

Manglee G Infusion

Mannitol 10% + Glycerin 10%

Infusion

Overview

Mannitol 10% + Glycerin 10% infusion is a hyperosmotic agent used to reduce intracranial pressure, intraocular pressure, and cerebral edema. It works by drawing excess fluid out of tissues into the bloodstream, which is then excreted through the kidneys. This infusion is commonly used in neurology, nephrology, and ophthalmology for emergency and supportive care.

Composition (Per 100 mL)

- **Mannitol 10% w/v** – Osmotic diuretic that reduces brain swelling and high eye pressure.
- **Glycerin 10% w/v** – Hyperosmotic agent that aids in fluid removal and prevents dehydration.

Mechanism of Action

- Mannitol increases plasma osmolality, drawing fluid from brain tissues and eyes into circulation for renal excretion.
- Glycerin enhances the osmotic effect, reducing cellular swelling and improving blood viscosity.

Indications & Uses

- **Cerebral Edema & Increased Intracranial Pressure (ICP):** Used in conditions such as head injury, stroke, and brain tumors.
- **Acute Glaucoma:** Lowers intraocular pressure in emergency cases.
- **Oliguric Renal Failure:** Promotes urine production in cases of acute kidney dysfunction.
- **Detoxification:** Assists in the removal of toxins in poisoning cases.
- **Prevention of Hemolysis in Blood Transfusions:** Helps maintain plasma volume.

Dosage & Administration

- **Route:** Intravenous (IV) infusion, administered slowly under medical supervision.
- **Dosage:** Varies based on patient condition, typically **1-2 g/kg of Mannitol** given over 30–60 minutes.
- **Frequency:** As prescribed by a healthcare provider, adjusted based on response and renal function.

Precautions & Contraindications

Avoid in:

- Severe renal failure where urine output is absent (anuria).
- Severe dehydration and active intracranial bleeding, except in emergency cases.
- Pulmonary congestion or heart failure due to risk of fluid overload.

Use with caution in:

- Patients with electrolyte imbalances or dehydration.
- Those on diuretics or antihypertensive medications to prevent excessive fluid loss.

Side Effects

- Electrolyte imbalances, including sodium and potassium disturbances.
- Dehydration due to excessive fluid loss, leading to dry mouth and hypotension.
- Headache, dizziness, or nausea due to rapid fluid shifts.
- Pulmonary edema in rare cases, especially in patients with impaired kidney function.

Storage & Handling

- Store at room temperature (15–30°C) away from direct light.
- Ensure the solution is clear before use; discard if cloudy or containing particles.
- Do not freeze to maintain stability.

Conclusion

Mannitol 10% + Glycerin 10% infusion is an essential osmotic therapy for reducing brain swelling, eye pressure, and promoting urine output in critical care settings. It should be used under strict medical supervision to avoid complications related to fluid and electrolyte imbalances.

Manufactured in India for:



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