleeding

“Main thing I’m interested in is how to manage the Break through Bleeding many people have with the Nexplanon.”

“What do I do for the woman who continues to bleed when using Nexplanon, after trying some “feedback estrogen” ? - That’s OK as long as she is on the estrogen but the minute she stops the estrogen she’s back bleeding again. And I’ve also tried Ibuprofen 600 mg BID with the same results. OK as long as she is on it but the minute she stops – she’s bleeding again. ”



“I see a lot of unwanted spotting on the Implant and have seen several different methods of giving OCPs - one is to have the patient take a pill every day until the bleeding stops and then an additional 5 more days. The other way I have seen is to have the patient take a full pack of pills and take the placebo pills to have a period, then only restart a second pack if the spotting continues...”

# US Medical Eligibility Criteria 2016

| Category | Definition  | Recommendation  |
|----------|---|---|
| <b>1</b> | <b>No restriction in contraceptive use</b>  | <b>Use the method</b>                                     |
| <b>2</b> | <b>Advantages generally outweigh theoretical or proven risks</b>                  | <b>More than usual follow-up needed</b>                   |
| <b>3</b> | <b>Theoretical or proven risks outweigh advantages of the method</b>              | <b>Clinical judgment that this patient can safely use</b> |
| <b>4</b> | <b>The condition represents an unacceptable health risk if the method is used</b> | <b>Do not use the method</b>                              |

**US MEC**

US Medical Eligibility Criteria  
for Contraceptive Use, 2016

**US SPR**

US Selected Practice Recommendations  
for Contraceptive Use, 2016



U.S. Department of  
Health and Human Services  
Centers for Disease Control  
and Prevention



**Contraception**

Centers for Disease Control and Prev..

**E** Everyone

UNINSTALL

OPEN

2016  
CDC MEC  
and SPR  
phone  
app

If bleeding persists, or if the woman requests it, medical treatment can be considered.\*

Cu-IUD  
users

For unscheduled  
spotting or light  
bleeding or for heavy  
or prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)

LNG-IUD  
users†

For unscheduled  
spotting or light  
bleeding or heavy/  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or  
estrogen (10–20 days  
of treatment)

Implant  
users†

Injectable  
(DMPA) users

For unscheduled  
spotting or light  
bleeding:  
• NSAIDs (5–7 days  
of treatment)

For heavy or  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or estrogen  
(10–20 days of  
treatment)

CHC users (extended or  
continuous regimen)

Hormone-free interval  
for 3–4 consecutive days

Not recommended during  
the first 21 days of  
extended or continuous  
CHC use

Not recommended more  
than once per month  
because contraceptive  
effectiveness might be  
reduced

If bleeding disorder persists or woman finds it unacceptable

Counsel on alternative methods and offer another method, if desired.

United States Selected  
Practice Recommendations  
for Contraceptive Use

**US SPR**

[www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm](http://www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm)

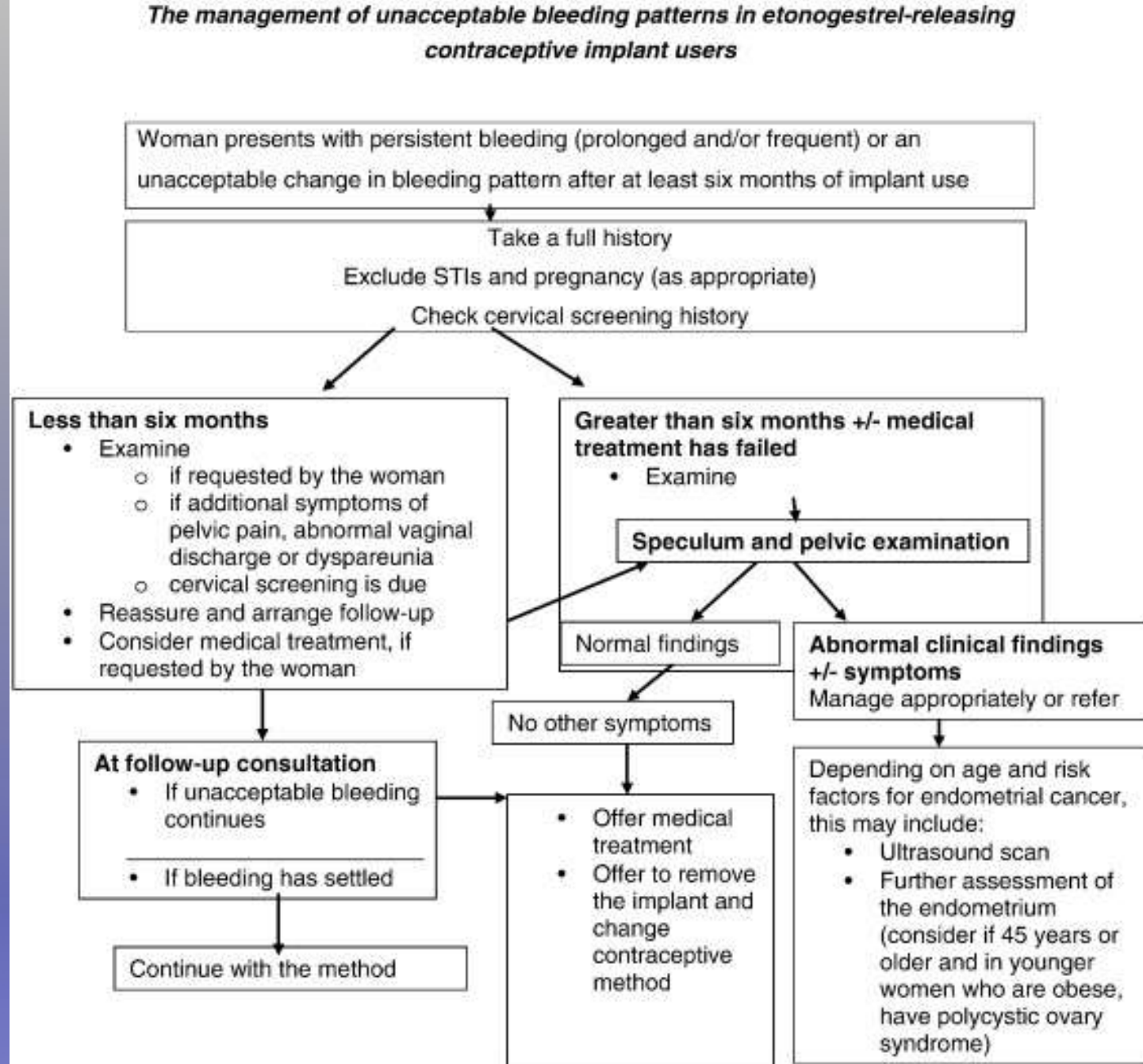


# Alternatives

- Tranexamic acid\*
  - 250 mg QID x 5d
  - 500mg BID x 5d
  - 500mg TID until bleeding resolves
- Progestin-only pill
  - Continuous use

\*Lysteda

Fig. 1.  
Management pathway for ENG implant users with persistent vaginal bleeding (based on the UK's Clinical Effectiveness Unit, Faculty of Sexual and Reproductive Health Care guidelines 2009 [33]).



- What was her bleeding pattern both before and currently?
- How many bleeding days is she having per month?
- If she is using a non-LARC method, such as POPs or DMPA, is she using it correctly?
- Is her bleeding heavy or light?
- Is she having regular/irregular cycles or is the bleeding intermenstrual?



- Is she taking any other medications (ie, antiepileptic drugs, St John's Wort) that could interact with her contraceptive and therefore affect her bleeding?
- Are there any symptoms that are associated with her bleeding (ie, pain, nausea, vomiting, breast tenderness)?
- Does the bleeding occur at specific times (ie, after sex)?



# Drug interactions

## Drugs that may decrease the implant's effectiveness

|               |               |                 |
|---------------|---------------|-----------------|
| Barbiturates  | Griseofulvin  | St. John's wort |
| Bosentan      | Oxcarbazepine | Topiramate      |
| Carbamazepine | Phenytoin     | Efavirenz       |
| Felbamate     | Rifampin      |                 |

## Drugs whose plasma concentrations may change because of the implant

|                            |                         |
|----------------------------|-------------------------|
| Cyclosporin<br>(increased) | Lamotrigine (decreased) |
|----------------------------|-------------------------|

# "pop-out" or "fingers-only" Implant Removal Technique

<https://www.screenr.com/MS7N>

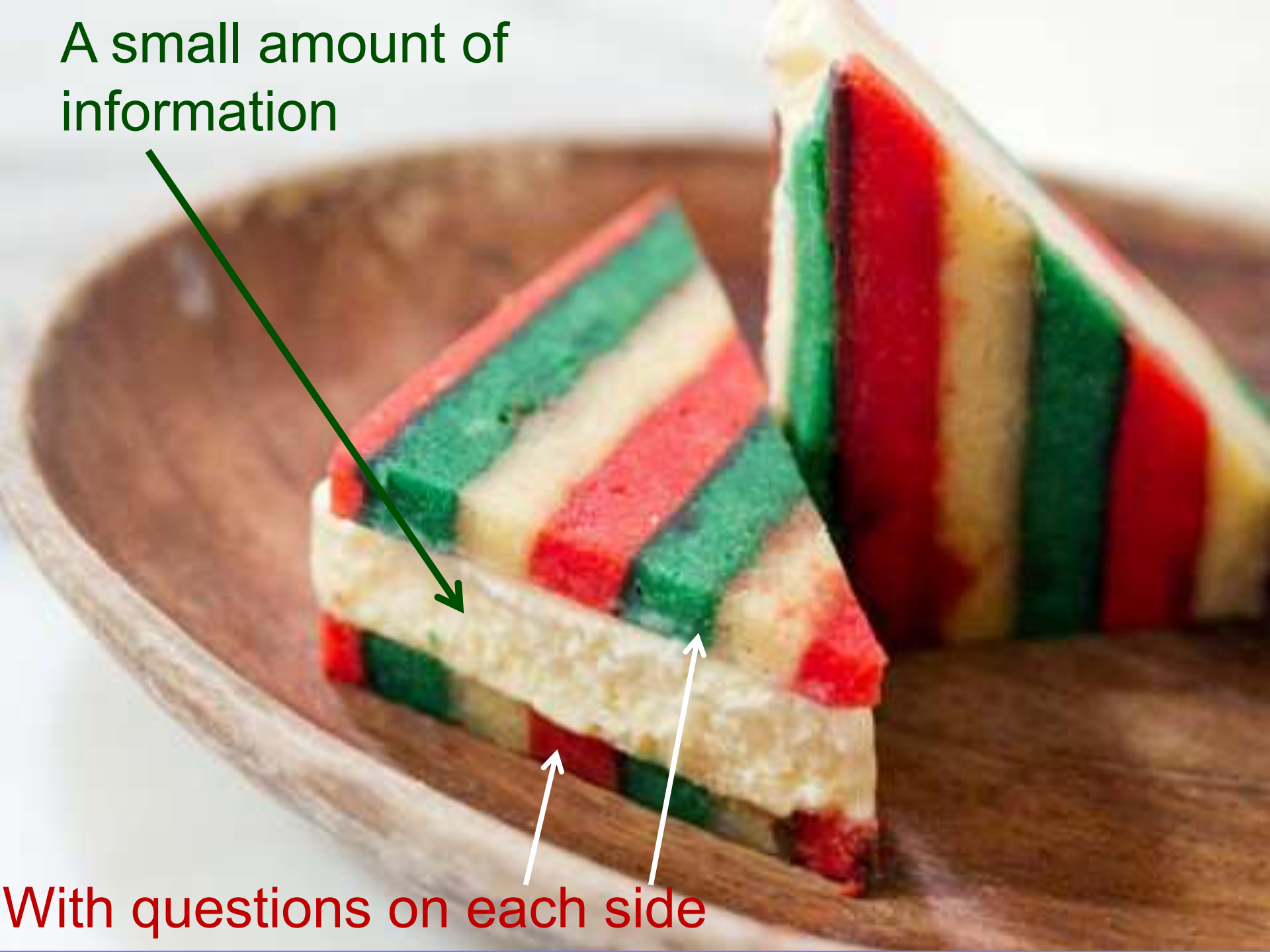
# Your Questions

“Patient education”

# Language for LARC

“This method is good for **up to** \_\_\_\_\_ years but if you want to get pregnant before then or you would like it removed for any reason, come in, we will remove it and your ability to get pregnant will return *to whatever is normal for you immediately.*”

A small amount of  
information



With questions on each side

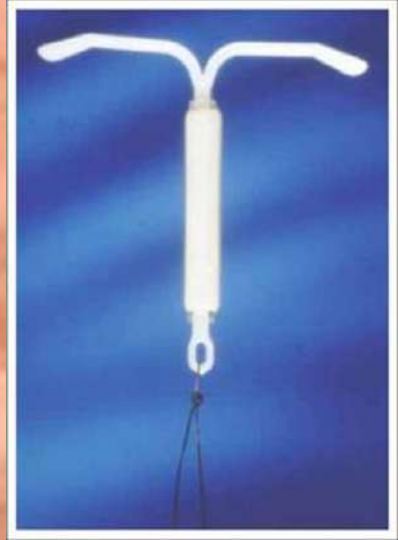
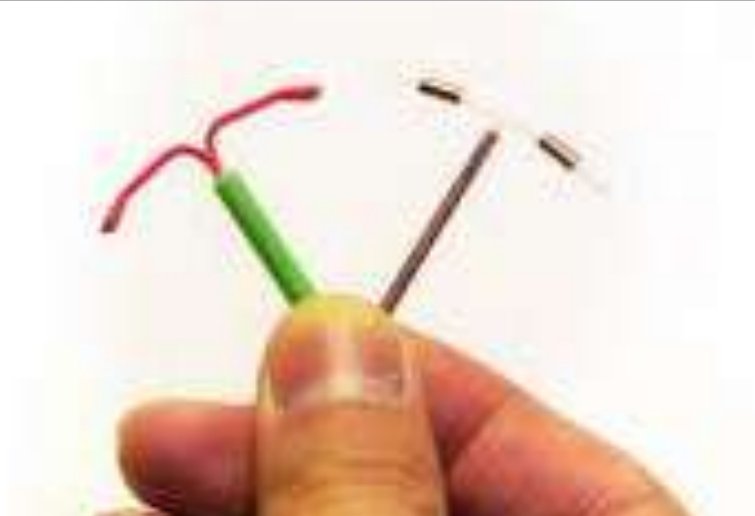
# Questions for the Information Sandwich

- How would that be for you?
- Knowing that how would it be for you...?
- Has it ever happened before?
- How did you manage it?
- Do you have a sense of how you would manage it?

# Demo Unit IUDs and Implant

Give them the unit to hold, feel and play with while discussing the method

- how to feel the threads
- what the plastic feels like if it is expelling





# Informed Consent

- Discuss menstrual changes
- Perforation, infection, expulsion, method failure
- Return if
  - String cannot be located
  - Symptoms of pregnancy/infection
  - Sudden unexplained pelvic pain or dyspareunia occurs
  - Excessively heavy bleeding

## Symptom

## Possible Explanation

Pain or dyspareunia

Infection, perforation, partial expulsion

Missed period, other signs of pregnancy, expulsion

Pregnancy (uterine or ectopic)

Shorter, longer, or missing threads

Partial or complete expulsion, perforation

# Responding to “Unfounded” Concerns

“That’s too bad your friend had that experience. I haven’t heard of that before, and I can tell you it definitely doesn’t happen frequently.”

# Try NOT to Disagree

- Whenever possible, find something in what she is saying to agree with and then add your scientific or medical information.
- “Yes! .... and...” Instead of “No” or “But”

# Advanced Clinical Content

Pain prevention with use of tenaculum and sound

Perforation prevention

Visualizing cervix with patients who are obese

Difficulty getting through internal os

Pain prevention- verbicaine

Complications

Preventing a vasovagal

Missing strings

Pregnancy with IUD in place

# Tenaculum Pain Prevention

- Only click to first or second ratchet
- Close the tenaculum very, very slowly
- Close the ratchet *silently*
- Take a bite no larger than you need

# Tenaculum Pain Prevention

- 1cc Local anesthetic to tenaculum site
- Have patient cough (...hold onto the speculum)
- Don't move the tenaculum inadvertently
- During sounding and IUD placement, don't hook your fingers through the rings

# Uterine Sound: Which One?

- Metal sound
- Plastic sound
- Endometrial sampler
- Two sided dilator



# Uterine Sound Pain Reduction

- Touch the fundus once
  - Repeated tapping is unnecessarily uncomfortable for the patient
- Move slowly and intentionally
  - Moving too quickly increases discomfort

# Uterine Sound

- If metal; bend sound to mimic uterine flexion
- Hold it like a pencil or dart
- Use *Wrist* action
- Brace fingertips on speculum to achieve control of force while advancing the sound

# Uterine Sound: *S-l-o-w* Progression

- Through the internal os
- *Pause once you have passed through the internal os*
- Slow intentional progression to the fundus

# Obesity: Bimanual Exam

- It may be difficult or impossible to palpate the uterus or ovaries
- Place the abdominal hand UNDER the panniculus to decrease amount of adipose tissue between the hand and the uterus
- Pelvic sonogram if sounding difficult

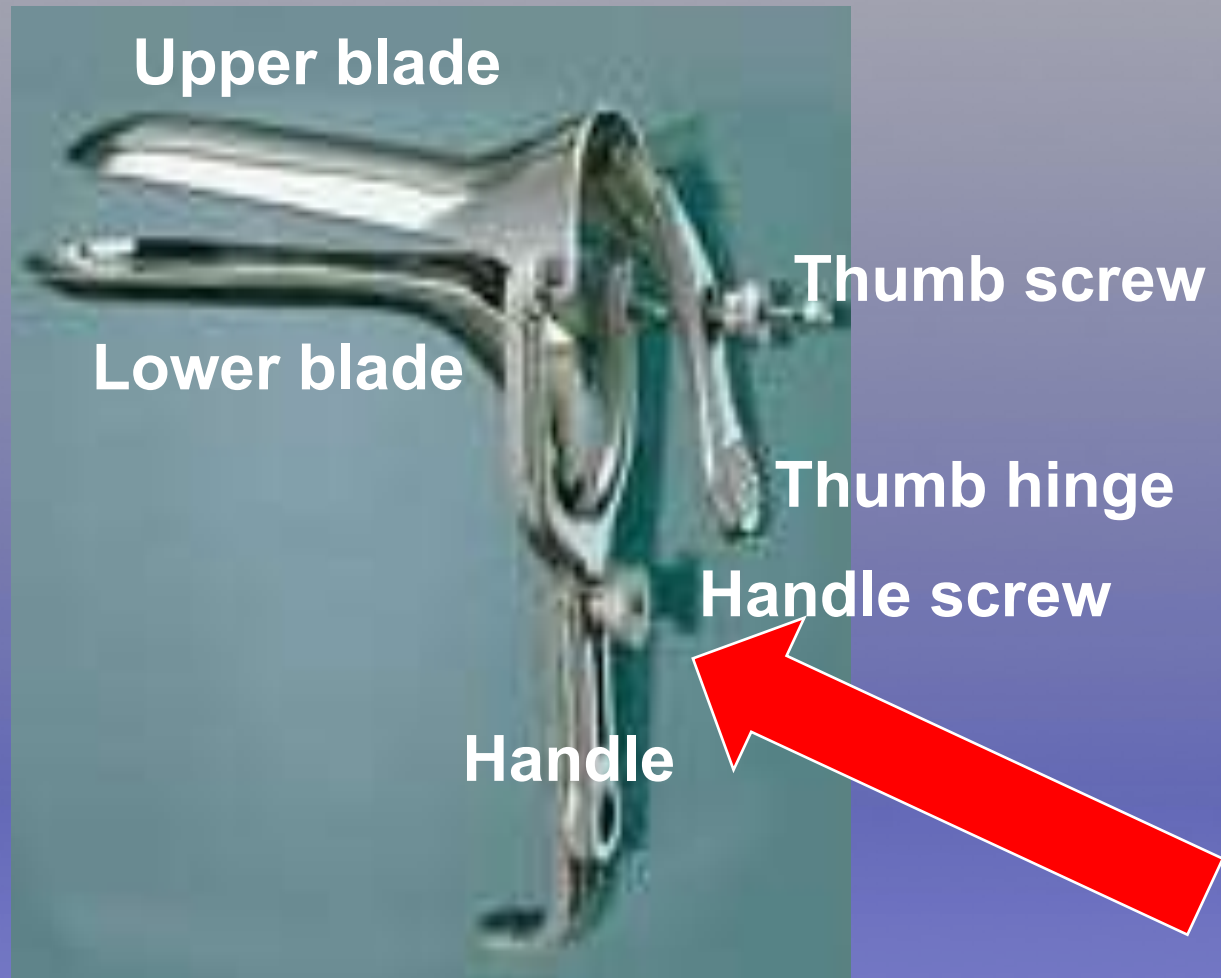
# Obesity: Have Appropriate Instruments in the Room

- Specula of varying sizes
- Ensure adequate lighting
- Tongue blades or retractors or ring forceps
  - Use closed ring forceps or tongue blade to gently push vaginal walls to the side to improve visibility

# Obesity: The Right Speculum

- Too narrow--will not allow for good visualization
- Increase *width rather than length*
  - Avoid a long speculum
  - It can firmly splint the cervix in place
  - Does not allow you adequate cervical mobility to straighten the uterine flexion when using a tenaculum

**Open the speculum blades at  
the base as well as the tip**









# Optimize Position

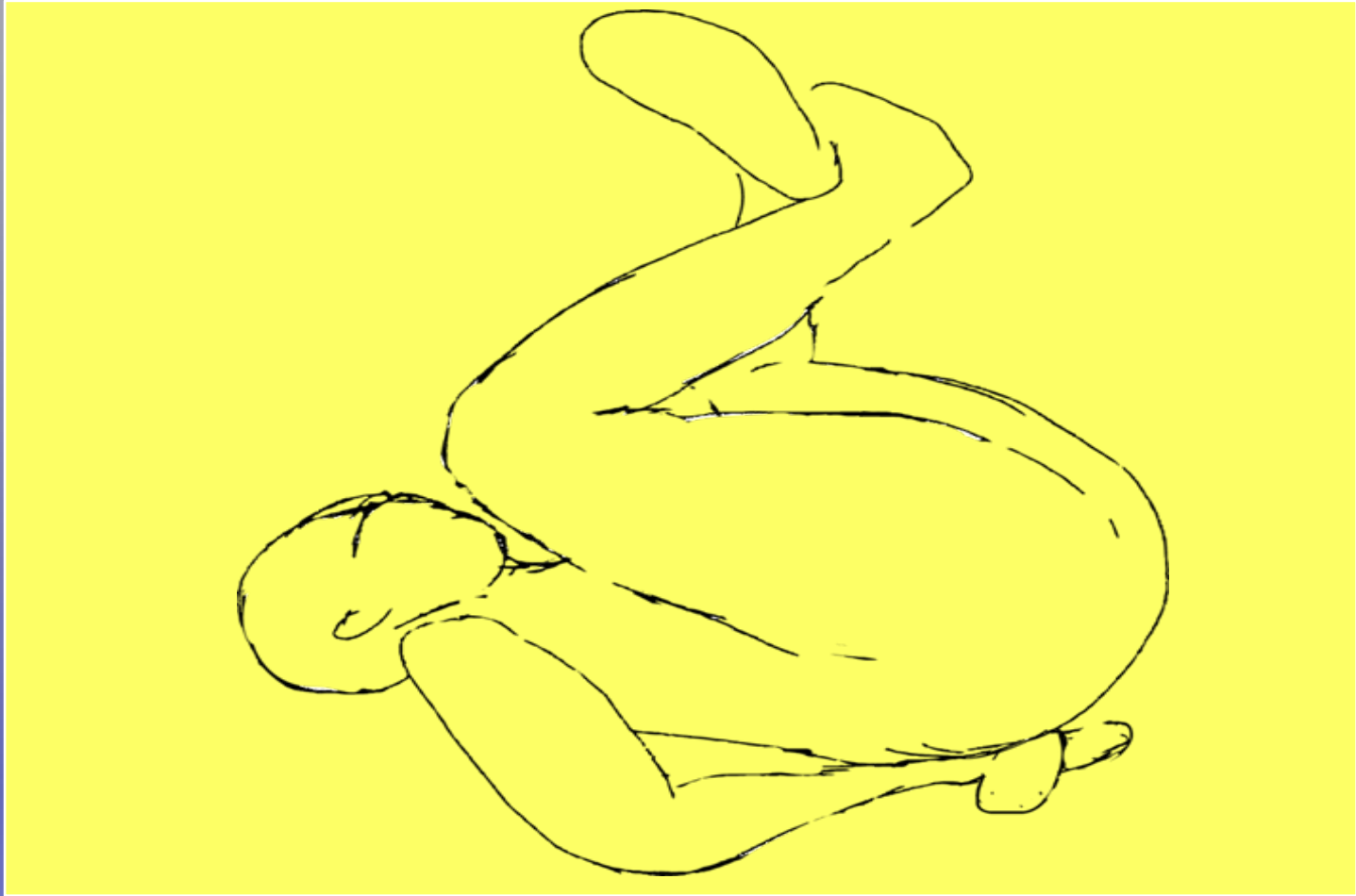
- Position Sarah as far down on the exam table as possible to allow maneuvering of the speculum once in place
- Hips over the edge of the exam table drops her pelvis and cervix forward and makes visualization easier

# Optimize Position

## Raise her buttocks...

- Have her place her hands in a fist under her own buttocks
- Lower the head of the table
- Place a lift under her buttocks

# "Cannon Ball" Or "Knees To Chest"



**She pulls her knees up and back**

# Mary 18 Year Old $G_0 P_0$

“I Am So Afraid to Have This Done!”

- Will this hurt?



# Outpatient Procedure Pain Relief Principles And Application

- Verbicaine
- Slow technique
- Oral sedation
- Tenaculum site local anesthetic
- Controversies
  - Pre-insertion NSAIDs
  - Pre-insertion misoprostol
- Paracervical and intracervical block

# Verbicaine

- Keep her talking!
- Calm, soothing vocal tone
- Slow, easy pace
- Utilize whatever works for the patient
  - Breathing techniques
  - Mindful meditation
  - Guided imagery



# Distraction



# Non-Steroidal Anti-inflammatory Drugs

## Cochrane review, 2015

- Tramadol and naproxen had some effect on reducing IUD insertion pain in specific groups
- Lidocaine 2% gel, misoprostol, and most NSAIDs did not help reduce pain
- **Conventional wisdom**
  - Rx naproxen sodium 550 mg or Ibuprofen 800 mg
  - Helps mainly with post-insertional cramping



# Difficult IUD Placements



# Kristin 29 year old G<sub>0</sub> In the office for a LNG IUD

- On DMPA for the last 3 years
- LEEP for CIN 3 at age 25; negative cytology since
- Tenaculum applied, but the clinician is unable to pass a metal sound

*What would you recommend?*

# Tenaculum

1. Change the amount of traction
2. Apply traction in different direction

*At what point would you recommend or offer a block?*

# Uterine Sound

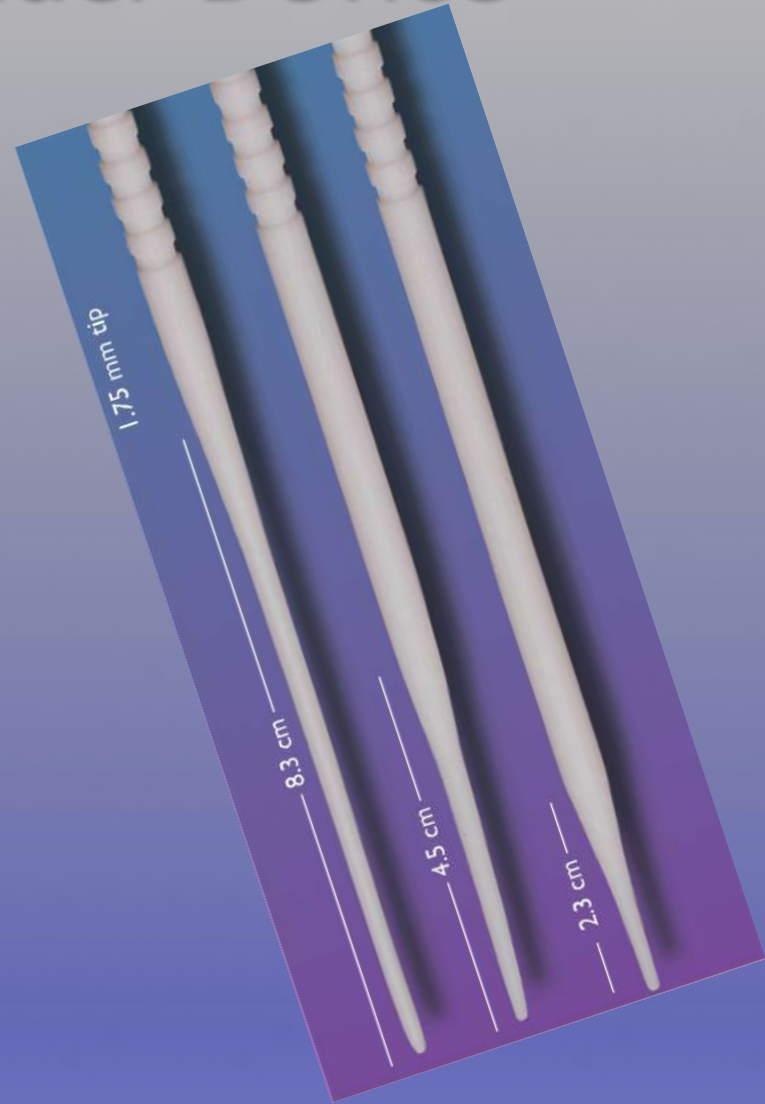
3. Gently hold the sound at the internal os and then wait --to allow the os to yield
4. Change the curvature of the sound (if metal)
5. Apply light pressure at various angles 360° and positions with the sound looking for an opening
6. Approach more anteriorly or posteriorly

*Have you used ultrasound guidance?*

# Still Unable To Pass Through the Internal Os

7. Use os finder device
8. Use a thinner sound (endometrial sampler)
9. Dilate internal os with small metal or plastic dilator
10. Try a shorter wider speculum
11. Reposition the tenaculum onto a different place

# Os Finder Device



**Cervical Os Finders (Disposable Box/25)**  
**Cervical Os Finder Set (Reusable Set of 3)**

# Dilators

- Dilate internal os with metal dilators
- #13 french
  - Divide by 3.16 to get mm (4.1 mm)
- Double ended
- Tapered ends ease passage through os



## “Failed First Attempt”

12. If unsuccessful, return after misoprostol 200 mg per vagina 10 hours and 4 hours prior to placement

13. Place paracervical or intracervical block at any point



# **Passed Through with Sound ...But not the Device!**

1. Choke up on the handle
2. Sterile lubricant on tip
3. Leave a (small) sound in the canal and come alongside the sound with the inserter

Gina G<sub>3</sub>P<sub>3</sub>

## “My Husband Can Feel The Strings ... And It Hurt Him!”

- More likely if they are cut too short <3cm or >5cm
- 3-4 cm length is ideal
- Tuck them around the posterior lip of the cervix
- Threads soften with time in most cases
- Last resort is to trim threads up above the level of the external os
  - Also indicated in cases of reproductive coercion

# Management of Complications



# Jennifer 39 year old G<sub>2</sub> P<sub>2</sub>

## "What Was That Pain?"

- 6 wk post-partum visit (NSVD)...wants copper IUD
- Lactating, no longer bleeding
- Exam: 8-9 week size uterus; firm, non-tender
- During sounding, moderate resistance at the internal os...then sounded to 14 cm.
- She complained of pain only during the initial part of the sounding procedure

• What would you do at this point?



# Uterine Perforation

- More likely to occur in relation to
  - Posterior uterine position
  - Post-partum placement, esp. in lactating women
  - Skill/experience of provider
- Typical location is midline at uterine fundus...if so, perforation often is asymptomatic, benign
- Suspect if sounding is much deeper

# Uterine Perforation Rates

## European Active IUD Surveillance Study

- Perforation: partial (20%); complete (80%)
- Perforation: 50% diagnosed first 2 months
- Adjusted risk ratio for LNG: 1.6 (95% CI 1.0-2.7)
  - Adjusted for age, breastfeeding and pregnancy

Heinemann K, et al. *Contraception*. 2015

# Uterine Perforation Rates

## European Active IUD Surveillance Study

- Perforation rates by 12 months
  - LNg: 1.4/1,000
  - Copper: 1.1/1,000
- Breastfeeding (BF) significantly increased risk
  - RR (BF vs non-BF): 6.1 (9.5% CI 3.9-9.6)
  - No difference between IUD types
- No serious injury to intraperitoneal or pelvic structures

Heinemann K, et al. *Contraception*. 2015



# Factors That Didn't Affect Perforation Risk

## European Active IUD Surveillance Study

- Cervical dilation at time of placement
- Use of anesthesia
- Ever cesarean section
- Last delivery by cesarean section

**Heinemann K, et al. *Contraception*. 2015**

# Management of Uterine Perforation

- If *before* insertion of IUD, stop procedure
- If *during* insertion of IUD, remove IUD
- Monitor for 30 min for excessive bleeding, pain
- Provide alternative method of contraception
- Can insert another device after next menses

# Prevention of Uterine Perforation

- Move slowly and intentionally
- Avoid momentum; moving quickly increases momentum
- Once you have passed through the internal os—*STOP and pause for a second.*
- Then intentionally proceed to the fundus in a controlled fashion

# Prevention of Perforation

You will feel resistance when the uterine sound touches the fundus

- This "fundal feel," or resistance should be a signal to STOP advancing the sound
- Never push beyond fundal resistance even if the flange is not yet at the external os

# Prevention of Uterine Perforation

- Careful assessment of uterine position
- Exert adequate traction with the tenaculum to straighten the axis of the uterus
- Careful hand positioning when using the sound and the inserter
- Consider using a plastic sound
- Avoid excessive force during sounding and placement
- Do not use the white stabilizing rod as a plunger during placement of a copper IUD

# Prevention of Uterine Perforation

- Place cervical block and dilate cervix if resistance is encountered
- Don't use inserter to sound; open IUD package only *after* sounding is completed

# Betsy 17 year old G<sub>0</sub>

- While having her LNg IUD placed, Betsy says, “Is this going to take much longer? I really need to go to the bathroom”
- What's going on here??

# Betsy 17 year old G<sub>0</sub>

- She recalls after the fact that she had a fainting spell after her HPV immunization
- She had told her PCP about this problem...heart auscultation and an ECG were normal.



# Vasovagal Response, Episode Or Attack

## AKA: Non-cardiogenic Syncope

- Mechanism
  - Starts with peripheral vasodilation
  - Bradycardia + drop in B/P
- More likely with
  - Pain with cervical manipulation
  - Previous episodes of vaso-vagal fainting
  - Dehydration or NPO

# Presyncopal Signs

- Facial pallor (distinct green hue)
- Yawning
- Pupillary dilatation
- Nervousness
- Diaphoresis
- Slurred or confused speech

# Presyncopal Symptoms

- Weakness/light-headedness
- Visual blurring/tunnel vision
- Nausea
- Feeling warm or cold
- Sudden need to go to the bathroom
- Tinnitus

# Vasovagal Prevention

- Good hydration (electrolyte/ sports drink)
- Eat before placement
- Prophylactically contract muscles if known history

# How to Abort a Vasovagal

- Isometric contractions of the extremities
- Intense gripping of the arm, hand, leg and foot muscles
- No need to bring the legs together or change position— just tense the muscles
- These contractions push blood back into the center of the body
- ....and abort the reflex

# Rosa 50 yo G<sub>3</sub> P<sub>3</sub>

## “I Can’t Feel The String”

- IUD inserted 8 years ago
- Remembers that it had a T shape, but not sure which type of IUD was inserted
- Hasn’t been able to feel the string for the past 2 months, but before that checked irregularly
- String is not present at the external cervical os

# Rosa 50 year old G<sub>3</sub>P<sub>3</sub>

- Clinical dilemmas
  - Determination of IUD location
  - Extraction of IUD without visible string

# IUD Without Strings

- What type of IUD is it?
- Does she desire pregnancy?
- Is she experiencing side effects?
- Does she want another method?
- Review the benefits and risks of removal



# Missing String...Possibilities

- IUD in-situ
  - String coiled in canal or endometrial cavity
  - String short, broken, or severed
- Unnoticed **expulsion**
- Intrauterine **pregnancy**

# Missing String...Possibilities

- Malpositioning of the IUD, following perforation
  - **Embedment** into the myometrium
  - **Translocation** into the abdomen or pelvis
- The perforation is not the problem; the abnormal position of the IUD is!

# Missing String: Expulsion

- Occurs in 2-10% IUD insertions within first year
- Risk of expulsion related to
  - Provider's skill at fundal placement
  - Age, parity, uterine configuration
  - Time since insertion (↑ within 6 mos)
  - Timing of insertion (menses, postpartum, post-abortion)

# Missing String: Expulsion

- Unnoticed expulsion may present with pregnancy
- Partial expulsion may present with
  - Pelvic pain, cramps, intermenstrual bleeding
  - IUD string longer than previously

# Missing String: Pregnancy With IUD

- Determine site of pregnancy (IUP or ectopic)
- If termination planned, await TAB to avoid triggering spontaneous abortion (SAB)
- If continuing IUP and strings are not visible, do not attempt removal
  - Increase surveillance for SAB, pre-term birth
  - No greater risk of birth defects, since IUD is outside of the amniotic sac

# Missing String: Other Possibilities

- Translocation

- Since copper IUD may cause more adhesions, must extract promptly via laparoscopy
- LNG-IUS is less reactive, but most experts recommend laparoscopic removal

# Missing String: Other Possibilities

- **In situ placement:** desires retention
  - Leave in place for remainder of IUD lifespan
  - Option: annual pelvic ultrasound *in lieu* of string check

# Missing String: Initial Management

- Ask Rosa whether removal or retention is desired
- Assess pregnancy status with menstrual history or UPT
  - Positive: locate and date pregnancy
  - Negative: may attempt extraction



# Missing String: Initial Management

1. Sweep string from canal
2. Pregnant? → perform office UPT
  - Positive: locate and date pregnancy
  - Negative: go to #3
3. Office ultrasound, if available
  - No IUD in situ: order KUB
  - IUD in situ: go to #4
4. Retention desired?
  - Yes: may continue use
  - No: attempt extraction

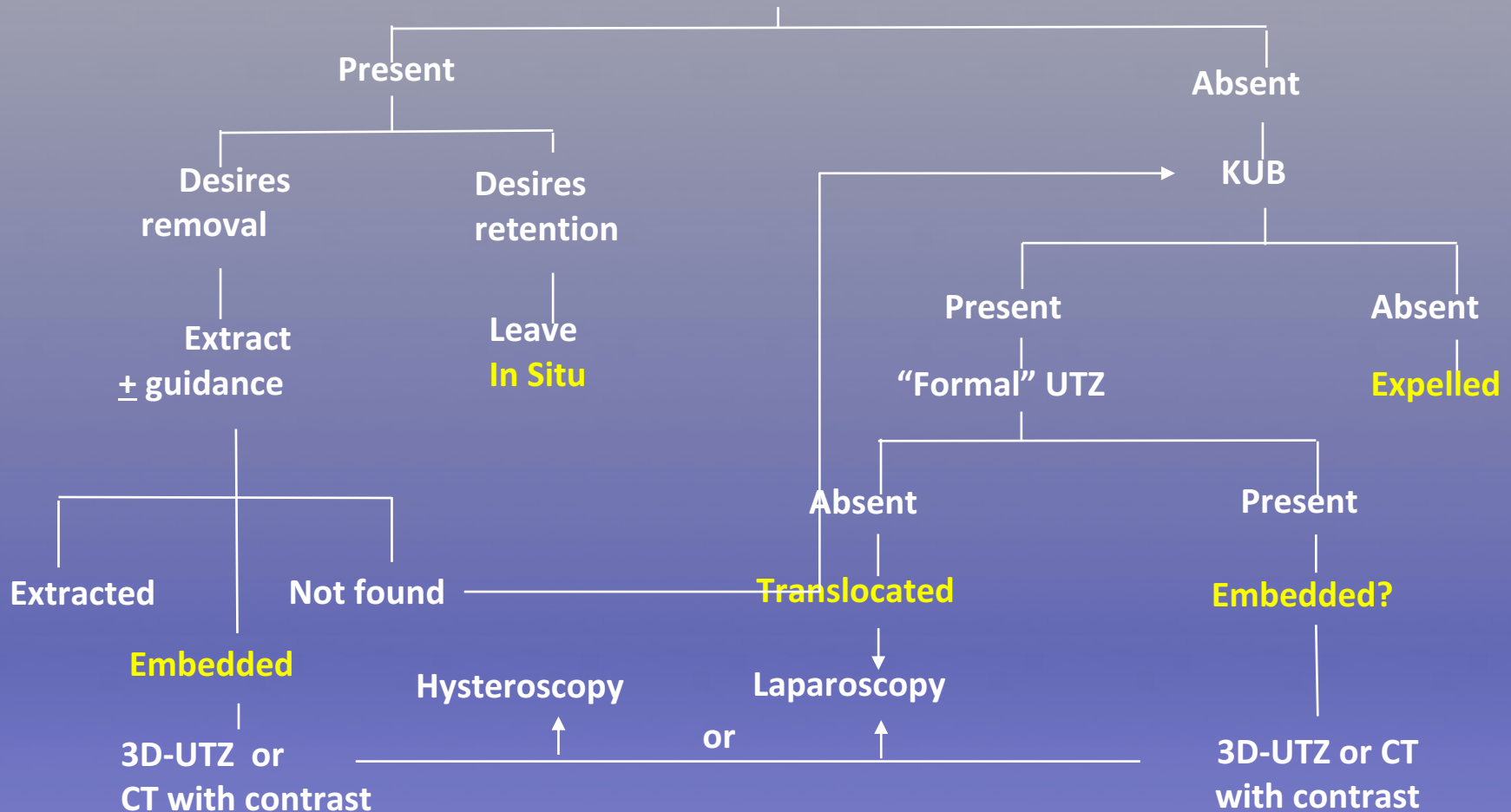
# Missing String: Ultrasound Guidance



Carrie Cwiak, MD, MPH

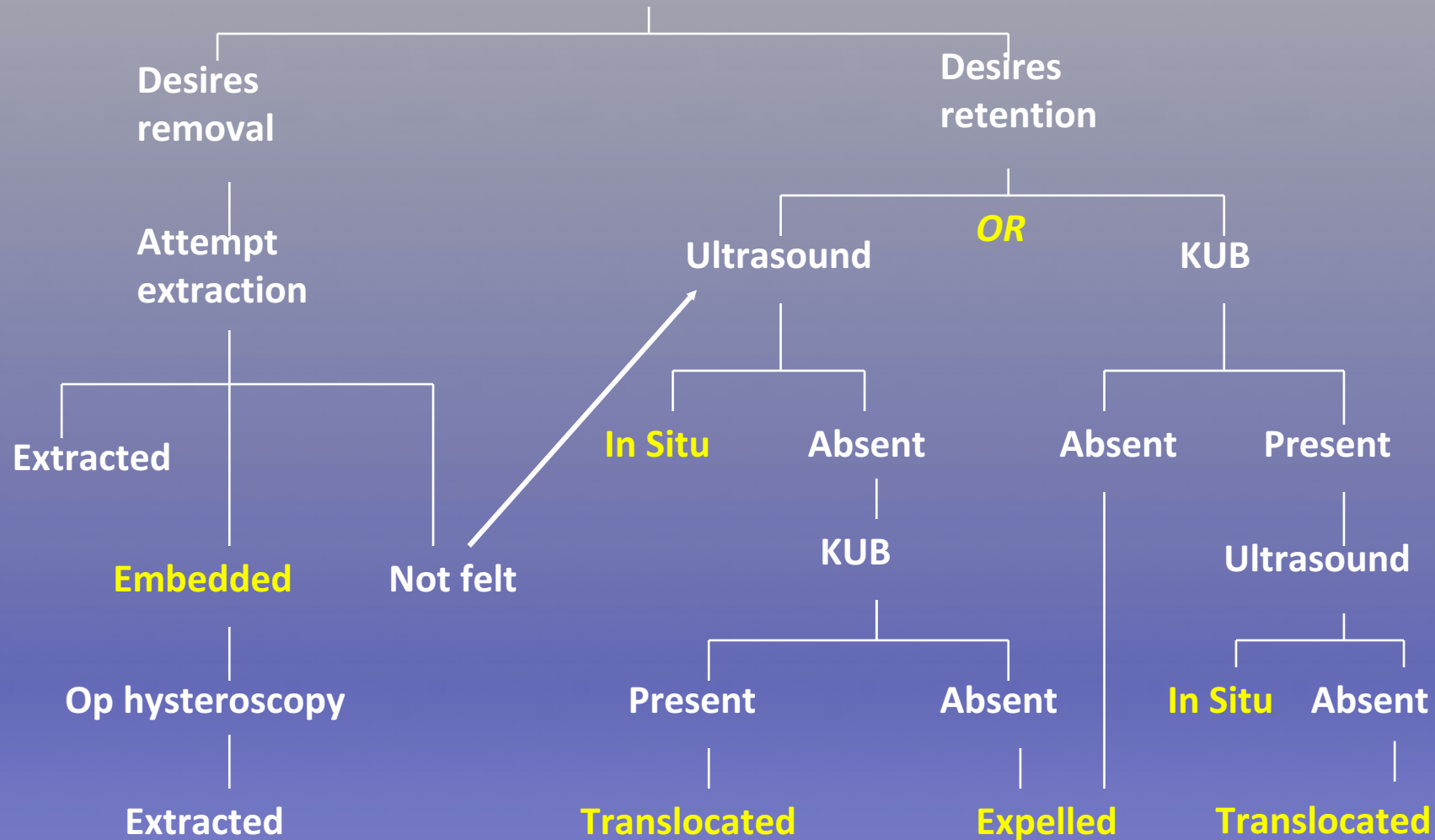
# Missing String: Office Ultrasound

- No IUD string in canal
- Pregnancy test negative
- Office ultrasound (UTZ)



# Missing String: No Office Ultrasound

- No IUD string in canal
- Pregnancy test negative

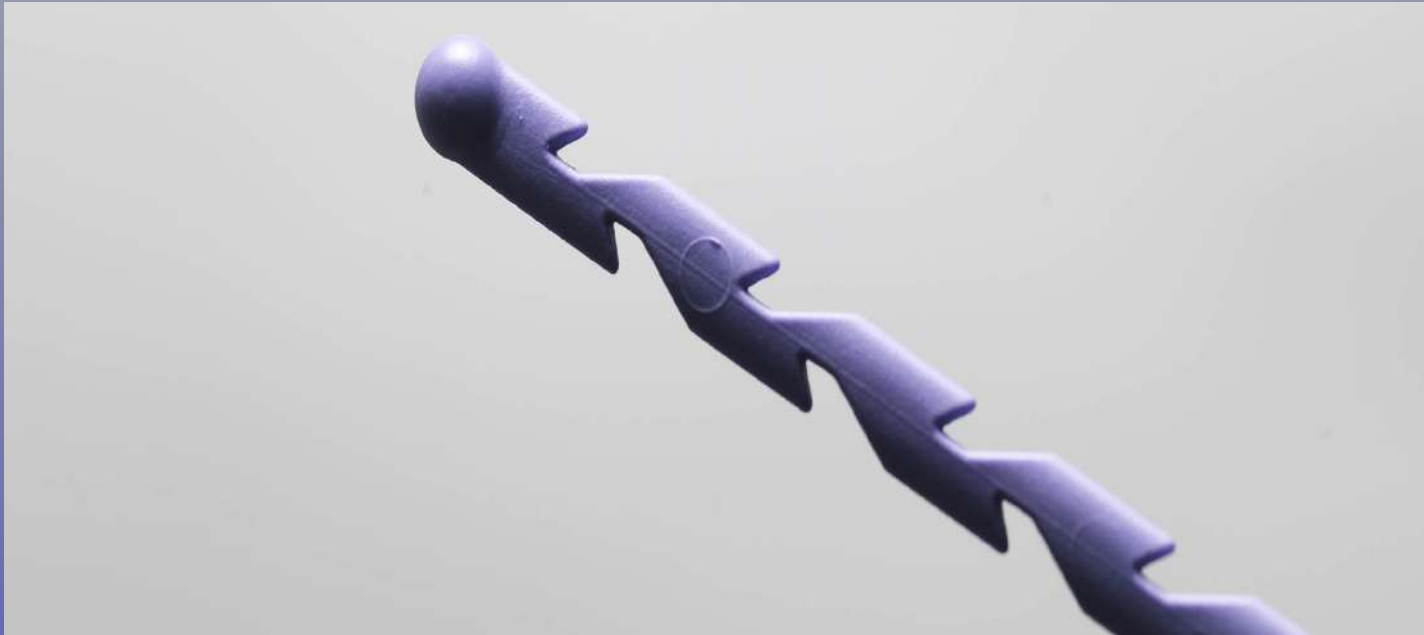


# Missing String: Desires Removal

## Extraction of IUD in-situ

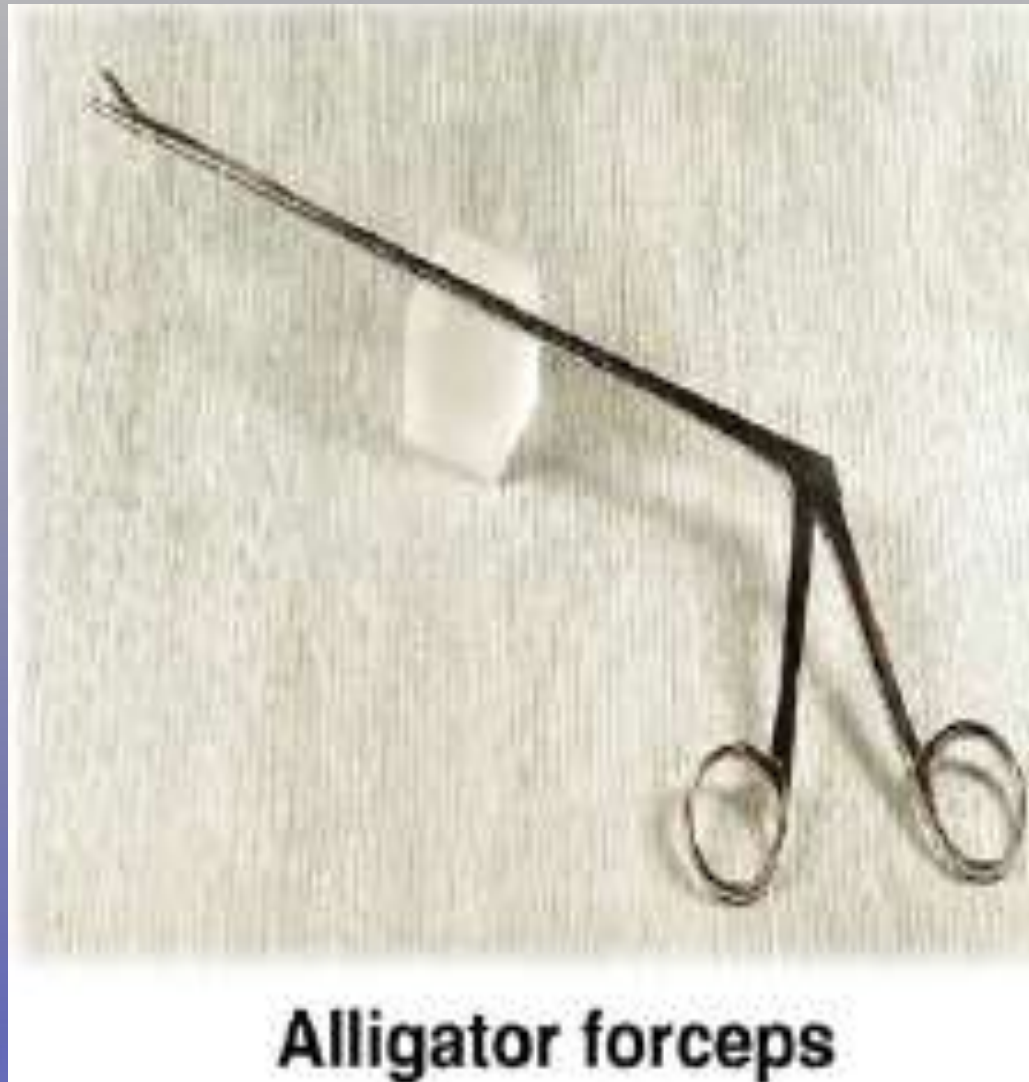
1. Consent for uterine instrumentation procedure
2. Bimanual exam
3. Probe for strings in cervical canal
4. Apply tenaculum
5. Administer cervical block
6. Choose extraction device
  - Emmett Thread Retriever
  - Patterson alligator forceps
  - Ring IUD: crochet hook or 3-5 mm suction curette

# Emmett Thread Retriever



# Thread Retriever





**Alligator forceps**

Fulcrum 1 cm from the tip of the device

Opened and closed completely within the uterine cavity

No cervical dilation necessary

**Prabhakaran S, Chuang A, *Contraception* 2011.**

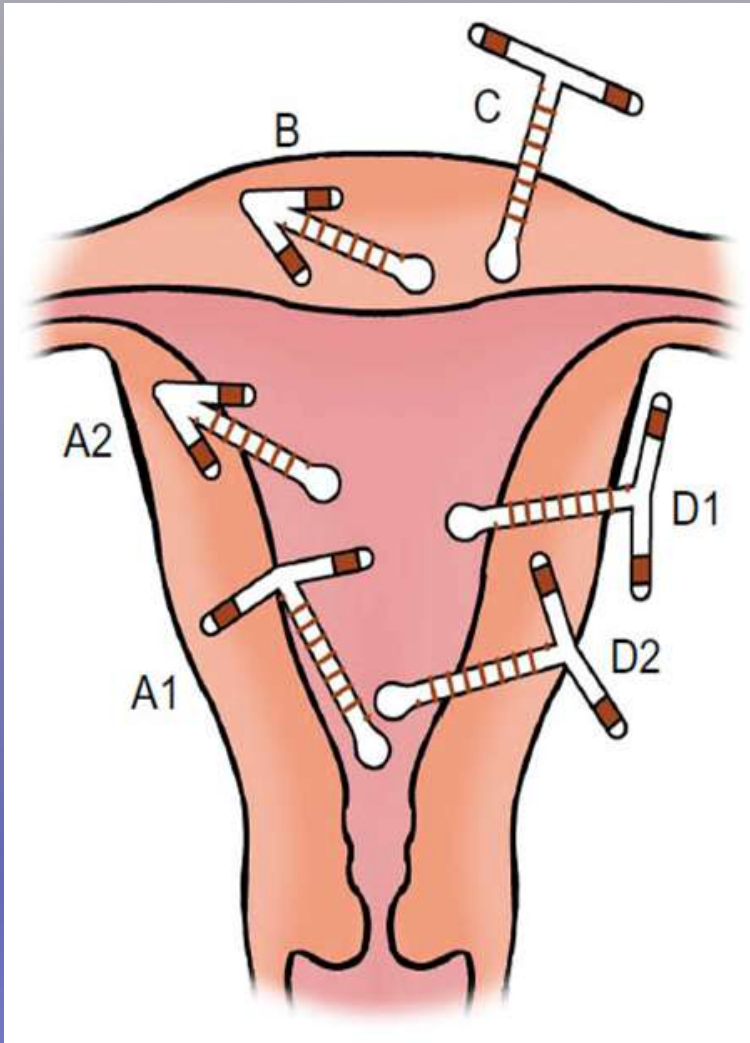


# Missing String: Desires Removal

## Extraction of IUD in-situ

7. Intrauterine exploration for a T-shaped IUD
  - Real-time ultrasound guidance may help, if available
  - Gently open/ close/quarter turn forceps at progressive depths until “purchase” of stem or arm
8. Maneuver hook along anterior, then posterior, uterine wall from fundus to canal
9. If embedment suspected, consider evaluation with 3-D ultrasound or pelvic CT with contrast
  - Extract via operative hysteroscopy or laparoscopy

# Why Do CT or 3-D Ultrasound?



**Answer:**  
To decide whether to  
start the extraction with  
laparoscopy or  
hysteroscopy!

# Missing String: Desires Removal

## Additional measures, as indicated

- Pain management
  - Cervical block + oral NSAIDs for pain
  - Conscious sedation
- Cervical dilation
  - Osmotic dilator
  - Rigid dilators
  - Misoprostol *may* facilitate IUD extraction

## Sharonda G<sub>3</sub> P<sub>2</sub>

- Had a Cu IUD placed 6 months ago
- LMP 6 weeks ago
- Breast tenderness, nausea
- No pain or bleeding
- Positive pregnancy test
- Wants to continue the pregnancy

# Pregnancy with IUD In Situ

- Determine if IUP or ectopic
- If intrauterine pregnancy confirmed
  - Counsel Sharonda on risks
  - Removal decreases risk of spontaneous abortion, premature delivery
  - If Sharonda consents:
    - Remove IUD if strings visible
    - If she were planning termination: could remove IUD or await procedure

# If Strings Not Visible

## Retention of IUD During Pregnancy

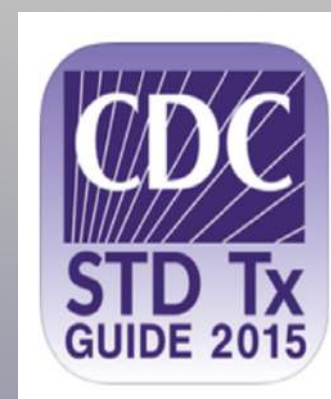
- Increase surveillance for SAB, pre-term birth
- No greater risk of birth defects (extra-amniotic)

# Donna 22 year old G<sub>0</sub>

## Pelvic Infection with IUD in Place

- Skyla<sup>®</sup> placement done 6 months ago
- Complains of midline pelvic pain for the past 4 days
- Discloses unprotected sex with new partner
- Exam shows
  - Afebrile; normal vital signs
  - 3/4 bilateral lower quadrant tenderness
  - 3/4 uterine corpus tenderness + bilateral adnexal tenderness
- Wants to keep IUD

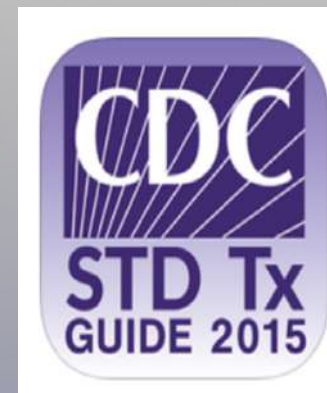
# PID in an IUD User



- Treat PID according to the CDC STD Treatment Guidelines
- Provide management for STDs
- Counsel about condom use
- The IUD does not need to be removed at time of treatment

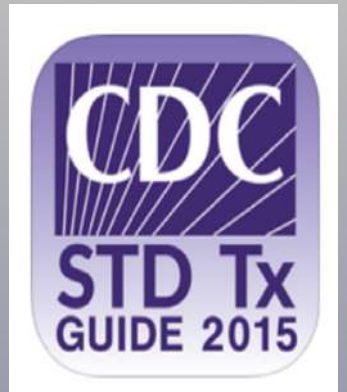


# PID in an IUD User



- Reassess in 48–72 hours
  - If no improvement, continue antibiotics and consider removal of the IUD
- If removal requested, do so after antibiotics started to avoid the risk of bacterial spread
- If the IUD is removed, consider ECPs if appropriate

# STD Treatment Guidelines (p82)



Treatment outcomes did not generally differ between women with PID who retained the IUD and those who had the IUD removed

# Actinomyces-Like Organisms (ALO)

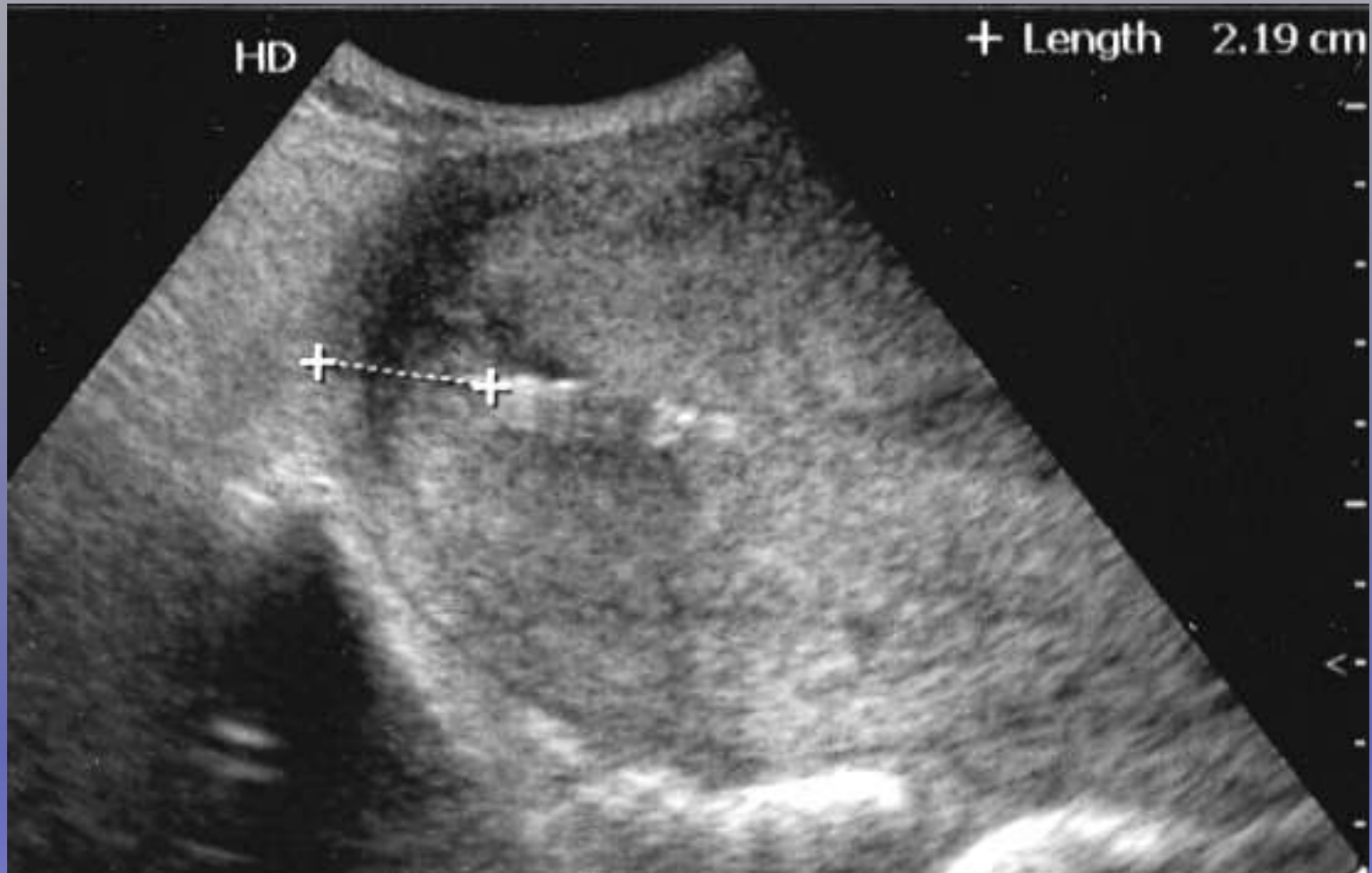


- *Actinomyces israelii* has characteristics of both bacteria and fungus; part of GI flora
- May asymptotically colonize the frame of the IUD, which in itself is not dangerous
- Very small percentage of women with IUD + actinomyces will develop *pelvic actinomycosis*
  - Presentation is similar to severe PID
- Women with ALO on Pap smear
  - Should be examined to exclude PID
  - If none, don't treat actinomyces or remove IUD

# Postpartum IUD Placement



# Post-placental Mirena Insertion



# Postpartum IUC Placement

- Pros

- One procedure (vs delivery and delayed placement)
- Protection if patient doesn't return for visit
- Cost saving to health system, including adolescents

- Cons

- High rate of expulsion (15-20%) vs. delayed placement
- Delivery room challenges, until system established
- Pushback from hospital administration if not line-item reimbursement from payer

# How Is Postpartum IUD Insertion Done?

- IUD placement after **vaginal delivery**
  - Insert IUD within 15 minutes of placental delivery
  - Use sponge forceps on cervical lip; 2<sup>nd</sup> forceps to place IUD at uterine fundus
  - Cut string flush with external cervical os
- IUD placement at **caesarean section**
  - After delivery of newborn and placental removal...
  - Manually place IUD at fundus; tuck strings thru cervix
  - Repair uterus and complete c-section
  - Trim strings at postpartum visit



# Excellent Time for IUD Insertion- Post Abortion

- Of 1.3 million abortions/yr in US, half are repeat
- 40% of women scheduled for delayed IUC insertion did not return for the procedure
- 83% ovulate with the first cycle after the procedure
- Immediate post-abortion IUC insertion is a safe, effective, practical, and underutilized intervention
- Can reduce repeat unintended pregnancy



# Why Do a Post-Abortion IUC Placement?

- **Advantages**

- One procedure rather than two
- Less or no pain with insertion, since cervix is dilated
- Immediate protection; avoid pregnancy risk if 2<sup>nd</sup> visit is delayed or doesn't occur

- **Disadvantages**

- Slightly higher expulsion rate
  - 2<sup>nd</sup> tri TAB: 3-10%, 1<sup>st</sup> trimester TAB: 5-6%
  - No TAB: 1-4%
- Is the decision to use an IUC biased while pregnant?

Bednarek P, et al N Engl J Med 2011; 364:2208-2217

Cremer KM, et al Contraception 2011; 83:522-527

# Post Abortion IUD Insertion

- No difference in complications for immediate versus delayed insertion of an IUC after abortion
- There were no differences in safety or expulsions after insertion of an LNG-IUC compared to Cu-IUC
- Expulsion greater when an IUC was inserted following a 2<sup>nd</sup> trimester vs. a 1<sup>st</sup> trimester abortion
- US Medical Eligibility Criteria 2016
  - First trimester abortion: US MEC-1

# References

- American College of Obstetricians and Gynecologists. Long-acting reversible contraception: implants and intrauterine devices. Practice Bulletin no. 121, July 2011. Obstet Gynecol 2011;118:184-96. Reaffirmed 2013
- Bahamondes, M. V., Espejo-Arce, X., & Bahamondes, L. (2015). Effect of vaginal administration of misoprostol before intrauterine contraceptive insertion following previous insertion failure: a double blind RCT. *Hum Reprod*, 30(8), 1861-1866.
- Bates, C, Carroll, N and Potter, J. The challenging pelvic examination. JGIM. (2011) 650 – 657.
- Caliskan, E., Ozturk, N., Dilbaz, B. O., & Dilbaz, S. (2003). Analysis of risk factors associated with uterine perforation by intrauterine devices. *Eur J Contracept Reprod Health Care*, 8(3), 150-155.

# References

- Cowman, W. L., Hansen, J. M., Hardy-Fairbanks, A. J., & Stockdale, C. K. (2012). Vaginal misoprostol aids in difficult intrauterine contraceptive removal: a report of three cases. *Contraception*, 86(3), 281-284.
- Darney PD. Etonogestrel contraceptive implant [www.uptodate.com](http://www.uptodate.com)
- Dean G, Goldberg AB. Management of problems related to intrauterine contraception. [www.uptodate.com](http://www.uptodate.com)
- Dermish, A. I., Turok, D. K., Jacobson, J. C., Flores, M. E., McFadden, M., & Burke, K. (2013). Failed IUD insertions in community practice: an under-recognized problem? *Contraception*, 87(2), 182-186.

# References

- Dermish A, Turok DK, Jacobson J, Murphy PA, Saltzman HM, Sanders JN., (2016) Evaluation of an intervention designed to improve the management of difficult IUD insertions by advanced practice clinicians. *Contraception*. Jun;93(6):533-8.
- Dijkhuizen K, Dekkers OM, Holleboom CA, et al. Vaginal misoprostol prior to insertion of an intrauterine device: a randomized controlled trial. *Hum Reprod* 2011;26:323-9.
- Edelman AB, et al. (2011) Effects of prophylactic misoprostol administration prior to intrauterine device insertion in nulliparous women. *Contraception*. *Contraception*. Sep;84(3):234-9

# References

- Grubb, B. P. (2005). Clinical practice. Neurocardiogenic syncope. *N Engl J Med*, 352(10), 1004-1010.
- Guney M, Oral B, Mungan T. Efficacy of intrauterine lidocaine for removal of a “lost” intrauterine device: A randomized, controlled trial. *Obstet Gynecol* 2006;108:119-23.
- Hagemann, C., Heinemann, K., Moehner, S., Reed, S., Unwanted pregnancies among women using intrauterine devices: final results from the Euras-IUD 5-Year Study. *Contraception*, 94(4), 416.

# References

- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Comparative contraceptive effectiveness of levonorgestrel-releasing and copper intrauterine devices: the European Active Surveillance Study for Intrauterine Devices. *Contraception*, 91(4), 280-283.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Risk of uterine perforation with levonorgestrel-releasing and copper intrauterine devices in the European Active Surveillance Study on Intrauterine Devices. *Contraception*, 91(4), 274-279.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2016). Intrauterine devices and the risk of uterine perforations: final results from the EURAS-IUD 5 years study. *Contraception*, 94(4), 387.

# References

- Li YT, Kuo TC, Kuan LC, et al. Cervical softening with vaginal misoprostol before intrauterine device insertion. *Int J Gynaecol Obstet* 2005;89:67-8.
- Lopez, L. M., Bernholc, A., Zeng, Y., Allen, R. H., Bartz, D., O'Brien, P. A., & Hubacher, D. (2015). Interventions for pain with intrauterine device insertion. *Cochrane Database Syst Rev*(7),
- Kaislasuo, J., Suhonen, S., Gissler, M., Lahteenmaki, P., & Heikinheimo, O. (2012). Intrauterine contraception: incidence and factors associated with uterine perforation--a population-based study. *Hum Reprod*, 27(9), 2658-2663.
- Mansour D. The benefits and risks of using a levonorgestrel-releasing intrauterine system for contraception. *Contraception* 2012;85:224-34.



# References

- Reed, S., Heinemann, K. (2016). Events associated with nexplanon insertion and removal: interim results from the nexplanon observational risk assessment study (NORA). *Contraception*, 94(4), 409.
- Marchi NM, Castro S, Hidalgo M, et al. Management of missing strings in users of intrauterine contraceptives. *Contraception* 2012;86:354-8.
- NEXPLANON® (etonogestrel implant) Full prescribing information. Merck Revised: 07/2014
- Prabhakaran, S., & Chuang, A. (2011). In-office retrieval of intrauterine contraceptive devices with missing strings. *Contraception*, 83(2), 102-106.

# References

- Renner, R. M., Nichols, M. D., Jensen, J. T., Li, H., & Edelman, A. B. (2012). Paracervical block for pain control in first-trimester surgical abortion: a randomized controlled trial. *Obstet Gynecol*, 119(5), 1030-1037.
- Renner, R. M., Edelman, A. B., Nichols, M. D., Jensen, J. T., Lim, J. Y., & Bednarek, P. H. (2016). Refining paracervical block techniques for pain control in first trimester surgical abortion: a randomized controlled noninferiority trial. *Contraception*.
- Saav I, Aronsson A, Marions L, et al. Cervical priming with sublingual misoprostol prior to insertion of an intrauterine device in nulliparous women: a randomized controlled trial. *Hum Reprod* 2007;22:2647-52.

# References

- Swenson C, Turok DK, Ward K, et al. Self-administered misoprostol or placebo before intrauterine device insertion in nulliparous women: a randomized controlled trial. *Obstet Gynecol* 2012;120: 341-7.
- Swenson, C., Royer, P. A., Turok, D. K., Jacobson, J. C., Amaral, G., & Sanders, J. N. (2014). Removal of the LNG IUD when strings are not visible: a case series. *Contraception*, 90(3), 288-290.
- Turok, D. K., Gurtcheff, S. E., Gibson, K., Handley, E., Simonsen, S., & Murphy, P. A. (2010). Operative management of intrauterine device complications: a case series report. *Contraception*, 82(4), 354-357.

# References

- Vickery Z, Madden T. Difficult intrauterine contraception insertion in a nulligravid patient. *Obstet Gynecol* 2011;117:391-5.
- Ward, K., Jacobson, J. C., Turok, D. K., & Murphy, P. A. (2011). A survey of provider experience with misoprostol to facilitate intrauterine device insertion in nulliparous women. *Contraception*, 84(6), 594-599.

# References: Counseling

- ACOG Committee Opinion: Motivational Interviewing: A Tool for behavior Change; 423; Jan 2009.
- Borrero, S., Nikolajski, C., Steinberg, J. R., Freedman, L., Akers, A. Y., Ibrahim, S., & Schwarz, E. B. (2015). "It just happens": a qualitative study exploring low-income women's perspectives on pregnancy intention and planning. *Contraception*, 91(2), 150-156.
- Dehlendorf C et al. Preferences for decision-making about contraception and general health care among reproductive age women at an abortion clinic. *Patient Educ Couns*. 2010;81:343–348
- Dehlendorf C et al. Women's preferences for contraceptive counseling and decision making. *Contraception*. 2013 Aug;88(2):250-6
- Gold Melanie et al. Motivational Interviewing Strategies to facilitate Adolescent Behavior Change. *Adoles Health Update*. 2007;20(1):1-7.

# References: Counseling

- Kennedy, S., et al. (2014). A qualitative study of pregnancy intention and the use of contraception among homeless women with children. *J Health Care Poor Underserved*, 25(2), 757-770.
- Kols AJ, Sherman JE, Piotrow PT. Ethical foundations of client-centered care in family planning. *J Womens Health*. 1999 Apr;8(3):303-12.
- Langston AM, Rosario L, Westhoff CL. Structured contraceptive counseling — a randomized controlled trial. *Patient Educ Couns*. 2010;81:362–367.
- Lopez LM et al. Theory-based interventions for contraception. *Cochrane Database Syst Rev*. 2009 Jan 21;(1):CD007249.
- Madden T, et al. Structured contraceptive counseling provided by the Contraceptive CHOICE Project. *Contraception*. 2013 August; 88(2);243-249.

# References: Counseling

- Petersen R, et al. Applying motivational interviewing to contraceptive counseling: ESP for clinicians. *Contraception*; 69(3):213-7.
- Rinehart W, Rudy S, Drennan M. GATHER guide to counseling. *Popul Rep J*. 1998;48:1–32.
- Rollnick S, et al. *Motivational Interviewing in Health Care*. New York: Guilford Press; 2008
- Secura GM, Allsworth JE, Madden T, Mullersman JL, Peipert JF. The Contraceptive CHOICE Project: reducing barriers to long-acting reversible contraception. *Am J Ob Gyn* 2010;203(115):e111–e117.
- Shih, G., Dube, K., & Dehlendorf, C. (2013). "We never thought of a vasectomy": a qualitative study of men and women's counseling around sterilization. *Contraception*, 88(3), 376-381.

# References: Counseling

- Woodsong, C., Shedlin, M., & Koo, H. (2004). The 'natural' body, God and contraceptive use in the southeastern United States. *Cult Health Sex*, 6(1), 61-78.
- Yee, L., & Simon, M. (2011). Urban minority women's perceptions of and preferences for postpartum contraceptive counseling. *J Midwifery Womens Health*, 56(1), 54-60.



# Outline

1. Efficient practices for same-day placement of IUDs
2. IUD counseling tips, including optimal language during client counseling
3. Nuances of informed consent...terms to explain to possibility of...
4. Difficult placements
  - Kristin: Negotiating the challenging internal os
  - Sarah: Obese patients
  - Rachel: Patients with fibroids

# Outline

5. Outpatient procedure pain relief principles and application (Mary: an anxious patient)

- Verbicaine
- Distraction
- Slow technique
- Oral analgesia and sedation
- Tenaculum site local anesthetic
- Paracervical and intracervical block

# Outline

6. Responding to IUD complaints and side effects
  - Partner feels the string
  - Managing bleeding irregularities
7. Management of complications
  - Missing strings
  - Perforation, translocation, and embedment
  - Expulsion
  - Pregnancy
  - Infection
8. Techniques and controversies postpartum IUD placement
9. Encounter coding for IUD services
10. Advanced-level case studies

# Title Slide:

# Same Day Placement

# Barriers to Same Day Placement

- Provider(s) not trained or confident of abilities
- Provider misconceptions
- Office practice logistics
- Payment misconceptions

# Provider Misconceptions

- “GC and CT screening test results are necessary”
  - Routine screening not indicated
  - If indicated, can be done at time of placement
- “IUDs can be placed only with menses”
  - Anytime if reasonably certain that not pregnant
- “Adolescents or women with multiple sexual partners are not candidates for IUD”

# Office Practice Logistics

- “Placement adds too much time to a scheduled visit”
  - Adds no more than 5-10 minutes if each exam room is well stocked and the staff is prepared
- “Placement only at scheduled placement visits”
  - Any clinic visit is a potential placement visit
    - Well woman visit
    - Post-partum visits
    - Pregnancy test visits
    - Emergency contraception visit

# Payment Barriers

- “IUD can be placed only after delivery from a PBM”
  - Keep extra insertion kits in the office
  - Replenish with the kit delivered from PBM
- “Method counseling and placement cannot be billed on the same date of service”
  - It definitely can be done...see ACOG and UCSF “Beyond the Pill” billing guides



# Title Slide

## IUD Counseling Tips

# Choosing Which IUD

| Brand Name                                     | Skyla®      | Kyleena®        | Mirena®          | Liletta®                                |
|--|-------------|-----------------|------------------|---|
| LNG content (mg in reservoir)                  | 13.5        | 19.5            | 52               | 52                                      |
| Release rate (mcg/24 hrs) --<br>at end of life | 14<br><br>5 | 17.5<br><br>7.4 | 20<br><br>+/- 10 | 19.5<br>17, 14.8,<br>12.9,<br>11.3, 9.8 |
| Max duration, years                            | 3           | 5               | 5 (7)            | 3 (5-7)                                 |
| T-frame, mm                                    | 28 x 30     | 28 x 30         | 32 x 32          | 32 x 32                                 |
| Insertion tube diameter                        | 3.80        | 3.80            | 4.40             | 4.80                                    |
| String color                                   | Brown       | Blue            | Brown            | Blue                                    |
| Silver ring                                    | Yes         | Yes             | No               | No                                      |

# Particular Characteristics Of IUDs

- Do you have a sense of what is important to you about your method?
- Do you have a sense of what you are looking for in a contraceptive method?

# Elicit Her Attitudes About

- Effectiveness
- Hormones
- Menstrual cycle and bleeding profile
- Length of use
- Control over removal
- Object in her body
- Return to fertility
- Non-contraceptive benefits
- Side effects

# Re-phrasing

- “So I hear you saying ...(you really like the idea of using a method without hormones) do I have that right?”
- “It sounds like....(it’s super important to you have a method that you can rely on) is that what you mean?”

# Alternates

- “Many of my patients say that they worry about weight gain with birth control is that what you mean?”
- “Wow, so you feel pretty strong about avoiding the side effects you had from the pill and the shot is that accurate?”

# Limit the Amount of Information

- Humans do not integrate large amounts of information
- More information = less retention
- Focus on her specific needs and knowledge gaps
- Give information in response to her questions or in a dialogue

# Information Sandwich

One piece of information with a question on each side:

- How would that be for you?
- Knowing that how would it be for you...?
- Has it ever happened before?
- How did you manage it?
- Do you have a sense of how you would manage it?



# Language: Don't Say LARC

Use the words “long acting” ONLY if that’s what she said she is looking for

- Top tier
- One of the most effective methods
- Cadillac, Mercedes, BMW...
- Highly effective method

# Language for IUDs

“This IUD is good for *up to* \_\_\_\_\_ years but if you want to get pregnant before then or you would like it out for any reason, come in, we will take it out for you and your ability to get pregnant will return *to whatever is normal for you immediately.*”

12, 10, 7, 6, 5, 3

# Teach Back

Ask patient to restate important messages in her or his own words

Take it on yourself:

“We went over a ton of information! Just so I’m sure that I’ve been clear, can you tell me what you will do to decrease your bleeding with your period once you have the copper IUD?”

# Responding to “Unfounded” Concerns

**“That’s too bad your friend had that experience. I haven’t heard of that before, and I can tell you it definitely doesn’t happen frequently.”**

# Try NOT to Disagree

- Whenever possible, find something in what she is saying to agree with and then add your scientific or medical information.
- “Yes! .... and...” Instead of “No” or “But”

# Find the “Yes”

## Rather than...

- “No, that’s just an example of good old “Dr. Google” that’s not true at all!”

## Try...

- “It’s great you took the initiative to look this up on your own! I can see you’re really interested in taking care of yourself” “I have a great resource for you that I think you will love...” (Bedsider.org)

# Amenorrhea with LNG IUD

## Don't...

- Assume you know why she objects to amenorrhea
- Ask her “why”

## Do...

- Ask what about not getting her period is concerning to her
- Let her know many women feel that way

# Use an information sandwich

Question—Information—Question

Or: Question—Rephrase—Information—Question



Meena 29 G1P1

“What is it about not getting your period that is concerning to you?”

“I would always worry that I might be pregnant”

“I can see that it’s very important to you not to get pregnant until you are ready”

“Many of my patients like to get their period every month because they feel like it lets them know they aren’t pregnant”

# Meena 29 G1P1

“Interestingly many women still bleed in the beginning of a pregnancy...”

“Pregnancy tests at the 99 cent store are plentiful and can be very reassuring!”

“If a woman switches from the pill to an IUD her chance of unintended pregnancy is reduced from 90 in 1000 to  $<2$  in 1000”

Natural  
Frequencies



“If 100 women have unprotected sex for a year, 85 of them will get pregnant as opposed to none or maybe one out of 100 using a hormonal IUD”

Not:  
“<1 % failure”



Kristal 22 G2P1

“My mom said it’s not healthy not to  
get my period”

“Your mother is completely right!.... when you are not on  
contraceptive hormones it is important to get you period every  
month, it’s great that you know that”

“I’m so glad you know that when you are not on contraceptive  
hormones and you miss your period you need to come in so we  
can see what’s up!”

Kristal 22 G2P1

“My mom said it’s not healthy not to  
get my period”

“I wish all of my patients knew that if they miss their period and they aren’t on contraceptive hormones it could mean something is wrong!”

... “Interestingly, if a woman *is* using contraceptive hormones it keeps her uterus very healthy and thin. It actually prevents cancer of the uterus” (Show a picture)

# Ask a question

“Knowing that, how would it be for you not getting periods?”

Title Slide

# Nuances of Informed Consent



# Informed Consent

- Expulsion
- Infection
- Perforation
- Method failure (pregnancy)

# Difficult or Challenging Placements

**Kristin: Negotiating the challenging internal os**

**Sarah: Obese patients**

**Rachael: Patients with fibroids**

# Kristin 23 year old G<sub>0</sub>

- On DMPA for the last 3 years
- Prior LEEP age 25

- Audience writes tips

# Tenaculum

1. Change the amount of traction
2. Apply traction in different direction

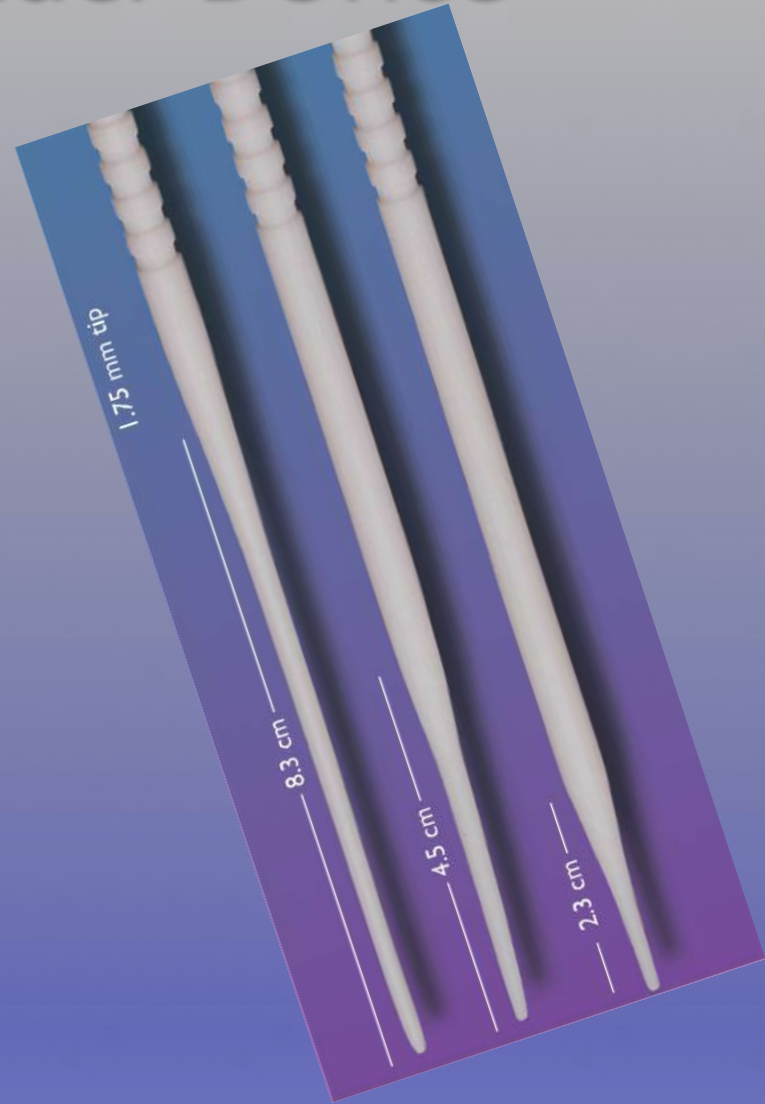
# Uterine Sound

3. Gently hold the sound at the internal os and then wait --to allow the os to yield
4. Change the curvature of the sound (if metal)
5. Apply light pressure at various angles 360° and positions with the sound looking for an opening
6. Approach more anteriorly or posteriorly

## Still Unable To Pass Through the Internal Os

7. Use os finder device
8. Use a thinner sound (endometrial sampler)
9. Dilate internal os with small metal or plastic dilator
10. Try a shorter wider speculum
11. Reposition the tenaculum onto a different place

# Os Finder Device



**Cervical Os Finders (Disposable Box/25)**  
**Cervical Os Finder Set (Reusable Set of 3)**



# Dilators

- Dilate internal os with metal dilators
- #13 french
  - Divide by 3.16 to get mm (4.1 mm)
- Double ended
- Tapered ends ease passage through os



## “Failed First Attempt”

12. If unsuccessful, return after misoprostol 200 mg per vagina 10 hours and 4 hours prior to placement

13. Place paracervical or intracervical block at any point

# Sarah 30 year old G<sub>3</sub>P<sub>3</sub> BMI 41

- Sarah is in the office for a Cu IUD placement
- Attempts to place the tenaculum are unsuccessful as the cervix keeps slipping out of view

# The Elusive Cervix

- Significant uterine flexion causes cervix to be anterior or posterior
- Close partially; retract slightly; redirect
- Extreme retroversion of uterus can cause cervix to be lodged behind symphysis pubis
- Exert more pressure on posterior fornix to manipulate it into view

# Obesity: Bimanual Exam

- It may be difficult or impossible to palpate the uterus or ovaries
- Place the abdominal hand UNDER the panniculus to decrease amount of adipose tissue between the hand and the uterus
- Pelvic sonogram indicated if sounding difficult

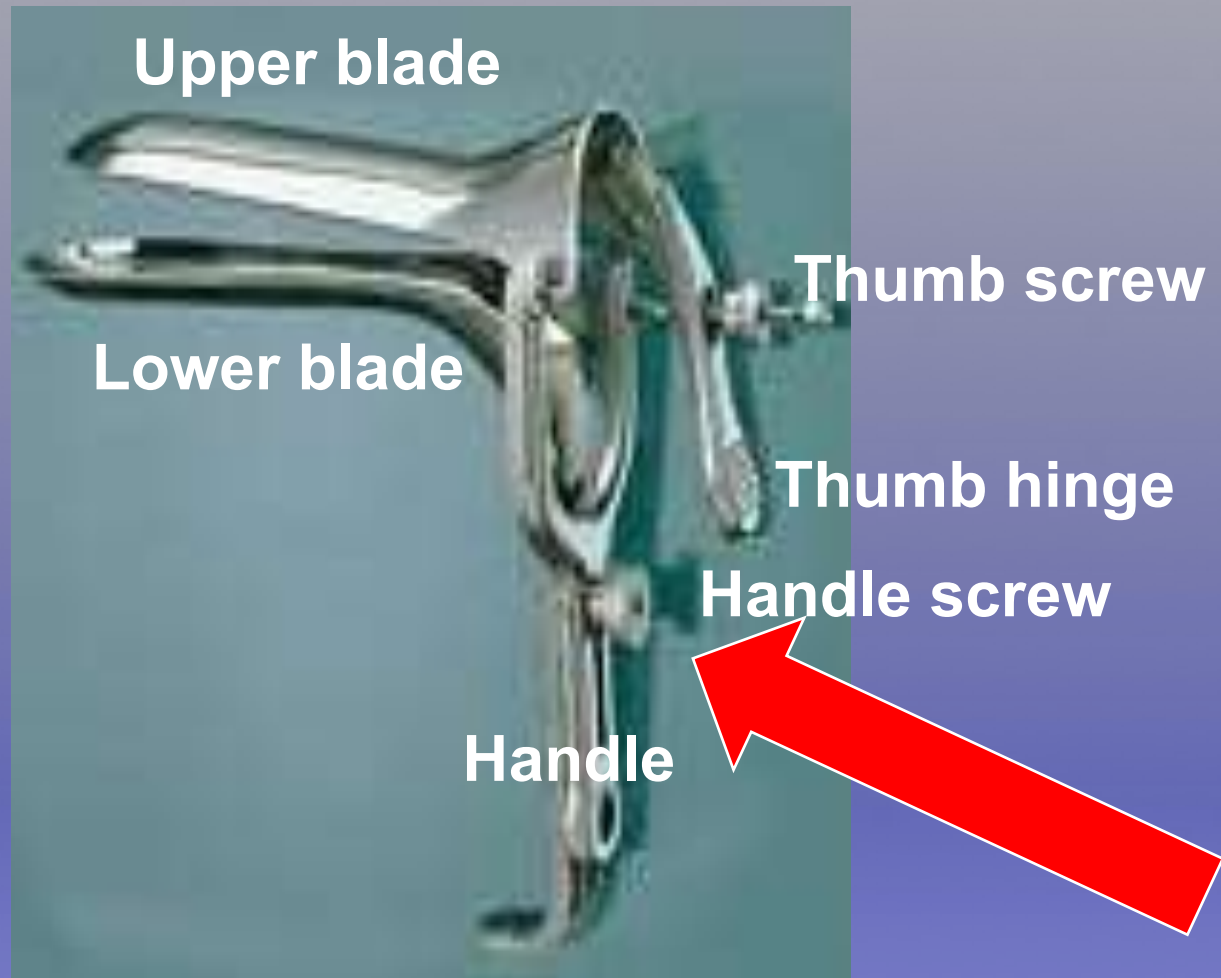
# Obesity: Have Appropriate Instruments in the Room

- Specula of varying sizes
- Ensure adequate lighting
- Tongue blades or retractors or ring forceps
  - Use closed ring forceps or tongue blade to gently push vaginal walls to the side to improve visibility

# Obesity: The Right Speculum

- Too narrow--will not allow for good visualization
- Increase *width rather than length*
  - Avoid a long speculum
  - It can firmly splint the cervix in place
  - Does not allow you adequate cervical mobility to straighten the uterine flexion when using a tenaculum

**Open the speculum blades at  
the base as well as the tip**







**CAUTION:** This product contains a natural rubber latex. May cause allergic reactions.

If used properly, latex condoms are effective against AIDS and other sexually transmitted diseases.

Do not use with latex condoms. The use of latex condoms may increase the risk of breakage and slippage.

**PRODUCT OF MEXICO**  
**OT 0801000701**  
**EXP 12/2012**

Distributed by:  
 Biondi Healthcare Products LLC  
 Durham, NC 27633

© 2012 Biondi Healthcare Products LLC. All rights reserved.

# Optimize Position

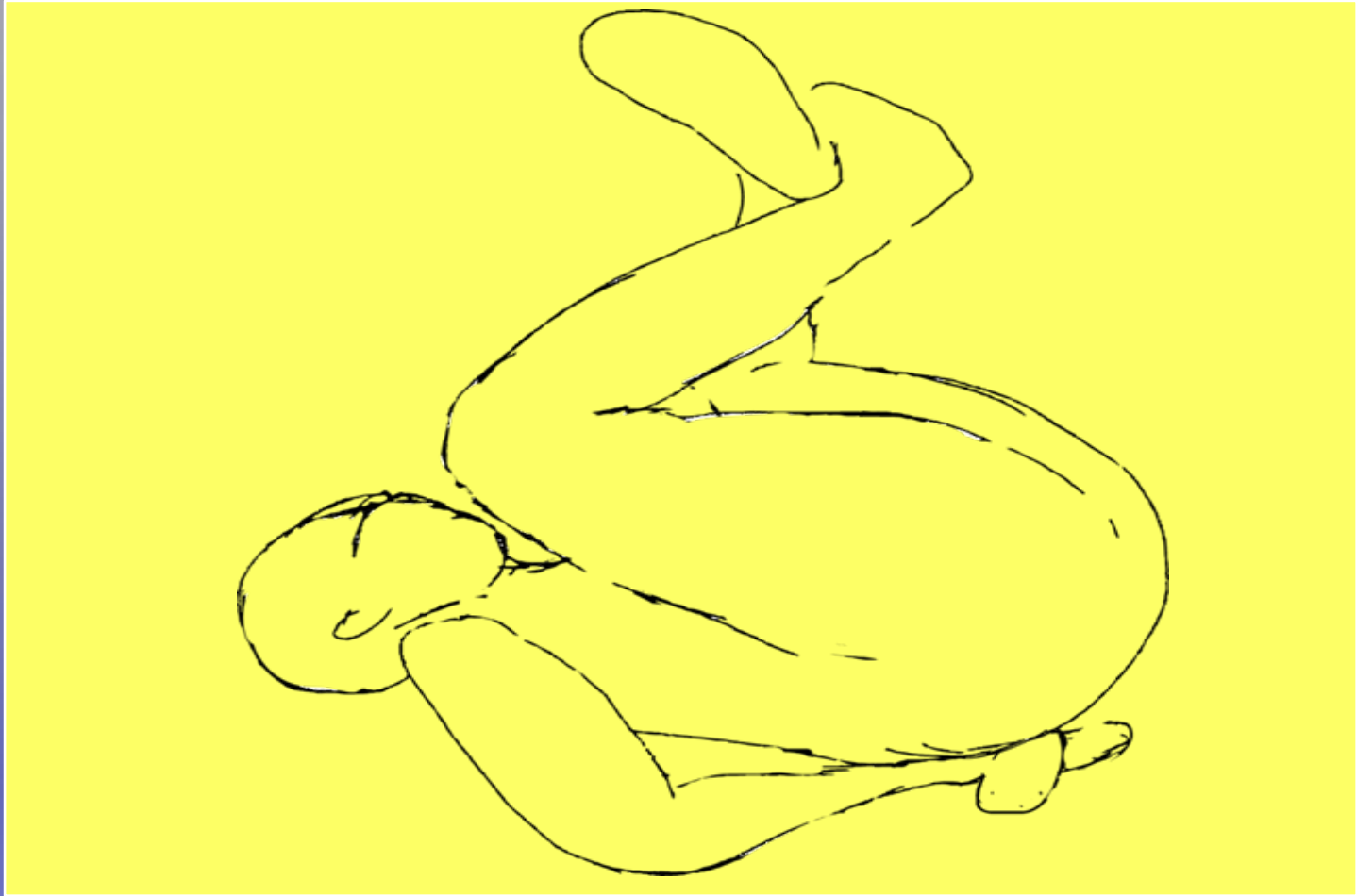
- Position Sarah as far down on the exam table as possible to allow maneuvering of the speculum once in place
- Hips over the edge of the exam table drops her pelvis and cervix forward and makes visualization easier

# Optimize Position

## Raise her buttocks...

- Have her place her hands in a fist under her own buttocks
- Lower the head of the table
- Place a lift under her buttocks

# "Cannon Ball" Or "Knees To Chest"



**She pulls her knees up and back**

# Rachel: 35 year old G<sub>0</sub> P<sub>0</sub>

## “I Have Fibroids”

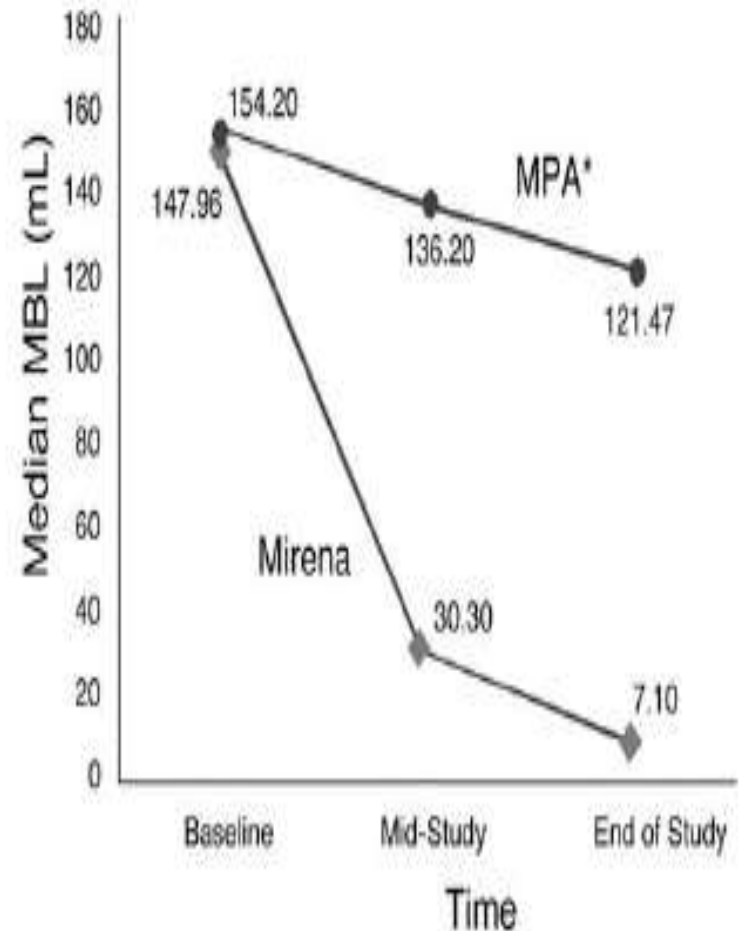
- Periods have been heavier and longer for 2 years
- Bimanual exam: Irregular 12 week size uterus
- Choses a LNg-IUS for contraception and bleeding control
- Clinical dilemmas...
  - LNg-IUS control of fibroid-related



# LNG-IUS vs Oral MPA for Heavy Menstrual Bleeding

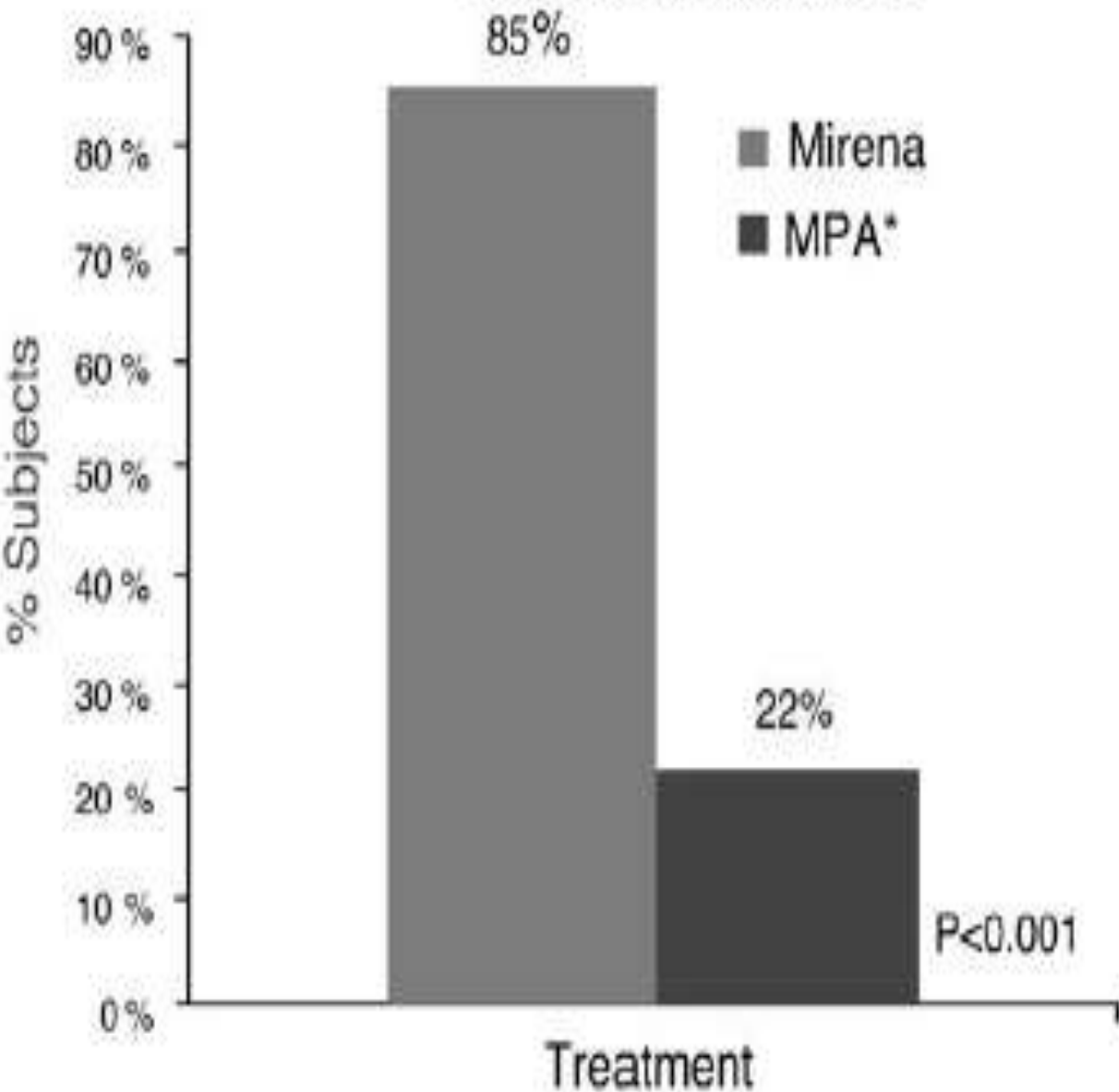
- Randomized parallel-group trial comparing Mirena (n=79) to MPA (n=81), over 6 cycles
- Exclusions: organic or systemic conditions causing heavy bleeding (except small fibroids, not > 5 mL)

Figure 10. Median Menstrual Blood Loss (MBL) by Time and Treatment



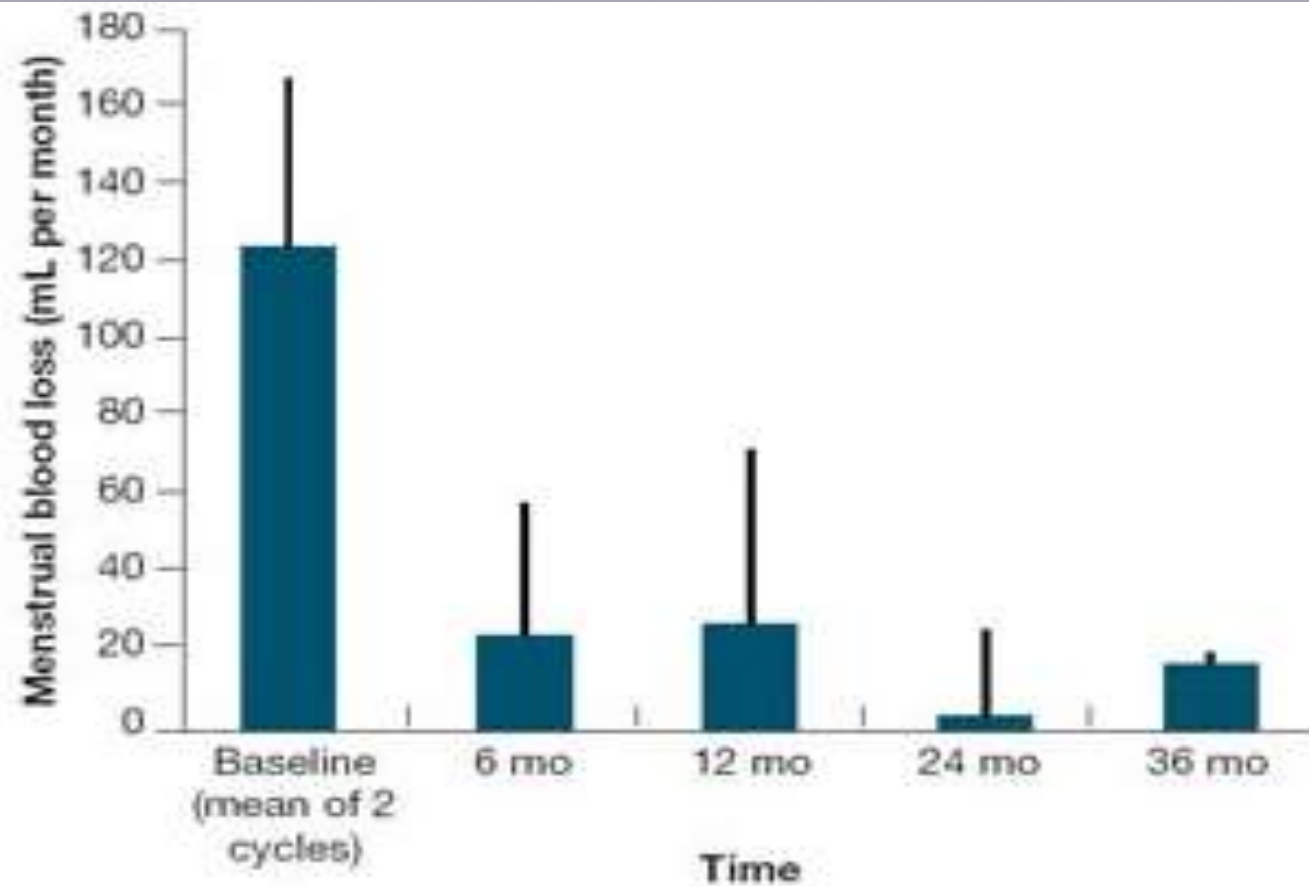
\*MPA=medroxyprogesterone acetate

Figure 11. Proportion of Subjects with Successful Treatment



\*MPA= medroxyprogesterone acetate

# Menstrual Blood Loss Before and After Placement of the LNG-IUS



\* Mean with standard deviation.

Xiao B, et al. *Fertil Steril*. 2003;79:963-969.



## Comparison of medical therapies for heavy menstrual bleeding

|   | <b>NSAIDs</b> | <b>OCs</b>         | <b>DMPA</b>        | <b>LNG-IUS</b>      |
|---|---------------|--------------------|--------------------|---------------------|
| Dosing  | Variable      | Daily              | 3 months           | 5 years             |
| Effects on blood loss   | Reduction     | Reduction          | Reduction          | Reduction           |
| Side effects  | GI            | Hormonally related | Hormonally related | Occasional hormonal |
| Contraceptive effectiveness   | None          | Middle tier        | Middle tier        | Top tier            |
| Typical-use 1-yr pregnancy rate   | Unchanged     | 8%                 | 5%                 | 0.1%                |
| DMPA, depot medroxyprogesterone acetate; GI, gastrointestinal; LNG-IUS, levonorgestrel-releasing intrauterine system; NSAIDs, nonsteroidal anti-inflammatory drugs; OCs, oral contraceptives. |               |                    |                    |                     |

Grimes DA. Review of Management Strategies for Heavy Menstrual Bleeding: Summary of the Best Evidence.  
OBG Management 10/2009

# Tranexamic Acid (Lysteda) for HMB

- FDA indication: treatment of cyclic heavy menstrual bleeding
- Mechanism of action is antifibrinolytic
- Use: 1,300 mg (two 650 mg tablets) TID for up to 5 days
- Contraindications
  - Active thromboembolic disease or a history or intrinsic risk of DVT, incl. retinal vein or artery occlusion
- Cautions
  - Concomitant therapy with CHC may further increase the risk of blood clots, stroke, or MI

# LNG-IUS and Fibroids

- Small studies with mixed results
  - Mercorio (2003): 75% persistent menorrhagia
  - Starczewski (2000): 92% reduced bleeding
- Recommendations
  - Off-label use; may violate precaution regarding cavity depth and distortion of uterine

# IUD Insertion Tips: Women with Fibroids

- Determine fibroid location by ultrasound
  - Fundal fibroids (intramural, sub-serous) that do not distort uterine cavity do not preclude IUC use
  - Large sub-mucous fibroids, especially in lower uterine segment, contraindicate IUC use
  - Evaluate for other pathology, e.g., polyp

# Mary 18 Year Old $G_0 P_0$

## “I Am So Afraid to Have This Done!”

- Will this hurt?
- Placeholder for image

# Outpatient Procedure Pain Relief Principles And Application

- Verbicaine
- Slow technique
- Oral sedation
- Tenaculum site local anesthetic
- Controversies
  - Pre-insertion NSAIDs
  - Pre-insertion misoprostol
- Paracervical and intracervical block

# Verbicaine

- Keep her talking!
- Calm, soothing vocal tone
- Slow, easy pace
- Utilize whatever works for the patient
  - Breathing techniques
  - Mindful meditation
  - Guided imagery



# Distraction





# Oral Sedation

Mike- legally informed consent  
after sedation?? I would not  
include these two slides

- Anxiolytic
- Narcotic
- Develop a protocol for your office or clinic
- Need to have a driver or escort

# Oral Sedation

Mike- legally informed consent after sedation?? I would not include these two slides

- Alprazolam 0.5 – 1 mg OR
- Diazepam 5 - 10 mg PLUS
- Acetaminophen 300 mg/codeine 30 mg OR
- Acetaminophen 300 mg/hydrocodone 5 mg
- Give your client a prescription to fill and take 30 minutes before the procedure

# Non-Steroidal Anti-inflammatory Drugs

- May have some benefit for insertional pain
- Helps with post insertional cramping
- Ibuprofen 800 mg or Naproxen Sodium 550 mg

**Placeholder for Cochrane Review-  
I Mike: I would put the citation in  
but not have a detailed  
discussion here (I put the PDF in  
the CT 2017 IUD folder**

# Tenaculum: Purpose

- Stabilize the cervix to allow passage of sound and IUD through the os
- Straighten any irregularities in the cervical canal
- Straighten uterine curvatures or flexion

# Tenaculum Pain Prevention

- Only click to first or second ratchet
- Close the tenaculum very, very slowly
- Close the ratchet *silently*
- Take a bite no larger than you need

# Tenaculum Pain Prevention

- 1cc Local anesthetic to tenaculum site
- Have patient cough (...hold onto the speculum)
- Don't move the tenaculum inadvertently
- During sounding and IUC placement, don't hook your fingers through the rings

# Uterine Sound Purpose

- Insure that you can pass through the internal os
- Measurement adequate
- Informs the direction and pathway through the os up to the fundus

# Uterine Sound: Which One?

- Metal sound
- Plastic sound
- Endometrial sampler
- Two sided dilator



# Uterine Sound Pain Reduction

- Touch the fundus once
  - Repeated tapping is unnecessarily uncomfortable for the patient
- Move slowly and intentionally
  - Moving too quickly increases discomfort

# Uterine Sound

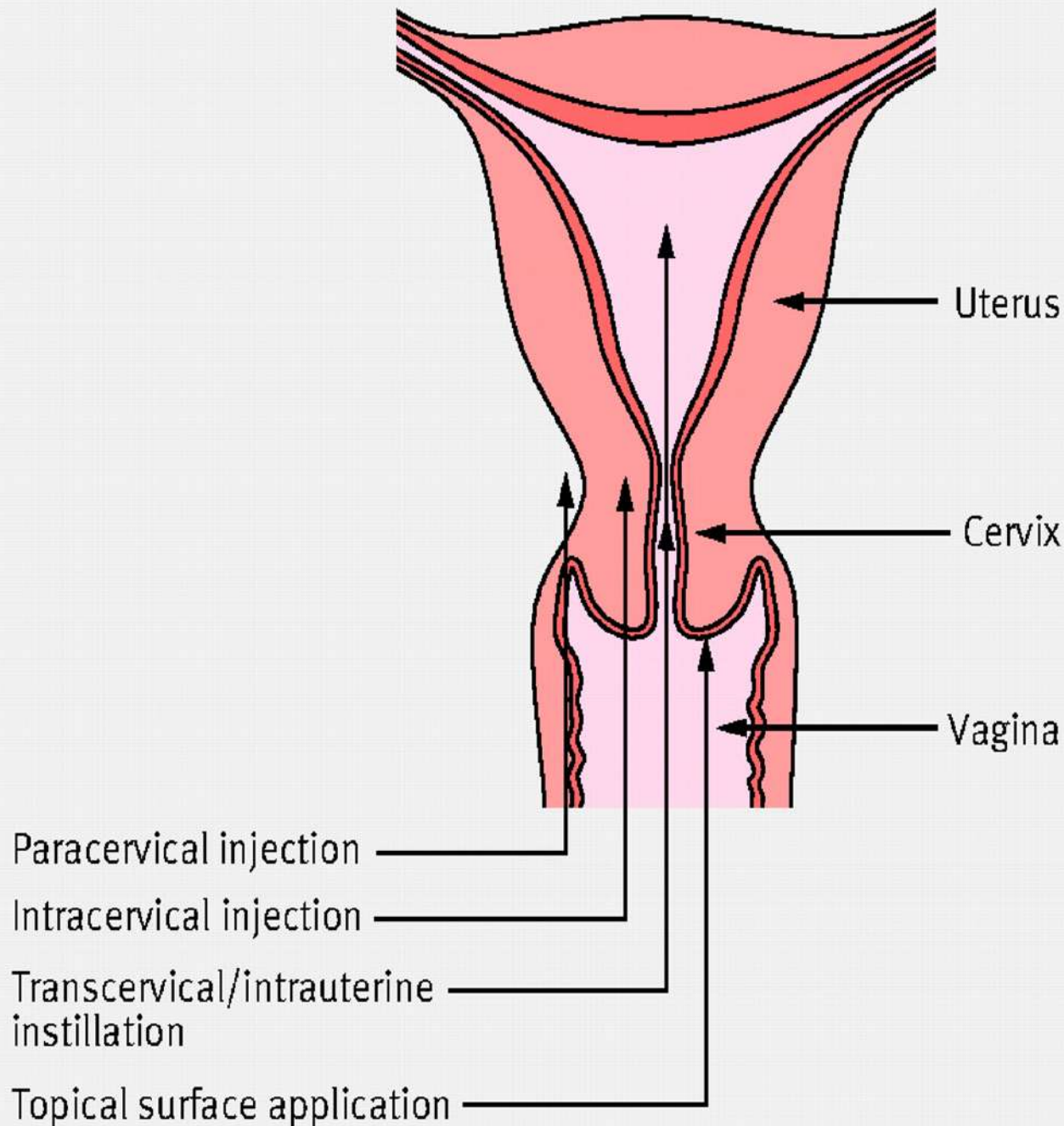
- If metal; bend sound to mimic uterine flexion
- Hold it like a pencil or dart
- Use *Wrist* action
- Brace fingertips on speculum to achieve control of force while advancing the sound

# Uterine Sound: *S-l-o-w* Progression

- Through the internal os
- *Pause once you have passed through the internal os*
- Slow intentional progression to the fundus

# Cervical Anesthesia

20 ml of 1%  
lidocaine  
(NO epinephrine)



# Paracervical Block

- Start with ½-1 cc. at tenaculum site
- Disguise pain of needle insertion with cough
- WAIT 1-2 minutes after placing block
- Use 10 cc. 1% lidocaine (without epinephrine)
- Inject at 4 & 8 or 4 & 5 then 7 & 8
- Submucosal injection 5mm-1cm

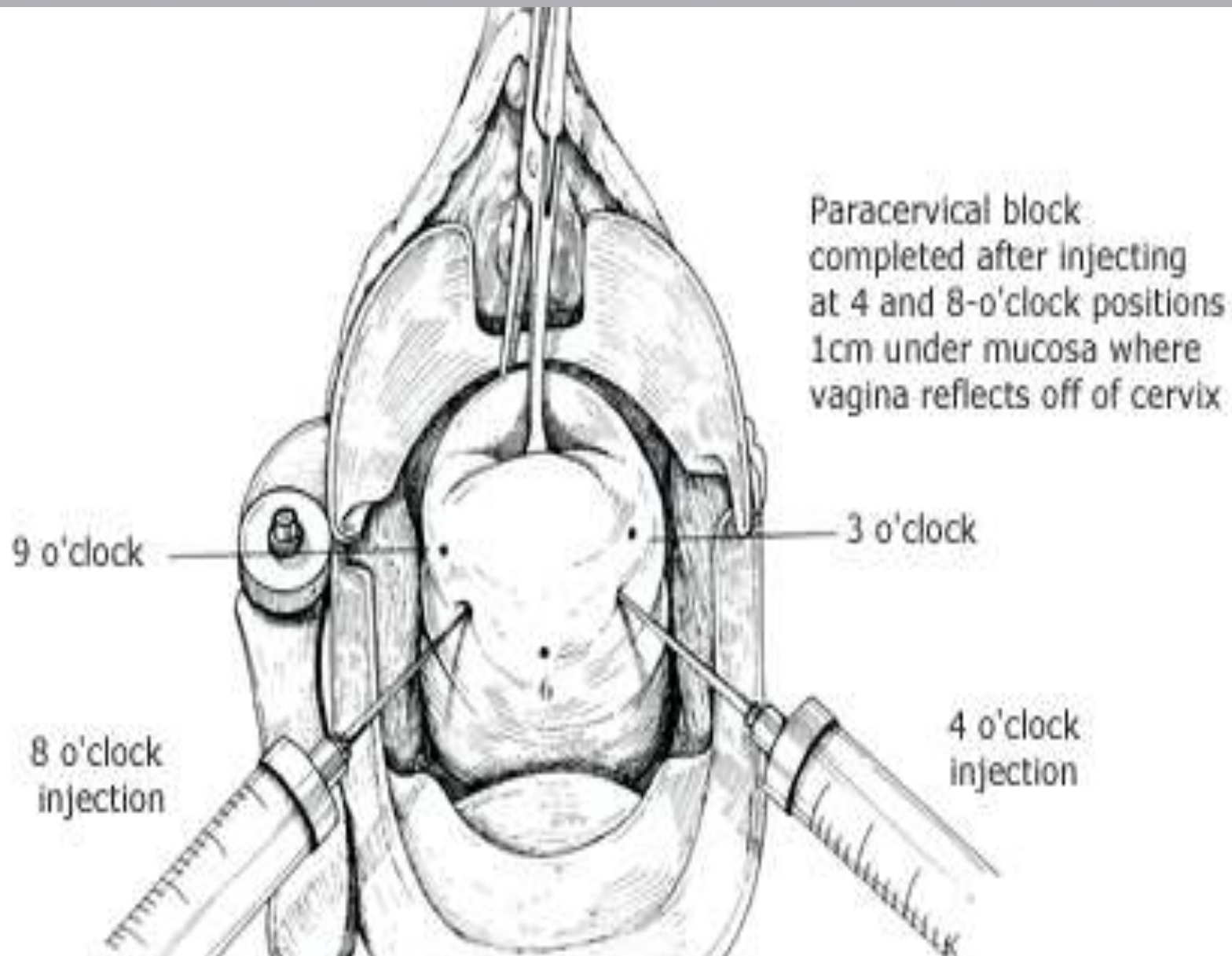
# Bleeding from Tenaculum Site

- Rarely *if ever* an issue
- Seeing blood from the tenaculum site can feel scary but is not a reason for concern

To stop the bleeding

1. Remove the speculum!
2. Pressure with a scopette
3. Very rarely: Monsels or silver nitrate

# Paracervical Block

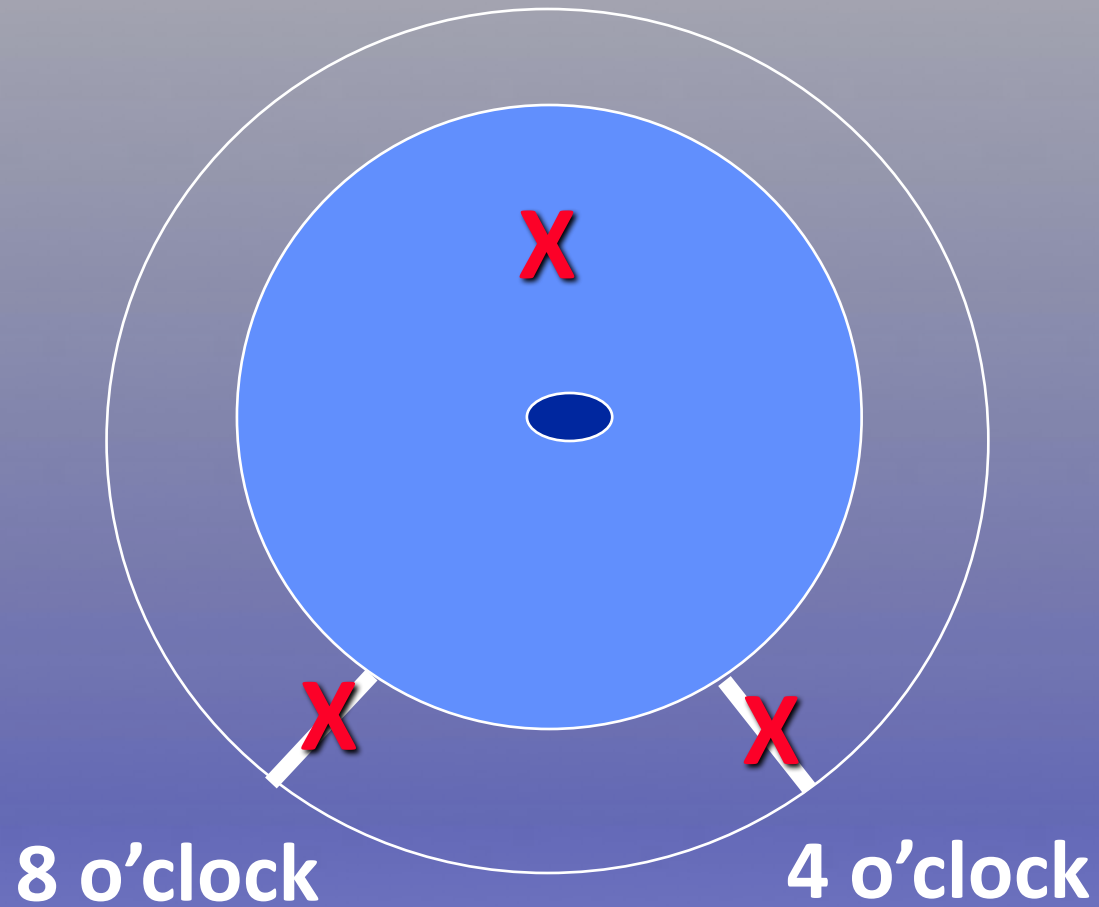


# Paracervical Block

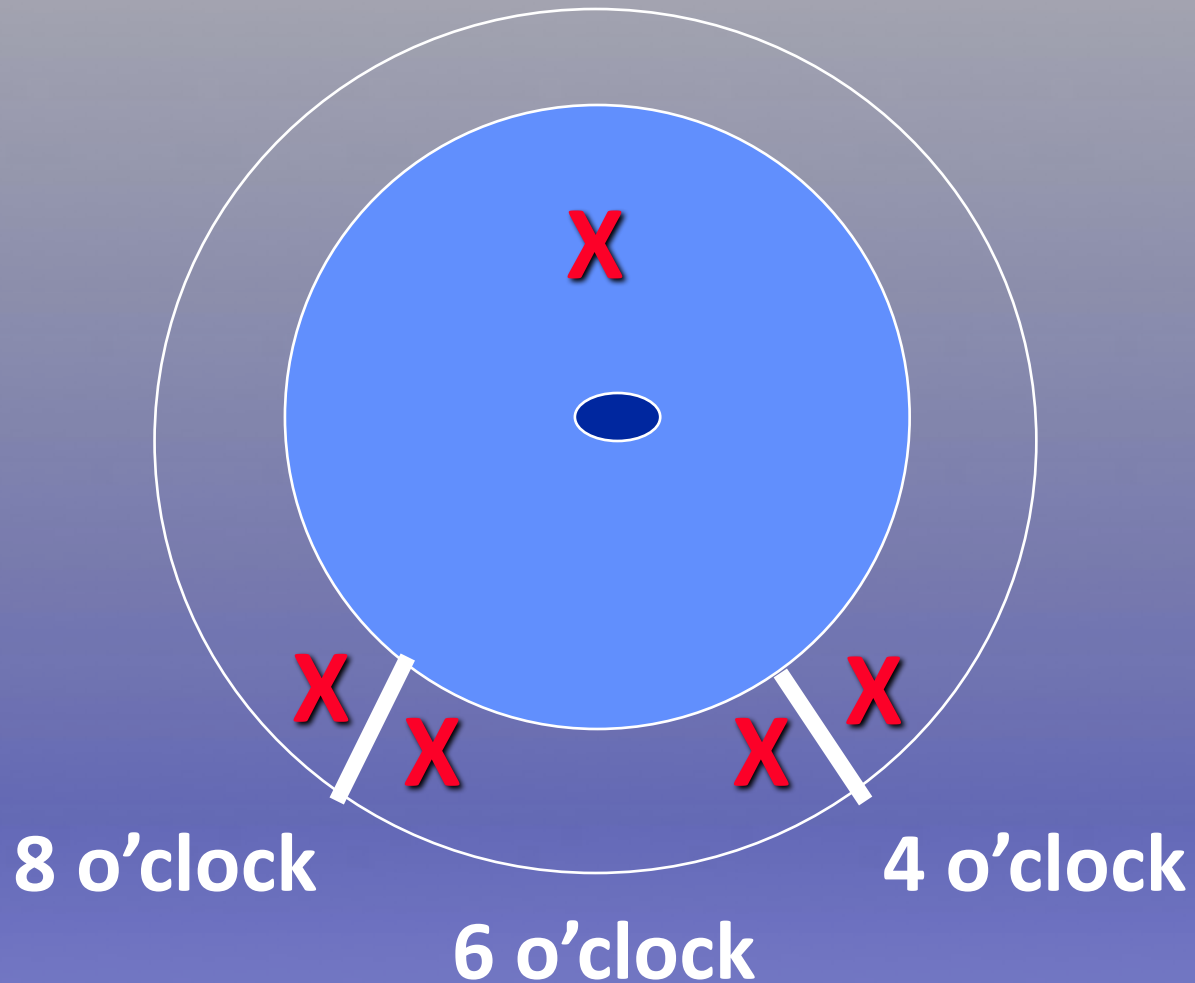
- Target is uterosacral ligaments
- Inject at reflection of cervico-vaginal epithelium
- Use spinal needle or 25g, 1 ½" needle + extender
- Shorter (Moore-Graves) speculum allows for more movement



# Paracervical Block



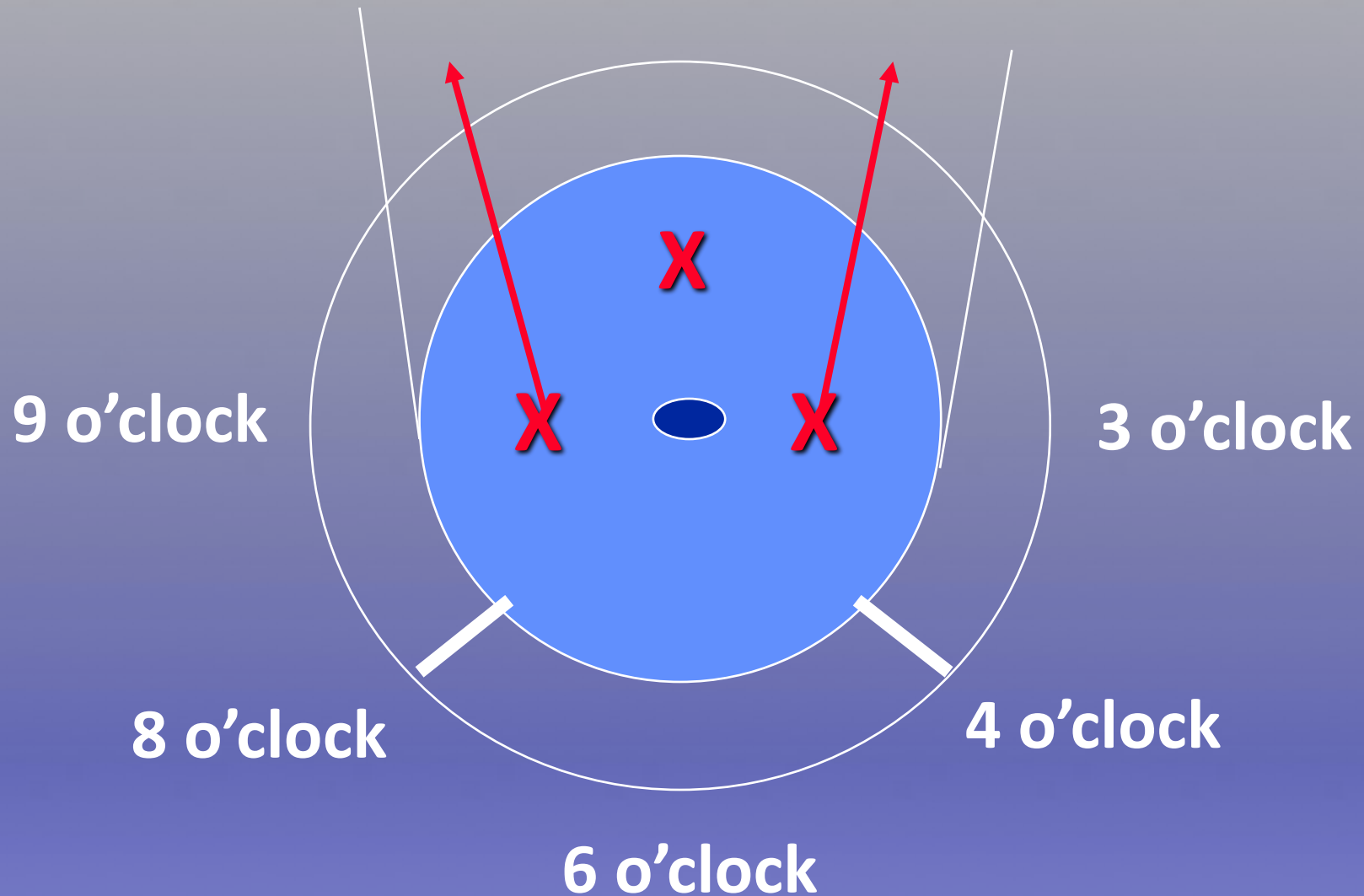
# Paracervical Block



# Intracervical Block

- Targets the paracervical nerve plexus
- 1 ½ inch 25g needle with 12 cc “finger lock” syringe
- Inject ½- 1 cc. local anesthetic at 12 o’clock, then apply tenaculum
- Angulate needle at the hub to 45° lateral direction
- At 3 or 9, insert needle into cervix *to the hub* 1 cm lateral to external os, aspirate
- Inject 4 cc of local, then last 1 cc while withdrawing
- Rotate barrel 180°, then inject opposite side

# Intracervical Block



# Lidocaine Safety

- Inject in correct spot spot
- Draw back to avoid intravascular injection
- Possible metallic taste

# Lidocaine Toxicity

- Central nervous system
  - Lightheadedness, restlessness, anxiety,
  - Tinnitus
  - Tremor, twitch
  - Perioral numbness
  - Visual changes
  - Seizure, respiratory arrest
- Cardiovascular
  - Bradycardia



# MANAGEMENT



# Any IUD: Initial Cramping Pain and/or Spotting

- It is normal for a woman to feel cramps, intermittent pelvic pain and any amount of spotting and light bleeding for a few weeks
- NSAIDS alleviate much or all of the cramping/pain
- Warm baths or warm packs
- Use clinical judgement to rule out other causes of pain and spotting



# IUD Bleeding: An Adjustment Period

- These symptoms are expected, and normal and generally go away after the first few weeks
- The “worst is probably behind her”
- She has “weathered the storm”
- This is an “adjustment period” before years of protection

# Responding To IUD Complaints and Side Effects

- Carol: Managing spotting with LnG IUD
- Susan: Managing heavier menses with CU IUD
- Gina: Partner can feel string

# Carol 18 year old G<sub>2</sub> P<sub>2</sub> In Medical Assistant School

- LNG IUD 52mg placed 2 months ago
- “I love my IUD but I spot almost every day and it is starting to make me crazy!”
- “You told me I might have spotting or irregular bleeding but this seems like it’s not good for me.”

# LNG IUD: Irregular Bleeding Or Spotting

- Some women have irregular bleeding for 3-4 months after placement:
  - Frequent spotting
  - Frequent light bleeding
  - *Rarely* heavier bleeding
  - Usually resolves after 3-4 months
- General pattern: amenorrhea or regular menses that get increasingly lighter with time

# What is the Goal of Response to Carol?

- To get her to keep her IUD?
- Beware of your agenda vs. her agenda
- You are both on the same side... Hers

# Responding to IUD-Related Complaints

- **All staff** gives similar messaging
- “Actively listen” to the patient’s complaint
- She doesn’t have to “fight for the right” to have her IUD removed
- Don’t assume the visit is for removal

# Listen

- So you can understand *what outcome she wants*:

## Does Carol want...

- To be reassured that she is not in danger?
- the problem *fixed*?
- to complain and be given compassion?
- advice?

# Empathy Without Labeling

- Rather than...
  - “You sound anxious” or “angry”
- Use neutral words...
  - “It sounds like this constant spotting is quite concerning to you”
  - “I can see that spotting every day is really hard to deal with”



# Empathy Traps

## Avoid...

- Saying, “I know what you mean”
- Downplaying the significance of the concern or side effect

## Rather...

“In the first few months using this IUD many of my patients feel that way”

“Anyone would find all that spotting to be a real drag!”

# LNG IUD: Complaints Other than Bleeding

- The amount of progestin systemically absorbed is minimal
- Small possibility of progestin related side effects.
  - Weight gain, mood changes, acne, hair loss, headache
- *Very* rarely symptoms that are estrogen related
  - Breast tenderness and nausea
- The first step is to “actively listen” including use of re-phrasing

# Susan G<sub>1</sub>P<sub>2</sub> (twins)

## 29 year old Yoga Instructor

- Cu T placed 3 months ago
- “I love the fact that I am off hormones, but my periods are off the hook!”
- “I heard that this thing makes you bleed more and it sure does...”

# On the One Hand- On the Other Hand



“So it sounds like on one hand you would like to continue with your IUD...

“And on the other hand, your periods are really an issue right now. Do I have that right?”



pause for a reply

# Longer or Heavier Menses

## NSAIDs prophylactically WITH FOOD

- Pre-emptive use for 1st 3 cycles
- Start before onset of menses
  - Naproxen sodium 220mg x2 BID (max 1100mg/d)
  - Ibuprofen 600-800mg TID (max 2400mg/day)

# Credibility

- If a patient does not believe that you are knowledgeable about the “issues” with IUDs she may not trust you to help her with a solution to a complaint.
- She may just want it removed because you don’t know how *bad it is* or she doesn’t trust that your solution will work.

# Intervention or Tincture of Time?

- Some complaints get better with time
- Others can be managed and improved with intervention (NSAIDs to mitigate bleeding with the copper IUD)
- It is helpful if **all staff** know that these options exist so that the message is consistent

If bleeding persists, or if the woman requests it, medical treatment can be considered.\*

Cu-IUD  
users

For unscheduled  
spotting or light  
bleeding or for heavy  
or prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)

LNG-IUD  
users†

For unscheduled  
spotting or light  
bleeding or heavy/  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or  
estrogen (10–20 days  
of treatment)

Implant  
users†

Injectable  
(DMPA) users

For unscheduled  
spotting or light  
bleeding:  
• NSAIDs (5–7 days  
of treatment)

For heavy or  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or estrogen  
(10–20 days of  
treatment)

CHC users (extended or  
continuous regimen)

Hormone-free interval  
for 3–4 consecutive days

Not recommended during  
the first 21 days of  
extended or continuous  
CHC use

Not recommended more  
than once per month  
because contraceptive  
effectiveness might be  
reduced

If bleeding disorder persists or woman finds it unacceptable

Counsel on alternative methods and offer another method, if desired.

United States Selected  
Practice Recommendations  
for Contraceptive Use

**US SPR**

[www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm](http://www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm)





# No Suppression of Endogenous Hormones with the Copper IUD

- A woman may experience sensations related to her own endogenous hormones
- Premenstrual bloating, breast pain, tenderness, or swelling, mood changes, low back pain, dysphoria or depression
- Sharp brief stabbing pain during the time of ovulation
- Ask for specific details about the premenstrual or other symptoms and offer treatment/management specific to the complaint.

Gina G<sub>3</sub>P<sub>3</sub>

## “My Husband Can Feel The Strings ... And It Hurt Him!”

- More likely if they are cut too short <3cm or >5cm
- 3-4 cm length is ideal
- Tuck them around the posterior lip of the cervix
- Threads soften with time in most cases
- Last resort is to trim threads up above the level of the external os
  - this is also indicated in cases of reproductive coercion

# Betsy 17 year old G<sub>0</sub>

- While having her LnG IUC placed, Betsy says, “Is this going to take much longer? I really need to go to the bathroom”
- What's going on here??

# Betsy 17 year old G<sub>0</sub>

- She recalls after the fact that she had a fainting spell after her HPV immunization
- She had told her PCP about this problem...heart auscultation and an ECG were normal.

# Vasovagal Response, Episode Or Attack

## AKA: Non-cardiogenic Syncope

- Mechanism
  - Starts with peripheral vasodilation
  - Bradycardia + drop in B/P
- More likely with
  - Pain with cervical manipulation
  - Previous episodes of vaso-vagal fainting

Grubb BP N Engl J Med 2005

• Dehydration or NPO

# Presyncopal Signs

- Facial pallor (distinct green hue)
- Yawning
- Pupillary dilatation
- Nervousness
- Diaphoresis
- Slurred or confused speech

# Presyncopal Symptoms

- Weakness/light-headedness
- Visual blurring/tunnel vision
- Nausea
- Feeling warm or cold
- Sudden need to go to the bathroom
- Tinnitus

# Vasovagal Prevention

- Good hydration (electrolyte/ sports drink)
- Eat before placement
- Prophylactically contract muscles if known history



# How to Abort a Vasovagal

- Isometric contractions of the extremities
- Intense gripping of the arm, hand, leg and foot muscles
- No need to bring the legs together or change position— just tense the muscles
- These contractions push blood back into the center of the body
- ....and abort the reflex

# IUC Complications

|                        | Absolute risk | Comment   |
|------------------------|---------------|---|
| Perforation            | 1/1,000       | Mostly benign   |
| Expulsion              | 1-6/100       | Most are self-recognized                                    |
| Unsuccessful placement | 9/ 100        | 6% when different device is used after unsuccessful attempt |
| Pregnancy              | <1/HWY        | Minimal impact if removed early in pregnancy                |
| PID                    | 1-2/TWY       | Same as gen'l population                                    |

**HWY: per 100 women per year**

**TWY: per 1,000 women per year**

# Symptoms of Possible Complications

| Symptom  | Possible Explanation       |
|--|----------------------------|
| Severe bleeding or abdominal cramping 3–5 days after insertion | Perforation, infection     |
| Irregular bleeding and/or pain every cycle                     | Dislocation or perforation |
| Fever, chills, unusual vaginal discharge                       | Infection                  |

*more...*

# Symptoms of Possible Complications

| Symptom  | Possible Explanation                       |
|--|--|
| Pain during intercourse                            | Infection, perforation, partial expulsion  |
| Missed period, other signs of pregnancy, expulsion | Pregnancy (uterine or ectopic)             |
| Shorter, longer, or missing threads                | Partial or complete expulsion, perforation |

# Management of Complications

- Jennifer: Perforation
- Rosa: Missing strings
- Sharonda: Pregnancy
- Donna: Pelvic infection

# Jennifer 39 year old G<sub>2</sub> P<sub>2</sub>

## "What Was That Pain?"

- 6 wk post-partum visit (NSVD)...requests copper IUD
- Lactating, no longer bleeding
- Exam: 8-9 week size uterus; firm, non-tender
- During sounding, moderate resistance is encountered at the internal os...then sounded to 14 cm.
- She complained of pain only during the initial part of the sounding procedure
- What's going on here??

# Postpartum IUC Insertion

## US MEC 2010

| Postpartum (BF or non-BF women) including C/S | LNG-IUS | Cu-IUD |
|---|---------|--------|
| <10 min after delivery of placenta            | 2       | 1      |
| 10 min after delivery of placenta to <4 wks   | 2       | 2      |
| ≥4 wks post partum                            | 1       | 1      |
| Puerperal sepsis                              | 4       | 4      |

# Uterine Perforation

- More likely to occur in relation to
  - Posterior uterine position
  - Post-partum placement, especially in lactating women
  - Skill/experience of provider
- Typical location is midline at uterine fundus...if so, perforation often is asymptomatic, benign
- Suspect if sounding is much deeper than expected or if ↑ resistance



# Uterine Perforation Rates

## European Active IUD Surveillance Study

- Multinational, prospective, non-interventional cohort study
- New IUD users
  - Baseline information
  - Follow-up at 12 months
    - User and clinician
  - Loss to follow-up 2%
- 61,448 women in 6 countries
  - 70.1% LNG; 29.9 copper (30 types)

Heinemann K, et al. *Contraception*. 2015

# Uterine Perforation Rates

## European Active IUD Surveillance Study

- Perforation: partial (20%); complete (80%)
- Perforation: 50% diagnosed first 2 months
- Perforation rates by 12 months
  - LNg: 1.4/1,000
  - Copper: 1.1/1,000
- Adjusted risk ratio for LNG: 1.6 (95% CI 1.0-2.7)
  - Adjusted for age, breastfeeding and pregnancy

Heinemann K, et al. *Contraception*. 2015

# Uterine Perforation Rates

## European Active IUD Surveillance Study

- Breastfeeding (BF) significantly increased risk
  - RR (BF vs non-BF): 6.1 (9.5% CI 3.9-9.6)
  - No difference between IUD types
- 63/81 perforations had risk factors
  - Breastfeeding
  - Time since delivery < 36 weeks
- No serious injury to intraperitoneal or pelvic structures

Heinemann K, et al. *Contraception*. 2015

# Uterine Perforation Rates

## European Active IUD Surveillance Study

| Time Since Last Delivery | Breastfeeding  |               | RR (95% CI)   |
|--------------------------|----------------|---------------|---------------|
|                          | Yes            | No            |               |
| ≤ 36 weeks               | <i>5.6</i>     | <i>1.7</i>    | 3.3 (1.6-6.7) |
| > 36 weeks               | <i>1.6</i>     | <i>0.7</i>    | 2.2 (0.3-16)  |
| RR (95% CI)              | 3.4 (0.5-24.8) | 2.3 (1.1-4.7) |               |

Italicized numbers: perforation rate per/1000 insertions

Heinemann K, et al. *Contraception*. 2015

# Factors That Didn't Affect Perforation Risk

## European Active IUD Surveillance Study

- Cervical dilation at time of placement
- Use of anesthesia
- Ever cesarean section
- Last delivery by cesarean section

**Heinemann K, et al. *Contraception*. 2015**

# Management of Uterine Perforation

- If *before* insertion of IUC, stop procedure
- If *during* insertion of IUC, remove IUC
- Monitor for 30 min for excessive bleeding, pain
- Provide alternative method of contraception
- Can insert another device after

# Prevention of Uterine Perforation

- Move slowly and intentionally
- Avoid momentum; moving quickly increases momentum
- Once you have passed through the internal os—*STOP and pause for a second.*
- Then intentionally proceed to the fundus in a controlled fashion

# Prevention of Perforation

You will feel resistance when the uterine sound touches the fundus

- This "fundal feel," or resistance should be a signal to STOP advancing the sound
- Never push beyond fundal resistance even if the flange is not yet at the external os



# Prevention of Uterine Perforation

- Careful assessment of uterine position
- Exert adequate traction with the tenaculum to straighten the axis of the uterus
- Careful hand positioning when using the sound and the inserter
- Consider using a plastic sound
- Avoid excessive force during sounding and placement
- Do not use the white stabilizing rod as a plunger during placement of a copper IUC

# Prevention of Uterine Perforation

- Place cervical block and dilate cervix if resistance is encountered
- Don't use inserter to sound; open IUC package only *after* sounding is completed

# Rosa 50 yo G<sub>3</sub> P<sub>3</sub>

## “I Can’t Feel The String”

- IUC inserted 8 years ago
- Remembers that it had a T shape, but not sure which type of IUC was inserted
- Hasn’t been able to feel the string for the past 2 months, but before that checked irregularly
- String is not present at the external cervical os

# Rosa 50 year old G<sub>3</sub> P<sub>3</sub>

- Clinical dilemmas
  - Determination of IUC location
  - Extraction of IUC without visible string

# IUD Without Strings

- What type of IUD is it?
- Does she desire pregnancy?
- Is she experiencing side effects?
- Does she want another contraceptive method?
- Review the benefits and risks of removal

# Missing String...Possibilities

- IUC in-situ
  - String coiled in canal or endometrial cavity
  - String short, broken, or severed
- Unnoticed **expulsion**
- Intrauterine **pregnancy**

# Missing String...Possibilities

- Malpositioning of the IUC, following perforation
  - **Embedment** into the myometrium
  - **Translocation** into the abdominal or pelvic cavity
- The perforation is not the problem; the abnormal position of the IUD is!

# Missing IUC String: Expulsion

- Occurs in 2-10% IUC insertions within first year
- Risk of expulsion related to
  - Provider's skill at fundal placement
  - Age, parity, uterine configuration
  - Time since insertion (↑ within 6 mos)
  - Timing of insertion (menses, postpartum, post-abortion)



# Missing IUC String: Expulsion

- Unnoticed expulsion may present with pregnancy
- Partial expulsion may present with
  - Pelvic pain, cramps, intermenstrual bleeding
  - IUC string longer than previously

# Missing String: Pregnancy With IUC

- Determine site of pregnancy (IUP or ectopic)
- If termination planned, await TAB to avoid triggering spontaneous abortion (SAB)
- If continuing IUP and strings are not visible, do not attempt removal
  - Increase surveillance for SAB, pre-term birth
  - No greater risk of birth defects, since IUC is outside of the amniotic sac

# Missing IUC String: Other Possibilities

- Translocation

- Since copper IUC may cause more adhesions, must extract promptly via operative laparoscopy
- LNG-IUS is less reactive, but most experts recommend laparoscopic removal

# Missing IUC String: Other Possibilities

- **In situ placement:** desires retention
  - Leave in place for remainder of IUC lifespan
  - Option: annual pelvic ultrasound *in lieu* of string check

# Missing IUD String: Initial Management

- Ask Rosa whether removal or retention is desired
- Assess pregnancy status with menstrual history or UPT
  - Positive: locate and date pregnancy
  - Negative: may attempt extraction

# Missing IUD String: Initial Management

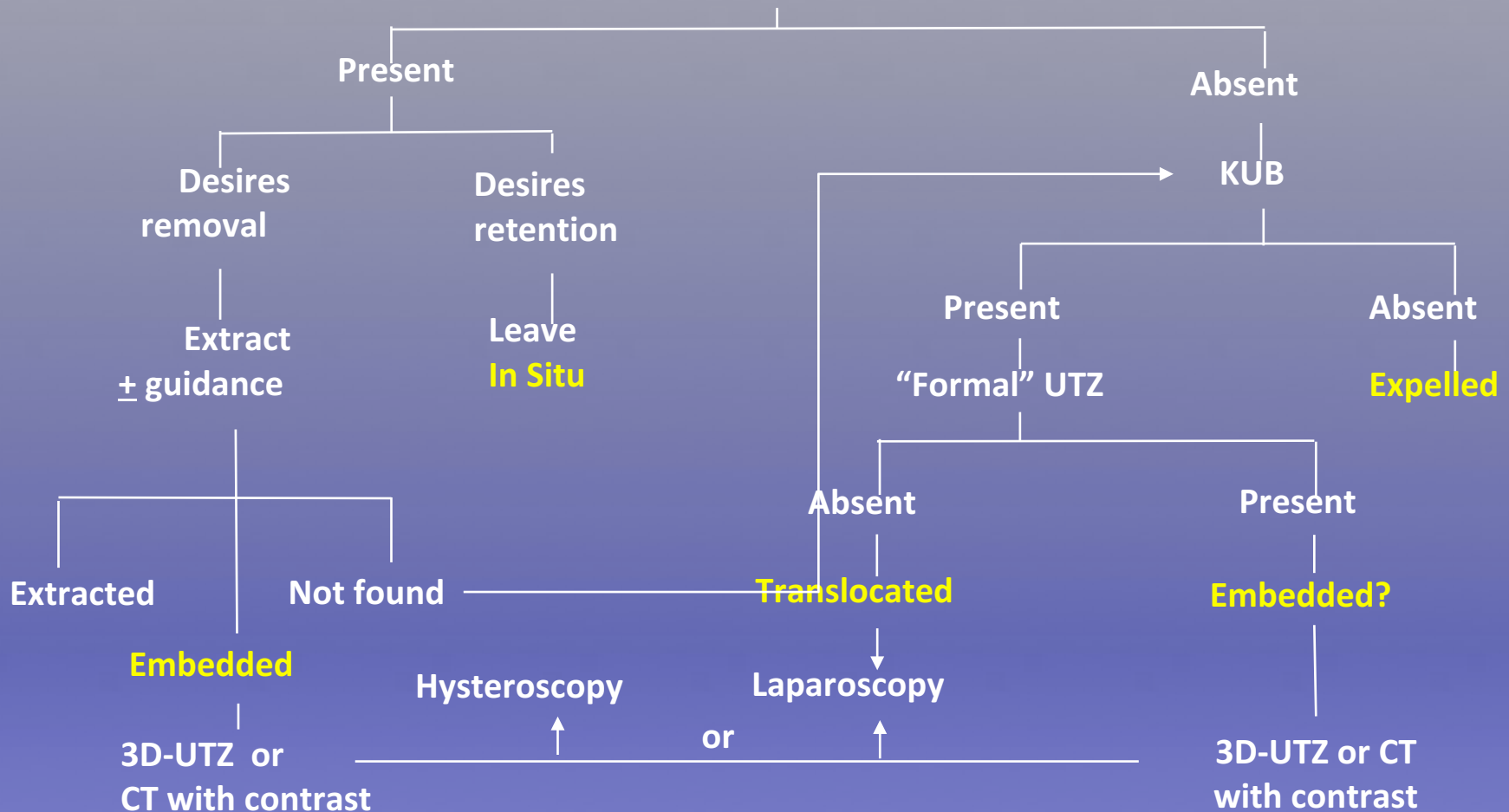
1. Sweep string from canal
2. Pregnant? → perform office UPT
  - Positive: locate and date pregnancy
  - Negative: go to #3
3. Office ultrasound, if available
  - No IUD in situ: order KUB
  - IUD in situ: go to #4
4. Retention desired?
  - Yes: may continue use
  - No: attempt extraction

# Missing IUD: Ultrasound Guidance



# Missing IUD String: Office Ultrasound

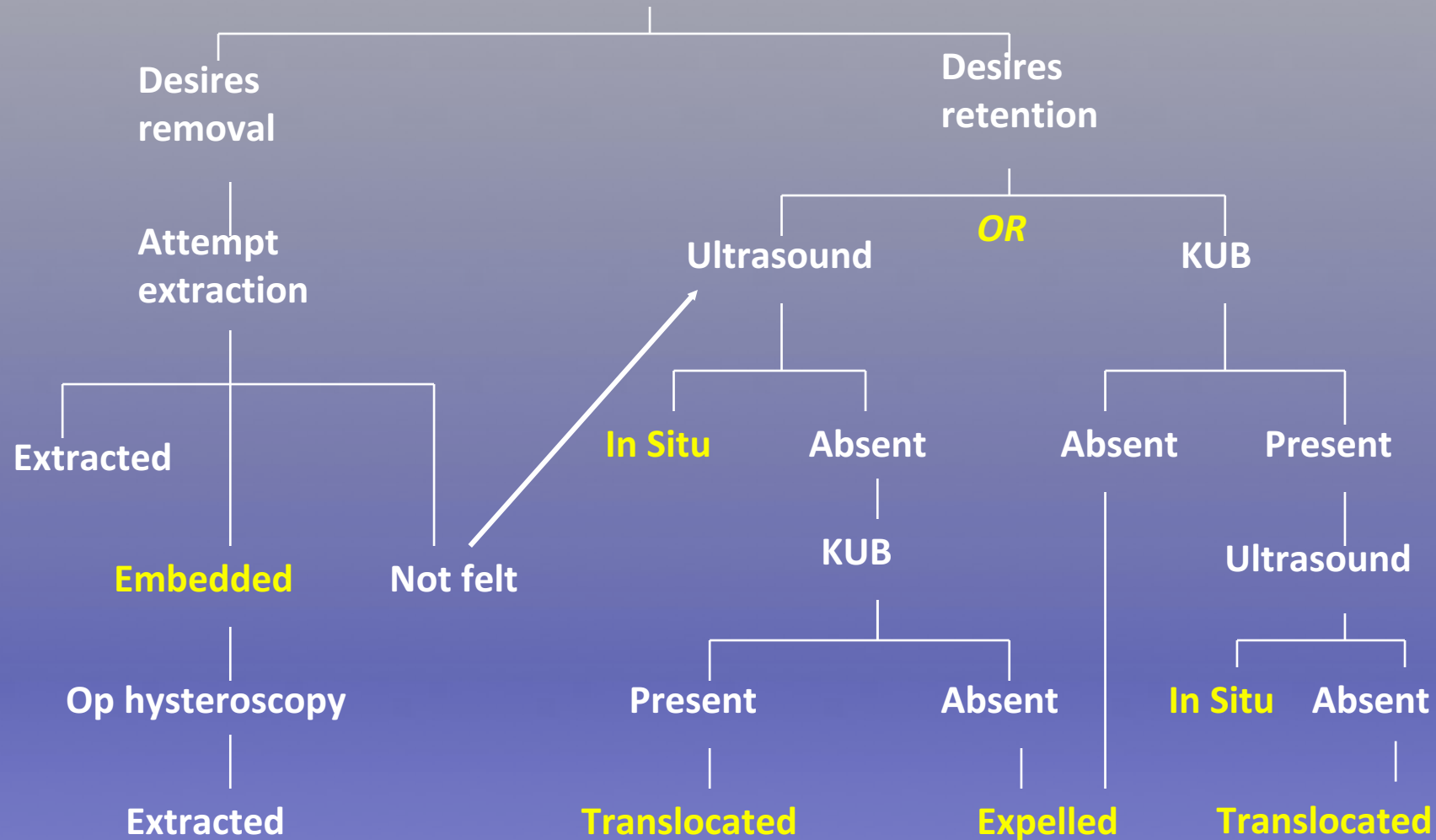
- No IUD string in canal
- Pregnancy test negative
- Office ultrasound (UTZ)





# Office Ultrasound Not Used

- No IUC string in canal
- Pregnancy test negative

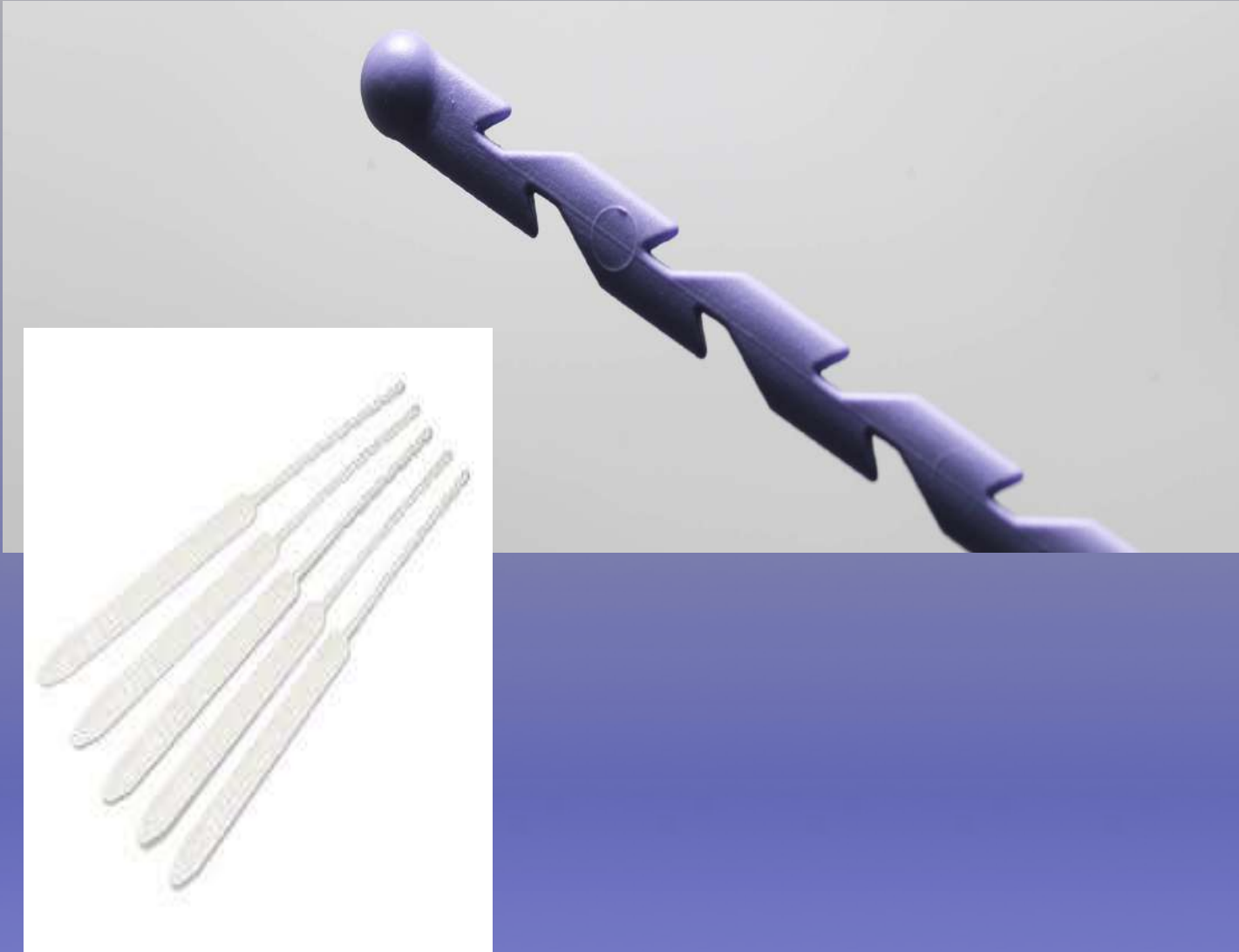


# Missing IUD String: Desires Removal

## Extraction of IUD in-situ

1. Consent fr uterine instrumentation procedure
2. Bimanual exam
3. Probe for strings in cervical canal
4. Apply tenaculum
5. Administer cervical block
6. Choose extraction device
  - Emmett Thread Retriever
  - Patterson alligator forceps
  - Ring IUD: crochet hook or 3-5 mm suction curette

# Thread Retriever



# Thread Retriever





**Alligator forceps**

Fulcrum 1 cm from the tip of the device

Opened and closed completely within the uterine cavity

No cervical dilation necessary

**Prabhakaran S, Chuang A, *Contraception* 2011.**

# IUD Removal Without Strings

## Alternate

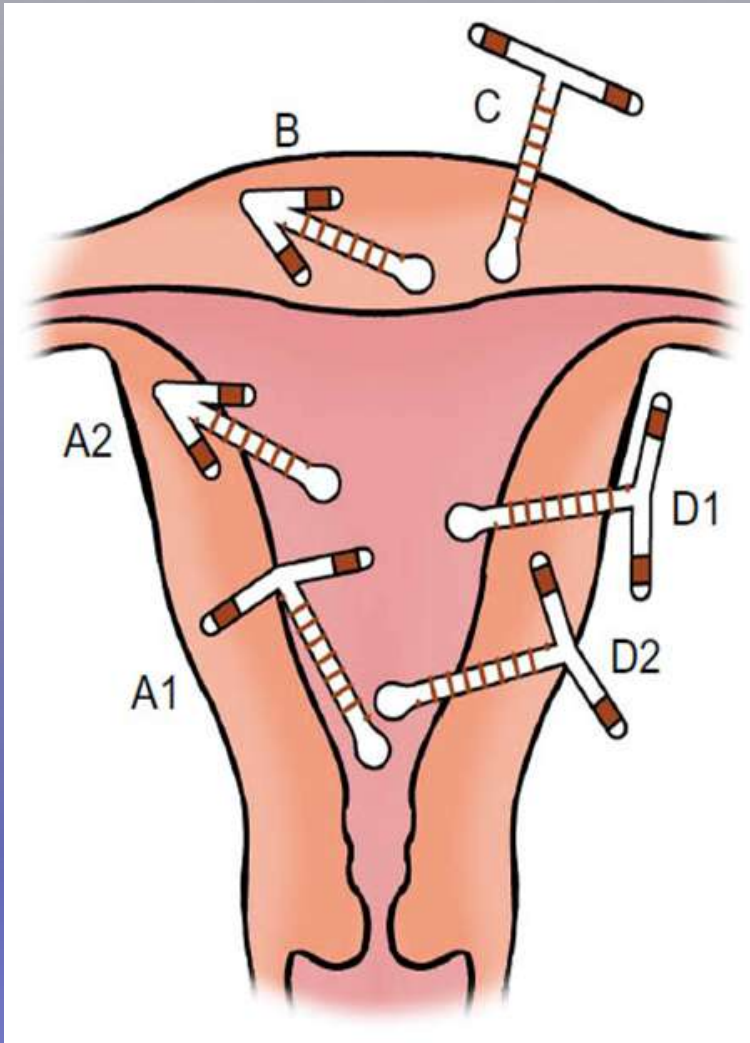


# Missing IUD String: Desires Removal

## Extraction of IUD in-situ

7. Intrauterine exploration for a T-shaped IUD
  - Real-time ultrasound guidance may help, if available
  - Gently open/ close/quarter turn forceps at progressive depths until “purchase” of stem or arm
8. Maneuver hook along anterior, then posterior, uterine wall from fundus to canal
9. If embedment suspected, consider evaluation with 3-D ultrasound or pelvic CT with contrast
  - Extract via operative hysteroscopy or laparoscopy

# Why Do CT or 3-D Ultrasound?



**Answer:**  
To decide whether to  
start the extraction with  
laparoscopy or  
hysteroscopy!



# Missing IUC String: Desires Removal

## Additional measures, as indicated

- Pain management
  - Cervical block + oral NSAIDs for pain
  - Conscious sedation
- Cervical dilation
  - Osmotic dilator
  - Rigid dilators
  - Misoprostol *may* facilitate IUC extraction

# IUC Removal in Menopausal Women

- Strings seen: remove
- No strings visible...weigh risks
  - Hazards of continuation (post-menopausal bleeding, ? pelvic actinomycosis)
  - Hazards of removal (pain, perforation)
- Tail-less IUC (e.g., Chinese stainless steel coil ring) should not be removed unless requested by the patient

# Sharonda G3 P2

- Had a Cu IUD placed 6 months ago
- LMP 6 weeks ago
- Breast tenderness, nausea
- No pain or bleeding
- Positive pregnancy test
- Wants to continue the pregnancy

# Pregnancy with IUC In Situ

- Determine if IUP or ectopic
- If intrauterine pregnancy confirmed
  - Counsel Sharonda on risks
  - Removal decreases risk of spontaneous abortion, premature delivery
  - If Sharonda consents:
    - Remove IUD if strings visible
    - (If she were planning termination: could remove IUD or await procedure)

# Pregnancy With IUC In Situ

- If ectopic confirmed manage as with any other ectopic
- Could leave Cu IUD in situ

## If Strings Not Visible; Retention Of IUC During Pregnancy

- Increase surveillance for SAB, pre-term birth
- No greater risk of birth defects (extra-amniotic)

# Donna: Pelvic Infection with IUD in Place

- Placeholder for pelvic infection case study
- Cut and paste diagnosis and management from existing slides and/or SPR

# PID in an IUD User



- Treat PID according to the CDC STD Treatment Guidelines
- Provide management for STDs
- Counsel about condom use
- The IUD does not need to be removed at time of treatment



# PID in an IUD User



- Reassess in 48–72 hours
  - If no improvement, continue antibiotics and consider removal of the IUD
- If removal requested, do so after antibiotics started to avoid the risk of bacterial spread
- If the IUD is removed, consider ECPs if appropriate

# STD Treatment Guidelines (p82)



Treatment outcomes did not generally differ between women with PID who retained the IUD and those who had the IUD removed

# Actinomyces-Like Organisms (ALO)



- *Actinomyces israelii* has characteristics of both bacteria and fungus; part of GI flora
- May asymptotically colonize the frame of the IUC, which in itself is not dangerous
- Very small percentage of women with IUC + actinomyces will develop *pelvic actinomycosis*
  - Presentation is similar to severe PID
- Women with ALO on Pap smear
  - Should be examined to exclude PID
  - If none, don't treat actinomyces or remove IUC

# IUD Use in Women with HIV Infection

- No higher risk for overall or for infectious complications in HIV-infected women
- IUD use did not adversely affect progression of HIV when compared with hormonal contraceptive use
- IUD use among HIV-infected women was not associated with increased risk for transmission to sex partners

# IUD Use in Women with HIV Infection

|                                   | LNG<br>Initiate | LNG<br>Continue | Copper<br>Initiate | Copper<br>Continue |
|-----------------------------------|-----------------|-----------------|--------------------|--------------------|
| High risk for<br>HIV infection    | 2               | 2               | 2                  | 2                  |
| HIV infection                     | 2               | 2               | 2                  | 2                  |
| AIDS                              | 3               | 2               | 2                  | 2                  |
| Clinically well<br>on ARV therapy | 2               | 2               | 2                  | 2                  |

# Postpartum IUD Placement

Placeholder for

- Add newer studies about post-partum IUD placement
- Add photos or line drawings of post-partum placement

# Postpartum IUC Insertion

## US MEC 2016

| Postpartum , including C/S                   | LNG-IUS                  | Cu-IUD   |
|--|--------------------------|----------|
| <10 min after delivery of placenta*          | <b>1-nonBF<br/>2- BF</b> | <b>1</b> |
| 10 min after delivery of placenta to <4 wks* | <b>2</b>                 | <b>2</b> |
| ≥4 wks post partum                           | <b>1</b>                 | <b>1</b> |
| Puerperal sepsis                             | <b>4</b>                 | <b>4</b> |

- Higher rates of expulsion should be considered
- BF: women who are breast-feeding their newborn

# How Is Postpartum IUC Insertion Done?

- IUC placement after **vaginal delivery**
  - Insert IUC within 15 minutes of placental delivery
  - Use sponge forceps on cervical lip; 2<sup>nd</sup> forceps to place IUC at uterine fundus
  - Cut string flush with external cervical os
- IUC placement at **caesarean section**
  - After delivery of newborn and placental removal...
  - Manually place IUC at fundus; tuck strings thru cervix
  - Repair uterus and complete c-section
  - Trim strings at postpartum visit



**Title Slide:**  
**Encounter Coding for IUD  
Services**

# Codes Numbers Tell A Story

|                        | Encounter content   | Code book  |
|------------------------|---|--|
| What                   | <ul style="list-style-type: none"><li>• Services performed</li><li>• Drugs, supplies provided</li></ul> | <ul style="list-style-type: none"><li>• CPT</li><li>• HCPCS II</li></ul> |
| Why                    | <ul style="list-style-type: none"><li>• Diagnoses</li></ul>   | <ul style="list-style-type: none"><li>• ICD-#-CM</li></ul>               |
| Additional Explanation | <ul style="list-style-type: none"><li>• Modifier</li></ul>  | <ul style="list-style-type: none"><li>• CPT</li></ul>                    |

- To establish medical necessity, for every *what* there must be a *why*
- Unusual circumstances explained with *modifier*

# CPT Codes for Contraceptive Procedures

| CPT   | Description   |
|-------|---|
| 58300 | Insert IUD  |
| 58301 | Remove IUD  |
| 11981 | Insert non-biodegradable drug delivery implant                      |
| 11982 | Remove non-biodegradable drug delivery implant                      |
| 11983 | Removal with reinsertion of non-biodegradable drug delivery implant |

## HCPCS II: IUD J-Codes

| HCPCS  | National code description                    |
|--------|--|
| J 7297 | LN-releasing IUS, 52 mg, 5 year (Liletta)    |
| J 7298 | LN-releasing IUS, 52 mg, 5 year (Mirena)     |
| J 7300 | Intrauterine copper contraceptive (ParaGard) |
| J 7301 | LN-releasing IUS , 13.5 mg (Skyla)           |

# Encounter for Contraceptive Management

## Z30.01 Encounter for initial prescription of contraceptives

| ICD-10  | Description  |
|---------|--|
| Z30.011 | Initial prescription of contraceptive pill   |
| Z30.012 | Prescription of emergency contraception  |
| Z30.013 | Initial prescription of injectable contraception   |
| Z30.014 | Initial prescription of IUD (not insertion!)   |
| Z30.018 | Initial prescription of other contraceptives <ul style="list-style-type: none"><li>• Medi-Cal: use for implant insertion</li></ul> |
| Z30.019 | Initial prescription of contraceptives, unspecified  |

# Encounter for Contraceptive Management

## Z30.4 Encounter for surveillance of contraceptives

| ICD-10  | Description   |
|---------|---|
| Z30.40  | Surveillance of contraceptives, unspecified   |
| Z30.41  | Surveillance of contraceptive pills   |
| Z30.42  | Surveillance of injectable contraceptive  |
| Z30.430 | Insertion of IUD  |
| Z30.431 | Routine checking of IUD   |
| Z30.432 | Removal of IUD  |
| Z30.433 | Removal and reinsertion of IUD  |
| Z30.49  | Surveillance of other contraceptives <ul style="list-style-type: none"><li>• Medi-Cal: use for implant surveillance and removal</li></ul> |

# IUD Placement Modifiers

| #   | Definition   | Possible Clinical Scenarios   |
|-----|--|---|
| -22 | Increased procedural services                                | <ul style="list-style-type: none"><li>• Complex or difficult insertion</li></ul>  |
| -25 | Significant, separately identifiable E/M service             | <ul style="list-style-type: none"><li>• Patient came in for general contraceptive counseling, ends up choosing IUD or implant, and it is inserted that day</li></ul>                |
| -51 | Multiple procedures on the same day, during the same session | <ul style="list-style-type: none"><li>• Removal of IUD and insertion of new IUD on the same day</li><li>• Removal of implant and insertion of new implant on the same day</li></ul> |

# IUD Placement Modifiers

| #   | Definition             | Possible Clinical Scenarios  |
|-----|------------------------|--|
| -52 | Failed procedure       | <ul style="list-style-type: none"><li>• Provider couldn't complete procedure for anatomic reasons (eg. stenosis)</li></ul>   |
| -53 | Discontinued procedure | <ul style="list-style-type: none"><li>• Patient changed mind during procedure</li><li>• Severe pain</li><li>• Vasovagal</li><li>• Clinician feels there is a threat to the patient's well-being and discontinues procedure</li></ul> |
| -76 | Repeat procedure       | <ul style="list-style-type: none"><li>• Successful insertion but the IUD is expelled, followed by repeat insertion</li></ul>   |



# Case Study 1: STI Check and IUS Insertion

- Mr. L is 19 year-old established client who presents with concerns about STI and wants to be tested
- She also received contraceptive counseling (10 minutes); asked to have a 3 year LN-IUS inserted
- Samples sent for GC/CT NAAT, HIV serology
- Office urine pregnancy test negative
- Bimanual exam performed; then IUS inserted easily
- Pelvic ultrasound with vaginal probe to check placement

## ACOG on CPT + E/M Visit

- If she states “I want an IUD,” followed by discussion, consent, and placement, an E/M code is not reported
- If all options are discussed and an implant or IUD is placed, an E/M and CPT codes may be reported
- If seen for another reason and a procedure is performed, E/M and CPT codes may be reported (turn-around visit)

## ACOG on CPT + E/M Visit

- Modifier -25 added to *the E/M code*
- If reporting E/M and CPT code, documentation must indicate a “significant, separately identifiable” service
  - E/M level using “3 key components” or time

# ACOG on Ultrasound with IUD Insertion

- An ultrasound to check IUD placement is not bundled into the IUD insertion (code 58300), and it is not common practice to use ultrasound to confirm placement. This should not be billed.
- Ultrasonography may be used to confirm the location when the clinician incurs *a difficult IUD placement* (e.g., severe pain)
  - Code 76857 Ultrasound, pelvic, limited or follow-up, or
  - Code 76830 Ultrasound, transvaginal
- Occasionally, ultrasound is needed to guide IUD insertion. Code 76998 (Ultrasonic guidance, intraoperative)

# Case Study 1: Answer

|           | CPT/ HCPCS II Code     | ICD-10-CM Code                     |
|-----------|------------------------|------------------------------------|
| Procedure | 58300 Insert IUD       | Z30.430 Insertion of IUC           |
| Supply    | Check with payer       |                                    |
| Drug      | J7301 LNG-IUS, 13.5 mg | Z30.430 Insertion of IUC           |
| Lab       | 81025 UPT              | Z32.02 Preg exam or test, negative |
| E/M       | 99212                  | Z 30.09 Other FP advice            |
| Modifier  | 99212-25               |                                    |

- -25 indicates that a significant and separately identifiable E/M was provided on the same date of service as a procedure

## Case 2: IUD Removal and Implant Insertion

- Ms. P, an established patient, sees Dr. Q
- She had an IUD inserted 5 years ago but is now experiencing bleeding and cramping
- Dr. Q does an expanded problem-focused exam and takes additional history
- They discuss removal of the IUD and other possible contraceptive methods.
- After a brief discussion, Ms. P requests an implant
- Dr. Q removes the IUD and inserts an implant

## Case Study 2: Answer

|           | CPT code   | ICD-10-CM code              |
|-----------|--|-----------------------------|
| Procedure | 11981 (implant insertion)                          | Z30.018 (implant insertion) |
|           | 58301-51 (IUD removal)                             | Z30.432 (IUD removal)       |
| Supplies  | Check with payer for IUC removal, none for implant |                             |
| Drug      | J7307 (ETG implant)                                | Z30.018                     |
| Lab       | None   |                             |
| E/M       | 99212 or 99213                                     | N92.6 (Irreg.menstruation)  |
| Modifier  | 11981-51   |                             |

- Code 11981 reported 1<sup>st</sup> because it has higher RVU (2.67 vs. 2.54)
- Modifier 51 (multiple procedures) is added to the lesser procedure

## Case 3: Difficult IUC Insertion

- Ms. T sees Dr. U, and requests insertion of a copper intrauterine contraceptive
- Ms. T weighs 220 lbs and has a BMI of 40.2
- Dr. U inserts an IUD with some difficulty due to Ms. T's body habitus
- How should Dr. U code for this visit?



## Case Study 3: Answer

|           | CPT code                           | ICD-10-CM code  |
|-----------|------------------------------------|---|
| Procedure | 58300 (IUD insertion)              | Z30.430 (insertion of IUD)<br>Z68.41 (BMI of 40-44.9) |
| Supply    | Check with payer for IUC insertion |   |
| Drug      | J7300 (copper IUC)                 | Z30.430   |
| Lab       | None                               |   |
| E/M       | None                               |   |
| Modifier  | 58300-22                           |   |

- Dr. U documents the additional work, complexity, and risk to the patient to support use of the modifier – 22
- Include med record note or explain in claim “remarks box”

## Case Study 4: Discontinued IUC Insertion

- Ms. X, a new patient, requests insertion of an IUD
- After consent, Dr. Y attempts to insert a copper IUD
- Dr. Y tries to insert the IUC several times, but the patient has a stenotic cervical os and having pain. Dr. Y desists
- Dr. Y discusses other methods of contraception with Ms. X and she decides to try OCs
- This conversation lasts 20 minutes. The total time of the office visit was 35 minutes

ACOG

LARC Billing Quiz

# Modifier-52 vs. Modifier-53

## Failed or Discontinued Procedures

- **Modifier-52 (reduced services)**: procedure is started but can't be finished for technical reasons
  - Essure procedure: 1 coil successfully placed in one tube but the second could not be placed EMB attempted but not completed 2° to stenosis
- **Modifier -53 (discontinued procedure)** owing to concerns regarding patient toleration of the procedure
  - Vaso-vagal episode during sounding
  - Perforation during IUD insertion

## Case Study 4: Answer

|                | CPT code   | ICD-10-CM code  |
|----------------|--|---|
| Procedure      | 58300 IUC insertion                                | Z30.430 (IUD Insertion)   |
| Supply or Drug | J7300 (intrauterine copper contraceptive)          | Z30.430 (IUD Insertion)   |
| Lab            | None   |   |
| E/M            | 99203-25 (new patient office visit) for counseling | Z30.09 Encounter for other general counseling and advice on contraception |
| Modifier       | 58300-53   |   |

- Modifier -53 indicates that the procedure was attempted but discontinued because of pain

## Case 5: Post-SAB IUC Insertion

- Ms. N is 10 weeks pregnant and sees Dr. O because of vaginal bleeding
- She had seen Dr. O previously for obstetric care
- Dr. O performs an exam, asks questions, and performs a limited ultrasound
- She decides Ms. O is having a miscarriage and suggests immediate treatment
- Ms. N also requests insertion of a copper IUD
- Dr. O completes the miscarriage surgically and inserts an IUD during this visit

ACOG

LARC Billing Quiz

## Case Study 5: Answer

|           | CPT code   | ICD-10-CM code  |
|-----------|--|---|
| Procedure | 59812 (incomplete abortion completed surgically) | O03.39 (Incomplete spontaneous abortion with other complications) |
|           | 58300-51 (IUD insert)                            | Z30.430 (insertion of IUD)  |
|           | 76817 (transvag UTZ)                             | O03.39  |
| Drug      | J7300 (copper IUD)                               | Z30.430   |
| Supplies  | Check with payer                                 |   |
| Lab       | Rh type  |   |
| E/M       | None   |   |
| Modifier  | None   |   |

# Advanced Cases

# References

- American College of Obstetricians and Gynecologists. Long-acting reversible contraception: implants and intrauterine devices. Practice Bulletin no. 121, July 2011. Obstet Gynecol 2011;118:184-96. Reaffirmed 2013
- Bahamondes, M. V., Espejo-Arce, X., & Bahamondes, L. (2015). Effect of vaginal administration of misoprostol before intrauterine contraceptive insertion following previous insertion failure: a double blind RCT. *Hum Reprod*, 30(8), 1861-1866.
- Bates, C, Carroll, N and Potter, J. The challenging pelvic examination. JGIM. (2011) 650 – 657.
- Caliskan, E., Ozturk, N., Dilbaz, B. O., & Dilbaz, S. (2003). Analysis of risk factors associated with uterine perforation by intrauterine devices. *Eur J Contracept Reprod Health Care*, 8(3), 150-155.



# References

- Cowman, W. L., Hansen, J. M., Hardy-Fairbanks, A. J., & Stockdale, C. K. (2012). Vaginal misoprostol aids in difficult intrauterine contraceptive removal: a report of three cases. *Contraception*, 86(3), 281-284.
- Darney PD. Etonogestrel contraceptive implant [www.uptodate.com](http://www.uptodate.com)
- Dean G, Goldberg AB. Management of problems related to intrauterine contraception. [www.uptodate.com](http://www.uptodate.com)
- Dermish, A. I., Turok, D. K., Jacobson, J. C., Flores, M. E., McFadden, M., & Burke, K. (2013). Failed IUD insertions in community practice: an under-recognized problem? *Contraception*, 87(2), 182-186.

# References

- Dermish A, Turok DK, Jacobson J, Murphy PA, Saltzman HM, Sanders JN., (2016) Evaluation of an intervention designed to improve the management of difficult IUD insertions by advanced practice clinicians. *Contraception*. Jun;93(6):533-8.
- Dijkhuizen K, Dekkers OM, Holleboom CA, et al. Vaginal misoprostol prior to insertion of an intrauterine device: a randomized controlled trial. *Hum Reprod* 2011;26:323-9.
- Edelman AB, et al. (2011) Effects of prophylactic misoprostol administration prior to intrauterine device insertion in nulliparous women. *Contraception*. *Contraception*. Sep;84(3):234-9

# References

- Grubb, B. P. (2005). Clinical practice. Neurocardiogenic syncope. *N Engl J Med*, 352(10), 1004-1010.
- Guney M, Oral B, Mungan T. Efficacy of intrauterine lidocaine for removal of a “lost” intrauterine device: A randomized, controlled trial. *Obstet Gynecol* 2006;108:119-23.
- Hagemann, C., Heinemann, K., Moehner, S., Reed, S., Unwanted pregnancies among women using intrauterine devices: final results from the Euras-IUD 5-Year Study. *Contraception*, 94(4), 416.

# References

- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Comparative contraceptive effectiveness of levonorgestrel-releasing and copper intrauterine devices: the European Active Surveillance Study for Intrauterine Devices. *Contraception*, 91(4), 280-283.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Risk of uterine perforation with levonorgestrel-releasing and copper intrauterine devices in the European Active Surveillance Study on Intrauterine Devices. *Contraception*, 91(4), 274-279.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2016). Intrauterine devices and the risk of uterine perforations: final results from the EURAS-IUD 5 years study. *Contraception*, 94(4), 387.

# References

- Li YT, Kuo TC, Kuan LC, et al. Cervical softening with vaginal misoprostol before intrauterine device insertion. *Int J Gynaecol Obstet* 2005;89:67-8.
- Lopez, L. M., Bernholc, A., Zeng, Y., Allen, R. H., Bartz, D., O'Brien, P. A., & Hubacher, D. (2015). Interventions for pain with intrauterine device insertion. *Cochrane Database Syst Rev*(7),
- Kaislasuo, J., Suhonen, S., Gissler, M., Lahteenmaki, P., & Heikinheimo, O. (2012). Intrauterine contraception: incidence and factors associated with uterine perforation--a population-based study. *Hum Reprod*, 27(9), 2658-2663.
- Mansour D. The benefits and risks of using a levonorgestrel-releasing intrauterine system for contraception. *Contraception* 2012;85:224-34.

# References

- Reed, S., Heinemann, K. (2016). Events associated with nexplanon insertion and removal: interim results from the nexplanon observational risk assessment study (NORA). *Contraception*, 94(4), 409.
- Marchi NM, Castro S, Hidalgo M, et al. Management of missing strings in users of intrauterine contraceptives. *Contraception* 2012;86:354-8.
- NEXPLANON® (etonogestrel implant) Full prescribing information. Merck Revised: 07/2014
- Prabhakaran, S., & Chuang, A. (2011). In-office retrieval of intrauterine contraceptive devices with missing strings. *Contraception*, 83(2), 102-106.

# References

- Renner, R. M., Nichols, M. D., Jensen, J. T., Li, H., & Edelman, A. B. (2012). Paracervical block for pain control in first-trimester surgical abortion: a randomized controlled trial. *Obstet Gynecol*, 119(5), 1030-1037.
- Renner, R. M., Edelman, A. B., Nichols, M. D., Jensen, J. T., Lim, J. Y., & Bednarek, P. H. (2016). Refining paracervical block techniques for pain control in first trimester surgical abortion: a randomized controlled noninferiority trial. *Contraception*.
- Saav I, Aronsson A, Marions L, et al. Cervical priming with sublingual misoprostol prior to insertion of an intrauterine device in nulliparous women: a randomized controlled trial. *Hum Reprod* 2007;22:2647-52.

# References

- Swenson C, Turok DK, Ward K, et al. Self-administered misoprostol or placebo before intrauterine device insertion in nulliparous women: a randomized controlled trial. *Obstet Gynecol* 2012;120: 341-7.
- Swenson, C., Royer, P. A., Turok, D. K., Jacobson, J. C., Amaral, G., & Sanders, J. N. (2014). Removal of the LNG IUD when strings are not visible: a case series. *Contraception*, 90(3), 288-290.
- Turok, D. K., Gurtcheff, S. E., Gibson, K., Handley, E., Simonsen, S., & Murphy, P. A. (2010). Operative management of intrauterine device complications: a case series report. *Contraception*, 82(4), 354-357.



# References

- Vickery Z, Madden T. Difficult intrauterine contraception insertion in a nulligravid patient. *Obstet Gynecol* 2011;117:391-5.
- Ward, K., Jacobson, J. C., Turok, D. K., & Murphy, P. A. (2011). A survey of provider experience with misoprostol to facilitate intrauterine device insertion in nulliparous women. *Contraception*, 84(6), 594-599.

# US MEC

US Medical Eligibility Criteria  
for Contraceptive Use, 2016

# US SPR

US Selected Practice Recommendations  
for Contraceptive Use, 2016



U.S. Department of  
Health and Human Services  
Centers for Disease Control  
and Prevention

## US MEC

## US SPR



## Contraception

Centers for Disease Control and Prev..

**E** Everyone

UNINSTALL

OPEN

2016 CDC  
MEC and  
SPR phone  
app

## References

- ACOG Committee Opinion: Motivational Interviewing: A Tool for behavior Change; 423; Jan 2009.
- Borrero, S., Nikolajski, C., Steinberg, J. R., Freedman, L., Akers, A. Y., Ibrahim, S., & Schwarz, E. B. (2015). "It just happens": a qualitative study exploring low-income women's perspectives on pregnancy intention and planning. *Contraception*, 91(2), 150-156.
- Dehlendorf C et al. Preferences for decision-making about contraception and general health care among reproductive age women at an abortion clinic. *Patient Educ Couns*. 2010;81:343–348
- Dehlendorf C et al. Women's preferences for contraceptive counseling and decision making. *Contraception*. 2013 Aug;88(2):250-6
- Gold Melanie et al. Motivational Interviewing Strategies to facilitate Adolescent Behavior Change. *Adoles Health Update*. 2007;20(1):1-7.

## References

- Kennedy, S., Grewal, M., Roberts, E. M., Steinauer, J., & Dehlendorf, C. (2014). A qualitative study of pregnancy intention and the use of contraception among homeless women with children. *J Health Care Poor Underserved*, 25(2), 757-770.
- Kols AJ, Sherman JE, Piotrow PT. Ethical foundations of client-centered care in family planning. *J Womens Health*. 1999 Apr;8(3):303-12.
- Langston AM, Rosario L, Westhoff CL. Structured contraceptive counseling — a randomized controlled trial. *Patient Educ Couns*. 2010;81:362–367.
- Lopez LM et al. Theory-based interventions for contraception. *Cochrane Database Syst Rev*. 2009 Jan 21;(1):CD007249.
- Madden T, et al. Structured contraceptive counseling provided by the Contraceptive CHOICE Project. *Contraception*. 2013 August; 88(2);243-249.

## References

- Petersen R, et al. Applying motivational interviewing to contraceptive counseling: ESP for clinicians. *Contraception*; 69(3):213-7.
- Rinehart W, Rudy S, Drennan M. GATHER guide to counseling. *Popul Rep J*. 1998;48:1–32.
- Rollnick S, et al. *Motivational Interviewing in Health Care*. New York: Guilford Press; 2008
- Secura GM, Allsworth JE, Madden T, Mullersman JL, Peipert JF. The Contraceptive CHOICE Project: reducing barriers to long-acting reversible contraception. *Am J Obstet Gynecol*. 2010;203(115):e111–e117.
- Shih, G., Dube, K., & Dehlendorf, C. (2013). "We never thought of a vasectomy": a qualitative study of men and women's counseling around sterilization. *Contraception*, 88(3), 376-381.

## References

- Petersen R, et al. Applying motivational interviewing to contraceptive counseling: ESP for clinicians. *Contraception*; 69(3):213-7.
- Woodsong, C., Shedlin, M., & Koo, H. (2004). The 'natural' body, God and contraceptive use in the southeastern United States. *Cult Health Sex*, 6(1), 61-78.
- Yee, L., & Simon, M. (2011). Urban minority women's perceptions of and preferences for postpartum contraceptive counseling. *J Midwifery Womens Health*, 56(1), 54-60.

# Disclosures

## *Patty Cason*

- Advisory Board/Consultant
  - Teva, Merck, Bayer, ContraMed, Medicines 360
- Trainer/speaker
  - Merck, Medicines 360, Teva, ContraMed

# Outline

1. Efficient practices for same-day placement of IUDs
2. IUD counseling tips, including optimal language during client counseling
3. Nuances of informed consent...terms to explain to possibility of...



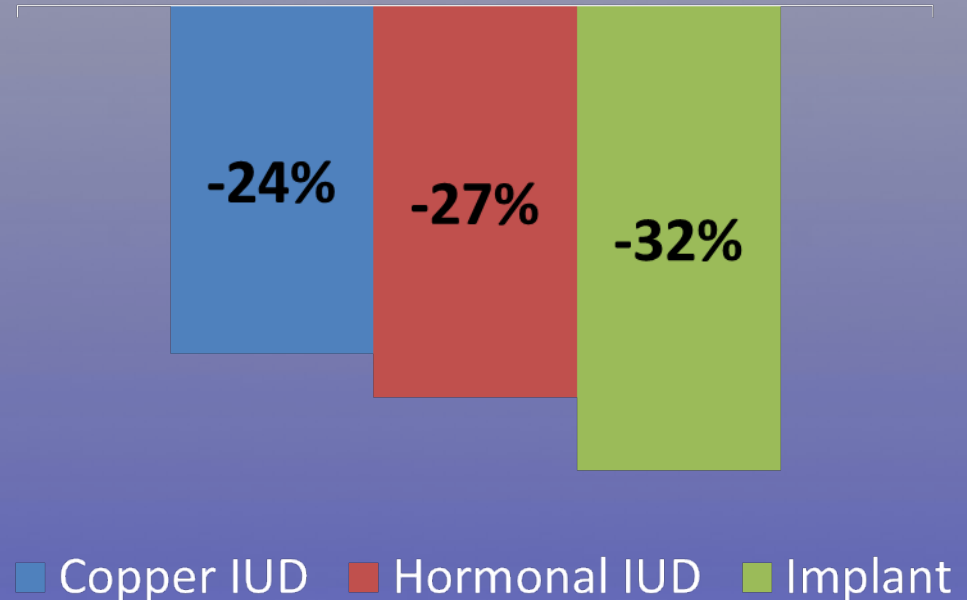
# Same Day IUD Placement



# More Visits → Fewer Patients Getting Method of Choice

Every one visit increase required  
for LARC provision resulted in the  
placement of fewer LARCs...

National Clinical  
Training Center for  
Family Planning online  
survey of APRNs  
(n=390)



# Provider Misconceptions

- “GC and CT screening test results are necessary”
  - Routine screening not indicated
  - If indicated, can be done at time of placement
- “IUDs can be placed only with menses”
  - Anytime if reasonably certain that not pregnant
- “Adolescents or women with multiple sexual partners are not candidates for IUD”

# Office Practice Logistics

- “Placement adds too much time to a scheduled visit”
  - Adds no more than 5-10 minutes if each exam room is well stocked and the staff is prepared
- “Placement only at scheduled placement visits”
  - Any clinic visit is a potential placement visit
    - Well woman visit
    - Post-partum visits
    - Pregnancy test visits
    - Emergency contraception visit

# Payment Barriers

- “IUD can be placed only after delivery from a PBM”
  - Keep extra insertion kits in the office
  - Replenish with the kit delivered from PBM
- “Method counseling and placement cannot be billed on the same date of service”
  - It definitely can be done...see ACOG and UCSF “Beyond the Pill” billing guides

# Barriers to Same Day Placement

- Provider(s) not trained or confident of abilities
- Provider misconceptions
- Office practice logistics
- Payment misconceptions

# Provider Misconceptions

- “GC and CT screening test results are necessary”
  - Routine screening not indicated
  - If indicated, can be done at time of placement
- “IUDs can be placed only with menses”
  - Anytime if reasonably certain that not pregnant
- “Adolescents or women with multiple sexual partners are not candidates for IUD”

# Office Practice Logistics

- “Placement adds too much time to a scheduled visit”
  - Adds no more than 5-10 minutes if each exam room is well stocked and the staff is prepared
- “Placement only at scheduled placement visits”
  - Any clinic visit is a potential placement visit
    - Well woman visit
    - Post-partum visits
    - Pregnancy test visits
    - Emergency contraception visit



# Payment Barriers

- “IUD can be placed only after delivery from a PBM”
  - Keep extra insertion kits in the office
  - Replenish with the kit delivered from PBM
- “Method counseling and placement cannot be billed on the same date of service”
  - It definitely can be done...see ACOG and UCSF “Beyond the Pill” billing guides

# Choosing Which IUD

| Brand Name                                     | Skyla®      | Kyleena®        | Mirena®          | Liletta®                                |
|--|-------------|-----------------|------------------|---|
| LNG content (mg in reservoir)                  | 13.5        | 19.5            | 52               | 52                                      |
| Release rate (mcg/24 hrs) --<br>at end of life | 14<br><br>5 | 17.5<br><br>7.4 | 20<br><br>+/- 10 | 19.5<br>17, 14.8,<br>12.9,<br>11.3, 9.8 |
| Max duration, years                            | 3           | 5               | 5 (7)            | 3 (5-7)                                 |
| T-frame, mm                                    | 28 x 30     | 28 x 30         | 32 x 32          | 32 x 32                                 |
| Insertion tube diameter                        | 3.80        | 3.80            | 4.40             | 4.80                                    |
| String color                                   | Brown       | Blue            | Brown            | Blue                                    |
| Silver ring                                    | Yes         | Yes             | No               | No                                      |

# Particular Characteristics Of IUDs

- Do you have a sense of what is important to you about your method?
- Do you have a sense of what you are looking for in a contraceptive method?

# Elicit Her Attitudes About

- Effectiveness
- Hormones
- Menstrual cycle and bleeding profile
- Length of use
- Control over removal
- Object in her body
- Return to fertility
- Non-contraceptive benefits
- Side effects

# Re-phrasing

- “So I hear you saying ...(you really like the idea of using a method without hormones) do I have that right?”
- “It sounds like....(it’s super important to you have a method that you can rely on) is that what you mean?”

# Amenorrhea with LNG IUD

## Don't...

- Assume you know why she objects to amenorrhea
- Ask her “why”

## Do...

- Ask what about not getting her period is concerning to her
- Let her know many women feel that way

Meena 29 G1P1

“What is it about not getting your period that is concerning to you?”

“I would always worry that I might be pregnant”

“I can see that it’s very important to you not to get pregnant until you are ready”

“Many of my patients like to get their period every month because they feel like it lets them know they aren’t pregnant”

# Meena 29 G1P1

“Interestingly many women still bleed in the beginning of a pregnancy...”

“Pregnancy tests at the 99 cent store are plentiful and can be very reassuring!”



“If a woman switches from the pill to an IUD her chance of unintended pregnancy is reduced from 90 in 1000 to  $<2$  in 1000”

# Natural Frequencies



“If 100 women have unprotected sex for a year, 85 of them will get pregnant as opposed to none or maybe one out of 100 using a hormonal IUD”

Not:  
“<1 % failure”



Kristal 22 G2P1

“My mom said it’s not healthy not to  
get my period”

“Your mother is completely right!.... when you are not on  
contraceptive hormones it is important to get you period every  
month, it’s great that you know that”

“I’m so glad you know that when you are not on contraceptive  
hormones and you miss your period you need to come in so we  
can see what’s up!”

Kristal 22 G2P1

“My mom said it’s not healthy not to  
get my period”

“I wish all of my patients knew that if they miss their period and they aren’t on contraceptive hormones it could mean something is wrong!”

... “Interestingly, if a woman *is* using contraceptive hormones it keeps her uterus very healthy and thin. It actually prevents cancer of the uterus” (Show a picture)

# Ask a question

“Knowing that, how would it be for you not getting periods?”

# Nuances of Informed Consent

# Informed Consent

- Expulsion
- Infection
- Perforation
- Method failure (pregnancy)

# Obesity: The Right Speculum

- Too narrow--will not allow for good visualization
- Increase *width rather than length*
  - Avoid a long speculum
  - It can firmly splint the cervix in place
  - Does not allow you adequate cervical mobility to straighten the uterine flexion when using a tenaculum



# Any IUD: Initial Cramping Pain and/or Spotting

- It is normal for a woman to feel cramps, intermittent pelvic pain and any amount of spotting and light bleeding for a few weeks
- NSAIDS alleviate much or all of the cramping/pain
- Warm baths or warm packs
- Use clinical judgement to rule out other causes of pain and spotting

# IUD Bleeding: An Adjustment Period

- These symptoms are expected, and normal and generally go away after the first few weeks
- The “worst is probably behind her”
- She has “weathered the storm”
- This is an “adjustment period” before years of protection

# Responding To IUD Complaints and Side Effects

- Carol: Managing spotting with LnG IUD
- Susan: Managing heavier menses with CU IUD
- Gina: Partner can feel string

# LNG IUD: Irregular Bleeding Or Spotting

- Some women have irregular bleeding for 3-4 months after placement:
  - Frequent spotting
  - Frequent light bleeding
  - *Rarely* heavier bleeding
  - Usually resolves after 3-4 months
- General pattern: amenorrhea or regular menses that get increasingly lighter with time

# LNG IUD: Complaints Other than Bleeding

- The amount of progestin systemically absorbed is minimal
- Small possibility of progestin related side effects.
  - Weight gain, mood changes, acne, hair loss, headache
- *Very* rarely symptoms that are estrogen related
  - Breast tenderness and nausea
- The first step is to “actively listen” including use of re-phrasing

# On the One Hand- On the Other Hand



“So it sounds like on one hand you would like to continue with your IUD...

“And on the other hand, your periods are really an issue right now. Do I have that right?”



pause for a reply

# Longer or Heavier Menses

## NSAIDs prophylactically WITH FOOD

- Pre-emptive use for 1st 3 cycles
- Start before onset of menses
  - Naproxen sodium 220mg x2 BID (max 1100mg/d)
  - Ibuprofen 600-800mg TID (max 2400mg/day)

If bleeding persists, or if the woman requests it, medical treatment can be considered.\*

Cu-IUD  
users

For unscheduled  
spotting or light  
bleeding or for heavy  
or prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)

LNG-IUD  
users†

Implant  
users†

For unscheduled  
spotting or light  
bleeding or heavy/  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or  
estrogen (10–20 days  
of treatment)

Injectable  
(DMPA) users

For unscheduled  
spotting or light  
bleeding:  
• NSAIDs (5–7 days  
of treatment)

For heavy or  
prolonged bleeding:  
• NSAIDs (5–7 days  
of treatment)  
• Hormonal treatment  
(if medically eligible)  
with COCs or estrogen  
(10–20 days of  
treatment)

CHC users (extended or  
continuous regimen)

Hormone-free interval  
for 3–4 consecutive days

Not recommended during  
the first 21 days of  
extended or continuous  
CHC use

Not recommended more  
than once per month  
because contraceptive  
effectiveness might be  
reduced

If bleeding disorder persists or woman finds it unacceptable

Counsel on alternative methods and offer another method, if desired.

United States Selected  
Practice Recommendations  
for Contraceptive Use

**US SPR**

[www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm](http://www.cdc.gov/reproductivehealth/selectedPractices/USPR.htm)





# Vasovagal Response, Episode Or Attack

## AKA: Non-cardiogenic Syncope

- Mechanism
  - Starts with peripheral vasodilation
  - Bradycardia + drop in B/P
- More likely with
  - Pain with cervical manipulation
  - Previous episodes of vaso-vagal fainting

Grubb BP N Engl J Med 2005

• Dehydration or NPO

# Presyncopal Signs

- Facial pallor (distinct green hue)
- Yawning
- Pupillary dilatation
- Nervousness
- Diaphoresis
- Slurred or confused speech

# Presyncopal Symptoms

- Weakness/light-headedness
- Visual blurring/tunnel vision
- Nausea
- Feeling warm or cold
- Sudden need to go to the bathroom
- Tinnitus

# Vasovagal Prevention

- Good hydration (electrolyte/ sports drink)
- Eat before placement
- Prophylactically contract muscles if known history

# How to Abort a Vasovagal

- Isometric contractions of the extremities
- Intense gripping of the arm, hand, leg and foot muscles
- No need to bring the legs together or change position— just tense the muscles
- These contractions push blood back into the center of the body
- ....and abort the reflex

# IUD Use in Women with HIV Infection

- No higher risk for overall or for infectious complications in HIV-infected women
- IUD use did not adversely affect progression of HIV when compared with hormonal contraceptive use
- IUD use among HIV-infected women was not associated with increased risk for transmission to sex partners

# How Is Postpartum IUC Insertion Done?

- IUC placement after **vaginal delivery**
  - Insert IUC within 15 minutes of placental delivery
  - Use sponge forceps on cervical lip; 2<sup>nd</sup> forceps to place IUC at uterine fundus
  - Cut string flush with external cervical os
- IUC placement at **caesarean section**
  - After delivery of newborn and placental removal...
  - Manually place IUC at fundus; tuck strings thru cervix
  - Repair uterus and complete c-section
  - Trim strings at postpartum visit

# Encounter Coding for IUD Services



# Codes Numbers Tell A Story

|                        | Encounter content   | Code book  |
|------------------------|---|--|
| What                   | <ul style="list-style-type: none"><li>• Services performed</li><li>• Drugs, supplies provided</li></ul> | <ul style="list-style-type: none"><li>• CPT</li><li>• HCPCS II</li></ul> |
| Why                    | <ul style="list-style-type: none"><li>• Diagnoses</li></ul>   | <ul style="list-style-type: none"><li>• ICD-#-CM</li></ul>               |
| Additional Explanation | <ul style="list-style-type: none"><li>• Modifier</li></ul>  | <ul style="list-style-type: none"><li>• CPT</li></ul>                    |

- To establish medical necessity, for every *what* there must be a *why*
- Unusual circumstances explained with *modifier*

# CPT Codes for Contraceptive Procedures

| CPT   | Description   |
|-------|---|
| 58300 | Insert IUD  |
| 58301 | Remove IUD  |
| 11981 | Insert non-biodegradable drug delivery implant                      |
| 11982 | Remove non-biodegradable drug delivery implant                      |
| 11983 | Removal with reinsertion of non-biodegradable drug delivery implant |

## HCPCS II: IUD J-Codes

| HCPCS  | National code description                    |
|--------|--|
| J 7297 | LNG-releasing IUS, 52 mg, (Liletta)          |
| J 7298 | LNG-releasing IUS, 52 mg, (Mirena)           |
| J 7300 | Intrauterine copper contraceptive (PARAGARD) |
| J 7301 | LNG-releasing IUS , 13.5 mg (Skyla)          |

# Encounter for Contraceptive Management

## Z30.01 Encounter for initial prescription of contraceptives

| ICD-10  | Description  |
|---------|--|
| Z30.011 | Initial prescription of contraceptive pill   |
| Z30.012 | Prescription of emergency contraception  |
| Z30.013 | Initial prescription of injectable contraception   |
| Z30.014 | Initial prescription of IUD (not insertion!)   |
| Z30.018 | Initial prescription of other contraceptives <ul style="list-style-type: none"><li>• Medi-Cal: use for implant insertion</li></ul> |
| Z30.019 | Initial prescription of contraceptives, unspecified  |

# Encounter for Contraceptive Management

## Z30.4 Encounter for surveillance of contraceptives

| ICD-10  | Description   |
|---------|---|
| Z30.40  | Surveillance of contraceptives, unspecified   |
| Z30.41  | Surveillance of contraceptive pills   |
| Z30.42  | Surveillance of injectable contraceptive  |
| Z30.430 | Insertion of IUD  |
| Z30.431 | Routine checking of IUD   |
| Z30.432 | Removal of IUD  |
| Z30.433 | Removal and reinsertion of IUD  |
| Z30.49  | Surveillance of other contraceptives <ul style="list-style-type: none"><li>• Medi-Cal: use for implant surveillance and removal</li></ul> |

# IUD Placement Modifiers

| #   | Definition   | Possible Clinical Scenarios   |
|-----|--|---|
| -22 | Increased procedural services                                | <ul style="list-style-type: none"><li>• Complex or difficult insertion</li></ul>  |
| -25 | Significant, separately identifiable E/M service             | <ul style="list-style-type: none"><li>• Patient came in for general contraceptive counseling, ends up choosing IUD or implant, and it is inserted that day</li></ul>                |
| -51 | Multiple procedures on the same day, during the same session | <ul style="list-style-type: none"><li>• Removal of IUD and insertion of new IUD on the same day</li><li>• Removal of implant and insertion of new implant on the same day</li></ul> |

# IUD Placement Modifiers

| #   | Definition             | Possible Clinical Scenarios  |
|-----|------------------------|--|
| -52 | Failed procedure       | <ul style="list-style-type: none"><li>• Provider couldn't complete procedure for anatomic reasons (eg. stenosis)</li></ul>   |
| -53 | Discontinued procedure | <ul style="list-style-type: none"><li>• Patient changed mind during procedure</li><li>• Severe pain</li><li>• Vasovagal</li><li>• Clinician feels there is a threat to the patient's well-being and discontinues procedure</li></ul> |
| -76 | Repeat procedure       | <ul style="list-style-type: none"><li>• Successful insertion but the IUD is expelled, followed by repeat insertion</li></ul>   |

# ACOG on CPT + E/M Visit

- If she states “I want an IUD,” followed by discussion, consent, and placement, an E/M code is not reported
- If all options are discussed and an implant or IUD is placed, an E/M and CPT codes may be reported
- If seen for another reason and a procedure is performed, E/M and CPT codes may be reported (turn-around visit)



## ACOG on CPT + E/M Visit

- Modifier -25 added to *the E/M code*
- If reporting E/M and CPT code, documentation must indicate a “significant, separately identifiable” service
  - E/M level using “3 key components” or time

# ACOG on Ultrasound with IUD Insertion

- An ultrasound to check IUD placement is not bundled into the IUD insertion (code 58300), and it is not common practice to use ultrasound to confirm placement. This should not be billed.
- Ultrasonography may be used to confirm the location when the clinician incurs *a difficult IUD placement* (e.g., severe pain)
  - Code 76857 Ultrasound, pelvic, limited or follow-up, or
  - Code 76830 Ultrasound, transvaginal
- Occasionally, ultrasound is needed to guide IUD insertion. Code 76998 (Ultrasonic guidance, intraoperative)

# Case Study 1: Answer

|           | CPT/ HCPCS II Code     | ICD-10-CM Code                     |
|-----------|------------------------|------------------------------------|
| Procedure | 58300 Insert IUD       | Z30.430 Insertion of IUC           |
| Supply    | Check with payer       |                                    |
| Drug      | J7301 LNG-IUS, 13.5 mg | Z30.430 Insertion of IUC           |
| Lab       | 81025 UPT              | Z32.02 Preg exam or test, negative |
| E/M       | 99212                  | Z 30.09 Other FP advice            |
| Modifier  | 99212-25               |                                    |

- -25 indicates that a significant and separately identifiable E/M was provided on the same date of service as a procedure



## Case 2: IUD Removal and Implant Insertion

- Ms. P, an established patient, sees Dr. Q
- She had an IUD inserted 5 years ago but is now experiencing bleeding and cramping
- Dr. Q does an expanded problem-focused exam and takes additional history
- They discuss removal of the IUD and other possible contraceptive methods.
- After a brief discussion, Ms. P requests an implant
- Dr. Q removes the IUD and inserts an implant

## Case Study 2: Answer

|           | CPT code   | ICD-10-CM code              |
|-----------|--|-----------------------------|
| Procedure | 11981 (implant insertion)                          | Z30.018 (implant insertion) |
|           | 58301-51 (IUD removal)                             | Z30.432 (IUD removal)       |
| Supplies  | Check with payer for IUC removal, none for implant |                             |
| Drug      | J7307 (ETG implant)                                | Z30.018                     |
| Lab       | None   |                             |
| E/M       | 99212 or 99213                                     | N92.6 (Irreg.menstruation)  |
| Modifier  | 11981-51   |                             |

- Code 11981 reported 1<sup>st</sup> because it has higher RVU (2.67 vs. 2.54)
- Modifier 51 (multiple procedures) is added to the lesser procedure

## Case 3: Difficult IUC Insertion

- Ms. T sees Dr. U, and requests insertion of a copper intrauterine contraceptive
- Ms. T weighs 220 lbs and has a BMI of 40.2
- Dr. U inserts an IUD with some difficulty due to Ms. T's body habitus
- How should Dr. U code for this visit?

## Case Study 3: Answer

|           | CPT code                           | ICD-10-CM code  |
|-----------|------------------------------------|---|
| Procedure | 58300 (IUD insertion)              | Z30.430 (insertion of IUD)<br>Z68.41 (BMI of 40-44.9) |
| Supply    | Check with payer for IUC insertion |   |
| Drug      | J7300 (copper IUC)                 | Z30.430   |
| Lab       | None                               |   |
| E/M       | None                               |   |
| Modifier  | 58300-22                           |   |

- Dr. U documents the additional work, complexity, and risk to the patient to support use of the modifier – 22
- Include med record note or explain in claim “remarks box”



## Case Study 4: Discontinued IUC Insertion

- Ms. X, a new patient, requests insertion of an IUD
- After consent, Dr. Y attempts to insert a copper IUD
- Dr. Y tries to insert the IUC several times, but the patient has a stenotic cervical os and having pain. Dr. Y desists
- Dr. Y discusses other methods of contraception with Ms. X and she decides to try OCs
- This conversation lasts 20 minutes. The total time of the office visit was 35 minutes

ACOG

LARC Billing Quiz

# Modifier-52 vs. Modifier-53

## Failed or Discontinued Procedures

- **Modifier-52 (reduced services)**: procedure is started but can't be finished for technical reasons
  - Essure procedure: 1 coil successfully placed in one tube but the second could not be placed EMB attempted but not completed 2° to stenosis
- **Modifier -53 (discontinued procedure)** owing to concerns regarding patient toleration of the procedure
  - Vaso-vagal episode during sounding
  - Perforation during IUD insertion

## Case Study 4: Answer

|                | CPT code   | ICD-10-CM code  |
|----------------|--|---|
| Procedure      | 58300 IUC insertion                                | Z30.430 (IUD Insertion)   |
| Supply or Drug | J7300 (intrauterine copper contraceptive)          | Z30.430 (IUD Insertion)   |
| Lab            | None   |   |
| E/M            | 99203-25 (new patient office visit) for counseling | Z30.09 Encounter for other general counseling and advice on contraception |
| Modifier       | 58300-53   |   |

- Modifier -53 indicates that the procedure was attempted but discontinued because of pain

## Case 5: Post-SAB IUC Insertion

- Ms. N is 10 weeks pregnant and sees Dr. O because of vaginal bleeding
- She had seen Dr. O previously for obstetric care
- Dr. O performs an exam, asks questions, and performs a limited ultrasound
- She decides Ms. O is having a miscarriage and suggests immediate treatment
- Ms. N also requests insertion of a copper IUD
- Dr. O completes the miscarriage surgically and inserts an IUD during this visit

ACOG

LARC Billing Quiz

## Case Study 5: Answer

|           | CPT code   | ICD-10-CM code  |
|-----------|--|---|
| Procedure | 59812 (incomplete abortion completed surgically) | O03.39 (Incomplete spontaneous abortion with other complications) |
|           | 58300-51 (IUD insert)                            | Z30.430 (insertion of IUD)  |
|           | 76817 (transvag UTZ)                             | O03.39  |
| Drug      | J7300 (copper IUD)                               | Z30.430   |
| Supplies  | Check with payer                                 |   |
| Lab       | Rh type  |   |
| E/M       | None   |   |
| Modifier  | None   |   |

# Advanced Cases

# References

- Abdel-Aleem, H., d'Arcangues, C., Vogelsong, K. M., Gaffield, M. L., & Gulmezoglu, A. M. (2013). Treatment of vaginal bleeding irregularities induced by progestin only contraceptives. *Cochrane Database Syst Rev*(10), Cd003449.
- American College of Obstetricians and Gynecologists. Long-acting reversible contraception: implants and intrauterine devices. Practice Bulletin no. 121, July 2011. *Obstet Gynecol* 2011;118:184-96. Reaffirmed 2013
- Bahamondes, M. V., Espejo-Arce, X., & Bahamondes, L. (2015). Effect of vaginal administration of misoprostol before intrauterine contraceptive insertion following previous insertion failure: a double blind RCT. *Hum Reprod*, 30(8), 1861-1866.
- Bates, C, Carroll, N and Potter, J. The challenging pelvic examination. *JGIM*. (2011) 650 – 657.
- Caliskan, E., Ozturk, N., Dilbaz, B. O., & Dilbaz, S. (2003). Analysis of risk factors associated with uterine perforation by intrauterine devices. *Eur J Contracept Reprod Health Care*, 8(3), 150-155.

# References

- Cowman, W. L., Hansen, J. M., Hardy-Fairbanks, A. J., & Stockdale, C. K. (2012). Vaginal misoprostol aids in difficult intrauterine contraceptive removal: a report of three cases. *Contraception*, 86(3), 281-284.
- Darney PD. Etonogestrel contraceptive implant [www.uptodate.com](http://www.uptodate.com)
- Dean G, Goldberg AB. Management of problems related to intrauterine contraception. [www.uptodate.com](http://www.uptodate.com)
- Dermish, A. I., Turok, D. K., Jacobson, J. C., Flores, M. E., McFadden, M., & Burke, K. (2013). Failed IUD insertions in community practice: an under-recognized problem? *Contraception*, 87(2), 182-186.



# References

- Dermish A, Turok DK, Jacobson J, Murphy PA, Saltzman HM, Sanders JN., (2016) Evaluation of an intervention designed to improve the management of difficult IUD insertions by advanced practice clinicians. *Contraception*. Jun;93(6):533-8.
- Dijkhuizen K, Dekkers OM, Holleboom CA, et al. Vaginal misoprostol prior to insertion of an intrauterine device: a randomized controlled trial. *Hum Reprod* 2011;26:323-9.
- Edelman AB, et al. (2011) Effects of prophylactic misoprostol administration prior to intrauterine device insertion in nulliparous women. *Contraception*. Sep;84(3):234-9
- Friedlander, E., & Kaneshiro, B. (2015). Therapeutic Options for Unscheduled Bleeding Associated with Long-Acting Reversible Contraception. *Obstet Gynecol Clin North Am*, 42(4), 593-603.

# References

- Grubb, B. P. (2005). Clinical practice. Neurocardiogenic syncope. *N Engl J Med*, 352(10), 1004-1010.
- Guney M, Oral B, Mungan T. Efficacy of intrauterine lidocaine for removal of a “lost” intrauterine device: A randomized, controlled trial. *Obstet Gynecol* 2006;108:119-23.
- Hagemann, C., Heinemann, K., Moehner, S., Reed, S., Unwanted pregnancies among women using intrauterine devices: final results from the Euras-IUD 5-Year Study. *Contraception*, 94(4), 416.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Comparative contraceptive effectiveness of levonorgestrel-releasing and copper intrauterine devices: the European Active Surveillance Study for Intrauterine Devices. *Contraception*, 91(4), 280-283.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2015). Risk of uterine perforation with levonorgestrel-releasing and copper intrauterine devices in the European Active Surveillance Study on Intrauterine Devices. *Contraception*, 91(4), 274-279.
- Heinemann, K., Reed, S., Moehner, S., & Minh, T. D. (2016). Intrauterine devices and the risk of uterine perforations: final results from the EURAS-IUD 5 years study. *Contraception*, 94(4), 387.

# References

- Li YT, Kuo TC, Kuan LC, et al. Cervical softening with vaginal misoprostol before intrauterine device insertion. *Int J Gynaecol Obstet* 2005;89:67-8.
- Lopez, L. M., Bernholc, A., Zeng, Y., Allen, R. H., Bartz, D., O'Brien, P. A., & Hubacher, D. (2015). Interventions for pain with intrauterine device insertion. *Cochrane Database Syst Rev*(7),
- Kaislasuo, J., Suhonen, S., Gissler, M., Lahteenmaki, P., & Heikinheimo, O. (2012). Intrauterine contraception: incidence and factors associated with uterine perforation--a population-based study. *Hum Reprod*, 27(9), 2658-2663.
- Mansour D. The benefits and risks of using a levonorgestrel-releasing intrauterine system for contraception. *Contraception* 2012;85:224-34.
- Reed, S., Heinemann, K. (2016). Events associated with nexplanon insertion and removal: interim results from the nexplanon observational risk assessment study (NORA). *Contraception*, 94(4), 409.
- Mansour, D., Bahamondes, L., Critchley, H., Darney, P., & Fraser, I. S. (2011). The management of unacceptable bleeding patterns in etonogestrel-releasing contraceptive implant users. *Contraception*, 83(3), 202-210.
- Marchi NM, Castro S, Hidalgo M, et al. Management of missing strings in users of intrauterine contraceptives. *Contraception* 2012;86:354-8.

# References

- NEXPLANON® (etonogestrel implant) Full prescribing information. Merck Revised: 07/2014
- Prabhakaran, S., & Chuang, A. (2011). In-office retrieval of intrauterine contraceptive devices with missing strings. *Contraception*, 83(2), 102-106
- Renner, R. M., Nichols, M. D., Jensen, J. T., Li, H., & Edelman, A. B. (2012). Paracervical block for pain control in first-trimester surgical abortion: a randomized controlled trial. *Obstet Gynecol*, 119(5), 1030-1037.
- Renner, R. M., Edelman, A. B., Nichols, M. D., Jensen, J. T., Lim, J. Y., & Bednarek, P. H. (2016). Refining paracervical block techniques for pain control in first trimester surgical abortion: a randomized controlled noninferiority trial. *Contraception*.
- Saav I, Aronsson A, Marions L, et al. Cervical priming with sublingual misoprostol prior to insertion of an intrauterine device in nulliparous women: a randomized controlled trial. *Hum Reprod* 2007;22:2647-52.

# References

- Swenson C, Turok DK, Ward K, et al. Self-administered misoprostol or placebo before intrauterine device insertion in nulliparous women: a randomized controlled trial. *Obstet Gynecol* 2012;120: 341-7.
- Swenson, C., Royer, P. A., Turok, D. K., Jacobson, J. C., Amaral, G., & Sanders, J. N. (2014). Removal of the LNG IUD when strings are not visible: a case series. *Contraception*, 90(3), 288-290.
- Turok, D. K., Gurtcheff, S. E., Gibson, K., Handley, E., Simonsen, S., & Murphy, P. A. (2010). Operative management of intrauterine device complications: a case series report. *Contraception*, 82(4), 354-357.
- Vickery Z, Madden T. Difficult intrauterine contraception insertion in a nulligravid patient. *Obstet Gynecol* 2011;117:391-5.
- Ward, K., Jacobson, J. C., Turok, D. K., & Murphy, P. A. (2011). A survey of provider experience with misoprostol to facilitate intrauterine device insertion in nulliparous women. *Contraception*, 84(6), 594-599.
- Zigler, R. E., & McNicholas, C. (2017). Unscheduled vaginal bleeding with progestin-only contraceptive use. *Am J Obstet Gynecol*, 216(5), 443-450.