Bartholin Gland Cyst and Abscess: Word Catheter Placement Simulation

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Pre-Simulation Orientation:
- Multiple procedures are possible with the simulation model including incision and drainage, word catheter placement, or Bartholin Gland Marsupialization
- Based on the chosen simulation, set-up a clinical scenario for the learner

Materials for the Basic Model (cost: $5)
- Large bubble wrap
- Moisturizing lotion
- Food coloring
- Syringe with 18-gauge needle
- Knife, instruments (eg, Word catheter, suture, needle driver, pick-ups, hemostats) for chosen procedure

Additional materials for higher fidelity model:
- Pelvic trainer with silicone vaginal insert (eg, Limbs and Things Surgical Female Pelvic Trainer MK2)
- Silicone Skin (eg, commercially made 3-D MED DSI1202SS or homemade with Dragon Skin FX-Pro)

Steps for Making the Basic Model

1. Cut out a single bubble from a larger sheet of bubble wrap:
2. Mix water, moisturizing lotion, and food coloring:

![Image of mixed ingredients](image1.png)

3. Using a syringe, inject each bubble with 10 mL of the lotion and water mixture:

![Procedural simulation pictures](image2.png)

Procedural simulation pictures of using the pus pocket alone for word catheter placement:

1. Instill with subcutaneous tissue with local anesthetic:

![Injection image](image3.png)
2. Using an 11 blade scalpel, make a stab incision into the skin and abscess/cyst wall:

3. After expressing fluid from the cyst/abscess, insert the word catheter and inflate the balloon with 3 cc of normal saline or water:

Higher Fidelity Model Options

A. Silicone skin
   1. Can be purchased from simulation supply company or homemade using Dragon Skin FX Pro in a plastic mold
2. The bubble wrap pus pocket can either be draped with silicone skin or the silicone skin can be molded around the pus pocket:

Pictures of the bubble wrap pus pocket in use with the silicone skin:
B. Limbs and Things Trainer
1. The model was primarily purchased to teach laparoscopic procedures, but we have found uses for it for office-based gynecologic procedures including Bartholin gland cyst/abscess, office hysteroscopy, punch biopsies, Foley catheter placement, speculum exams, bimanual exams.
2. Pictures of the model being used for teaching placement of a word catheter. The bubble wrap pus pocket was simply placed behind the vaginal mucosa: