

Medication	Mechanism of Action/Use	Nursing considerations
Methotrexate	<p>Use: treatment of severe psoriasis (Jones&Bartlett, 2022).</p> <p>Mechanism of Action: effecting T and potentially B lymphocytes by effecting the replication and process. Methotrexate decreases the speed of growing cells that are prominate in psoriasis (Jones&Bartlett, 2022).</p>	<p>-Obtain and continue to monitor CBC, Chest X-ray (Jones&Bartlett, 2022).</p> <p>-Monitor renal function/labs, and urinalysis (Jones&Bartlett, 2022).</p> <p>-Increase patients' intake to 2-3 L a day and monitor Intake and output (Jones&Bartlett, 2022).</p> <p>-Continue to monitor patient for infection or bleeding (Jones&Bartlett, 2022).</p>
Mifepristone	<p>Use: used in the assistance in terminating a pregnancy (Jones&Bartlett, 2022).</p> <p>Mechanism of action: Mifepristone stops progesterone from contributing during the pregnancy resulting in the insufficiency to retain life for the fetus (Jones&Bartlett, 2022).</p>	<p>-Monitor the patient for weakness, nausea, vomiting, or diarrhea (Jones&Bartlett, 2022).</p> <p>-Monitor the patient for infection/sepsis (Jones&Bartlett, 2022).</p> <p>-Monitor the patient for continuation of pregnancy (Jones&Bartlett, 2022).</p> <p>-Monitor the patient for bleeding and cramping (Jones&Bartlett, 2022).</p>
Rhogam	<p>Use: Used in pregnancy to prevent the body from creating anti-D antibodies that can harm the patient and the unborn baby (DrugBank, 2024).</p> <p>Mechanism of action: Rho immune globulin stops the antibody reaction during a conflicting pregnancy by increasing the speed of phagocytosis of red blood cells and removing it before being detected by the immune system (DrugBank, 2024).</p>	<p>-Ensure the mother of the baby is Rh negative (DrugBank, 2024).</p> <p>-Be sure of the mother and baby blood type before administration (DrugBank, 2024).</p> <p>-Monitor for side effects or negative reactions (DrugBank, 2024).</p> <p>-Monitor the patients labs, blood cultures (DrugBank, 2024).</p>
Promethazine	<p>Use: to treat motion sickness (Jones&Bartlett, 2022).</p> <p>Mechanism of action engages</p>	<p>-Monitor patient (children and elderly) due to the heavy side effects of the medication</p>

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	<p>with Histamine H receptor area, during this irritating the histamine effects and decreasing allergic side effects. While improving motion sickness by having a direct effect on the medullary chemoreceptive region, and reducing vestibular stimulation (Jones&Bartlett, 2022).</p>	<p>(Jones&Bartlett, 2022). -Assess respiratory function -Assess patients' hematologic status -Assess the patient for symptoms of neuroleptic malignant syndrome (Jones&Bartlett, 2022).</p>
<p>Pyridoxine and Doxylamine</p>	<p>Use: often used in morning sickness (DrugBank, 2024). Mechanism of action: Pyridoxine works by stopping the process of natural substance in the body to prevent nausea and vomiting often seen in morning sickness (DrugBank, 2024).</p>	<p>Monitor the patient's level of vitamin B6 (DrugBank, 2024). -Monitor the patient's neurological system (DrugBank, 2024).</p>
<p>Ondansetron</p>	<p>Use: used in the prevention and assistance of nausea and vomiting (Jones&Bartlett, 2022). Mechanism of action: Stops serotonin receptors by stopping serotonin release in the small intestine, this will decrease nausea and vomiting (Jones&Bartlett, 2022).</p>	<p>-Monitor the patient for low levels of potassium or imbalance in electrolytes (Jones&Bartlett, 2022). - Assess patient for serotonin syndrome (Jones&Bartlett, 2022). -Monitor patients EKG (Jones&Bartlett, 2022). -Monitor patient for oral complications when using oral medication (Jones&Bartlett, 2022).</p>
<p>Betamethasone</p>	<p>Use: used in the treatment of skin conditions to relief symptoms (Jones&Bartlett, 2022). Mechanism of action: stops and controls inflammation by controlling the rate of protein synthesis which decreases the movement of polymorphonuclear leukocytes (Jones&Bartlett,</p>	<p>-Monitor the patient for adverse effects including blistering or burning of the skin (Jones&Bartlett, 2022). -Monitor the patient's skin (Jones&Bartlett, 2022). -Monitor the patients' blood pressure (Jones&Bartlett, 2022). -Monitor the patients serum K and glucose levels as ordered (Jones&Bartlett, 2022).</p>

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	2022).	
Indomethacin	Use: To relieve pain often related to osteoarthritis and rheumatoid arthritis (Jones&Bartlett, 2022). Mechanism of action: Stops movement of cyclooxygenase and inhibits prostaglandins decreases pain, swelling, and inflammation (Jones&Bartlett, 2022).	-Avoid in patients with a recent MI (Jones&Bartlett, 2022). -Monitor patient for GI bleeding (Jones&Bartlett, 2022). -Monitor the patient for cardiac events (Jones&Bartlett, 2022). -Monitor liver and kidney function (Jones&Bartlett, 2022). -Monitor the. Patients vitals (Jones&Bartlett, 2022).
Magnesium Sulfate	Use: used to treat magnesium deficiency (Jones&Bartlett, 2022). Mechanism of action: stopping calcium contraction resulting in decreasing the release of acetylcholine from neuromuscular junctions and resulting in the decrease of spasms of the airway caused by histamine (Jones&Bartlett, 2022).	-Monitor for hypermagnesemia (Jones&Bartlett, 2022). -Monitor the patient's cardiac status (Jones&Bartlett, 2022). -Monitor the patients' electrolytes (Jones&Bartlett, 2022). -Ensure this is not used long-term (Jones&Bartlett, 2022).
Terbutaline Sulfate	Use: used to decrease the chances of bronchospasms in relation to asthma, bronchitis, and emphysema (Jones&Bartlett, 2022). Mechanism of action: activates beta adrenergic receptors resulting in the ease and relaxation of the smooth muscle tissue causing decrease chance and reaction of bronchospasms (Jones&Bartlett, 2022).	-Monitor patient closely if they have a history of cardiovascular disease (Jones&Bartlett, 2022). -Monitor the patient's respiratory function (Jones&Bartlett, 2022). -Monitor the patient's cardiac status and function (Jones&Bartlett, 2022).
Glyburide	Use: Used to assist with blood glucose levels in type 2 Diabetics (Jones&Bartlett, 2022). Mechanism of action: Provokes insulin release	-Monitor the patients' blood glucose level, especially fasting glucose levels (Jones&Bartlett, 2022). -Monitor the patients' blood glucose level more frequently

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	located in the pancreas by beta cells. Glyburide can also expand the number of insulin receptors (Jones&Bartlett, 2022).	when transitioning from insulin (Jones&Bartlett, 2022). -Monitor for hypoglycemia (Jones&Bartlett, 2022).
Insulin	Use: To assist in the regulation of glycemic management in patients with DM (Jones&Bartlett, 2022). Mechanism of action: assists in lowering blood glucose by restoring glucose absorbed by fat and skeletal muscle and impeding the production of hepatic glucose (Jones&Bartlett, 2022).	-Monitor patient for hypoglycemia (Jones&Bartlett, 2022). -Monitor patients potassium levels (Jones&Bartlett, 2022). -Monitor the patients' blood sugar levels (Jones&Bartlett, 2022). -Inhaled insulin is not recommended for long-acting insulin (Jones&Bartlett, 2022).
Hydralazine hydrochloride	Use: used in the treatment of hypertension (Jones&Bartlett, 2022). Mechanism of action: applies vasodilation directly on vascular smooth muscle. (Jones&Bartlett, 2022).	-Monitor the patients CBC (Jones&Bartlett, 2022). -Monitor the patients vitals and weight, especially blood pressure (Jones&Bartlett, 2022). -Perform blood pressure readings to detect orthostatic hypotension (Jones&Bartlett, 2022).
Labetalol	Use: to assist in the management of hypertension (Jones&Bartlett, 2022). Mechanism of action: stops alpha and beta receptors located inside the vascular smooth muscle (Jones&Bartlett, 2022).	-Monitor patient for shock, as Labetalol may resemble similar signs (Jones&Bartlett, 2022). -Monitor the patients' blood glucose if they are diabetic (Jones&Bartlett, 2022). -Do not stop medication abruptly (Jones&Bartlett, 2022).
Nifedipine	Use: Used to assist in long term angina (Jones&Bartlett, 2022). Mechanism of action: possibility of decrease in the transferring of calcium into cells located in the myocardial and vascular smooth muscles. (Jones&Bartlett, 2022).	-Monitor closely if the patient has a history of Cirrhosis (Jones&Bartlett, 2022). -Monitor the patients vitals during treatment, especially if the patient is being treated currently with beta blockers (Jones&Bartlett, 2022). -Monitor closely in patients with a history of heart failure

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		(Jones&Bartlett, 2022). -Monitor the patient's daily intake and output (Jones&Bartlett, 2022).
Calcium gluconate	Use: Used in the treatment of hyperphosphatemia (Jones&Bartlett, 2022). Mechanism of action: assists in the addition of intracellular and extracellular calcium, while also assisting in the management of neurotransmitters and hormones (Jones&Bartlett, 2022).	-Monitor the patients calcium levels during treatment (Jones&Bartlett, 2022). -Monitor the patients kidney function (Jones&Bartlett, 2022). -If the patient is receiving dialysis, monitor for hypercalcemia (Jones&Bartlett, 2022).
Misoprostol	Use: used in the treatment of miscarriage, cervical ripening, or induction of labor (Jones&Bartlett, 2022). Mechanism of action: connects to myometrial cells resulting in contractions causing the body to expel the tissue (Jones&Bartlett, 2022).	-Monitor the patients vitals (Jones&Bartlett, 2022). -Monitor the patient for uterine activity (Jones&Bartlett, 2022). -Monitor the patient for infection (Jones&Bartlett, 2022). -Monitor the fetal heart rate (Jones&Bartlett, 2022).
Cervidil	Use: used to assist in softening the cervix prior to labor (Drugs.com, 2023). Mechanism of action: Cervidil stimulates receptors to begin softening and ripening the cervix to prepare for labor including causing collagenase enzymes to be activated (Drugs.com, 2023).	-Monitor uterine activity (Drugs.com, 2023). -Monitor the fetal status (Drugs.com, 2023). -Monitor the patient's cervical dilation (Drugs.com, 2023). -Monitor the patients vitals (Drugs.com, 2023). -Monitor for any unexpected vaginal bleeding (Drugs.com, 2023).
Penicillin G	Use: used to treat gram positive influenced infections (Jones&Bartlett, 2022). Mechanism of action: terminates infection caused by bacteria by binding to protein and causing destruction to the cell wall resulting in decrease infection and bacteria	-Monitor the patient during treatment for any symptoms of a forming secondary infection (Jones&Bartlett, 2022). -Assess the patients' blood cultures and monitor the serum sodium level (Jones&Bartlett, 2022). -Monitor the patients vitals,

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	(Jones&Bartlett, 2022).	including intake and output (Jones&Bartlett, 2022). -Use cautiously in patients with a history of asthma (Jones&Bartlett, 2022).
Methylergonovine	Use: used in the treatment of bleeding caused by labor/childbirth (Drugs.com, 2022). Mechanism of action: directly affects the smooth muscle of the uterus and multiplies the rhythmic contractions decreasing blood loss (Drugs.com, 2022).	-Instruct the patient to avoid breastfeeding during treatment (Drugs.com, 2022). -Monitor the patient for N/V, chest pain, or discomfort (Drugs.com, 2022). -Monitor the patient’s uterine response and blood loss (Drugs.com, 2022). -Monitor the patients vitals (Drugs.com, 2022). -Monitor the patients’ blood culture such as calcium levels (Drugs.com, 2022).
Nalbuphine (Nubain)	Use: used in the treatment of moderate to severe pain (Drugs.com, 2023). Mechanism of action: Nalbuphine engages with opiate receptor in the central nervous system resulting in decrease in pain (Drugs.com, 2023).	-Use cautiously in breastfeeding mothers because this can be harmful to the baby (Drugs.com, 2023). -Monitor the patient’s respiratory function (Drugs.com, 2023). -Use cautiously in patients with a history of asthma (Drugs.com, 2023). -Monitor the patients for sedation (Drugs.com, 2023).
Naloxone	Use: used to treat opioid overdose (Jones&Bartlett, 2022). Mechanism of action: Intervenes with substances in the Central nervous system resulting in the reverse of the effects of the opioid overdose temporarily (Jones&Bartlett, 2022).	-Monitor for opioid withdrawal, symptoms including abdominal cramps, anxiety, diaphoresis (Jones&Bartlett, 2022). -Monitor for continuation of opioid overdose (Jones&Bartlett, 2022). -Monitor the patient for nausea and vomiting (Jones&Bartlett, 2022). -Monitor the patient for any serious adverse effects including but not limited to hypotension and seizures (Jones&Bartlett,

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Fentanyl	<p>Use: used for pain management, often seen in pre-operation (Jones&Bartlett, 2022).</p> <p>Mechanism of action: connects to opioid receptor area located in the CNS, changing the recognition of pain (Jones&Bartlett, 2022).</p>	<p>2022).</p> <ul style="list-style-type: none"> -Monitor for risk of addiction or abuse (Jones&Bartlett, 2022). -Monitor the patient’s respiratory function (Jones&Bartlett, 2022). -Monitor the patients lab values, blood cultures (Jones&Bartlett, 2022). -If given via IV monitor for extravasation (Jones&Bartlett, 2022). -Monitor patients for sedation (Jones&Bartlett, 2022).
Ibuprofen	<p>Use: used for pain relief often in rheumatoid arthritis and osteoarthritis (Jones&Bartlett, 2022).</p> <p>Mechanism of action: Stops movement of cyclooxygenase and inhibiting prostaglandins to decrease inflammatory effects and pain (Jones&Bartlett, 2022).</p>	<ul style="list-style-type: none"> -Should not be given to pregnant women if they are past 30 weeks (Jones&Bartlett, 2022). -Avoid in patients with a recent MI (Jones&Bartlett, 2022). -If the patient is on long term treatment of ibuprofen monitor for cardiac events (Jones&Bartlett, 2022). -Monitor blood pressure (Jones&Bartlett, 2022). -Monitor CBC, BUN & serum creatinine, and liver enzymes as ordered (Jones&Bartlett, 2022).
Acetaminophen	<p>Use: used to treat pain (Jones&Bartlett, 2022).</p> <p>Mechanism of action: provokes the enzyme cyclooxygenase, stopping prostaglandin production and effecting pain impulse regarding the peripheral nervous system.</p> <p>Acetaminophen can also affect temperature in the hypothalamus by obstructing prostaglandin (Jones&Bartlett, 2022).</p>	<ul style="list-style-type: none"> -Monitor the patient’s renal function (Jones&Bartlett, 2022). -Monitor AST, ALT, and liver function (Jones&Bartlett, 2022). -Monitor patients medication intake of acetaminophen to remain in the recommended dose range of acetaminophen (Jones&Bartlett, 2022).

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Oxycodone	Use: treatment for pain relief Mechanism of action: changes the feeling (physically and emotionally) of pain at the spinal cord and levels of the CNS by stopping neurotransmitters from being released (Jones&Bartlett, 2022).	-Monitor and educate the patient on potential for abuse and addiction (Jones&Bartlett, 2022). -Monitor pregnant women for NOWS (Jones&Bartlett, 2022). -Monitor respiratory function (Jones&Bartlett, 2022). -Assess patients pain regularly (Jones&Bartlett, 2022). -Monitor the patients vitals (Jones&Bartlett, 2022).
hydrocodone	Use: used in the long-term treatment of severe pain (Jones&Bartlett, 2022). Mechanism of action: Connects and provokes opioid receptors located in the periaqueductal, spinal cord and also located inside the ventromedial medulla that results in the ease of pain (Jones&Bartlett, 2022).	-Monitor the patient for addiction and abuse of medication (Jones&Bartlett, 2022). -Do not give this medication during pregnancy, labor, or breastfeeding (Jones&Bartlett, 2022). -Monitor the patient's respiratory function (Jones&Bartlett, 2022). -Use cautiously in patients with a history of COPD (Jones&Bartlett, 2022).
ketorolac	Use: used in the treatment of pain (Jones&Bartlett, 2022). Mechanism of action: Stops cyclooxygenase and obstructs prostaglandin synthesis resulting in the decrease of inflammation and pain (Jones&Bartlett, 2022).	-Monitor the patients liver function (Jones&Bartlett, 2022). -Monitor patients if they have history of hypertension or heart failure (Jones&Bartlett, 2022). -Do not administer in patients with a recent MI (Jones&Bartlett, 2022). -Monitor the patients pain level and inform the provider of pain management (Jones&Bartlett, 2022).
Hepatitis B vaccine	Use: Used to prevent hepatitis B (Jones&Bartlett, 2022). Mechanism of action: Hepatitis B vaccine results in your body creating protection against the disease (Jones&Bartlett, 2022).	-Do not give the vaccine if the patient is currently sick (Jones&Bartlett, 2022). -Monitor the patient for itching or swelling (Jones&Bartlett, 2022). -Recommended for pregnant women at risk for hepatitis B

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Erythromycin eye ointment	<p>Use: used in the treatment of infections located in the eye often used on newborn babies (Jones&Bartlett, 2022).</p> <p>Mechanism of action: intervenes in bacterial protein synthesis resulting in the decrease in bacterial growth (Jones&Bartlett, 2022).</p>	<p>(Jones&Bartlett, 2022).</p> <ul style="list-style-type: none"> -Monitor for any adverse effects such as diarrhea or vomiting (Jones&Bartlett, 2022). -Monitor the patient for any allergic reaction (Jones&Bartlett, 2022). -Monitor the patient's renal function for long term therapy (Jones&Bartlett, 2022). -Monitor the patient for redness, burning, or blurred vision (Jones&Bartlett, 2022). -Do not touch the applicator directly to the eye or any other surface (Jones&Bartlett, 2022).
Phytonadione	<p>Use: used in the treatment of bleeding or clotting of the blood often caused by vitamin k deficiency (DrugBank, 2024).</p> <p>Mechanism of action: performs as a cofactor with an enzyme that is located inside the liver referred to as gamma glutamyl-carboxylase this then transforms the forms of coagulation factors that are considered inactive into their active state (DrugBank, 2024).</p>	<ul style="list-style-type: none"> -Monitor the patients PT and INR (DrugBank, 2024). -Monitor the patients vitals (DrugBank, 2024). -Monitor the patients vitamin K levels to avoid toxicity (DrugBank, 2024). -Vitamin k injections are often suggested for newborn babies (DrugBank, 2024).
Prenatal vitamins	<p>Use: used in pregnancy to assist the baby grow and develop in a healthy manner (Multum, 2023).</p> <p>Mechanism of action: acts directly on the brain and spinal cord development of the baby and provides necessary supplements for health growth (Multum, 2023).</p>	<ul style="list-style-type: none"> -Suggested to take this medication on an empty stomach and full glass of water (Multum, 2023). -Monitor the patient for upset stomach or adverse effects (Multum, 2023). -Monitor the patients' blood cultures as ordered (Multum, 2023).
MMR vaccine	<p>Use: used in the protection of measles, mumps, and rubella (CDC, 2019).</p>	<ul style="list-style-type: none"> -Suggested to give in patients 12 months and older (Drugs.com, 2023).

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	<p>Mechanism of action: the vaccine is injected into the patient to provoke your immune system to create protection to fight the virus referred to as antibodies (CDC, 2019).</p>	<p>-Use cautiously in patients with immunodeficiency (Drugs.com, 2023). -Monitor the patient for seizures following administration (Drugs.com, 2023).</p>
<p>Tetanus & reduced diphtheria toxoids/acellular pertussis vaccine</p>	<p>Use: used for prevention of tetanus, diphtheria, and pertussis (Multum, 2023). Mechanism of action: The vaccine is injection into the patient to provoke a response by the immune system to create protection against the virus by creating antibodies (Multum, 2023).</p>	<p>-Monitor the patient for any adverse reactions (Multum, 2023). -Use cautiously in patients with a history/ or active seizures and if the patient has a weakened immune system (Multum, 2023). -If the patient is pregnant monitor the patient’s vitals and fetal status (Multum, 2023).</p>
<p>Lidocaine mucosal gel</p>	<p>Use: used in the numbing of the oral surfaces such as the mouth, throat or nose often used prior to procedure (Drugs.com, 2023). Mechanism of action: Lidocaine directly impacts ventricular depolarization and the automaticity and excitability during the process of diastole and contributes to stopping nerve impulses reducing pain (Jones&Bartlett, 2022).</p>	<p>-Do not use if the patient has a current infection where the gel may be applied (Drugs.com, 2023). -Monitor the patient for any broken skin or wounds where the gel is applied (Drugs.com, 2023). -Monitor the patient for infection or acidosis (Drugs.com, 2023). -Use carefully in patients with renal disease and monitor closely (Jones&Bartlett, 2022).</p>

Medications Commonly used in Maternal Newborn

Paige Hennessy
Spring 2024

Medication

Mechanism of Action/Use

Nursing considerations

Resources:

1/2/2024

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CDC. (2019). <i>Vaccine Information Statement</i> . CDC. https://www.cdc.gov/vaccines/hcp/vis/vis-statements/mmr.html		
DrugBank. <i>Human Rho(D) Immune globulin</i> . (2024). Go.drugbank.com. https://go.drugbank.com/drugs/DB11597		
DrugBank. (2022). Go.drugbank.com. https://go.drugbank.com		
Drugs.com. <i>Lidocaine Gel: Indications, Side Effects, Warning</i> . (2023). Drugs.com. https://www.drugs.com/cdi/lidocaine-gel.html		
Jones & Bartlett Learning, LLC. (2022). <i>2022 Nurse's Drug Handbook</i> (20 th ed.).		
Multum, Cerner. (2022). <i>Methylergonovine oral and injections: Uses, Side Effects & Warnings</i> . Drugs.com. https://www.drugs.com/mtm/methylergonovine-oral-and-injection.html		
Multum, Cerner. (2023). <i>Prenatal Vitamins</i> . Drugs.com https://www.drugs.com/mtm/prenatal-multivitamins.html		
Multum, Cerner. (2023). <i>Cervidil Uses, Side Effects & Warnings</i> . Drugs.com. https://www.drugs.com/mtm/cervidil.html		
Multum, Cerner. (2023). <i>Nalbuphine Uses, Side Effects & Warnings</i> . Drugs.com https://www.drugs.com/mtm/nalbuphine.html		

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