

Consult Series #71

Management of previable and periviable preterm prelabor rupture of membranes

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What are previable and periviable PPROM? GESTATIONAL AGE in weeks of aestation

in weeks of gestation					
	PRETERM PRELABOR RUPTURE OF MEMBRANES (PPROM)	membrane rupture before labor	<310/1		
	PREVIABLE	the period when a fetus would not survive outside the uterus (not a candidate for life-sustaining interventions)	< 20 0/1		
	PERIVIABLE	the period when a fetus may survive outside the uterus with life-sustaining interventions but still with a high risk of death or severe morbidities	20 0/1 - 25 6/1		

Continuing pregnancy after previable and periviable PPROM incurs

- 🗽 🌘 maternal risk with no direct maternal benefit
 - no quarantee of fetal benefit

This document focuses on management when

- a trial of neonatal resuscitation and intensive care are not considered appropriate by the healthcare team
- · or not desired by the pregnant patient

What are the management options?

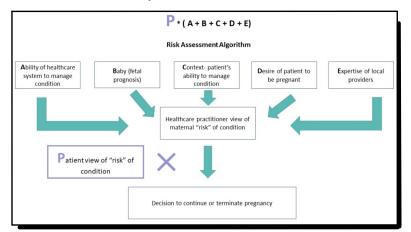
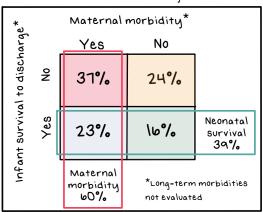


Table 1. Summary of American College of Obstetricians and Society for Maternal-Fetal Medicine guidelines for intervention with threatened periviable birth

	20 0/7 to 21 6/7 weeks	22 0/7 to 22 6/7 weeks	23 0/7 to 23 6/7 weeks	24 0/7 to 24 6/7 weeks	25 0/7 to 25 6/7 weeks
Neonatal assessment	Not recommended	Consider	Consider	Recommended	Recommended
for resuscitation	1A	2B	2B	1B	1B
Antenatal	Not recommended	Consider	Consider	Recommended	Recommended
corticosteroids	1A	2C	2B	1B	1B
Magnesium sulfate	Not recommended	Not recommended	Consider	Recommended	Recommended
for neuroprotection	1A	1A	2B	1B	1B
Antibiotics to prolong	Consider	Consider	Consider	Recommended	Recommended
latency during	2C	2C	2B	1B	1B
expectant					
management of					
PPROM					
Intrapartum	Not recommended	Not recommended	Consider	Recommended	Recommended
antibiotics for group	1A	1A	2B	1B	1B
B streptococci					
prophylaxis					
Cesarean delivery for	Not recommended	Not recommended	Consider	Consider	Recommended
fetal indication	1A	1A	2B	1B	1B

Outcomes after EXPECTANT MANAGEMENT of PPROM at <24 weeks of gestation



Counseling must reflect ethical commitments to prioritize maternal medical benefit and respect the authority of pregnant patients to accept certain risks to their own health in pursuit of perceived fetal benefit

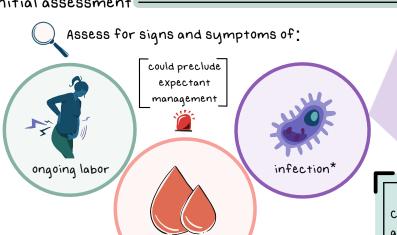


Consider consultation by a maternal-fetal medicine subspecialist or neonatologist



Consider referral to a tertiary care center

Initial assessment



hemorrhage

*intraamniotic infection may not initially present with fever



DO NOT DELAY diagnosis and treatment because of the absence of maternal fever



Contraindications to expectant management should prompt abortion care or delivery and evacuation of uterine contents

Counseling

We recommend individualized counseling about

- · maternal and fetal risks
- · benefits of both abortion care and expectant management

Reported average latency (time between PPROM and delivery)

7-51 days

Patients have the right to change their mind and should have access to abortion care, if desired, after an initial trial of expectant management

All patients should be offered abortion care

Expectant management can be offered in the absence of contraindications

Maternal risks include





Unplanned operative procedure Unplanned hysterectomy Hemorrhage of > 1000mL



Admission to intensive care unit Acute renal insufficiency



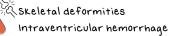
🕻 Venous thromboembolism Death

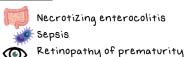
Fetal risks include

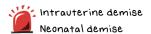


Bronchopulmonary dysplasia Chronic pulmonary disease









Pulmonary hypoplasia can result from lack of amniotic fluid during critical fetal lung development

Antepartum interventions

ANTIBIOTICS



at time of PPROM	
≥ 24 O/1	We recommend antibiotics for pregnant individuals who choose expectant management after PPROM
20 0/1 - 23 6/1	Antibiotics can be considered after PPROM

It is reasonable to follow similar recommendations for antibiotic regimen and duration of treatment as for PPROM at later gestational ages

ANTENATAL CORTICOSTEROIDS





Administration of antenatal corticosteroids and magnesium are not recommended until the time when a trial of neonatal resuscitation and intensive care would be considered appropriate by the healthcare team and desired by the patient

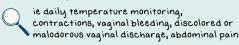
DISPOSITION



It is reasonable to be observed in the hospital to ensure stability prior to discharge home



Before discharge, provide detailed instructions about the signs and symptoms to monitor





It is common for patients to be seen frequently for close monitoring



If contraindications to expectant management develop or after reaching a point when a trial of neonatal resuscitation would be considered appropriate, hospital readmission should occur







CERCLAGE



Cerclage management is similar to cerclage management after PPROM at later gestational ages: reasonable to either remove or leave it in situ after shared decision-making

SUBSEQUENT **PREGNANCIES**



We recommend following quidelines for management of pregnant persons with a prior spontaneous preterm birth

Not recommended for routine care of previable and periviable PPROM