Note: **All** patients must have a Medical Screening Exam (MSE)

Pregnant or potentially pregnant patient

Generally 14 weeks or greater or up to 6 weeks postpartum

Triage Guidlines

RED - Level 1 - EMERGENT

A condition that may include the following but not limited to this list. Any condition that may be life threatening will be assessed immediately and requires continuous nursing care.

- Imminent birth
- Abruption-suspected
- Hemorrhaging
- Acute mental status change, unresponsive (cannot follow verbal commands)
- Signs of uterine rupture
- Seizures
- Severe respiratory distress (apnea, SPO2 < 93%)
- Prolapsed cord
- FHR < 110 for 60 seconds
- No fetal heart rate per Doppler
- (unless previously diagnosed IUFD)
- Fetal parts visible
- Active maternal bearing down efforts
- Trauma (Evaluate Trauma Injuries First ATLS Protocol)
- Cardiac compromise
- Diabetic coma
- Abnormal vital signs: report to ER Provider IMMEDIATELY
 - Respirations: apnea
 - OC sat < 93
 - HR < 40 or > 130
- Symptoms (HA, CP, SOB, Edema, Seizure) and Elevated Blood Pressure
 - Systolic B/P: > 160
 - Diastolic B/P ≥ 110

Orange - Level 2 - Urgent

A condition that may include the following but not limited to this list. The patient requires placement in room, and reassessments every 30 minutes.

- Known placenta previa with bleeding and/or labor
- Delivery en route to hospital
- Biophysical Profile (BPP) < 6
- Severe pain not related to contractions
- Unstable high-risk medical conditions
- Stable trauma/transfer already evaluated in the ED
- < 34 weeks with c/o detectable contraction or ruptured membranes
- ≥ 34 weeks with regular contractions or SROM with any of the following:
 - HIV+
 - Breech or other malpresentation
 - Multiple gestation
 - Planned medically indicated cesarean delivery (maternal or fetal reasons)
- Decreased fetal movement
- Difficulty breathing
- Altered mental status, conscious
- Active vaginal bleeding (not bloody show or spotting)
- Fetal heart rate > 160 for 60 seconds or any decelerations
- Abnormal vital signs: Notify OB Provider quickly for:
 - Maternal heart rate > 120 or < 50
 - Temperature ≥ 38.3
 - Respiratory rate > 26 or < 12
 - Systolic BP ≥ 140 or diastolic BP ≥ 90, symptomatic (headache with vision changes)
 - BP < 80/40 x 2
 - SPO2 < 95%

Yellow - Level 3 - Prompt

A condition that may include the following but not limited to this list. The patient may be asked to wait in the waiting room until a bed is available and be checked on every 30 minutes to assess for a change in Triage category.

- Active labor ≥ 34 weeks
- ≥ 34 weeks multiple gestation, irregular contractions
- Planned elective repeat cesarean with regular contractions > 34 weeks
- Signs/symptoms early labor or SROM ≥ 34 weeks by < 37 weeks
- Extended fetal monitoring sent from OB Provider
- Nausea/vomiting with fever (consider isolation)
- BP monitoring sent from OB Provider
- R/O DVT, red or swollen leg with calf pain
- Postpartum bleeding > 1 pad/hour
- Abnormal vital signs. Notify provider for:
 - Temperature > 38.0
 - SBP ≥ 140 or DBP ≥ 90, asymptomatic

For Asymptomatic Elevated Blood Pressure See Hypertension Protocol

- Systolic B/P: ≥ 160
- Diastolic B/P ≥ 110

Note: Patients who are unsure of dates or have no prenatal care, are to be considered at least 14 weeks pregnant if they felt baby movements, are showing, or if their funds is at their umbilicus.

Green - Level 4 - Non-Urgent

A condition that allows patients to wait in turn to be seen may be asked to wait in waiting room and will be reassessed every hour for any change in status.

- ≥ 37 weeks early labor or C/O SROM
- Vaginal discharge, spotting
- Nausea/vomiting without fever
- Round ligament pain, back pain
- Dysuria, flank pain, hematuria
- Upper respiratory infection/cough (consider isolation with fever during flu season)
- Rash
- Constipation
- Wound infection
- Headache unrelieved with medication

Protocol Based On AWHONN Maternal Fetal Triage Index alth

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1) Obtain Vital Signs including oxygen saturation and fetal heart tones, 2) Obtain clean catch urine, 3) Protocol for Are based on chief complaint, 4) Assess fetal movements per patient perception, by palpation or audibly

Patients >24 Weeks - Initiate Fetal Monitoring for fetal heart tone and uterine activity monitoring - See Fetal Monitoring Protocol (NST)

Initiate Tele-ER Consult Immediately (Emergent)

Assess, Initiate Treatment Protocol
Initiate Tele-ER Consult ASAP (Emergent)

Assess, Initiate Treatment Protocol
Initiate Tele-ER Consult ASAP (Emergent)

Assess, Initiate Treatment Protocol
Initiate Tele-ER Consult (Urgent)

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LEVEL 1-RESUSCITATIVE

Imminent delivery Suspected abruption Hemorrhaging AMS/Unconscious DKA/diabetic coma Visible fetal parts Cardio-respiratory distress, SPO2 < 93 Seizure/Eclampsia Prolapsed cord MHR < 40 or > 130 $SBP \ge 160 \text{ or } < 70$ $DBP \ge 110 \text{ or } < 35$ FHR < 110 for 60 sec

No FHT per Doppler

Active pushing

Trauma

LEVEL 2- EMERGENT

Previa with labor or bleeding, T ≥ 38.3 Del en route Active bleeding Severe pain not ctx. Unstable high-risk medical issues < 34 weeks PROM or preterm labor > 34 weeks SROM or ctx. w/HIV+, twins, breech or for medically indicated planned C/S No fetal movement AMS/conscious BP > 140/90 (symptomatic, H/A w/vision changes) Decelerations, BPP < 6 BP $< 80/40 \times 2$, HR > 120 or < 50SPO2<95, RR < 12 or > 26 Difficulty breathing

FHR > 160 for 60 sec.

Stable Trauma S/P ED eval

LEVEL 3- Urgent

Active labor > 34 weeks Repeat C/S with regular ctx > 34 wk Early Labor/SROM > 34 but < 37 weeks Extended fetal monitoring BP monitoring N/V with fever T > 38.0

BP > 140/90, asymptomatic R/O DVT, red swollen leg with calf pain Postpartum bleeding > 1 pad/hour Twins w/irreg. ctx. > 34 weeks

LEVEL 4-PROMPT

37 weeks early labor r/o SROM UTI (urinary tract Infection), dysuria, flank pain, hematuria Vag. Discharge or spotting Nausea/ Vomiting/ Diarrhea no fever Round ligament or back pain URI (upper Respiratory Infection), cough Rash, toothache H/A unrelieved with medication Wound infection Constipation

Perinatal Management of Acute Onset, Severe Hypertension During Pregnancy and Postpartum Protocol

Background: During pregnancy and postpartum, patients can experience an acute onset of severe hypertension. When a patient presents with a hypertensive emergency, the risk of a stroke is decreased if these patients receive treatment with first line agents within 30-60 minutes. The goal of this emergent therapy is to achieve a range of 140-150/90-100 mmHg to prevent maternal and neonatal complications.

Definitions: Severe hypertension for the purpose of activating this protocol is defined as systolic blood pressures ≥ 160 mmHg or diastolic ≥ 110 mmHg measured twice fifteen minutes apart. Patients should be sitting or semi-reclining when having their blood pressure (BP) measured with the correct size cuff.

Procedures

Patients with a systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg in a sitting or reclining position will have their BP re-measured in 15 minutes.

- 1. If the patient has two consecutive readings with either a systolic BP of ≥ 160 mmHg and/or a diastolic BP ≥ 110 mmHg, Initiate Tele-ER Consult. A saline lock will be placed by the RN.
- 2. Initiate the Acute Onset Severe Hypertension Protocol.
- 3. If > 22 weeks gestation, Initiate Fetal Monitoring See Fetal Monitoring Protocol

Acute Onset Severe Hypertension Protocol

- 1. Initiate Tele-ER Consult
- 2. For patients with IV access, the IV Labetalol Protocol should be initiated.
- 3. Patients with asthma, heart disease or congestive heart failure use the IV Hydralazine Protocol (instead of the IV Labetalol Protocol).
- 4. Patients receiving IV Labetalol or IV Hydralazine do not require cardiac monitoring.
- 5. Patients with a diagnosis of chronic hypertension (antepartum or postpartum) may be removed from the protocol after Tele-OB consult.
- 6. If medications in this protocol do not lower the systolic BP to < 160 mmHg and/or the diastolic BP to < 110 mmHg, refer to Emergent Tele-ER consult.
- 7. Once BP stabilized with systolic BP < 160 and diastolic BP < 110, BP should be taken q 10 minutes for an hour, every 15 minutes for an hour then every thirty minutes for one hour then hourly for at least four hours
- 8. Magnesium sulfate is recommended for seizure prophylaxis for women with acute onset severe hypertension during pregnancy and postpartum regardless of whether cause of hypertension is gestational hypertension with severe features, preeclampsia with severe features or eclampsia.
- 9. Obtain CBC, CMP, LDH, Uric Acid, Urine Analysis Stat

SEVERE HYPERTENSION

 $SBP \ge 160$ or $DBP \ge 110$

- o Repeat BP every 5 min for 15 min
- Notify physician after one severe BP value is obtained

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HYPERTENSIVE EMERGENCY

Persistent, severe hypertension that can occur antepartum, intrapartum, or postpartum Two severe BP values (≥ 160/110) taken 15-60 minutes apart

Severe values do not need to be consecutive

- If severe BP elevations persist for 15 min or more, begin treatment ASAP. Preferably within 60 min of the second elevated value.
- If two severe BPs are obtained within 15 min, treatment may be initiated if clinically indicated

Goals Of Care: Anti-hypertensive therapy within 30-60 minutes of diagnosis and initiation of Tele-ER Consult within 30 minutes.

Oral Nifedipine (Immediate Release) Protocol - For patients with no IV access

- 1. Administer Nifedipine (immediate release) 10 mg PO (do not administer sublingual)
- 2. Repeat BP in 20 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Nifedipine (immediate release) 20 mg PO
- 3. Repeat BP in 20 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Nifedipine (immediate release) 20 mg PO
- 4. Repeat BP in 20 minutes.
- 5. If BP remains ≥ 160 systolic or ≥ 110 diastolic, administer Labetalol 20 mg IV over 2 minutes and page OB Provider for further orders

IV Labetalol Protocol

- 1. Administer Labetalol 20 mg IV labetalol over 2 minutes
- 2. Repeat BP in 10 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Labetalol 40 mg IV over 2 minutes
- 3. Repeat BP in 10 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Labetalol 80 mg IV over 2 minutes
- 4. Repeat BP in 10 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Hydralazine 10 mg IV over 2 minutes and contact Tele-OB for additional interventions

IV Hydralazine Protocol

- 1. Administer Hydralazine 5 mg IV over 2 minutes.
- 2. Repeat BP in 20 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, administer Hydralazine 10 mg IV over 2 minutes
- 3. Repeat BP in 20 minutes. If systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg, contact Tele-OB for further orders (Hydralazine 5 mg IV every 15-20 min is recommended in patients who cannot receive labetalol)

If Patient Has a Seizure Initiate the Eclampsia Protocol

Labetalol Algorithm

Trigger: If severe elevations (SBP ≥160 or DBP ≥ 110) persist* for 15 min or more **OR** If two severe elevations are obtained within 15 min and tx is clinically indicated

Labetalol 20 mg[†] IV over 2 minutes



Repeat BP in 10 minutes



If SBP \geq 160 or DBP \geq 110, administer labetalol 40 mg IV over 2 minutes; If BP below threshold, continue to monitor BP closely



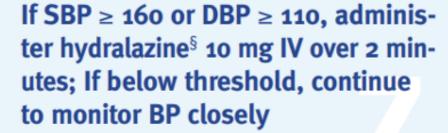
Repeat BP in 10 minutes



If SBP \geq 160 or DBP \geq 110, administer labetalol 80 mg IV over 2 minutes; If BP below threshold, continue to monitor BP closely



Repeat BP in 10 minutes





Repeat BP in 20 minutes





If SBP \geq 160 or DBP \geq 110 at 20 minutes, obtain emergency consultation from specialist in MFM, internal medicine, anesthesiology, or critical care



Give additional antihypertensive medication per specific order as recommended by specialist



Once BP thresholds are achieved, repeat BP:



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- Every 10 minutes for 1 hour
- Then every 15 minutes for 1 hour
- Then every 30 minutes for 1 hour
- Then every hour for 4 hours



Institute additional BP monitoring per specific order



- Notify provider after one severe BP value is obtained
- Institute fetal surveillance if viable
- Hold IV labetalol for maternal pulse under 60
- Maximum cumulative IV-administered dose of labetalol should not exceed 300 mg in 24 hours
- There may be adverse effects and contraindications. Clinical judgement should prevail.

- * Two severe readings more than 15 minutes and less than 60 minutes apart
- [†] Avoid parenteral labetalol with active[‡] asthma, heart disease, or congestive heart failure; use with caution with history of asthma. May cause neonatal bradycardia.
- * "Active asthma" is defined as:
- (A) symptoms at least once a week, or
- (B) use of an inhaler, corticosteroids for asthma during the pregnancy, or
- © any history of intubation or hospitalization for asthma.

[§] Hydralazine may increase risk of maternal hypotension.



Eclampsia Protocol

Background: Hypertensive disorders of pregnancy are arranged into four categories: chronic hypertension, gestational hypertension, pre-eclampsia, and pre-eclampsia superimposed on chronic hypertension. Eclampsia is a known complication of preeclampsia during pregnancy and is associated with morbidity and mortality of both the mother and fetus if not properly diagnosed. Eclampsia is defined as the new onset of generalized tonic-clonic seizures in a woman with preeclampsia. Eclamptic seizures can occur antepartum, 20 weeks after gestation, intrapartum, and postpartum. Seizures before 20 weeks are rare but have been documented in gestational trophoblastic disease.

Definitions: Severe hypertension for the purpose of activating this protocol is defined as systolic blood pressures ≥ 160 mmHg or diastolic ≥ 110 mmHg measured twice fifteen minutes apart.

Procedures

Patients with a systolic BP ≥ 160 mmHg or diastolic BP ≥ 110 mmHg in a sitting or reclining position will have their BP re-measured in 15 minutes.

- 1. If the patient has two consecutive readings with either a systolic BP of ≥ 160 mmHg and/or a diastolic BP ≥ 110 mmHg, Initiate Tele-ER Consult. A saline lock will be placed by the RN.
- 2. Initiate the Acute Onset Severe Hypertension Protocol.
- 3. If > 22 weeks gestation, Initiate Fetal Monitoring See Fetal Monitoring Protocol

Protocol

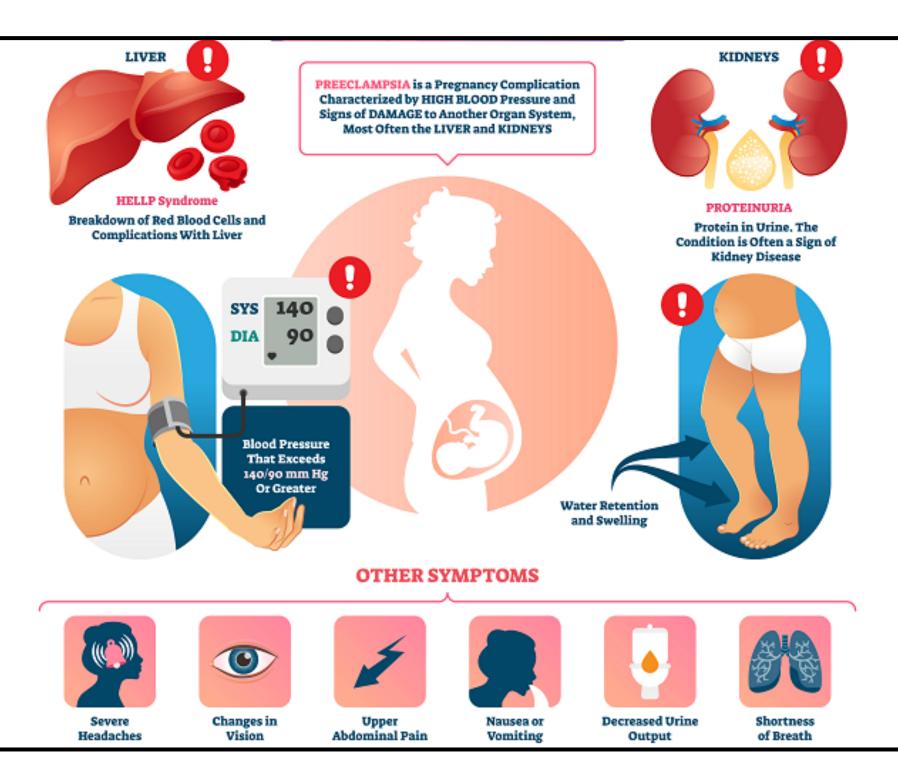
- 1. The main therapy is supportive care and initiation of safety measures to avoid maternal injury.
- 2. Monitor VS and Maintain oxygenation to mother and fetus
 - 1. Oxygen
 - 2. Pulse oximetry
 - 3. Control severe hypertension
- 3. Minimize aspiration
 - 1. Lateral decubitus position
 - 2. Suctioning of vomitus and oral secretions
 - 3. Initiate IV Magnesium Sulfate Protocol
 - 4. Consider head imaging and intubation in cases refractory to Magnesium Sulfate

IV Magnesium Sulfate Protocol

- 1. Recommended regimens of magnesium sulfate in the treatment of eclamptic convulsions
- 2. Loading dose: 6 g IV over 30 min (6 g of 50% solution diluted in 150 cc D5W)
- 3. Maintenance dose: 2 g IV per hr (40 g in 1 L D5LR at 50 cc/h)
- 4. Goal therapeutic range of 4.8-9.6 mg/dL (4-8 mEq/L)
- 5. Additional 2-4 g IV over 5–10 min can be given with persistent convulsions and may be repeated if necessary.
- 6. **If no IV access** is anticipated for a prolonged period: 10g IM loading dose can be given divided in 2 doses (5g injection into each buttock)
- 7. If convulsions persist (2% of cases) defined as a seizure lasting for more than 5 minutes, may give other agents to control seizure (sodium amobarbital (250mg IV in 3 minutes), thiopental, or phenytoin (1250mg IV at a rate of 50mg/minute).

Management of Magnesium Toxicity

- 1. Discontinue magnesium sulfate infusion
- 2. Begin supplemental oxygen administration
- 3. Obtain serum magnesium level
- 4. Administer 1 g Calcium Gluconate (10 cc of 10% Calcium Gluconate) by slow intravenous push over 5-10 minutes
- 5. Repeat Calcium Gluconate administration if necessary
- 6. If respiratory arrest occurs, begin cardiopulmonary resuscitation (CPR)



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Serum Magnesium Levels and Associated Findings

8–12 mg/dL Loss of patellar reflex

9–12 mg/dL Feeling of warmth, flushing

10–12 mg/dL Double vision

10–12 mg/dL Somnolence

10-12 mg/dL Slurred speech

15–17 mg/dL Muscular paralysis >12 mg/dL Respiratory paralysis

24-30 mg/dL Cardiac arrest

Postpartum Hemorrhage

Background and Definition: Postpartum hemorrhage is defined as a cumulative blood loss of greater than 1000 ml of blood regardless of mode of delivery OR bleeding accompanied by symptoms of hypovolemia in the first 24 hours after delivery. Postpartum hemorrhage usually happens within 1 day of birth but can happen up to 12 weeks after delivery.

Procedures

Management

- 1. First-line treatment for postpartum hemorrhage is IV oxytocin. IM ergometrine, oxytocin-ergometrine fixed dose, oral prostaglandin drug (eg, sublingual misoprostol) can be used if IV oxytocin is unavailable or oxytocin fails to control the bleeding.
- 2. IV Tranexamic Acid (TXA) should be administered as soon as postpartum hemorrhage is diagnosed.
- 3. Uterine massage should be included in the management of postpartum hemorrhage.
- 4. Four units of PRBC should be given prior to other blood products in an acetyl bleeding patient who is approaching the maximum allowable blood loss.
- 5. Massive hemorrhage protocol may be used if bleeding is severe. Ratios of RBC to FFP to Platelets of 1:1:1 or 2:1:1 should be used.

Massage of Uterus

Massage until uterus has contracted or for 1 minute

Oxytocin Drugs

10 IU IV Oxytocin injected or diluted in 200-500 ml crystalloid over 10 min plus a maintenance dose of 20IU IV oxytocin diluted in 1L saline over 4 hours (with misoprostol 800 micrograms if used)

TXA

1 gram IV injection of TXA or diluted in 200 ml crystalloid over 10 min period

IV Fluids

• IV fluids in addition to the infusion should be given if clinically indicated for resuscitation through second IV

Examination

Tone

Uterine atony

• Ensure bladder is empty, evacuate clots and check for tears with internal examination and placenta for completeness.

Risk Factors and Causes of Postpartum Hemorrhage

lack of prenatal care, obesity, HTN, advanced maternal age, African

American, anemia, liver disease,

aterine over distention, prolonged

Trauma

Genital

laceration or

hematoma

Thrombin

Coagulopathy

(e.g. sepsis),

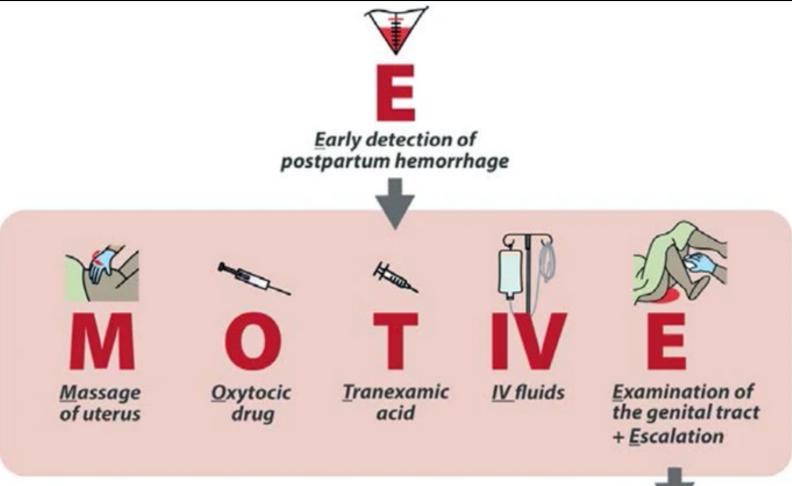
fetal demise

labor, precipitous delivery

Hemorrhagic (hypovolemic) Shock

Tissue

Retained





Postpartum Hemorrhage Medication Box Recommendations

PP Hemorrhage Medications	ROUTE	Needed
Oxytocin (10units/1mL vial)	IV or IM use	4 vials
Methergine (.2mg/mL vial)	IM use q2-4hrs	2 ampules
Hemabate (250mcg/mL)	IM use q15-90 min	3 ampules
Cytotec (200mcg tab)	PR/SL/PO 600-1000mcg	5 tablets

Stage O - Risk Assessment

Both Antenatal and Perinatal

- Awareness of Postpartum Hemorrhage
- Measure and record all blood loss

Stage 1 - >500 ml Blood Loss

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Initiate Tele-OBED / Tele-ER consult

- Establish 1 large bore (18 g) anticubital vascular access
- Measure and record all blood loss
- **Evaluate for cause of bleeding (4 T's)**

Stage 2 - >1000 ml Blood loss or Clinical Concern or Abnormal Vital Signs

Initiate Tele-OBED / Tele-ER consult

- Establish 2nd large bore (18 g) anticubital vascular access
- Measure and record all blood loss
- Consult on medication administration with Tele-OBED / Tele-ER
- Initiate Transfer Protocol
- Obtain CBC, Lactate, Fibrinogen, PT/INR/aPTT, CMP, Type and Cross
- Initiate PRBC 4 units uncross matched O negative blood

Stage 3 - >1500 ml Blood Loss or Abnormal Vital Signs

Initiate Tele-OBED / Tele-ER consult

- Establish 2nd large bore (18 g) anticubital vascular access
- Measure and record all blood loss
- Consult on medication administration with Tele-OBED / Tele-ER
- Initiate Transfer Protocol
- Obtain CBC, Lactate, Fibrinogen, PT/INR/aPTT, CMP, Type and Cross
- Initiate PRBC 4 units uncross matched O negative blood
- Initiate Massive Hemorrhage Protocol (send with EMS)

Do not transport without giving treatment for postpartum hemorrhage.

Background: Minor trauma in pregnancy is common. As pregnancy progresses, the risk of placental abruption increases even with minor trauma. Ultrasound and physical exam may not detect a placental abruption. In fact a significant placental abruption can be asymptomatic or associated with minimal maternal symptoms. Fetal monitoring is a key component of assuring the fetus is uninjured even in a minor trauma.

Procedures

All pregnant patients > 24 weeks gestation should be evaluated via Tele-OB ER and Tele-ER Consult

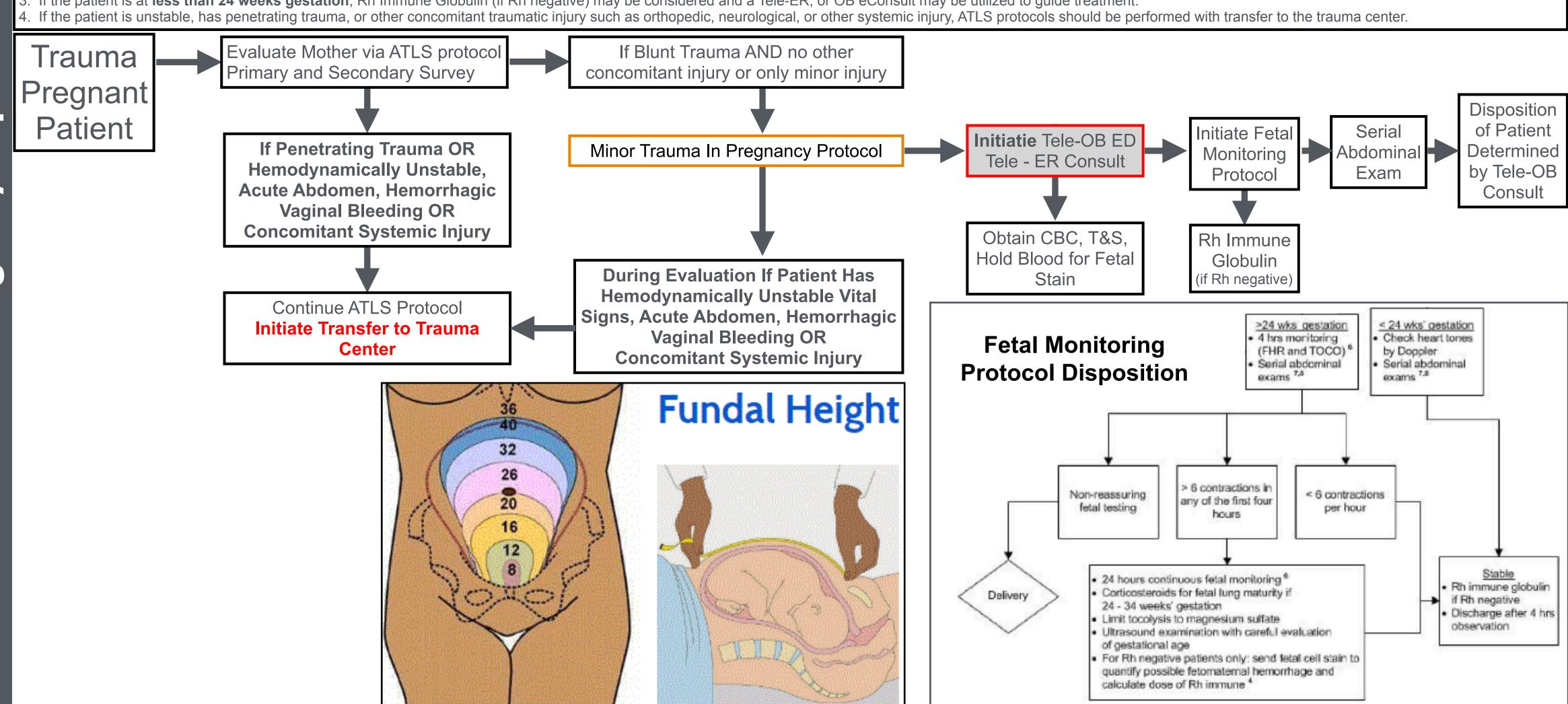
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- 1. If the patient is known to be >24 weeks gestation, minor trauma can result in placental abruption that can be clinically silent initially. This algorithm assists the Tele-OB ER consult process in safely evaluating the patient and baby.
- 2. If the patient gestation is not known, the Fetal Ultrasound (POCUS) Protocol can be used to help establish gestational age.
- 3. If the patient is at less than 24 weeks gestation, Rh Immune Globulin (if Rh negative) may be considered and a Tele-ER, or OB eConsult may be utilized to guide treatment.



Fetal Ultrasound (POCUS) Protocol

Background: Point of Care Ultrasound (POCUS) is a tool to asses the mother and baby at bedside, guiding the clinician in appropriate care. The goals of POCUS depend on the trimester of the pregnancy.

Goal: To aid the Tele-ER or Tele-OB physician in obtaining the necessary ultrasound images to provide optimal treatment decisions and collaboration with the rural hospital staff.

Procedures

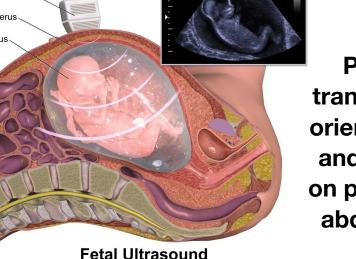
- Determine the fetal age by Last Menstrual Period (LMP) if possible
- Obtain a urine pregnancy test assuring the patient is pregnant.
- 3. POCUS of the pelvis for pregnancy may be performed at any stage of pregnancy, including when the LMP is unknown.
- 4. Optimal ultrasound imaging is performed when the patient's bladder is full. If time allows, have patient drink fluids prior to the POCUS examination.
- 5. Obtain a B-hcg quantitative level if possible. Interpretation of the B-hcg level can be done after the POCUS imaging.

Equipment and Protocol

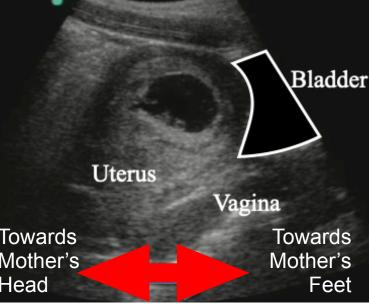
- 1. POCUS of the Pelvis is performed with the Philips Lumify Portable Ultrasound on the Telemedicine Cart.
- 2. The phased array or cardiac transducer is used for imaging the pelvis. The ultrasound "preset" is OB/GYN.
- 3. Ultrasound gel is used between the transducer and the patient's skin. Any lubricant can be used.
- 4. The transducer is placed on the patient's abdomen, generally, just above the pubic symphysis

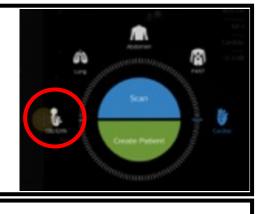






Place transducer oriented up and down on patient's abdomen





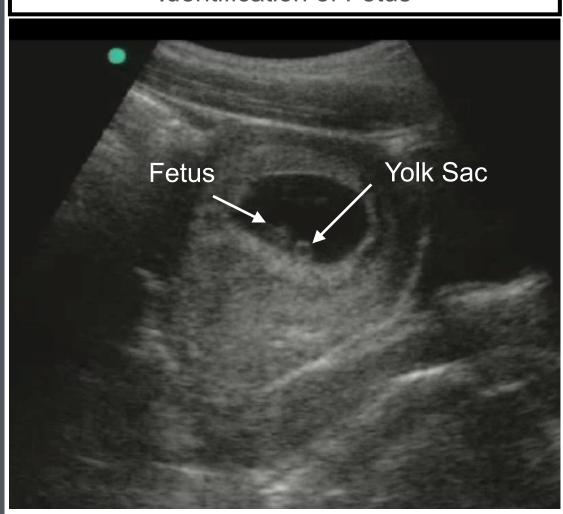
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Tele-Ultrasound Connection

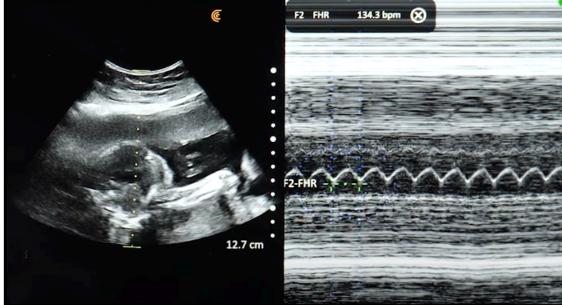
- 1. Notify Tele-ED or Tele-OB physician that an POCUS is going to be shared through Zoom.
- 2. Click on the AU Icon or navigate to https://www.augusta.edu/mcg/mcg-center-for-telehealth/ and look for the "Telehealth Virtual Meeting Access" button or use the QR code
- 3. Open Zoom and join audio
- 4. Share screen
- 5. Connect the ultrasound transducer to the tablet. Connecting the transducer to the tablet should start the Lumify app. If not, select Lumify from the menu and select OB/GYI

1St Trimester POCUS Goals Identification of Fetus



2nd Trimester POCUS Goals

Identification of Fetal Heart Rate (FHR)



Video on how to obtain a Mmode tracing of the FHR



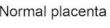
3rd Trimester POCUS Goals

Identification of FHR, Presentation & Placental Location

Is there imminent delivery - contractions present?

- 1. Find Fetal Head
 - * Fetal Head should be oriented opposite direction from mother's head (if not oriented opposite, consider Breech or Transverse lie and expect complicated vaginal delivery).
- 2. Find the placenta and cervix
 - * The placenta should not be located near or over the cervix (If so then consider Placenta Previa - Hemorrhage Risk High).

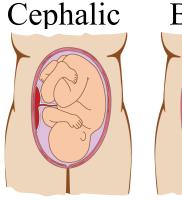




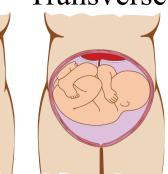




Placenta within 2 cm of cervix



Transverse Breech



Background: Electronic fetal heart rate monitoring (Fetal Monitoring) is commonly used to assess fetal well-being during labor. The fetal heart rate undergoes constant and minute adjustments in response to the fetal environment and stimuli. Fetal heart rate patterns are classified as reassuring, non-reassuring or ominous. Non-reassuring patterns such as fetal tachycardia, bradycardia and late decelerations with good short-term variability require intervention to rule out fetal acidosis. Ominous patterns require emergency intrauterine fetal resuscitation and immediate delivery. Differentiating between a reassuring and non-reassuring fetal heart rate pattern is the essence of accurate interpretation, which is essential to guide appropriate triage and patient care decisions.

Goal: To obtain an adequate Fetal Monitoring record for interpretation by the Tele-Obstetrician.

Procedures

Education For Mother: Non-Stress Test (NST) is a safe and noninvasive test used to check a baby's health before birth. The NST will monitor the baby's heart rate, movement and mother's contractions. Using these measurements we can determine if the baby is getting an adequate oxygen supply and determine if the baby is under is having distress.

How to Perform a NST

Apply Ultrasound Gel over the Abdomen of the Mother

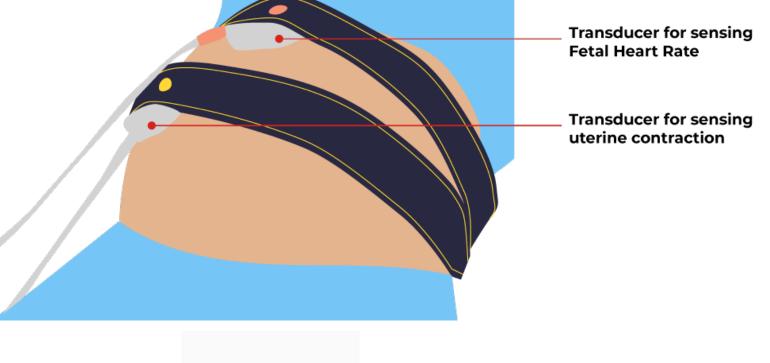
Apply the "transducer" which a fetal ultrasound Doppler to the abdomen - use the sounds to detect the fetal heart rate which should be greater than 100 beats per minute. Use the strap to secure the transducer to the mother's abdomen.

Place the contractions transducer to the lower abdomen of the mother using the strap to hold this in place.

The connections are color coded for the transducers and the NST machine.

Give the mother the contraction "clicker" or button. The mother is to click if she feels a contraction.





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Data Save

Trace a period of time, stored on a USB storage device. When you insert a USB storage device is displayed on the LCD screen on the right. Trace mode from the main menu, touch the "Data Save" button appears.

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When "Data Save" is touched, data will be saved to USB. The first position of the Trace of current screen will be saved as data image up to 3hrs within one page. Duration will depend on the print speed, 30 min for 3cm/min, 60 min for 2cm/min and 90 min for 1cm/min. In the situation of patient change, the data until before the change will be saved.

The following windows appear, approximately 10 seconds after the end of the progress bar window disappears automatically. Data storage device recognition can be found at the path "NewFC1400\data".

The name of the file will be saved "{Patient ID}_{Patient Name}_({Gestational-age})_{YearMonthDayHourMinuteSecond}.jpg".



Do not remove USB from the device during the data transportation.

Warning

Procedures

NST should be exported to a thumb drive and thumb drive inserted into computer ready for upload.



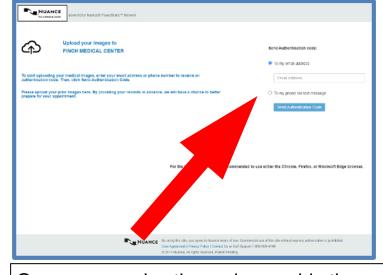
Nuance[®] PowerShare[™] Network Easy Upload

https://widgets.nuancepowershare.com/easyupload/WellstarMCGHealth



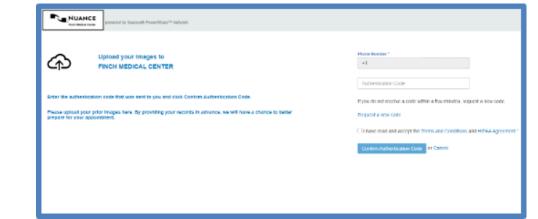
Navigate to the Easy Uploader using the URL above (QR code)

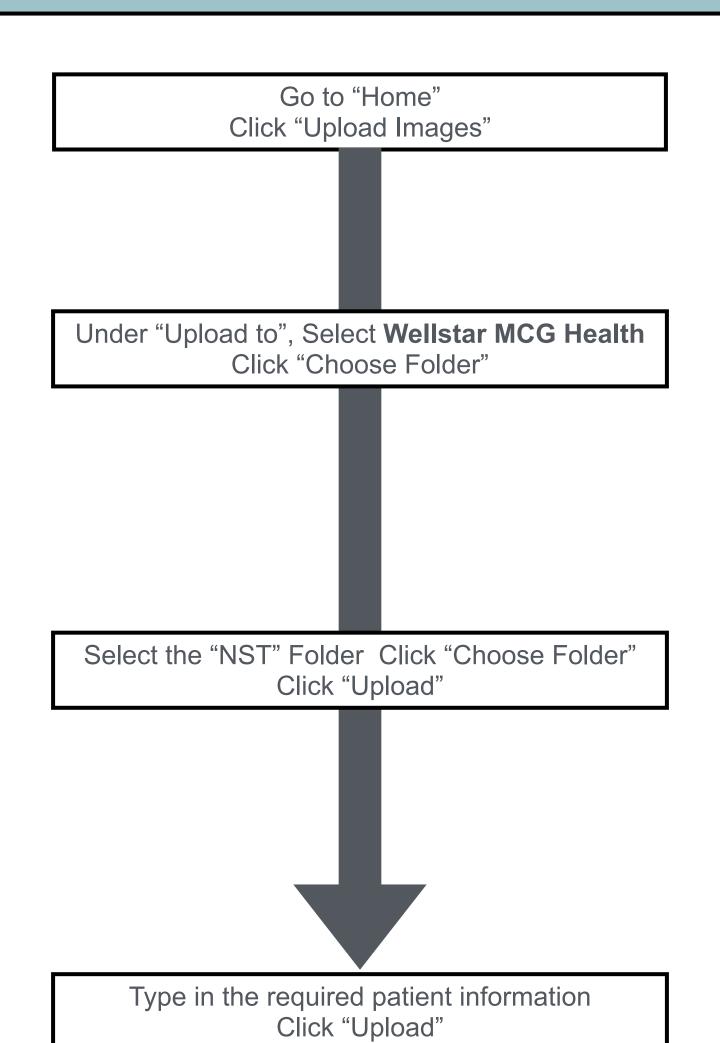
Before uploading, you need to request an Authentication Code by providing either your email address or your phone number.

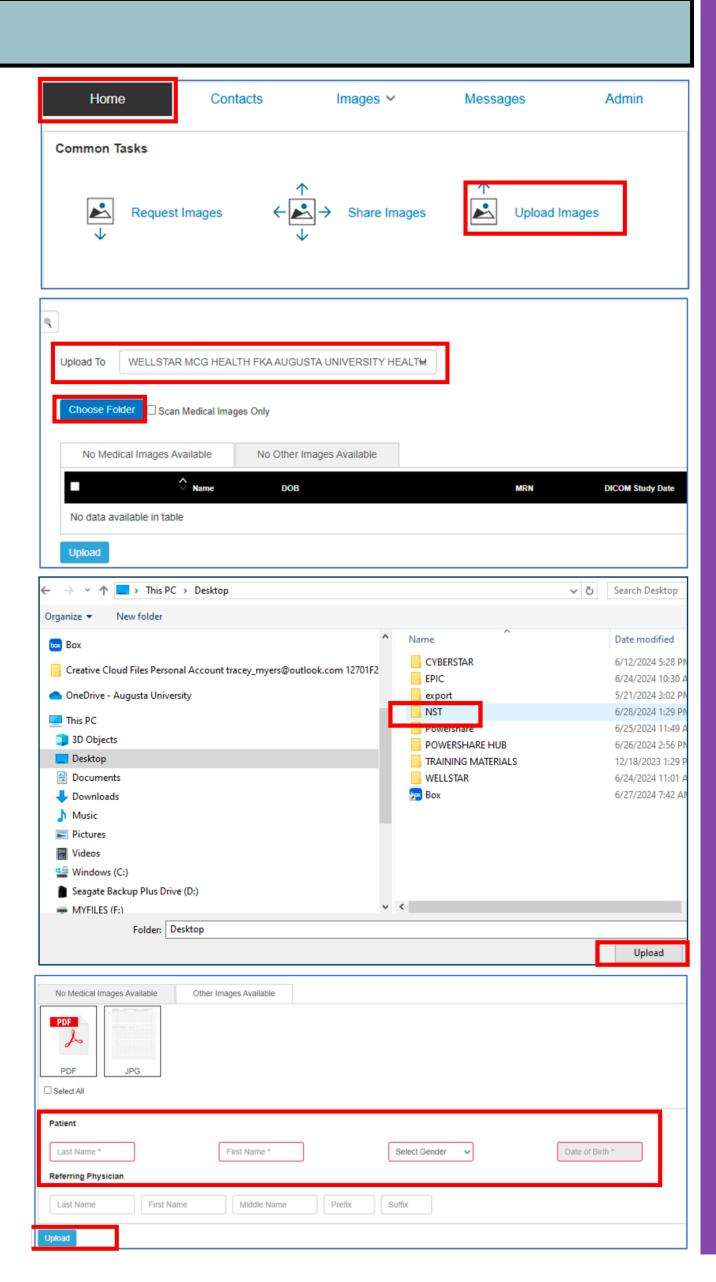


Once you receive the code, provide the code on the following screen.

Note: Your authentication code expires in 5 minutes.







Health

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