

Utilair 10 Injection

Ritodrine 10 mg Injection

Generic Name:

Ritodrine

Strength:

10 mg

Formulation:

Injection (Intravenous or Intramuscular)

Uses:

Ritodrine 10 mg injection is primarily used as a **tocolytic agent to delay preterm labor**. It is most commonly prescribed for the following:

1. **Preterm Labor (Preterm Birth Prevention):**
 - Ritodrine is used to **relax the uterine muscles** and prevent premature contractions, helping to delay labor in women at risk of delivering before 37 weeks of gestation.
 - It is typically administered in a **hospital setting** under strict medical supervision when preterm labor is imminent.
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Mechanism of Action:

Ritodrine is a **beta-adrenergic agonist**. It works by stimulating **beta-2 adrenergic receptors** in the smooth muscle of the uterus. This action causes the smooth muscle cells in the uterus to relax, effectively **suppressing uterine contractions** and delaying preterm labor.

Dosage:

- **Initial Dose:**
 - **10 mg**, administered as an intravenous (IV) or intramuscular (IM) injection.
 - The **initial dose** is typically given in a hospital setting, where the patient can be monitored closely.
 - **Maintenance Dose:**
 - The dosage may be adjusted based on the patient's response to treatment and the severity of labor contractions. Maintenance doses are often given as a **continuous IV infusion** or repeated IM injections as needed, typically starting at **5 mg to 10 mg every 4 hours**.
 - The healthcare provider will adjust the frequency and dosage based on clinical response and tolerance.
 - **Administration:**
 - Ritodrine is typically administered by a **healthcare professional** in a **hospital setting**. It can be given **via IV infusion** or as **IM injection**.
 - The infusion rate or injection intervals will be adjusted according to the patient's condition and response.
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Precautions:

- **Pregnancy and Breastfeeding:**
 - Ritodrine is used during **pregnancy** to delay preterm labor but should only be administered under strict medical supervision.
 - Safety during **breastfeeding** is not fully established, so it should be used cautiously or avoided in breastfeeding mothers.
- **Heart Disease:**
 - Ritodrine should be used with caution in patients with a history of **heart disease** (e.g., arrhythmias, hypertension) or **cardiovascular problems**, as it can increase the risk of **tachycardia** and other heart-related side effects.
- **Diabetes:**

- Ritodrine can increase **blood sugar levels**, so it should be used cautiously in **diabetic** patients. Regular monitoring of blood glucose is recommended.
 - **Electrolyte Imbalance:**
 - Ritodrine can affect **electrolyte balance**, especially **potassium** and **magnesium**. Monitoring of electrolytes is crucial, particularly during prolonged use or IV infusion.
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Side Effects:

- **Common:**
 - Increased heart rate (tachycardia)
 - Palpitations
 - Tremors (shaking hands or legs)
 - Nausea or vomiting
 - Headache
 - Dizziness or lightheadedness
 - **Less Common:**
 - Fluid retention (swelling) in the hands, feet, or ankles
 - Shortness of breath
 - Chest pain or discomfort
 - **Serious (Seek Medical Attention):**
 - **Severe allergic reactions** (rash, itching, swelling of the face or throat, difficulty breathing)
 - **Severe heart-related symptoms** (irregular heartbeat, chest pain, severe palpitations)
 - **Severe fluid retention** leading to weight gain or difficulty breathing
 - **Electrolyte imbalance** (severe weakness, irregular heartbeat, muscle cramps)
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Drug Interactions:

- **Beta-blockers** (e.g., propranolol, metoprolol):
 - May reduce the effectiveness of Ritodrine and increase the risk of cardiovascular side effects.
- **Antidiabetic Medications:**
 - Ritodrine may affect blood glucose levels, so patients using insulin or oral antidiabetic drugs should closely monitor their blood sugar.
- **Other Tocolytics:**

- Combining Ritodrine with other tocolytic medications may increase the risk of side effects such as cardiovascular issues or electrolyte disturbances.

Always inform your healthcare provider about all other medications, including over-the-counter drugs and supplements.

Storage:

- Store in a **cool, dry place**, away from moisture and light.
 - Keep out of reach of children.
 - The **injection** should be stored according to the instructions on the product label, typically in a **refrigerator** if required by the manufacturer.
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Note:

- Ritodrine injection is **not a long-term solution** and is typically used **only for short-term management** to delay labor for a few days to allow for fetal development or for other interventions to be completed.
- Close monitoring is essential during the use of Ritodrine, particularly for **heart rate, blood pressure, electrolyte levels, and blood glucose levels**.
- If any severe side effects or reactions occur, the medication should be stopped immediately, and emergency medical care should be sought.

Manufactured in India for:

CafoliTM
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Cafoli Lifecare Pvt. Ltd.

(An ISO 9001: 2015 Certified Co.)

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