

Medication	Mechanism of Action/Use in OB	Nursing Considerations
Methotrexate	<p>MoA: medication acts as a folic acid antagonist and inhibits cell division in the developing embryo.</p> <p>Use in OB: used in ectopic pregnancies that are caught early.</p>	<p>The mother needs to be sufficiently educated on the risks, benefits, and adverse effects of methotrexate.</p> <p>Common adverse effects are nausea, vomiting, diarrhea, stomatitis, abdominal pain, and dizziness.</p>
Mifepristone	<p>MoA: medication acts as a progesterone antagonist, which provides stimulation for uterine contraction.</p> <p>Use in OB: medication chemically induces abortion by blocking receptors necessary for pregnancy maintenance.</p>	<p>Mifepristone is often given in combination with misoprostol.</p> <p>Common adverse effects are headache, nausea, vomiting, diarrhea, and cramping.</p> <p>Prophylactic medications include antiemetics and analgesics.</p>
Rhogam	<p>MoA: medication suppresses the body's immune response in non-sensitized Rh-negative patients who are exposed to Rh-positive blood.</p> <p>Use in OB: medication is used to prevent isoimmunization in Rh-negative women exposed to Rh-positive blood.</p>	<p>Rhogam is considered a blood product and this should be communicated to the patient.</p> <p>Educate patient that they will need the medication again with later pregnancies.</p>
Betamethasone	<p>MoA: medication stimulates surfactant production in newborns.</p> <p>Use in OB: medication is used to reduce respiratory distress and intraventricular hemorrhage in preterm and full-term newborns.</p>	<p>Medication is administered intramuscularly.</p> <p>Assess maternal lungs sounds and monitor for signs of infection.</p> <p>Educate parents on benefits of medication therapy.</p>
Indomethacin	<p>MoA: medication works a prostaglandin antagonist – inhibits uterine contractions.</p> <p>Use in OB: inhibits activity in the uterus to stop pre-term labor.</p>	<p>Vital signs, fetal heart rate, and uterine activity should be continually monitored.</p> <p>Oral form should be used to decrease GI irritation and medication should not be given to mother's with peptic ulcer disease.</p> <p>Medication is contraindicated for use in gestation greater than 32 weeks.</p>

Magnesium Sulfate	<p>MoA: medication blocks neuromuscular function and promotes vasodilation.</p> <p>Use in OB: medication used in the prevention and treatment of eclamptic seizures.</p>	<p>Monitor for signs of magnesium toxicity, including respiratory depression and decreased deep tendon reflexes.</p> <p>Have calcium gluconate (antidote) available when using the medication.</p>
Terbutaline Sulfate	<p>MoA: medication causes the accumulation of cyclic-AMP and beta-adrenergic receptors.</p> <p>Use in OB: unlabeled use in management of preterm labor – FDA has recommended against this use.</p>	<p>Maternal vital signs and fetal heart rate should be continually monitored.</p> <p>Notify provider if contractions continue to increase in frequency.</p> <p>Monitor mother and neonate for signs and symptoms of hypoglycemia.</p>
Hydralazine hydrochloride	<p>MoA: medication relaxes vascular smooth muscle and improves perfusion to vital organs.</p> <p>Use in OB: medication used in the treatment and management of preeclampsia and eclampsia.</p>	<p>Common adverse effects include heart palpitations, headache, tachycardia, nausea, vomiting, and diarrhea.</p> <p>Patient should be weaned off medication to prevent rebound hypertension.</p>
Labetalol	<p>MoA: medication blocks alpha-1 and beta adrenergic receptors.</p> <p>Use in OB: medication used in the treatment and management of preeclampsia and eclampsia.</p>	<p>Medication will lower blood pressure without decreasing maternal heart rate or cardiac output.</p> <p>Monitor blood pressure regularly.</p> <p>Common adverse effects include dizziness, vertigo, fatigue, and flatulence.</p>
Nifedipine	<p>MoA: medication acts as a calcium channel blocker and promotes dilation of coronary arteries and peripheral arterioles.</p> <p>Use in OB: medication used in the treatment and management of preeclampsia and eclampsia, and in the stoppage of preterm labor.</p>	<p>Common adverse effects include dizziness, angina, diarrhea, nasal congestion, and cough.</p>
Calcium gluconate	<p>MoA: Medication used in emergency treatment of hypermagnesemia.</p> <p>Use in OB: Antidote for magnesium toxicity when using magnesium sulfate.</p>	<p>Medication should be readily available bedside for use in magnesium overdose and toxicity.</p>
	<p>MoA: Medication stimulates uterine</p>	<p>Common adverse effects include</p>

Misoprostol	<p>contraction(s).</p> <p>Use in OB: medication used in pregnancy termination to empty the uterus, and has use in labor induction.</p>	<p>nausea, vomiting, diarrhea, abdominal pain, and indigestion.</p> <p>Monitor for vaginal bleeding and report increased bleeding to the provider.</p> <p>Monitor patient for early manifestations of shock.</p>
Cervidil	<p>MoA: Medication stimulates contraction of uterus and dilation of the cervix.</p> <p>Use in OB: Medication used in cervical ripening & use in medical abortion.</p>	<p>Administer medication with pain medication as needed when used in a medical abortion.</p> <p>Assess and monitor maternal vital signs and fetal heart rate.</p> <p>Common adverse effects include nausea, vomiting, diarrhea, and headache.</p>
Methylergonovine	<p>MoA: medication stimulates uterus.</p> <p>Use in OB: medication is used in treatment and prevention of postpartum hemorrhage.</p>	<p>Assess baseline bleeding and uterine tone and monitor for changes.</p> <p>Assess vital signs every 15 minutes.</p> <p>Educate mother and family about postpartum hemorrhage and treatment being used.</p>
Hepatitis B vaccine	<p>MoA: recombinant vaccine used to prevent hepatitis B transmission.</p> <p>Use in OB: Hepatitis B vaccination is recommended at birth.</p>	<p>Series of 3 vaccine – given at birth, 1-2 months and 6-18 months.</p> <p>Mother and family should be educated on risks of hepatitis B.</p>
Erythromycin eye ointment	<p>MoA: medication used for bacteriostatic and bactericidal prevention of eye infections.</p> <p>Use in OB: Medication used to prevent common eye infections in newborns.</p>	<p>Medication administered into conjunctival sac from inner canthus of eye.</p> <p>Close eye of newborn to ensure medication is absorbed.</p> <p>Remove excess medication after 1 minute.</p>
Phytonadione	<p>MoA: provides means for the production of vitamin K in a newborn.</p> <p>Use in OB: Given during first week after birth to prevent vitamin K deficiency</p>	<p>Medication should be administered 1-2 hours after birth.</p> <p>Medication given as an intramuscular injection.</p> <p>Monitor for bleeding after</p>

		administration.
Prenatal vitamins	<p>MoA: medication(s) provide vitamin and mineral supplementation for increased requirements in a pregnancy mother.</p> <p>Use in OB: Prevent vitamin and mineral deficiencies including iron and folic acid in pregnant women.</p>	<p>Prenatal vitamins are universally prescribed in the United States.</p> <p>Medication should generally be taken once daily, every day.</p> <p>Monitor adherence to medication regimen at prenatal appointments.</p>
MMR vaccine	<p>MoA: live, attenuated combination vaccine to prevent measles, mumps, and rubella.</p> <p>Use in OB: Vaccine given in toddlers and early childhood.</p>	<p>Vaccination is a two dose series.</p> <p>Vaccine can be given with other live virus vaccines.</p> <p>Individuals with egg allergies can receive the vaccine.</p>

Reference:

Ricci, S. S., Kyle, T., & Carman, S. (2021). *Maternity and pediatric nursing* (4th ed.). Wolters Kluwer.

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