



SEDAZIN

INJECTABLE SOLUTION

COMPOSITION

Xylazine (sf hydrochloride) 2 g (corresponding to 2.332 g of xylazine hydrochloride)
Excipient qsp..... 100ml

PHARMACEUTICAL PROPERTIES Xylazine

hydrochloride is an agonist of γ_2 -adrenergic receptors. It is a sedative and anesthetic for domestic and wild animals. It's the most used anesthetic product in ruminants.

She is the first injectable anesthetic by IM by a medical practitioner.

Xylazine acts by stimulation of the **central** presynaptic γ_2 adrenergic receptors which leads to the inhibition of the release of norepinephrine thus leading to the inhibition of the perception of pain at the origin of the sedative effects.

It is a good visceral analgesic (γ morphine), but less good on the skin, hence its association with ketamine and local anesthetics. It is also useful for the control of colic.

The sensitivity **of Xylazine** depends on the species of an animal, the ruminants are more sensitive than the equids.

Xylazine is marketed in the form of an injectable solution that can be used by all routes (IM, IV, SC, local (epidural)).

Well tolerated by IM and SC routes. Absorption is rapid by IM route and action is rapid (10 to 15 min).

Xylazine is a **weak** base weakly bound to serum proteins, which gives it a wide distribution tissue.

Its elimination is rapid with half-life times of 20-50 min. It is done by hepatic metabolism and excretion takes place partly by the renal route in the form of metabolites.

TARGET SPECIES

Equidae, Cattle, Dogs and Cats.

DIRECTIONS -

Sedation, analgesia, and muscle relaxation.

- Premedication during general anesthesia.
- Tranquilization of animal nerves for exams or traits.

ADMINISTRATION AND DOSAGE

The dose is to be adapted according to the desired effect according to the below:

• Cattle:

Intramuscular injection:

Dosage mg/Kg ml/100 Kg			Desired effects
I	0.05	0.25	Clear and sufficient sedation and analgesia for small minor surgeries.
II	0.1	0.5	Medium intensity sedation with analgesia and muscle relaxation; it is sufficient for surgical operations.
III	0.2	1.0	All of these effects are important, this dose allows surgical interventions.
IV	0.3	1.5	Long-term sedation and intense muscle relaxation, for exceptional cases Effects sought (as much as possible in fasting animals).

If necessary, the action of SEDAZIN can be increased by a second administration, approximately 10 to 30 minutes after the first injection. However, in all cases, the total dose injected should not exceed 1.5 ml/100 kg.

Slow intravenous injection :

Dose	mg/kg	ml/100Kg	Research effects
I	0.016 – 0.024	0.08 – 0.12	Definite and sufficient sedation and analgesia for minor surgical procedures.
II	0.034 – 0.05	0.17 – 0.25	Medium intensity sedation with analgesia and muscle relaxation; it is sufficient for surgical operations.
III	0.068 – 0.10	0.33 – 0.5	All of these effects are important, this dose allows surgical interventions.

The doses recommended for the intravenous route of SEDAZIN are ½ to 1/3 of those recommended for the IM route depending on the individual reaction of the animal and the stage of sedation sought. In this case, the injection should be done gently.

• Horses:

Intravenous route.

The recommended dose is 0.6 to 1.0 mg/kg corresponding to 3 to 5 ml of product/100 kg. These doses allow variable sedation (mild to strong) depending on the dose, with variable analgesia from one animal to another, and marked muscle relaxation.

The function of dose administration results in light to heavy sedation with individual varying degrees of analgesia and pronounced muscle relaxation, sufficient for loading and unloading, shoeing, clinical examinations, wound care, obstetrical intervention, and interventions not too much painful.

SEDAZIN can be used in combination with other preparations for painful procedures on standing or lying animals.

• **Dogs:**

SEDAZIN is injected **intramuscularly** and, under certain conditions, **intramuscularly**. Dosage varies from 1 to 3 mg/kg, so it is 0.05-0.15 ml/kg. These doses provide variable sedation, analgesia and muscle relaxation (mild to severe) depending on the dose and the individual sensitivities of each animal.

Generally, the effect obtained allows painful assisted interventions.

• **Cats:**

SEDAZIN is recommended by **intramuscular or subcutaneous route** at doses of 2 to 4 mg/kg, corresponding to 0.1-0.2 ml/kg. The effects obtained (sedation, analgesia, muscle relaxation) depend on the dose and the individual sensitivity of the each animal.

SEDAZIN is usually combined with other preparations for painful procedures.

CONTRAINDICATIONS AND INTERACTIONS

- Do not use in case of severe renal, hepatic or cardiac insufficiency.
 - In dogs and cats, do not use in case of esophageal obstruction, gastric torsion or of hernias.
 - Caution during lung diseases.
 - Avoid injecting the specialty during the last month of gestation, in all species, contractions Uterine induced by the product which can cause premature delivery.
- Simultaneous administration of other drugs such as local anesthetics, narcotics, tranquilizers, antibiotics, sulfonamides, saline and calcium preparation is compatible.

SIDE EFFECTS

- In anesthetized animals, mainly during and after the awakening phase, in very rare cases, cardio-respiratory disorders (cardiac arrest, dyspnea, bradypnea, pulmonary oedema, hypotension, serum epulent disorder, tremors) were observed.
- In dogs and cats, administration generally causes vomiting. This effect can be reduced by letting the animals fast.

PRECAUTIONS FOR USE

Precautions for employees of the animals:

- Avoid injecting the specialty during the last month of gestation, in all species, contractions uterine induced by the product which can cause a premature delivery.
- The drug causes a hypnotic state with sedation, accompanied by generalized muscle relaxation and analgesia (anesthesia) variable degree from one species to another individual and d.
This individual disposition can lead to reactions justifying, before the administration of the drug, to have a precise idea of the general status of the animal to be treated.
- The action of the drug can be reduced under the influence of external stimuli, the animal should be left in the rest, sheltered from noise and excitement until the action reaches its peak. development
- Combination with other pre-anaesthetic or anesthetic agents should be evaluated benefit-risk which will take into account the composition of the drugs used and their doses, if intervention, the class of SA nature (American Society of Anesthesiologists) to which the animal belongs.
Recommended doses may vary depending on the anesthetic combination used.

- The tympanism sometimes observed in ruminants lying down will be suppressed by ventral decubitus. For avoid aspiration of saliva and food, put the head and neck in an inclined position.
- When using high doses, leave the animals on an empty stomach.

~~Precautions for preparing for the person who administers the medicinal veterinary animal:~~

- In the event of oral absorption or accidental injection, consult a doctor immediately and show the package leaflet to him, but DO NOT DRIVE a vehicle, as sedation and changes in blood pressure may occur.
- Avoid contact with skin, eyes and mucous membranes.
- Immediately wash exposed skin after exposure with large amounts of water.
- Remove contaminated clothing which is in direct contact with the skin.
- In the event of accidental contact of the product with the eyes, rinse abundantly with clear water. If symptoms occur, consult a doctor.
- If pregnant women handle the product, they should take special precautions not to self-inject the product, as it may cause uterine contractions and decreased post-exposure fetal blood pressure.

Medicine advice:

- Xylazine is an alpha 2 adrenergic receptor agonist; the symptoms appearing after his absorption may consist of clinical effects including dose-dependent sedation, respiratory depression, bradycardia, hypotension, dry mouth, and hyperglycemia; ventricular arrhythmias have also been reported. Respiratory and hemodynamic symptoms should be treated symptomatically.

WITHDRAWAL PERIOD

- **Meat and offal:** Nil.
- **Milk:** None.

STORAGE CONDITIONS

- **Unopened container:** Keep the product in the original packaging, protected from light and at a temperature at 25°C.
- **After opening the bottle:** 4 weeks.

PHARMACEUTICAL FORM AND PRESENTATION

Solution for injection.
50ml and 100ml bottles.