

# OBGYN Pocket Guide; combining associative learning and narrative medicine for the purpose of improved retention in obstetrics and gynecology residency

Jaclyn D. Nunziato, M.S., M.D. & Alaina A. Lawrence, B.S., C-TAGME  
Obstetrics and Gynecology Department at Carilion Clinic

## Background

- Transitioning from medical school as a fulltime learner with a content heavy curriculum to a fulltime resident which is primarily clinical, is a well-known challenging evolution in medicine.
- In medical school, materials are collated and delivered to learners in a highly structured format.
- During residency, interns are expected to transition from a passive to an independent learner and assimilate information on their own.
- Residents are inundated by educational resources and struggle with extrapolating and then incorporating clinically relevant points into practice.
- This results in interns scoring lower in their specialty specific yearly exams. These yearly exams are called CREOGS in Obstetrics and Gynecology.

## Aim

- To create a pocket guide learning tool that combines two learning modalities:
  - Associative learning: the principal that ideas and experiences reinforce and mentally link to one another through imagery.
  - Narrative medicine: the principal that employs a resident's narrative skills to augment their clinical understanding and retention.
- To create a learning guide to help residents retain information.
- To create a powerful, deeper connection between content and clinical experience.

## Methods

- Our associative learning pocket guide is a collection of commonly used facts referenced in the field of Obstetrics and Gynecology.
- Extrapolated learning points will be presented in a 5x7" spiral bound booklet. Each collection of facts are associated with either an original table, flow chart, or clipart format.
- On the backside of each content page will be two sections; one that outlines critical learning points related to the topic, and another that gives residents the opportunity to use narrative skills to associate their own clinical interactions with patients.
- CREOG scores, percent correct, and percentile rank for interns will be recorded in January 2021 and analyzed for improvement in comparison to the last 5 years of intern scores.

## Results

- The projected results will be better retention of commonly referenced facts and better CREOG scores amongst interns using the pocket guide.

## Conclusion

- This booklet will provide residents with a readily accessible learning tool that will allow them to associate fundamental content with patient experiences to improve understanding and retention of information.

## Sample Guide

### PPROM

Preterm Prelabor Rupture of Membranes complicates 3% of pregnancies. It is defined as the rupture of membranes without the onset of labor at <37 weeks gestation.



#### Risk Factors

- Intraamniotic infections (15-25%, higher for earlier gestational ages)

#### History of PPRM #1

- Short cervical length
- Second and third trimester bleeding
- Placental abruption (2-5%)
- Low BMI
- Cigarette use
- Illicit Drug use

#### Diagnosis (based on history and physical exam)

- Sterile Speculum: Visually assess cervix, **NO GEL, AVOID DIGITAL EXAM**
- Pooling: Collection of clear fluid in posterior vagina
- Ferning: Arborization seen on microscopic evaluation of fluid
- Nitrazine Test: PH assessment of fluid
- **Collect:** Chlamydia trachomatis and Neisseria gonorrhoea from the cervix
- **Collect:** GBS cultures of vagina and rectum
- **Collect:** Urinalysis with culture and sensitivity when indicated
- **Obtain:** Ultrasound for fetal position, EFW, BPP, and AFI

#### Management/Orders

- Latency antibiotics: 23-33.6 weeks
- Magnesium for neuroprotection: 23-32 weeks
  - o 4g bolus followed by 1g/hr. for 12 hrs. if believed to be at risk for imminent delivery
- Steroids: 23-36.6 weeks give Betamethasone 12mg IM q12-24 hrs. x 2 doses. Rescue dose as indicated.
- <34 weeks: antepartum management with steroids, mag and latency antibiotics
- >34 weeks: deliver, no delay for completion of steroids
- No tocolysis

#### PPROM Antibiotic Treatment: 7-day course of Latency Abx

##### Most Common:

IV ampicillin (2g q6) + IV erythromycin (250mg q6) for 48 hrs. Followed by oral amoxicillin (250mg q8) + oral erythromycin (333mg q8) for 5 days

##### Fewer Side Effects:

IV ampicillin (2g q6) + IV azithromycin (500mg q24) for 48 hrs. Followed by oral azithromycin (500mg q24) + oral amoxicillin (250 mg q8) for 5 days

##### PCN allergy (rash)

IV ancef (1g q8) for 48 hrs. + oral azithromycin (1g x 1 dose) Followed by oral keflex (250mg q6) for 5 days

##### For penicillin allergy (anaphylaxis):

IV vancomycin (1g q12) for 48 hrs. + oral azithromycin (1g x 1 dose) Followed by vancomycin (500mg q12) for 5 days. (If clindamycin + erythromycin sensitive cultures, may switch to oral azithromycin (1g x 1 dose) + IV clindamycin (900mg q8) + IV gentamicin (5mg/kg q24) for 48 hrs. Followed by oral clindamycin (300mg q6) for 5 days.

#### CRITICAL LEARNING POINTS for PPRM:

- History of PPRM is #1 risk factor in pregnancy
- Avoid digital exam
- Latency antibiotic regimen given if <34, always verify allergy
- Start steroid course as soon as PPRM is confirmed
- Magnesium for neuroprotection <32 weeks
- Deliver at 34 weeks

#### RESIDENT NARRATIVE:

34 y/o G3P2012 @ 30.2 days presented to triage with LOF at 3am. No ctx. Confirmed rupture with + pooling, visibly closed cervix, + ferning 145bpm, mod variability, + accel, no decels  
A/P:  
- GBS/G/C collected and pending  
- Latency started IV ancef + azitrho for PCN allergy  
- Bmz given 1st dose @ 1223 and Mag for neuroprotection  
- Continuous monitoring and deliver via induction at 34 weeks