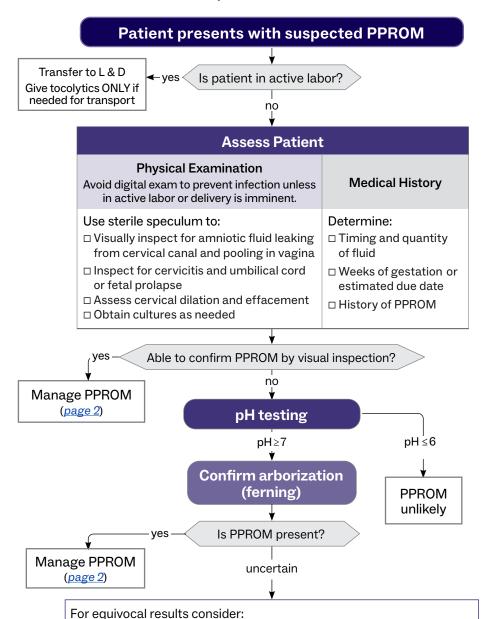


Management of

Pre-term Premature Rupture of Membranes (PPROM)

This care process model (CPM) was developed by Intermountain Health's Obstetrics (OB) Development Team under the guidance of the Women and Newborns clinical program. It provides evidence-based recommendations for assessing and managing pregnancies affected by preterm premature rupture of membranes (PPROM).

ASSESSMENT/DIAGNOSIS OF PPROM



• Amniotic fluid-specific marker tests: e.g. AmniSure ROM or ROM Plus

(fluid-specific tests should NOT be used without performing standard clinical

PPROM GUIDANCE

Intermountain Measures

The overarching goal of this CPM is to promote evidence-based practice and clinical consistency in the management of PPROM within the Intermountain Healthcare system. Specific measurements of efficacy include:

 Increase corticosteroid (betamethasone) administration given to patients at 24 to 33 weeks 6 days gestation

Supporting Evidence

Prelabor Rupture of Membranes ACOG (2020)

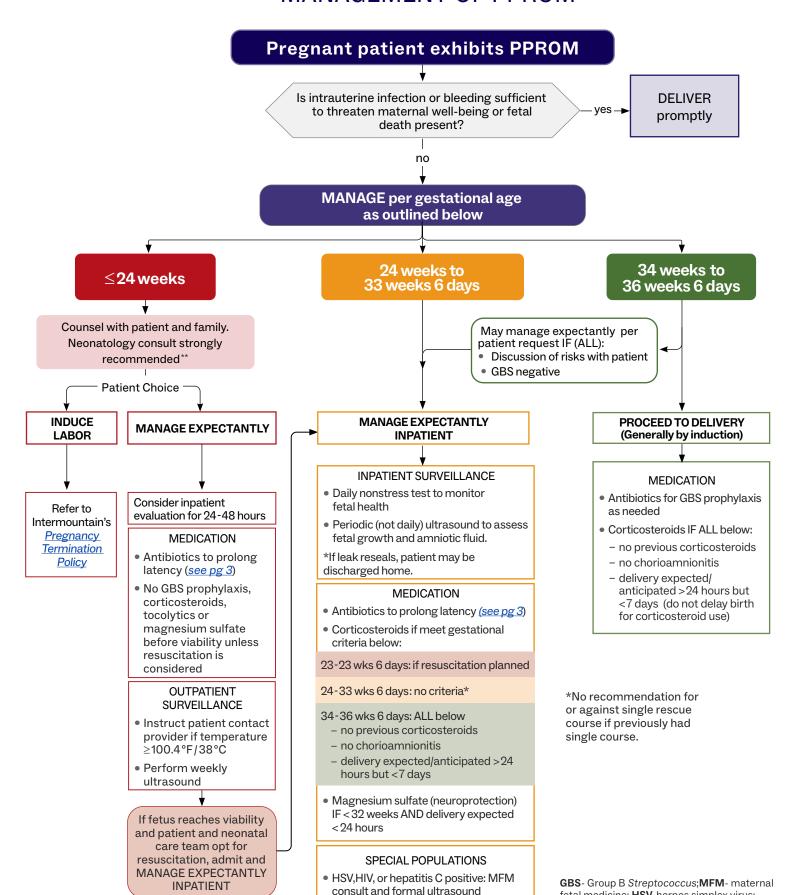
Siegler Y, et al. ACOG Practice Bulletin No. 217: Prelabor Rupture of Membranes. *Obstet Gynecol.* 2020 Nov;136(5):1061



assessments above)

• Ultrasound to check fluid volume

MANAGEMENT OF PPROM



· Cerclage: leave in place unless infection

or unexplained bleeding

1.

fetal medicine; **HSV**-herpes simplex virus; **HIV**- human immunodeficiency virus;

| Antibiotics (to prolong latency); 7-day course | |
|---|---|
| No penicillin allergy | Penicillin allergy - high risk of anaphylaxis |
| First 48 hours | First 48 hours |
| Ampicillin (2 grams IV every 6 hours) + Erythromycin* (250 mg IV every 6 hours) | Azithromycin (1 gram PO) OR Erythromycin (250 mg IV every 6 hours) + Clindamycin† (900 mg IV every 8 hours) + Gentamicin (5 mg/kg actual body weight IV every 24 hours) |
| Next 5 days | Next 5 days |
| Amoxicillin (250 mg PO every 8 hours) | Clindamycin (300 mg PO every 8 hours) |
| Erythromycin* (333 mg PO every 8 hours) | Erythromycin** (333 mg PO every 8 hours) |

^{*} Azithromycin-1 gram single oral dose can be substituted for erythromycin (IV or PO). Because of its long half-life, use of azithromycin eliminates need for erythromycin during the remainder of the antibiotic course.

Corticosteroid (to lower risk of respiratory distress syndrome)

Betamethasone* 12 mg IM every 24 hours for 48 hours. (Do not give if 34-37 weeks if patient was given previous corticosteroids.)

Magnesium sulfate (for neuroprotection if < 32 weeks when delivery is expected within 24 hours)

Magnesium sulfate bolus 6 grams IV over 40 min. then infuse a 2 grams/hr maintenance dose from premixed 20 grams/500 mL bag until delivery or until 12 hours of therapy (if preterm delivery seems unlikely after 12 hours of therapy, discontinue therapy)

GBS- Group B Streptococcus; IV- intravenous; PO-orally; mg-milligram; kg-kilogram; IM- intramuscular; mL-milliliter

This CPM presents a model of best care based on the best available scientific evidence at the time of publication. It is not a prescription for every physician or every patient, nor does it replace clinical judgment. All statements, protocols, and recommendations herein are viewed as transitory and iterative. Although physicians are encouraged to follow the CPM to help focus on and measure quality, deviations are a means for discovering improvements in patient care and expanding the knowledge base. Send feedback to Annette Crowley, Clinical Programs Manager, Intermountain Health, (WomenandNewborns@imail.org).

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Unless otherwise stipulated, all members are employees of

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^{**} If used the azithromycin was used during the first 48 hours, no erythromycin PO is required due to azithromycin's long half-life.

[†] If patient has tested positive for clindamycin resistant GBS or if suceptibility is unknown, replace clindamycin with vancomycin 20 mg/kg actual body weight IV, every 8 hours (maximum single dose 2 grams) for 48 hours. Follow-up with erythromycin 333 mg PO every 8 hours for 5 days.

^{*}If betamethasone not available, use dexamethasone 6 mg IM every 12 hours for 48 hours.