

OB-Newborn TEACH Cards

- OB-Newborn TEACH (Teaching Evidence-based medicine **A**nd **C**linical topics in the **H**ospital) Cards is an inpatient curricular tool consisting of topic-based cards designed to guide mini-teaching sessions that enhance both clinical knowledge and evidence-based medicine skills.
- TEACH Cards was developed at the University of Wisconsin-Madison Department of Family Medicine.
- Visit our website:
www.fammed.wisc.edu/teachcards



INSTRUCTIONS

- Choose a card. It should take 5-10 minutes to use. Any team member can lead the discussion.
- Discuss the background questions as a group, and look up the answers as needed.
- Find the answer to the foreground question, or have everyone write their own PICO question.
- Take 5 minutes to look up the PICO answers.
- Share the PICO answers and resources used.

What are the two groups of questions and where can I find answers?

Background Question	Foreground Question
<p>This is a more basic question that answers who, what, where, when, why, and how.</p>	<p>This a specific clinical query: PICO question. Patient population/Problem Intervention/exposure Comparison (if applicable) Outcome</p>
<p>Resources: ACOG Practice Bulletins American Family Physician DynaMed Plus Essential Evidence Plus UpToDate</p>	<p>Resources: Cochrane Database DynaMed Plus Essential Evidence Plus Pub Med TRIP Database</p>

What are some uses for the cards?

- To initiate discussion among team members
- To practice evidence-based medicine
- To guide independent study
- To create a mini presentation

Answers are intentionally not provided.



CARD TOPICS

EARLY PREGNANCY

Ectopic pregnancy
First trimester bleeding
Gestational
trophoblastic disease
Nausea/vomiting
Prenatal screening
Spontaneous abortion
Therapeutic abortion

PREGNANCY CONDITIONS

Abdominal trauma
Bacterial infections
Cholestasis of pregnancy
Complementary/alternative
medicine in pregnancy
Gestational diabetes
Gestational and chronic
hypertension
HELLP syndrome
Intrauterine growth restriction
Late pregnancy bleeding
Obesity in pregnancy
Placenta previa
Post-dates pregnancy

PREGNANCY CONDITIONS

(continued)
Preeclampsia and eclampsia
Substance use in pregnancy
Thyroid disease
Viral infections
VTE in pregnancy

CARD TOPICS

LABOR

Induction of labor
Intrapartum fetal
monitoring
Labor after
cesarean/VBAC
Pre-labor rupture of
membranes (PROM)
TOLAC/VBAC

LABOR COMPLICATIONS

Fetal distress in labor
Intra-amniotic infection
(chorioamnionitis)
Labor dystocia and
augmentation
Operative vaginal delivery
Placental abruption
Preterm labor
Retained placenta
Shoulder dystocia
Uterine rupture

POST-PARTUM

Breastfeeding/lactation
Endometritis
Post-partum contraception
Post-partum depression
Post-partum hemorrhage

CARD TOPICS

NEWBORN

Congenital heart
disease/heart murmur

Developmental
dysplasia of the hip
(DDH)

Hyperbilirubinemia

Intestinal obstruction

Neonatal abstinence
syndrome (NAS)

Neonatal circumcision

Neonatal HSV

Neonatal respiratory
distress

NEWBORN

(continued)

Neonatal resuscitation

Neonatal sepsis

Newborn feeding

Newborn screening/
prevention

Non-accidental trauma (NAT)

ECTOPIC PREGNANCY

Background Questions:

- ✓ What are signs and symptoms of ectopic pregnancy?
- ✓ Discuss risk factors for ectopic pregnancy.
- ✓ How are quantitative hCG levels interpreted? At what level of hCG is a gestational sac visible on ultrasound?
- ✓ Discuss the approach to the evaluation and management of a suspected ectopic pregnancy.

Foreground Questions:

- ✓ In a patient with an unruptured ectopic pregnancy, is treatment with single-dose methotrexate as effective as multi-dose methotrexate?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How do you counsel patients with suspected ectopic pregnancy about potential complications?

FIRST TRIMESTER BLEEDING

Background Questions:

- ✓ What is the differential diagnosis for first trimester bleeding?
- ✓ Discuss the evaluation of first trimester bleeding.
- ✓ What features of the history and physical exam raise suspicion for an ectopic pregnancy?
- ✓ Described how beta-hCG levels can aid in the diagnosis of first trimester bleeding.

Foreground Questions:

- ✓ In women with first trimester bleeding, does fetal cardiac activity on ultrasound predict fetal survival at 20 weeks gestation?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What percentage of patients with first trimester bleeding will have a miscarriage or ectopic pregnancy?

GESTATIONAL TROPHOBLASTIC DISEASE

Background Questions:

- ✓ Define gestational trophoblastic disease (GTD). What disorders are included in this category?
- ✓ Compare and contrast complete and partial hydatidiform moles.
- ✓ What is the work-up for suspected GTD?
- ✓ Discuss management of GTD.

Foreground Questions:

- ✓ In women with complete hydatidiform mole, does chemotherapy reduce the risk of gestational trophoblastic neoplasia?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Describe the guidance and counseling you would give to your patient with GTD who desires to get pregnant in the future.

NAUSEA & VOMITING IN PREGNANCY

Background Questions:

- ✓ Define hyperemesis gravidarum. How is this different from typical nausea/vomiting in early pregnancy?
- ✓ Which other conditions can cause nausea and vomiting in pregnancy?
- ✓ Discuss management of nausea/vomiting in early pregnancy. When would you consider hospitalization?

Foreground Questions:

- ✓ For women in early pregnancy with nausea/vomiting, are dietary supplements (ginger, pyridoxine) vs placebo effective in reducing symptoms of nausea and vomiting?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Is there anything pregnant women can do to prevent prenatal nausea/vomiting?

PRENATAL SCREENING

Background Questions:

- ✓ What are the test options for prenatal aneuploidy screening? When should you obtain cystic fibrosis and hemoglobinopathy screening?
- ✓ How do you counsel patients about the risks and benefits of prenatal aneuploidy screening?
- ✓ Discuss next steps for abnormal genetic screenings.

Foreground Questions:

- ✓ Is non-invasive DNA sequencing (cell-free fetal DNA) more accurate than conventional screening for fetal chromosomal abnormalities?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What is the role of a genetic counselor in the prenatal screening process?

THERAPEUTIC ABORTION

Background Questions:

- ✓ Discuss your approach to pregnancy options counseling.
- ✓ Discuss maternal and fetal indications for pregnancy termination.
- ✓ What are medical and surgical options for termination based on gestational age?
- ✓ What are the complications and risks of termination?

Foreground Questions:

- ✓ Do women who undergo a pregnancy termination have increased risk of mental health disorders?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What are the options for pregnancy termination and adoption in your community?

SPONTANEOUS ABORTION

Background Questions:

- ✓ Define different types of miscarriage: threatened, complete, incomplete, inevitable.
- ✓ What is the diagnostic approach to first and second trimester pregnancy loss?
- ✓ Discuss management options (expectant, medical, and surgical) for first and second trimester pregnancy loss.

Foreground Questions:

- ✓ In women with history of recurrent miscarriage, does progesterone reduce the risk of miscarriage?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What support groups (both local and national) exist for women/families who have experienced a pregnancy loss?

ABDOMINAL TRAUMA IN PREGNANCY

Background Questions:

- ✓ What are leading mechanisms of trauma in pregnancy?
- ✓ Discuss key components of the history and physical exam. How might the physiologic changes of pregnancy affect your evaluation?
- ✓ What are complications of trauma in pregnancy?
- ✓ Discuss the management of pregnant women presenting with blunt abdominal trauma.

Foreground Questions:

- ✓ Are pregnant women who have been discharged after a trauma evaluation compared to those with no trauma history at increased risk of pre-term labor?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:
What resources are available in your community for pregnant women experiencing domestic violence?

BACTERIAL INFECTIONS (GBS, UTI, BV, GC/CHLAMYDIA)

Background Questions: for each infection above:

- ✓ What are risk factors for the infection?
- ✓ How is the infection diagnosed (universal vs selective testing)?
- ✓ How is the infection treated? What follow-up is required after treatment?
- ✓ Discuss complications of untreated infections.

Foreground Questions:

- ✓ For pregnant women with asymptomatic bacteriuria, does duration of antimicrobial course (single-dose vs 3-day vs 7-day), impact cure rate and adverse outcomes?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:
Which antibiotics are safe to use in pregnancy?

CHOLESTASIS OF PREGNANCY

Background Questions:

- ✓ Discuss the risk factors and pathogenesis of cholestasis of pregnancy.
- ✓ What are signs/symptoms of cholestasis of pregnancy?
- ✓ How cholestasis of pregnancy diagnosed?
- ✓ Discuss management and potential complications of cholestasis of pregnancy.

Foreground Questions:

- ✓ Do women with cholestasis of pregnancy compared to pregnant women without cholestasis have an increased risk of developing liver disease in the future?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss other conditions that can cause pruritus during pregnancy.

COMPLEMENTARY AND ALTERNATIVE MEDICINE

Background Questions:

- ✓ What are complementary and alternative medicine (CAM) treatments for nausea during pregnancy?
- ✓ What are CAM treatments for low back and pelvic pain during pregnancy?
- ✓ Discuss CAM approaches for labor augmentation.

Foreground Questions:

- ✓ For women with low back pain in late pregnancy, does osteopathic manipulation therapy (OMT) compared to usual care improve pain?
- ✓ Write your own PICO question, and try to find the answer.

EBM Pearl:

Review the evidence hierarchy. Which type of evidence is the best/highest quality?

GESTATIONAL DIABETES (GDM)

Background Questions:

- ✓ Discuss normal metabolic changes associated with pregnancy. What are risk factors for GDM?
- ✓ Discuss screening and diagnostic testing for GDM. Who should receive early screening?
- ✓ Discuss prenatal and intrapartum management of GDM.
- ✓ Discuss maternal and fetal complications from GDM.

Foreground Questions:

- ✓ In pregnant women with GDM, does treatment with insulin compared to metformin decrease the risk of fetal macrosomia?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Why is hemoglobin A1C a potentially inaccurate measure of blood sugar control in pregnancy?

GESTATIONAL AND CHRONIC HYPERTENSION

Background Questions:

- ✓ Define chronic, gestational, and severe hypertension.
- ✓ Discuss the diagnostic work-up for gestational and chronic hypertension.
- ✓ Discuss antepartum, intrapartum, and post-partum management of gestational hypertension.
- ✓ What treatments are best for acute severe hypertension in pregnancy?

Foreground Questions:

- ✓ For severe gestational hypertension, is oral nifedipine as effective as IV nifedipine for treatment?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What interventions may help reduce the risk of preeclampsia in women with gestational hypertension?

HELLP SYNDROME

Background Questions:

- ✓ What is HELLP syndrome, and what are the diagnostic criteria?
- ✓ What are the signs and symptoms of HELLP syndrome?
- ✓ Discuss management of HELLP syndrome.
- ✓ What are potential complications of HELLP syndrome?

Foreground Questions:

- ✓ In pregnant women with HELLP, does treatment with corticosteroids compared to placebo improve maternal morbidity and mortality?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What are the symptoms and lab findings of disseminated intravascular coagulation (DIC)?

INTRAUTERINE GROWTH RESTRICTION

Background Questions:

- ✓ Discuss possible causes of size vs dates discrepancy, including both maternal and fetal factors.
- ✓ Discuss the definition of IUGR and risk factors.
- ✓ What is the role of serial growth ultrasounds in IUGR?
- ✓ Discuss management of IUGR and indications for delivery.

Foreground Questions:

- ✓ In pregnancies with IUGR, does Doppler ultrasound of umbilical circulation reduce perinatal death?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How accurate is ultrasound in predicting fetal size?

LATE PREGNANCY BLEEDING

Background Questions:

- ✓ What is the differential diagnosis of late pregnancy bleeding (>20 weeks gestation)?
- ✓ Discuss components of the history and physical for a patient presenting with late pregnancy bleeding.
- ✓ What lab and imaging tests are recommended?
- ✓ What are potential complications of late pregnancy bleeding?

Foreground Questions:

- ✓ Is idiopathic late pregnancy bleeding compared to no bleeding associated with increased risk of perinatal mortality?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How do you counsel patients about the difference expected bleeding vs concerning bleeding during pregnancy?

OBESITY IN PREGNANCY

Background Questions:

- ✓ What is the recommended weight gain in pregnancy based on pre-gravid BMI?
- ✓ Discuss the prenatal work-up for obese patients.
- ✓ What are antepartum, intrapartum, and postpartum complications of maternal obesity for mother and baby.
- ✓ Discuss how obesity impacts labor management.

Foreground Questions:

- ✓ In obese pregnant women, does weight loss compared to normal weight gain during pregnancy decrease the risk for emergent cesarean delivery?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How do you talk about weight gain with a pregnant patient? What management options would you recommend?

PLACENTA PREVIA

Background Questions:

- ✓ Describe the different types of placenta previa.
- ✓ What are risk factors for placenta previa and how might it present?
- ✓ How would you manage a patient with placenta previa or low-lying placenta during pregnancy and delivery?
- ✓ What are maternal and fetal complications of placenta previa?

Foreground Questions:

- ✓ In patients with placenta previa, does cervical cerclage reduce the risk of preterm delivery before 34 weeks?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What percentage of low-lying placentas detected early in pregnancy migrate out of the lower uterine segment?

POST-TERM PREGNANCY

Background Questions:

- ✓ Define late-term and post-term pregnancy.
- ✓ What are risk factors for late-term and post-term pregnancy?
- ✓ What are the maternal and fetal complications of late-term and post-term pregnancy?
- ✓ Discuss guidelines for antenatal testing and induction in late-term and post-term pregnancy.

Foreground Questions:

- ✓ In pregnant women at term, does membrane sweeping vs expectant management reduce the risk of post-term pregnancy?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What is the most common cause of post-term pregnancy?

PREECLAMPSIA AND ECLAMPSIA

Background Questions:

- ✓ What are risk factors for developing preeclampsia?
- ✓ What are the diagnostic criteria for preeclampsia with and without severe features?
- ✓ Discuss management of preeclampsia with and without severe features.
- ✓ Discuss management of new postpartum preeclampsia.

Foreground Questions:

- ✓ For women with history of preeclampsia, does aspirin reduce the risk of preeclampsia during future pregnancies?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How would you manage a patient with an intrapartum seizure?

SUBSTANCE USE IN PREGNANCY

Background Questions:

- ✓ Discuss possible adverse effects to fetus and mother when the following substances are used prenatally: tobacco, alcohol, marijuana, cocaine, heroin/opioids.
- ✓ What are treatment options for pregnant women who want to decrease tobacco use?
- ✓ Discuss your role as a physician regarding mandated reporting when a pregnant woman is using substances.

Foreground Questions:

- ✓ For pregnant women with opioid dependence, does treatment with methadone or suboxone result in better neonatal outcomes (ie. incidence of NAS)?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What resources are available in your community for pregnant women with substance use or abuse?

THYROID DISEASE IN PREGNANCY

Background Questions:

- ✓ Describe normal changes in thyroid physiology during pregnancy.
- ✓ What are normal ranges of TSH during each trimester?
- ✓ Discuss management of hypothyroidism in pregnancy.
- ✓ What are maternal and fetal complications of untreated hypothyroidism during pregnancy?

Foreground Questions:

- ✓ For women in early pregnancy, does universal thyroid screening versus selective screening decrease risk for maternal and fetal complications from thyroid disease?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What are the signs and symptoms of post-partum thyroiditis?

VIRAL INFECTIONS (HSV, HPV, HBV, HIV, INFLUENZA)

Background Questions: for each infection above:

- ✓ What are risk factors for the infection?
- ✓ How is the infection diagnosed (universal vs selective testing)?
- ✓ How is the infection treated? What follow-up is required after treatment?
- ✓ Discuss complications of untreated infections?

Foreground Questions:

- ✓ In pregnant women with HIV, does initiation of antiretroviral therapy in the first compared to the second trimester result in lower rates of fetal HIV transmission?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Which viral infections in a mother are contraindications to breastfeeding?

VTE IN PREGNANCY

Background Questions:

- ✓ Describe how physiologic changes in pregnancy increase the risk of VTE.
- ✓ What are risk factors for VTE in pregnant women?
- ✓ What are the appropriate diagnostic tests to evaluate for DVT or PE in pregnancy?
- ✓ Discuss preferred anticoagulants in pregnancy and breastfeeding.

Foreground Questions:

- ✓ In women with inherited thrombophilia and prior pregnancy loss, does prophylactic low-molecular-weight heparin improve the live birth rate?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What percentage of pregnancy-associated VTE events occur in the postpartum period?

INDUCTION OF LABOR

Background Questions:

- ✓ What are common indications for labor induction?
- ✓ Discuss induction timing for gestational diabetes, hypertension, IUGR, cholestasis, obesity & post-term.
- ✓ Describe risks/benefits and indications/contraindications for the following induction methods: cervical ripening, oxytocin, amniotomy, Cook catheter.

Foreground Questions:

- ✓ For women undergoing induction of labor, do mechanical methods versus pharmacologic methods reduce risk of cesarean delivery?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Describe the Bishop score. How does this impact the decision for cervical ripening/labor induction?

INTRAPARTUM FETAL MONITORING

Background Questions:

- ✓ What are indications for continuous electronic fetal monitoring (EFM)?
- ✓ Describe features of category I, II, and III fetal heart tracings, including different types of decelerations.
- ✓ What are contraindications & risks associated with fetal scalp electrodes & intrauterine pressure catheters?

Foreground Questions:

- ✓ In women at low risk of labor complications, does obtaining a short continuous fetal heart tracing on admission decrease fetal and neonatal death compared with intermittent auscultation?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:
Discuss causes of fetal tachycardia during labor.

LABOR AFTER CESAREAN/VBAC

Background Questions:

- ✓ What are the indications/contraindications for labor after cesarean (LAC)?
- ✓ Discuss factors that increase and decrease the likelihood of a successful vaginal birth after cesarean.
- ✓ What are potential complications of LAC?
- ✓ Discuss special considerations for intrapartum management of LAC (monitoring, induction, augmentation).

Foreground Questions:

- ✓ In pregnant patients, does LAC vs elective repeat cesarean delivery increase the risk of hysterectomy?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How do you counsel a patient deciding between a repeat cesarean vs LAC about the risks/benefits of LAC/VBAC?

PRE-LABOR RUPTURE OF MEMBRANES (PROM & PPROM)

Background Questions:

- ✓ Define PROM and preterm PROM (PPROM) and discuss risk factors.
- ✓ Discuss the evaluation of potential PROM or PPROM.
- ✓ How do you manage PROM?
- ✓ Discuss management of PPROM based on gestation age.

Foreground Questions:

- ✓ For women with PPROM, does amnioinfusion compared to no amnioinfusion reduce the risk of neonatal death?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

For women with PROM, what are potential maternal and neonatal infection complications?

FETAL DISTRESS IN LABOR

Background Questions:

- ✓ What are potential causes of fetal distress during labor?
- ✓ Discuss findings on fetal heart tracing (FHT) and tocometry that may indicate fetal distress.
- ✓ List ways to manage fetal distress, both pharmacologic and non-pharmacologic.
- ✓ What are the indications and protocol for amnioinfusion?

Foreground Questions:

- ✓ In a fetus with non-reassuring FHT, is non-reactivity to fetal scalp stimulation predictive of neonatal morbidity and mortality?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss the roles of members of the health care team during an episode of fetal distress.

INTRA-AMNIOTIC INFECTION (CHORIOAMNIONITIS)

Background Questions:

- ✓ What are the diagnostic criteria for IAI during labor and how is a definitive diagnosis achieved?
- ✓ What are the main risk factors for developing IAI?
- ✓ Discuss management of IAI.
- ✓ Discuss adverse neonatal outcomes associated with IAI.

Foreground Questions:

- ✓ In women with IAI during labor, do additional post-partum antibiotics compared to no post-partum antibiotics lead to improved maternal outcomes?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:
Discuss causes of maternal tachycardia during labor.

LABOR DYSTOCIA & AUGMENTATION

Background Questions:

- ✓ Define labor dystocia.
- ✓ What are potential causes of labor dystocia?
- ✓ Discuss pharmacologic and non-pharmacologic methods for labor augmentation including their indications and contraindications.
- ✓ What are potential complications of both labor dystocia and labor augmentation?

Foreground Questions:

- ✓ In women with labor dystocia, is high dose oxytocin compared to low dose oxytocin associated with increased rates of spontaneous vaginal birth?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss possible strategies for preventing labor dystocia.

OPERATIVE VAGINAL DELIVERY

Background Questions:

- ✓ What are the indications and contraindications for operative/assisted vaginal delivery?
- ✓ How do you decide to use a vacuum vs forceps?
- ✓ Discuss the steps you would take to do a vacuum-assisted delivery (ie. ALSO steps A-J).
- ✓ Discuss potential complications of assisted delivery.

Foreground Questions:

- ✓ In patients requiring operative vaginal delivery, is forceps compared to vacuum-assisted delivery more likely to successfully achieve a vaginal birth?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What type(s) of vacuum cups are available at your institution? How do you use them?

PLACENTAL ABRUPTION

Background Questions:

- ✓ What are risk factors for placental abruption?
- ✓ Describe the signs and symptoms of placental abruption.
- ✓ Discuss the management of placental abruption.
- ✓ What are the maternal and fetal complications of placental abruption?

Foreground Questions:

- ✓ In women at risk of preeclampsia, does vitamin C and E supplementation during pregnancy reduce the risk of placental abruption?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How sensitive is ultrasound in making the diagnosis of placental abruption?

PRETERM LABOR

Background Questions:

- ✓ What are risk factors for preterm labor?
- ✓ Discuss the evaluation of a patient presenting with signs of preterm labor.
- ✓ What medications are indicated in the management of preterm labor before 32 weeks? Before 37 weeks?
- ✓ What are possible neonatal complications of preterm delivery?

Foreground Questions:

- ✓ In women with a history of preterm birth, does vaginal progesterone compared to intramuscular progesterone decrease the risk of recurrent preterm birth?
- ✓ Write your own PICO question, and try to find the answer.

EBM Pearl:

Define NPV and PPV. What are the NPV and PPV of fetal fibronectin for delivery within 14 days?

RETAINED PLACENTA

Background Questions:

- ✓ Define retained placenta.
- ✓ What are causes and risk factors for retained placenta?
- ✓ Discuss the management of retained placenta.
- ✓ What are possible complications of retained placenta?

Foreground Questions:

- ✓ In women with singleton pregnancy, does active management of the third stage of labor compared to expectant management reduce the rate of retained placenta?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

In what percentage of vaginal deliveries does the placenta deliver within the first 15 minutes of the third stage of labor?

SHOULDER DYSTOCIA

Background Questions:

- ✓ Define shoulder dystocia.
- ✓ What are risk factors for shoulder dystocia?
- ✓ Describe the maneuvers for releasing the impacted shoulder.
- ✓ What are the maternal and fetal complications of shoulder dystocia?

Foreground Questions:

- ✓ Does induction of labor between 37-39 weeks for suspected fetal macrosomia compared to expectant management reduce the incidence of shoulder dystocia and increase the rate of spontaneous vaginal delivery?
- ✓ Write your own PICO question, and try to find the answer.

EBM Pearl:

Discuss EBM resources you use and tips for point of care literature searches.

STILLBIRTH

Background Questions:

- ✓ Define stillbirth.
- ✓ What are risk factors for stillbirth?
- ✓ What tests are indicated in the evaluation of a stillborn infant? What postpartum tests are recommended for the mother?
- ✓ Discuss labor management in the setting of stillbirth and possible complications.

Foreground Questions:

- ✓ In overweight and obese women, does a 10% reduction in pre-pregnancy BMI reduce the risk of stillbirth?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss the resources/protocol for stillbirth at your hospital.

UTERINE RUPTURE

Background Questions:

- ✓ What conditions and risks factors are associated with uterine rupture?
- ✓ What are signs and symptoms of uterine rupture during labor?
- ✓ Discuss management of uterine rupture.
- ✓ What are potential complications of uterine rupture?

Foreground Questions:

- ✓ In patients undergoing TOLAC, is a short interpregnancy interval (<18 months) compared to a longer interval associated with increased risk of uterine rupture?
- ✓ Write your own PICO question, and try to find the answer.

EBM Pearl:

What is the difference between relative risk and odds ratio?

BREASTFEEDING/LACTATION

Background Questions:

- ✓ What are benefits of breastfeeding for mother and baby? When is breastfeeding contraindicated?
- ✓ What are possible causes of poor latch and how would you counsel a new mother struggling with latch?
- ✓ What is the differential diagnosis for breast pain and nipple pain in a lactating woman?
- ✓ What treatments can help to increase milk supply?

Foreground Questions:

- ✓ In breastfed infants, does pacifier use decrease breastfeeding rates and duration?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What lactation support groups and milk donation groups exist in your community?

ENDOMETRITIS

Background Questions:

- ✓ Discuss risk factors and prevention strategies for postpartum endometritis.
- ✓ What are signs and symptoms of endometritis?
- ✓ What tests are recommended in the evaluation of a patient with suspected endometritis?
- ✓ Discuss potential complications of endometritis.

Foreground Questions:

- ✓ In patients with postpartum endometritis, does treatment with clindamycin + aminoglycoside result in less treatment failure compared to other regimens?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What is the incidence of postpartum endometritis?

POSTPARTUM CONTRACEPTION

Background Questions:

- ✓ Discuss post-partum contraception methods including pros and cons of each.
- ✓ What are options for immediate post-partum long-acting contraception?
- ✓ Which methods of contraception are safe with breastfeeding?

Foreground Questions:

- ✓ For postpartum women desiring an IUD, does immediate versus interval IUD insertion result in lower rates of IUD expulsion?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

Discuss patient barriers to receiving post-partum contraception, populations at risk, and potential solutions.

POSTPARTUM DEPRESSION

Background Questions:

- ✓ Differentiate between “baby blues” and postpartum depression.
- ✓ Discuss risk factors for postpartum depression.
- ✓ What are potential complications of postpartum depression?
- ✓ Discuss treatment options for postpartum depression.

Foreground Questions:

- ✓ For postpartum women, is breastfeeding compared to not breastfeeding associated with a reduced risk of postpartum depression?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Familiarize yourself with the Edinburgh Postnatal Depression Scale.

POSTPARTUM HEMORRHAGE

Background Questions:

- ✓ What are risk factors for postpartum hemorrhage (PPH)?
- ✓ What are the causes of PPH? (hint: “the 4 T’s”)
- ✓ Discuss treatments for PPH and their contraindications.
- ✓ What strategies are effective for prevention of PPH?

Foreground Questions:

- ✓ In patients with postpartum hemorrhage, does administration of tranexamic acid in addition to uterotonics reduce maternal mortality?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss how to estimate blood loss following a vaginal delivery.

CONGENITAL HEART DISEASE/HEART MURMUR

Background Questions:

- ✓ What are common causes of heart murmur in the newborn? What features of a murmur suggest significant cardiac pathology?
- ✓ Discuss common congenital heart defects and their associated signs and symptoms.
- ✓ When is an echocardiogram indicated? What other tests should be performed for suspected CHD?

Foreground Questions:

- ✓ For newborn heart murmurs, are general pediatricians, neonatologists, or pediatric cardiologists able to most accurately diagnose the murmur?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss the differences between a normal ECG in a neonate, child, and adult.

DEVELOPMENTAL DYSPLASIA OF THE HIP (DDH)

Background Questions:

- ✓ List risk factors for developmental dysplasia of the hip (DDH).
- ✓ Describe the pathophysiology of DDH.
- ✓ Discuss diagnosis of DDH with exam and ultrasound.
- ✓ Discuss management of DDH. When are splints and surgery indicated?

Foreground Questions:

- ✓ In newborns, does screening for DDH with ultrasound plus clinical exam vs. clinical exam alone decrease the need for surgical treatment?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What is hippotherapy, and how can it help older children with hip dysplasia?

HYPERBILIRUBINEMIA

Background Questions:

- ✓ What are signs and symptoms of hyperbilirubinemia?
- ✓ Discuss risk factors and lab work-up for newborn jaundice and hyperbilirubinemia.
- ✓ Discuss the management approach for a newborn with hyperbilirubinemia.
- ✓ Discuss potential complications of hyperbilirubinemia.

Foreground Questions:

- ✓ In term and preterm newborns, is transcutaneous bilirubin as accurate as serum bilirubin at measuring total bilirubin level?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

In a breastfed infant with hyperbilirubinemia, when is supplementation with formula indicated?

INTESTINAL OBSTRUCTION

Background Questions:

- ✓ In what time frame should a neonate pass stool?
- ✓ Discuss the differential diagnosis for failure to pass meconium (neonatal intestinal obstruction).
- ✓ Discuss the diagnostic approach for a newborn with intestinal obstruction.
- ✓ Discuss empiric management of intestinal obstruction.

Foreground Questions:

- ✓ In infants being evaluated for Hirschsprung disease, is contrast enema vs. anal manometry a more accurate diagnostic test?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Discuss risk factors for neonatal intestinal obstruction.

NEONATAL ABSTINENCE SYNDROME

Background Questions:

- ✓ Discuss risk factors and symptoms of NAS.
- ✓ Review scoring systems for NAS and determine which system your hospital uses.
- ✓ What is the timing of withdrawal symptoms after birth based on specific substance exposure?
- ✓ Discuss supportive and pharmacologic management of NAS.

Foreground Questions:

- ✓ In newborns at risk for NAS, does breastfeeding vs. formula feeding reduce the severity of NAS?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

When is it necessary to contact child protective services regarding maternal substance use?

NEONATAL CIRCUMCISION

Background Questions:

- ✓ Discuss the three circumcision techniques commonly used in the United States.
- ✓ What are contraindications for a circumcision?
- ✓ How would you explain the potential risks and benefits of a circumcision to a baby's parents?
- ✓ Discuss circumcision complications and management.

Foreground Questions:

- ✓ In newborns, is circumcision with the Gomco clamp compared to the Mogen clamp associated with increased parental satisfaction?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

How do you counsel parents about post-circumcision management and expected healing?

NEONATAL HSV

Background Questions:

- ✓ Discuss methods of transmission of neonatal HSV.
- ✓ Describe the clinical presentation of intrauterine, localized, and disseminated neonatal HSV?
- ✓ How is neonatal HSV diagnosed?
- ✓ Discuss management of symptomatic and asymptomatic newborns exposed to HSV.

Foreground Questions:

- ✓ In neonates with HSV, does treatment with acyclovir compared to other antivirals decrease mortality and neurological abnormalities?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:
Discuss strategies
to prevent
neonatal HSV.

NEONATAL RESPIRATORY DISTRESS

Background Questions:

- ✓ What is the differential diagnosis and work-up for neonatal respiratory distress, including apnea events?
- ✓ Discuss the pathophysiology and clinical features of transient tachypnea of the newborn (TTN) and respiratory distress syndrome (RDS).
- ✓ Discuss management of TTN and RDS.

Foreground Questions:

- ✓ In newborns with TTN, does inhaled epinephrine vs placebo improve respiratory status?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What is the recommended approach to feeding a newborn who has TTN?

NEONATAL RESUSCITATION

Background Questions:

- ✓ What resuscitation equipment and drugs should be available at every delivery?
- ✓ Discuss risk factors for neonatal resuscitation.
- ✓ Describe the initial assessment & care of a newborn.
- ✓ Discuss indications for positive pressure ventilation, invasive ventilation & chest compressions in newborns.

Foreground Questions:

- ✓ In non-vigorous term newborns with meconium-stained fluid, does endotracheal vs. oronasopharyngeal suctioning prevent meconium aspiration syndrome?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:
Review the NRP algorithms.

NEONATAL SEPSIS

Background Questions:

- ✓ What are risk factors for neonatal sepsis?
- ✓ What are the signs and symptoms of neonatal sepsis?
- ✓ Discuss the initial evaluation of an infant with fever or suspected neonatal sepsis.
- ✓ What antibiotics are recommended for empiric treatment of neonatal sepsis?

Foreground Questions:

- ✓ In newborns with unlikely or possible infection, does procalcitonin-guided antibiotic therapy reduce antibiotic duration compared to standard treatment?
- ✓ Write your own PICO question, and try to find the answer.

Community Health Pearl:

What resources exist in your local community and hospital for parents who have a child in the NICU?

NEWBORN FEEDING

Background Questions:

- ✓ How do you counsel parents about breastfeeding vs formula feeding?
- ✓ Discuss causes & treatments of breastfeeding difficulty.
- ✓ Discuss the expected growth curve during the first month of life. Describe the differential, work-up, and management of a newborn with poor weight gain.

Foreground Questions:

- ✓ For pregnant women, are breast feeding education programs effective at increasing breastfeeding initiation and duration?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

Describe the evaluation and management of ankyloglossia.

NEWBORN SCREENING/PREVENTION

Background Questions:

- ✓ Discuss the purpose and process of the newborn screening panel, hearing screening & pulse oximetry.
- ✓ Discuss the purpose of newborn preventive treatments: erythromycin ointment, hepatitis B, and vitamin K.
- ✓ Discuss anticipatory guidance for feeding, elimination, cord and skin care, signs of illness, and home safety.

Foreground Questions:

- ✓ Are infants who receive newborn hearing screening compared to those who don't more likely to have improved language skills in early childhood?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

What are the next steps if a newborn screen comes back positive for cystic fibrosis?

NON-ACCIDENTAL TRAUMA

Background Questions:

- ✓ List common physical exam findings of non-accidental trauma (NAT) in neonates.
- ✓ Discuss specific parental or neonatal risk factors that increase the risk of NAT.
- ✓ Discuss diagnostic work-up of suspected NAT.
- ✓ How do you report suspected NAT in your community?

Foreground Questions:

- ✓ In parents who have caused NAT, do parenting education programs decrease future physical abuse or neglect?
- ✓ Write your own PICO question, and try to find the answer.

Teaching Pearl:

If you are concerned about NAT in a newborn, how would you discuss this with the parents?