



OBGYN Shelf Review

Tim Philip

Practice Questions

- A 23-year-old G1Po pregnant female at 23 weeks presents to clinic for prenatal follow-up. Vitals are unremarkable except for a BP of 145/91. Which of the following is best next step in management?
 - A. Reassurance
 - B. 24-hour urine protein collection
 - C. Abdominal CT scan
 - D. Emergency surgery
 - E. B-hCG levels

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 - A. Chronic hypertension
 - B. Gestational hypertension
 - C. Preeclampsia
 - D. Preeclampsia with severe features
 - E. Normal pregnancy

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 - C. **Preeclampsia**
 - D. Preeclampsia with severe features
 - E. Normal pregnancy

Hypertension & Preeclampsia in Pregnancy

- Chronic hypertension
 - Evidence of HTN outside of pregnancy (e.g.; previously diagnosed)
 - HTN **before** 20 weeks
- Gestational hypertension
 - HTN (140+/90+) **after** 20 weeks
- Preeclampsia
 - HTN after 20 weeks **and** proteinuria (300mg/24h) OR “end-organ dysfunction”
- Severe features
 - BP 160+/110+
 - Platelets < 100k
 - Vision or Neuro symptoms
 - LFTs 2x upper limit of normal
 - Pulmonary edema
- Other info
 - Patient with previous history of preeclampsia **treatment**?
 - Low-dose aspirin starting at 12-weeks continued through pregnancy
 - Patient with previous history of preeclampsia **screening**?
 - 24-h urine protein collection to establish baseline
 - Treatment of preeclampsia
 - **Antihypertensives** (labetalol, nifedipine, alpha-methyldopa, hydralazine); **magnesium sulfate** (seizure prophylaxis)
 - No severe features: deliver at **37 weeks**
 - Severe features: deliver at **34 weeks**

Practice Questions

- A 25-year-old G2P1 pregnant female at 32 weeks presents to clinic for prenatal follow-up. Prenatal ultrasound reveals transverse lie presentation. Which of the following is best next step in management?
 - A. Expectant management
 - B. External cephalic version
 - C. Internal cephalic version
 - D. Expedited delivery
 - E. Cesarean section

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Fetal malposition

- 0-37 weeks
 - No intervention
 - Majority of neonates spontaneously convert to cephalic presentation
- 37+ weeks
 - External cephalic version
- Active labor (at any time)
 - C-section
- 37+ weeks with failed ECV, active labor, or any contraindication to vaginal delivery
 - C-section
- Important contraindications for external cephalic version
 - **Any** indication for C-section (arrest of labor, nonreassuring FHR)
 - Placenta previa or abruption
 - Multiple gestation
 - Ruptured membranes

Practice Questions

- A 27-year-old G3P2 pregnant female at 35 weeks presents to clinic after noticing a gush of fluid this morning. Nitrazine and fern tests of the fluid are positive. Which of the following is best next step in management?
 - A. Expectant management
 - B. Antibiotics and corticosteroids
 - C. Magnesium sulfate
 - D. Delivery
 - E. Cesarean section

Practice Questions

- A 27-year-old G3P2 pregnant female at 35 weeks presents to clinic after noticing a gush of fluid this morning. Nitrazine and fern tests of the fluid are positive. Which of the following is best next step in management?
 - A. Expectant management
 - B. Antibiotics and corticosteroids
 - C. Magnesium sulfate
 - D. Delivery**
 - E. Cesarean section

Premature Preterm Rupture of Membranes (PPROM)

- Preterm = before 37 weeks
- Premature = before the onset of contractions
- Important thresholds
 - < 34 weeks = corticosteroids (promotes fetal lung maturity)
 - < 32 weeks = magnesium sulfate (neuroprotective)
 - > 34 weeks = delivery
- Management
 - < 32 weeks, no signs of infection or compromise: **magnesium sulfate**, steroids, latency antibiotics (reduces risk of chorioamnionitis)
 - < 34 weeks, no signs of infection or compromise: steroids, latency antibiotics
 - < 34 weeks with either **infection** or **fetal compromise**: delivery (+ steroids, antibiotics, +/- magnesium)
 - > 34 weeks: **delivery**, antibiotics

Differential Diagnosis

- Postpartum dyspnea

Differential Diagnosis

- Pulmonary embolism
 - Timing: often **delayed** (days after delivery)
- Amniotic fluid embolism
 - Timing: **immediately** after delivery
 - Unique symptoms: symptoms of DIC (thrombocytopenia, bleeding)

Differential Diagnosis

- Genital ulcers

Differential Diagnosis

- Herpes simplex virus
 - **Multiple, "grouped",** ulcers, "erythematous base"
- Chancroid (*Haemophilus ducreyi*)
 - Severely painful ulcers with **exudate + friable base**
 - Painful inguinal lymphadenopathy with **pus leakage**
- Primary syphilis (*Treponema pallidum*)
 - **Single** painless chancre
- Granuloma inguinale (*Klebsiella granulomatis*)
 - **Multiple** painless ulcers
 - **No lymphadenopathy**
- Lymphogranuloma venereum (*Chlamydia L1-L3*)
 - Small, shallow, painless ulcers
 - **Large, painful, inguinal lymphadenopathy**

Painful

Painless

Differential Diagnosis

- Postpartum hemorrhage

Differential Diagnosis

- Choose between these based on hints in the question
- Tone
 - Uterine atony
 - “Soft” or “Boggy” uterus
 - If **no information** or **hints** given: choose uterine atony (the uterus may not be obviously loose)
- Trauma
 - Cervical or genital laceration
 - “Uterus firmly palpated” (hint that it is not due to uterine atony) + **large** infant or **prolonged** delivery
- Tissue
 - Placenta accreta, increta, or percreta; abnormal placentation
 - “Placenta incompletely delivered” or “retained placenta on U/S” or “fragmented placenta”
- Thrombin
 - Coagulopathy (e.g.; Von Willebrand disease, DIC)
 - **Delayed** bleeding (delivered initially without problems, but hours later developed vaginal bleeding)
 - Look for **family history** or previous **bleeding** with minor trauma
- Other
 - Uterine inversion
 - “Uterus absent to palpation”
 - “Smooth mass protruding from vagina”

Differential Diagnosis

- Third trimester bleeding

Differential Diagnosis

- Placenta previa
 - **Painless bleeding**
 - Vasa previa
 - **Painless** bleeding + **fetal instability** (e.g.; bradycardia)
 - “Bloody show”
 - Can be a normal finding in early labor
 - Small amounts of blood or mucus; **normal** placenta on U/S
 - Placental abruption
 - **Painful** bleeding (look for risk factors: HTN, trauma, cocaine)
 - **High**-frequency contractions
 - Uterine rupture
 - **Painful** bleeding (risk factors: previous **vertical** C-section, uterine surgery)
 - **Loss** of fetal station, **loss** of contractions, “irregular” mass palpated (fetus extending out of uterus)
- Painless bleeding**
- Painful bleeding**

Differential Diagnosis

- Vaginal infections

Differential Diagnosis

- Candidiasis
 - Discharge: **White, thick**, “cottage cheese” appearance
 - pH: **Normal** (< 4.5)
 - Other hints: **Vaginal inflammation**
 - Treatment: Oral fluconazole (topical miconazole if pregnant)
- Bacterial vaginosis
 - Discharge: **Off-white**, **“fishy”** odor
 - pH: **Abnormal** (> 4.5)
 - Other hints: **No inflammation, clue cells**
 - Treatment: Metronidazole for patient **only** (or clindamycin)
- Trichomonas vaginalis
 - Discharge: **Greenish**, **frothy discharge**
 - Other hints: **“Red spots”** on cervix (strawberry cervix), **vaginal inflammation**
 - Treatment: Metronidazole for patient **and** partner! (sexually transmitted infection)

Differential diagnosis

- Benign breast masses

Differential diagnosis

- Fibroadenoma
 - Single, **firm** mass, <30 years old, can vary in size/tenderness with menses
 - Breast cyst
 - Single, **soft** mass, >30 years old
 - Fat necrosis
 - Single, **irregular** mass, may have **ecchymosis**, skin retraction, history of **trauma**
 - Biopsy (differentiates from malignancy): **fat cells, macrophages**
 - Fibrocystic change
 - **Multiple, bilateral** masses, "irregular breast contour", varies with menses
- Healthy, young, nonpregnant women
- Breast engorgement
 - **Bilateral** breast tenderness, warmth, **no fever**
 - Galactoceles
 - **Subareolar, unilateral**, cystic mass, **no fever**
 - Acute mastitis
 - **Unilateral** breast erythema, tenderness + **fever**
 - Breast abscess
 - Same symptoms as mastitis!
 - Look for "**fluctuant mass**" (infection has collected as an abscess)
- Postpartum or pregnancy related

Differential diagnosis

- Acute ovarian-related abdominal pain in a healthy, young female

Differential diagnosis

- Ovarian torsion
 - Unique features: may have history of similar but **less severe** episodes (ovary spontaneously undergoes torsion/resolves)
 - Ultrasound: **decreased** doppler flow, **enlarged** & edematous ovary
- Ruptured ovarian cyst
 - Unique features (if severe): **peritoneal irritation** (rebound, guarding, rigidity), **hemodynamic instability** (fluid loss from ovary -> hypovolemia)
 - Ultrasound: **free fluid** in abdomen

Differential diagnosis

- Oligo and polyhydramnios

Hydramnios

- Normal ranges: **AFI 5-24 cm; deepest pocket 2-8 cm**
- Polyhydramnios
 - Amniotic fluid index (AFI) ≥ 24 cm OR "single deepest pocket" ≥ 8 cm
 - Clinical signs: **enlarged uterus,**
 - Causes: Inability to swallow (esophageal atresia, EA + TEF, duodenal atresia), diabetes, multiple gestation, anencephaly
 - Complications: **PPROM, umbilical cord prolapse,** fetal malposition
- Oligohydramnios
 - AFI < 5 cm OR single deepest pocket < 2 cm
 - Clinical signs: **uterus less than estimated dates,** Potter's sequence (pulmonary hypoplasia, flattened face, dysmorphic limbs)
 - Causes: ACE inhibitors, NSAIDs, renal anomalies, hypertensive disorders (preeclampsia, etc.)
 - Complications: **meconium aspiration, umbilical cord compression**

Rapid Review

- A 57-year-old female with unilateral breast erythema, skin dimpling, and warmth
Inflammatory breast carcinoma
- 52-year-old with history of PCOS presents with post-menopausal bleeding for 1 month
Endometrial carcinoma
- 28-year-old 33 weeks pregnant patient with fever, RUQ pain, rebound and guarding
Appendicitis (uterus displaces appendix upwards in late pregnancy)
- 9-year-old patient with beefy protrusion of tissue at the urethral meatus
Urethral prolapse (treat with topical estrogen)
- 5-year-old with purulent vaginal discharge, mass at vaginal introitus
Vaginal foreign body
- Non-tender abdominal bulge in postpartum patient with no fascial defect on palpation
Rectus abdominis diastasis (typically don't need surgery)

Rapid Review Congenital Anomalies

- Hearing loss, microcephaly, periventricular calcifications
Congenital CMV
- Hydrocephalus, chorioretinitis, diffuse intracranial calcifications
Toxoplasma
- Skin scars, cataracts, limb hypoplasia
Varicella
- Jaundice, cataracts, deafness, “continuous” murmur
Rubella
- Rhinorrhea, skin rash, teeth and bone abnormalities
Syphilis
- Hydrops fetalis
Parvovirus B-19 (other causes of hydrops include alpha thalassemia & CMV)
- Neonatal sepsis, widespread abscesses
Listeria
- Encephalitis, sepsis, vesicular skin lesions
Herpes simplex

Rapid Review

- 62-year-old with post-menopausal bleeding, thickened endometrial stripe, ovarian mass
Granulosa cell tumor
- 16-year-old with amenorrhea and cyclic abdominal pain each month
Imperforate hymen
- 9-year-old female with firm, tender, breast mass posterior to the nipple
Physiologic thelarche (normal breast development; often asymmetric)
- History of multiple miscarriages, positive VDRL, and elevated PTT
Antiphospholipid antibody syndrome (PTT is **falsely** elevated)
- Pregnant woman with fever, dysuria, flank pain
Pyelonephritis (treat with ceftriaxone or other 3rd gen cephalosporins)

Rapid Review

- Pregnant woman at 10 weeks with uterine size larger than estimate dates, severe nausea and vomiting, BP 155/95, markedly elevated B-hCG
Complete hydatidiform mole
- Pregnant patient with twins on ultrasound. One twin has dysmorphic limbs and a flattened face, the other has polyhydramnios and polycythemia
Twin-twin transfusion syndrome (One twin has oligohydramnios, the other has polyhydramnios)
- What type of pregnancy is the previous scenario? (Chorion, amnion)
Monochorionic-diamniotic
- Pregnant woman with severe nausea, vomiting, orthostatic hypotension, ketones in urine
Hyperemesis gravidarum (look for thiamine (B1) deficiency)
- Pregnant woman with anemia, thrombocytopenia, LFTs elevated
HELLP syndrome
- Pregnant woman with severe RUQ pain, thrombocytopenia, profound **hypoglycemia**, elevated LFTs, and **DIC**
Acute fatty liver of pregnancy

Rapid Review

- Erythematous, unilateral nipple rash, itchy, and refractory to steroids
Paget disease of breast (look out for underlying ductal adenocarcinoma!)
- Pregnant patient with fever, uterine tenderness, vaginal discharge, fetal tachycardia
Chorioamnionitis
- 7-year-old female with breast development, onset of menses, and high basal LH
Central precocious puberty
- 17-year-old female with amenorrhea, anosmia, cleft palate
Kallmann syndrome
- 35-year-old female with hirsutism, acne, temporal balding and ovarian mass noted on ultrasound
Sertoli-Leydig tumor



Questions?