Procedures: Word Catheter Placement

Indications

- 1. Symptomatic Bartholin's duct cyst
- 2. Bartholin gland abscesses
- 3. Asymptomatic cysts do not require intervention

Contraindications

- 1. Rule out co-existing diseases such as active local infection unrelated to the abscess for example vaginal candidiasis: may predispose to secondary infection
- 2. Bleeding diathesis: relative contraindication
- 3. Latex allergy: the stem of the word catheter is latex derived and should be avoided in patients who are allergic to latex

Materials

- 1. Sterile gloves
- 2. Antiseptic solution, such as povidone-iodine swab sticks
- 3. Local anesthetic, such as 1 or 2 percent lidocaine
- 4.25 or 30 gauge needle and 3 ml syringe
- 5. Small forceps
- 6.#11 Scalpel
- 7. Culture medium
- 8. Hemostat
- 9. Word catheter
- 10. Small syringe containing 3 ml saline or water
- 11. Gauze pads

PROCEDURE

Positioning

1. Place patient in lithotomy position

Step-by-Step

- 1. Obtain informed consent
- 2. Ensure that the patient does not have any allergies or hypersensitivity reactions to any agents
- 3. Prepare the area of the cyst or abscess with antiseptic solution
- 4. Inject 1-3 ml of local anesthetic at or behind the hymenal ring
- 5. Hold cyst or abscess wall with small forceps or fingers to maintain traction and prevent collapse of the cyst wall after puncture
- 6. Incise cyst or abscess with 5 mm stab incision
 - o 1.5 cm deep, in the introitus at or behind the hymenal ring
 - o If incision is too large, the catheter will fall out

7. Caution:

- o Do not incise on labia majus or minus to avoid increased pain or scarring
- 8. Drain cyst or abscess contents completely by breaking up loculations with hemostat
- 9. Culture abscess and send for microbiologic identification
- 10. Place the Word catheter through the incision, as deep as possible
- 11. Inflate Word catheter balloon with 2-3 ml of saline or water injected into the catheter hub

- 12. Tuck the end of the Word catheter into vagina to minimize discomfort
- 13. Empiric broad spectrum antibiotics may be given if cellulitis or an abscess is present
 - o Ceftriaxone (125 mg IM) or cefixime (400 mg PO x1)
 - To cover E. coli and N. gonorrhoeae
 - c Clindamycin (300 mg PO QID x7 days)
 - To cover anaerobic organisms
 - o Azithromycin (1 g PO x1)
 - If C. trachomatis present

Post-Procedure

- 1. Instruct patient to report redness, fever, pain, abnormal discharge or swelling
- 2. Patient should wear a peripad to absorb discharge
- 3. She should maintain pelvic rest (nothing in the vagina) while the Word catheter is in place
- 4. No post-procedural bleeding is expected therefore any heavy bleeding should be reported urgently
- 5. She may use sitz baths and mild analgesics to treat pain, if present during the first postoperative day or two
- 6. Catheter is left in place for at least 2-4 weeks to promote formation of an epithelialized tract
 - Epithelialization may take six weeks

Pearls

- 1. Insertion of the Word catheter is recommended over repeat incision and drainage, excision, or marsupialization
- 2. Do not overly rely on topical anesthetics
 - o They do little good unless they are left in place long enough to be absorbed
- 3. Word catheters are inexpensive (approx. \$20 each) and can easily be kept available in the primary care physician's office
- 4. Two key steps to success:
 - Insert the pickups alongside the blade while it is still inside the cyst/abscess to keep the lumen defined; and
 - Do not release pressure on the syringe plunger until you are ready to remove the saline syringe
- 5. Usually balloon will easily take entire 3cc of saline without causing patient discomfort
 - o Using less increases chances of premature expulsion
- 6. Use of air in the balloon is not as effective as the air may prematurely deflate the balloon

Complications

- 1. Prolonged pain or discomfort
- 2. Non-healing abscess
- 3. Dyspareunia
- 4. Infection
- 5. Scarring with presence of a mass
- 6. Recurrence
- 7. Catheter may dislodge with sexual intercourse

- 8. Excessive bleeding (rare)
- 9. Septic shock is a rare complication that has been reported after drainage

Follow Up

- 1. Follow up visit in 4-6 weeks when tract appears well epithelialized
 - o Remove catheter by deflating balloon in office
- 2. If recurrent cysts occur, then marsupialization or excision can be performed
- 3. If catheter falls out before tract is epithelialized, may need a repeat word catheter placement, marsupialization or excision
- 4. If problem resolved, follow up to complete resolution

Advantages

- 1. Low recurrence rates with Word catheter (2-15%)
- 2. Inexpensive surgical supplies
- 3. Office procedure
- 4. Less expensive than excision
- 5. Patient can return to work immediately following the procedure
- 6. Effective technique that promotes formation of an epithelialized tract providing additional duct drainage

Cautions

- 1. Bartholin's gland abscess incidence is highest in patients 20-29 years of age
- 2. Abscess in patients older than 40 years of age may be secondary to malignancy
- 3. Incidence of adenocarcinoma is highest among women in their 60s
- 4. Consider excision of the gland under general or regional anesthesia or biopsy of the cyst wall in patients over 40, especially if the abscess is sterile or recurrent
- 5. Screen patient for sexually transmitted diseases (STDs), or treat empirically for gonorrhea or chlamydia

References

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