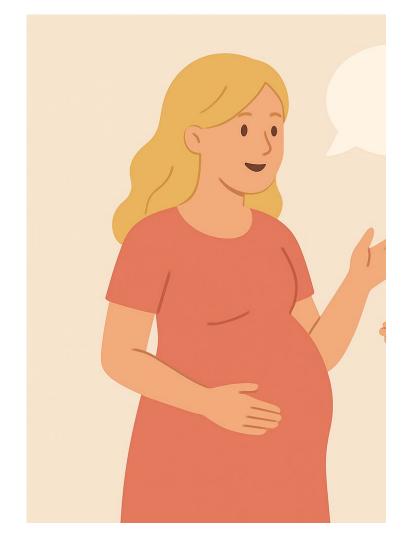
OBSTETRIC EMERGEN

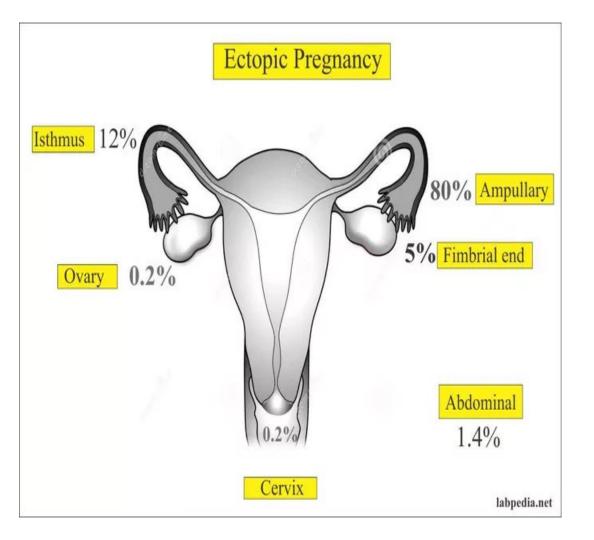
Graci Gorman, MD Regions Hospital St. Paul MN





- 33 year old female with pelvic pain and vaginal spotting
- Under going IVF, positive pregnancy test at home 3 days ago
- HR 120, BP 80/40
- On exam, significant pelvic tenderness, scant vaginal bleeding. Pale in appearance, cool extremities
- FAST exam +RUQ
- ?Diagnosis

RUPTURED ECTOPIC PREGNANC



RISK FACTORS FOR ECTOPIC PREGNANCY

Tubal pathology	Prior ectopic pregnancy Tubal surgery (salpingectomy, tuboplasty) Tubal ligation Congenital tubal abnormalities			
Infections	Pelvic inflammatory disease (PID), prior Chlamydia trachomatis or Neisseria gonorrhoeae infection			
Reproductive technology	Assisted reproductive technology (IVF, ovulation induction)			
Contraceptive use	Intrauterine device (IUD), progestin-only contraception Emergency contraception failur			
Obstetric/ gynecologic	Prior induced abortion Prior miscarriage with fection			
Medical history	Endometriosis Infertility			
Lifestyle	Cigarette smoking Increasing maternal age			

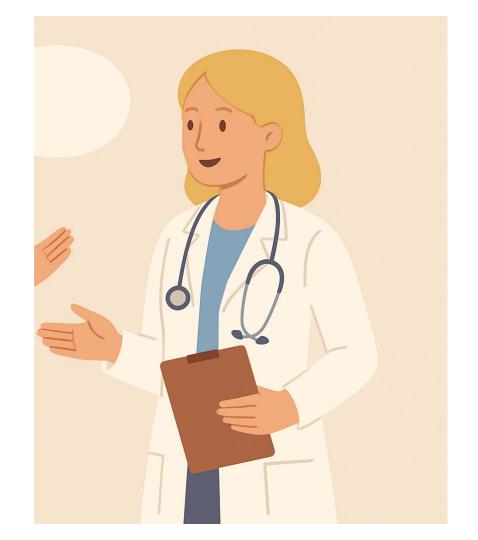
Diagnosis

- Clinical
- Beta hcg
- Ultrasound



Management

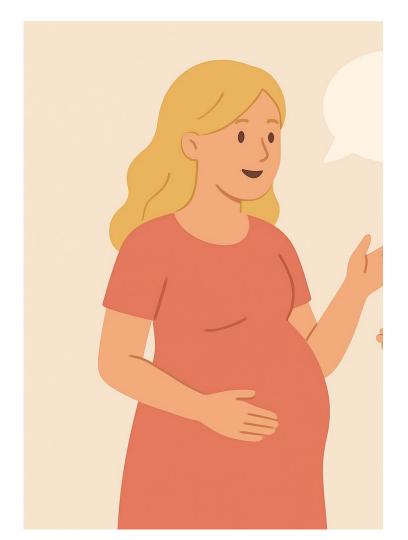
- OR
- Blood products



Follow Up







- CC: 8 weeks pregnant, confusion
- NV for three weeks, minimal PO intake. Unable to tolerate prenatal vitamin
- Taking B6 and reglan without relief
- Onset of confusion the last 2 days.
- Husband describes "making up stories" and walking "like she is drunk"

HYPEREMESIS GRAVIDARUM WERNICKEENCEPHALOPATHY

HYPEREMESIS GRAVIDARUM

DEFINITION



RISK FACTORS

- PRIOR HISTORY
- MULTIPLE GESTATION
- OBESITY
- YOUNGER AGE



COMPLICATIONS OF HYPEREMESIS GRAVIDARUM

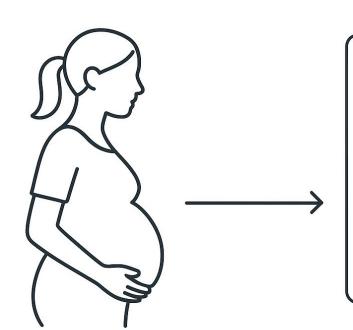


COMPLICATIONS

- DEHYDRATION
- ELECTROLYTE IMBALANCE
- NUTRITIONAL DEFICIENCY



TREATMENT OF HYPEREMESIS GRAVIDARUM



TREATMENT

- FLUID REPLACEMENT
- ANTEMETICS
- VITAMIN SUPPLEMENTS
- HOSPITALIZATION



Antiemetics

- Pyridoxine (B6)
- Antihistamines
 - o Doxylamine
 - O Di phenhydrami ne
- Antidopaminergics
 - o compazine / prochlorperazine
 - o reglan/met ocloprami de
- 5HT3 antagonists
 - o zofran/ondansetron



Follow up

- Admitted for IVF, IV thiamine
- Full neurologic recovery with thiamine supplementation
- D/C home with scheduled IV fluids, IV thiamine, PO antiemetics



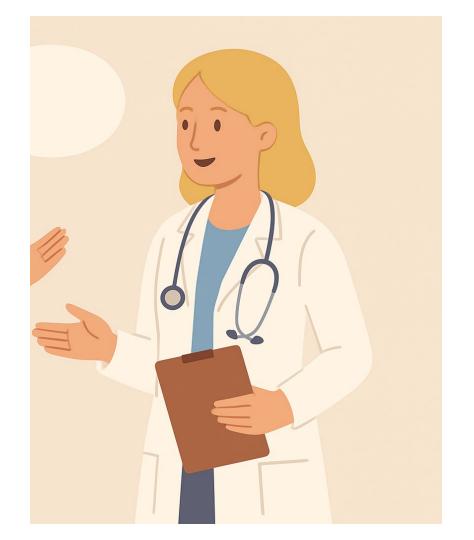


- Cc: headache
- 33F 38 w pregnant arrives with headache and vision changes
- VS reveal BP 145/100
- Shortly after arrival,
 has tonic clonic seizure
 activity

ECLAMPSIA

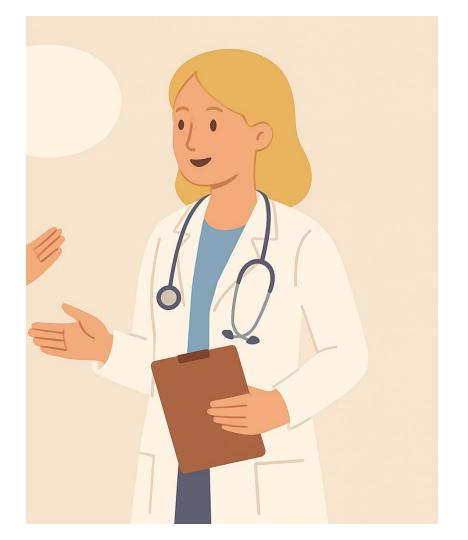
Definition

 generalized tonic clonic seizure during hypertensive disorder of pregnancy



Pathophysiology

• Largely unknown!



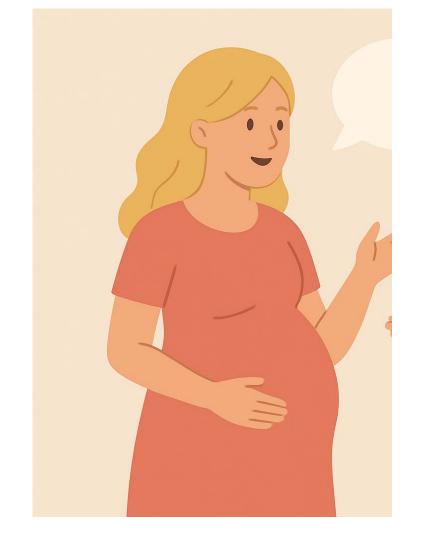
Eclampsia Treatment Algorithm

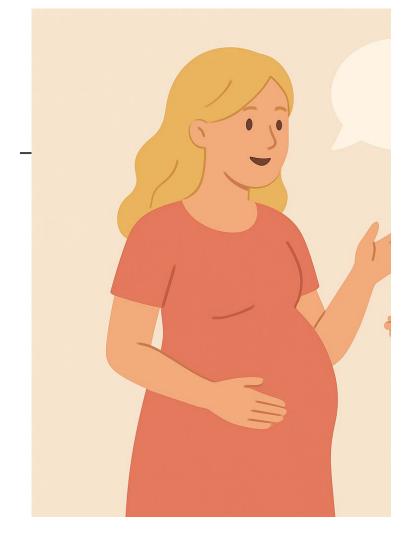
Step	Actions/Medications				
Stabilization	 Ensure airway, breathing, circulation (ABCs) Provide oxygen as needed Position patient on left lateral side Protect from injury during seizure 				
Saizure Control – Magnesjum Sulfate	 Loading dose: 4–6 g IV over 15–20 min i√m Maintenance: 2 g/hr continuous IV infusion If seizure recurs: 2 g IV bolus Monitor: reflexes, urine outpui, respirations Antidote for toxicity: Calcium gluconate 1 g IV 				
Blood Pressure Control	 Treat if SBP ≥160 mmHg or DBP/ ≥110 ml/ mHg Labetalol: 20 mg IV – repeat 40–80 mg q10 min (max: 300 mg) Hydralazine: 5–10 mg IV qv20 min prs needed Nifedipine (oral): 10 mg PO qv20 min prnNma.x 				
Delivery Planning	 Definitive treatment: Delivery after stabilization If not in labor. Induction once stable Cesarean section Only for obstetrin dications Transition to oral antihypertensives as need 				



Follow Up

- Patient given midazolam
 and magnesium with
 cessation of seizure
- BP stabilized with IV labetalol and nicardipine drip
- Proceeds with induction of labor per patient request



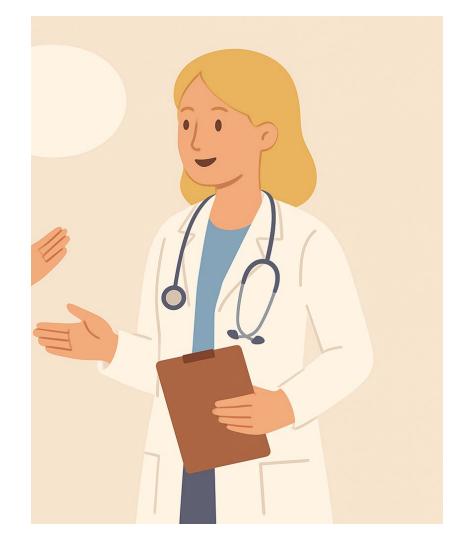


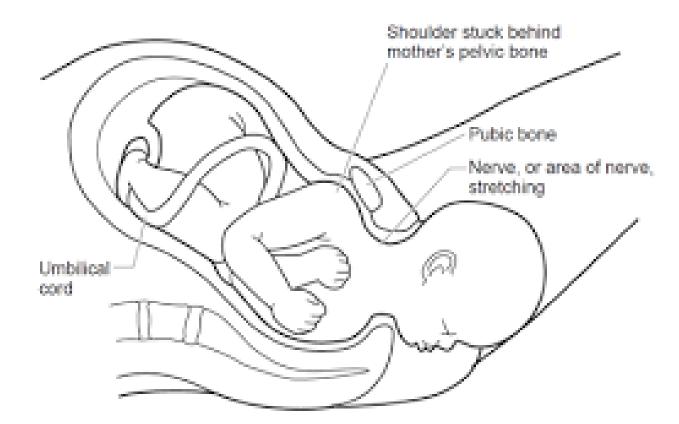
- Following a successfully IOL, patient 10cm dilated and actively pushing
- Upon delivery of fetal head, fetal head retracts slightly despite gentle downward traction
- Rapid response to OB unit called overhead

SHOULDER DYSTOCIA

Definition

• failure to deliver the fetal shoulders solely using gentle downward traction following expulsion of the head.







Management cof Shoulder Dystocia



Call for Help

Announce "Shoulder Dystocia Call atdocess, pediatrics



Initial Maneuvers (First-line)

McRoberts Maneuver
Hyperflex maternal hips parol aring
Suprapubic Pressure
Apply pressure downward and



Evaluate for Progress

If not delivered → proceed to next steps



Secondary Maneuvers

Rubin Maneuver

Push posterior aspet of anterior shouledder

Wood's Corkscrew Maneuver

Rotate posterior shoulder 180°

Deliver Posterior Arm Sweep across chest and out out

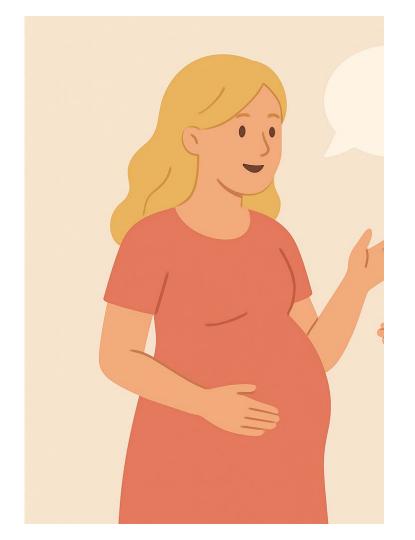


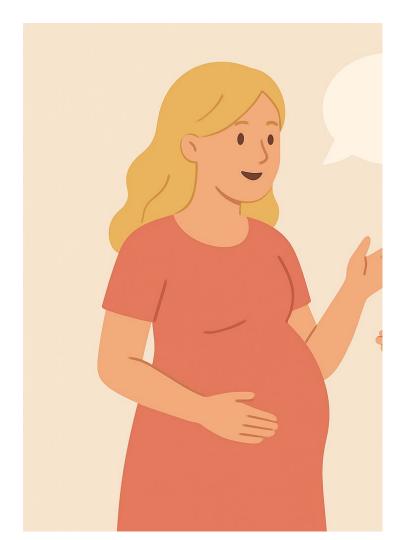
Last Resort / Advanced
Gaskin Maneuver



Follow up

Following failure of
Mcroberts maneuver,
Posterior arm delivered with
successful resolution of
shoulder dystocia



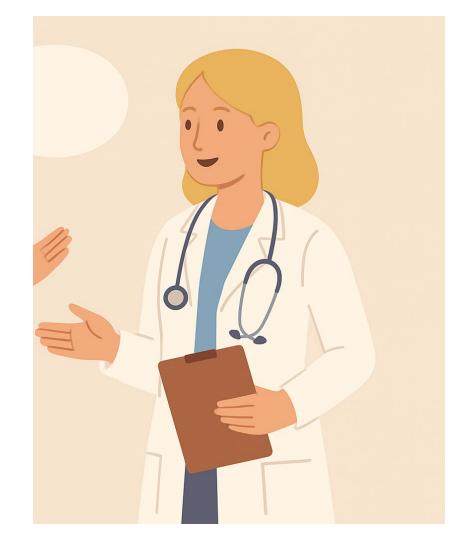


- Rapid response paged overhead to L & D floor
- On arrival to room,
 vigorous baby, mom looks
 ashen. The OB reports
 800cc blood loss shortly
 after delivery with
 ongoing brisk bleeding

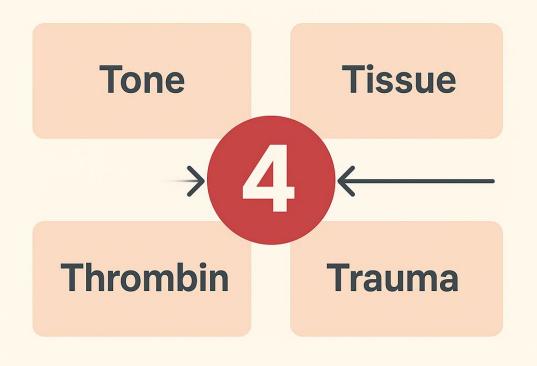
POSTPARTUM HEMORRHAGE

Definition

>1000 mL blood loss with signs + sx of hypovolemia within 24 hrs of birth



4 Ts of Postpartum Hemorrhage





Treatment of Postpartum Hemorhage

Call for help Assess vitals, establish IV access, and start flu-Monitor urine output **Identify & Treat Cause (4 Ts)** • Tone: Uterine massage, uterotonics • Tissue: Remove retained products • Trauma: Repair lacerations or hematomas • Thrombin: Correct coagulopathy **If Ongoing Bleeding** · Tranexamic acid · Bakri balloon or uterine

packing

Escalation

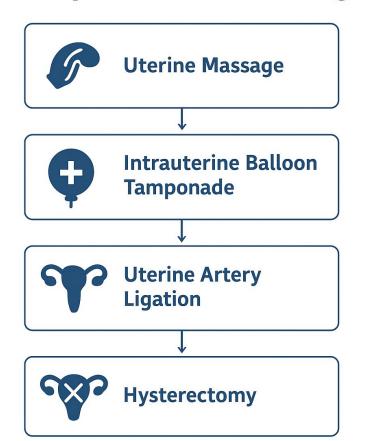


Uterotonic Medications for Postpartum Hemorrhage

M	edication	Dose & Route	Mechanism	Contraindications	Key Side Effects
Ö	Oxytocin	10 IU IM or 20-40 IU in 1.L IV fluid	Stimulates uter- ine smooth muscle	None (in recommended doses)	Hyponatremia (rare)
\Diamond	Misoprostol	800 - 1000 mcg rectally/orally/ sublingually	Prostaglandin E ₁ analog	None (relative caution in fever)	Fever, chills, diarrhea
	Carboprost (Hemabate)	250 mcg IM, may repeat q15-90 min (max 2 mg)	Prostaglandin F ₂₀ analog	Asthma, cardiac /hepatic/renal disease	Bronchospasm, diarrhea
\$	Methylergen- ovine (Methergine	A DECEMBER OF THE PROPERTY OF	Ergot alkaloid; uterine smooth muscle constrictor	Hypertension, preeclampsia	Hypertension, nausea, vomiting
Ę	Tranexamic Acid	1 g IV over 10 min (within 3 hrs of birth	Antifibrinolytic	Active thromboembolic disease	Nausea, visual changes (rare)



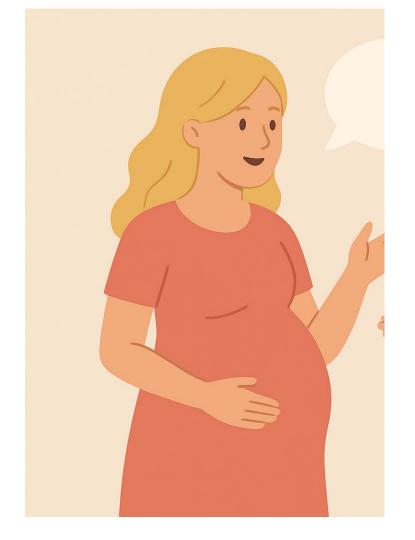
Procedural Options for Postpartum Hemorrhage





Follow up

Postpart um hemorrhage recognized early by the OB team Blood product resuscitation initiated, uterotonics administered, Jaida inserted with resolution of brisk bleeding.



Take Aways

- RUPTURED ECTOPIC PREGNANCY be suspicious in all women of child bearing age with +FAST!
- HYPEREMESIS GRAVIDARUM this is a huge quality of life issue, treat aggressively and empathetically
- ECLAMPSIA suspect in first time seizure in women of child bearing age! Seizures are treated differently, remember magnesium!
- SHOULDER DYSTOCIA anticipation and preparation are key!
- POSTPARTUM HEMORRHAGE ocus on tone! Uterine massage and pitocin will resolve the majority.

