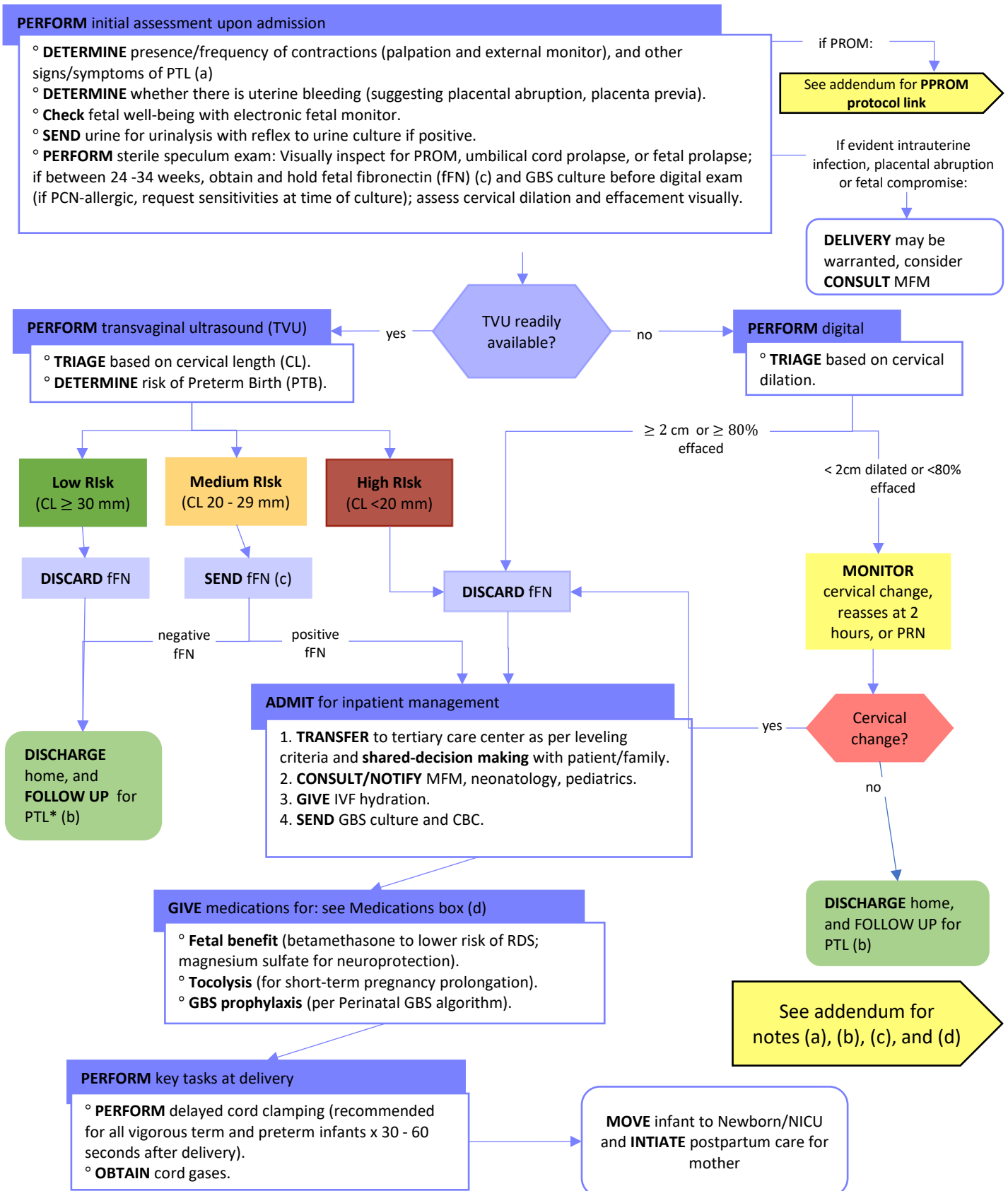


Algorithm for Patient Presenting to Birthing Facility



Links to MFM Obstetric Guidelines and Protocols

All MFM Obstetrical & Perinatal Guidelines

<https://www.mainehealth.org/Healthcare-Professionals/Clinical-Resources-Guidelines-Protocols/Obstetrical-Perinatal-Guidelines>

Maine Perinatal Outreach Website

www.mmc.org/perinatal-outreach

(a) Preterm Labor Signs/Symptoms and Diagnosis

- menstrual-like cramping, low back pain
- uterine contractions
- vaginal discharge

The diagnosis of preterm labor is based upon the presence of regular uterine contractions accompanied by a change in cervical dilation, effacement, or both, or initial presentation with regular contractions and cervical dilation of at least 2 cm. (ACOG Practice Bulletin No. 171. Management of preterm labor. October 2016.)

(b) Follow-up after Evaluation for PTL and discharge

- Instruct patient to call with additional signs or symptoms of PTL
- Schedule a Prenatal visit within 1 - 2 weeks
- If started, complete 48-hour steroid window as an outpatient, see Medication box (d)

(c) Fetal Fibronectin Criteria

If the fetal fibronectin enzyme immunoassay kit is to be used the following criteria should be met:

1. Amniotic membranes are intact.
2. Cervical dilation is minimal (< 3 cm).
3. Sampling is performed no earlier than 24 weeks, 0 days and no later than 34 weeks, 6 days of gestation.
 - a. The test is not recommended for routine screening of the general obstetric population.
 - b. Although a negative test appears to be useful in ruling out preterm delivery that is imminent (ie, within 2 weeks), the clinical implications of a positive result have not been evaluated fully.
4. No bleeding, intercourse, vaginal examinations for **at least 24 hours** prior to sampling.

Fetal Fibronectin Collection

1. Perform sterile speculum exam and rotate the provided Dacron swab across posterior fornix for 10 seconds to absorb cervicovaginal secretions. Subsequent attempts may invalidate the test. (Use only the Hologic Collection kit).
2. Remove swab and immerse Dacron tip into buffer solution. Break shaft at score mark.
3. Align shaft with cap and push down tightly.
4. Label specimen with patient's name, DOB, and collection date and time.
5. If not immediately sent to lab, specimen must be refrigerated after collection. It is ideal to transport the specimens refrigerated, however specimen integrity is maintained at **room temperature for 8 hours**.

Medications

(d) Preterm Labor and Preterm Birth (PTB) Medication Considerations

Use in PTL	Recommendations
Fetal Benefit	<p>To lower risk of respiratory distress syndrome, intraventricular hemorrhage, necrotizing enterocolitis, and neonatal death, give a corticosteroid course to all patients 24 - 34 weeks gestation:</p> <ul style="list-style-type: none"> ◦ Betamethasone: 12mg IM every 24 hours x 2 doses. <ul style="list-style-type: none"> - if betamethasone unavailable, may use: ◦ Dexamethasone: 6mg IM every 12 hours x 4 doses. <p><i>*Note: After MFM/NICU consult, timing of administration at periviability (20+0 - 25+6 wks) should be guided by the family's decision regarding neonatal resuscitation. (Perivable birth. Obstetric Care Consensus No. 6. American College of Obstetricians and Gynecologists. Obstet Gynecol 2017;130:e187-99.)</i></p> <p>Rescue Corticosteroid Course for Patients < 34 0/7 Weeks: If a patient has received a previous corticosteroid course > 14 days previously (though can be provided as early as 7 days from prior dose), AND at risk of delivery within the next 7 days AND < 34 0/7 weeks, give corticosteroid course.</p> <p><i>*Note: Repeat courses or serial courses (more than two) are not recommended. Whether to administer a repeat course of corticosteroids with preterm, premature rupture of membranes is controversial, and there is insufficient evidence to make a recommendation for or against.</i></p> <p><i>*Because corticosteroid treatment for < 24 hours is still associated with reduction in neonatal morbidity and mortality, the first dose of corticosteroids should be administered even if the ability to give the second dose is thought to be unlikely (e.g., PPROM with suspected early labor).</i></p> <p>Patients Between 34 0/7 and 36 6/7 Weeks Antenatal corticosteroids may be of benefit to infants born in the late preterm period. A steroid course is recommended for patients who are considered at high risk of delivery within 7 days and who have not received a previous course of antenatal steroids.</p> <p>For neuroprotection at < 32 weeks gestation, give:</p> <ul style="list-style-type: none"> ◦ Magnesium sulfate 4 gram bolus, followed by 1 gram/hour for up to 24 hours
Tocolysis Use for short-term pregnancy prolongation (to allow time for patient transfer, medications administration for fetal benefit); give a tocolytic for up to 48 hrs.	<p>First Line: ≤ 32 weeks, give ONE of the following:</p> <ul style="list-style-type: none"> ◦ Indomethacin: 50-100 mg by mouth loading dose followed by 25-50 mg by mouth every 6-8 hours, not to exceed 48 hours total treatment. ◦ Nifedipine: 20-30 mg by mouth loading dose, then 10-20 mg by mouth every 6-8 hours <p>First Line: 32 - 34 weeks, give:</p> <ul style="list-style-type: none"> ◦ Nifedipine: 20-30 mg by mouth loading dose, then 10-20 mg by mouth every 6-8 hours <p><i>*Note: Tocolysis is contraindicated when risks of use outweigh potential benefits (e.g., in case of nonreassuring fetal status, severe preeclampsia or eclampsia, maternal bleeding with hemodynamic instability, chorioamnionitis, PPROM, or agent-specific maternal contradictions).</i></p>
GBS prevention	<p>Follow GBS Early-Onset Prevention Guideline. For all patients, as needed, give either:</p> <ul style="list-style-type: none"> ◦ Penicillin G: 5 million units IV initial dose; then, 2.5 –3.0 million units every 4 hours until delivery. ◦ Ampicillin: 2 g IV initial dose; then, 1 g every 4 hours until delivery or the threat of PTB is low. <p>If penicillin allergy, low risk (e.g., isolated maculopapular rash without urticaria or pruritus):</p> <ul style="list-style-type: none"> ◦ Cefazolin: 2 g IV initial dose; then, 1 g every 8 hours until delivery. <p>If penicillin allergy, high risk (e.g., anaphylaxis, angioedema, respiratory distress, urticaria):</p> <ul style="list-style-type: none"> ◦ Clindamycin: 900mg IV every 8 hours until delivery. ◦ If sensitivities unavailable, then give vancomycin (1 gram IV initial dose every 12 hours until delivery). If isolate susceptible to clindamycin and erythromycin, they give clindamycin (900mg IV initial dose every 8 hours until delivery).