

Overdoses or conventional doses in hypersensitive persons (e.g., hyperthyroid patients) cause severe hypertension with violent headache, photophobia, stabbing retrosternal pain, pallor, intense sweating, and vomiting.

OVERDOSAGE

Overdosage with Noradrenaline Sintetica may result in headache, severe hypertension, reflex bradycardia, marked increase in peripheral resistance, and decreased cardiac output. In case of accidental overdosage, as evidenced by excessive blood pressure elevation, discontinue Noradrenaline Sintetica until the condition of the patient stabilizes.

DOSAGE AND ADMINISTRATION

Noradrenaline Sintetica is a concentrated, potent drug which must be diluted in glucose containing solutions prior to infusion. An infusion of Noradrenaline Sintetica should be given into a large vein (see PRECAUTIONS).

Restoration of Blood Pressure in Acute Hypotensive States

Blood volume depletion should always be corrected as fully as possible before any vasopressor is administered. When, as an emergency measure, intraaortic pressures must be maintained to prevent cerebral or coronary artery ischemia, Noradrenaline Sintetica can be administered before and concurrently with blood volume replacement.

Diluent: Noradrenaline Sintetica should be diluted in 5 percent glucose solution or 0.9 percent sodium chloride with 5 percent glucose. These glucose containing fluids are protection against significant loss of potency due to oxidation. Whole blood or plasma, if indicated to increase blood volume, should be administered separately (for example, by use of a Y-tube and individual containers if given simultaneously). Noradrenaline Sintetica contains no antimicrobial preservative. It is for single use in one patient only. Discard any residue.

Chemical and physical in-use stability (following dilution) has been demonstrated for 24 hours at 25°C. From a microbiological point of view, the product should be used immediately. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at 2 to 8°C, unless dilution has taken place in controlled and validated aseptic conditions.

Average Dosage: Add 2 mL of the Noradrenaline Sintetica to 500 mL, or 4 mL of Noradrenaline Sintetica to 1000 mL of a 5 percent glucose solution or 0.9 percent sodium chloride with 5 percent glucose. Each mL of this dilution contains 4 mcg of the base of Noradrenaline Sintetica. Give this solution by intravenous infusion. Insert a plastic intravenous catheter through a suitable bore needle well advanced centrally into the vein and securely fixed with adhesive tape, avoiding, if possible, a catheter tie-in technique as this promotes stasis. An IV drip chamber or other suitable metering device is essential to permit an accurate estimation of the rate of flow in drops per minute. After observing the response to an initial dose of 2 mL to 3 mL (from 8 mcg to 12 mcg of base) per minute, adjust the rate of flow to establish and maintain a low normal blood pressure (usually 80 mm Hg to 100 mm Hg systolic) sufficient to maintain the circulation to vital organs. In previously hypertensive patients, it is recommended that

the blood pressure should be raised no higher than 40 mm Hg below the preexisting systolic pressure. The average maintenance dose ranges from 0.5 mL to 1 mL per minute (from 2 mcg to 4 mcg of base).

High Dosage: Great individual variation occurs in the dose required to attain and maintain an adequate blood pressure. In all cases, dosage of Noradrenaline Sintetica should be titrated according to the response of the patient. Occasionally much larger or even enormous daily doses (as high as 68 mg base) may be necessary if the patient remains hypotensive, but occult blood volume depletion should always be suspected and corrected when present. Central venous pressure monitoring is usually helpful in detecting and treating this situation. Dilution can be varied depending on the clinical fluid volume requirement

Fluid Intake: The degree of dilution depends on clinical fluid volume requirements. If large volumes of fluid (glucose) are needed at a flow rate that would involve an excessive dose of the pressor agent per unit of time, a solution more dilute than 4 mcg per mL should be used. On the other hand, when large volumes of fluid are clinically undesirable, a concentration greater than 4 mcg per mL may be necessary.

Duration of Therapy: The infusion should be continued until adequate blood pressure and tissue perfusion are maintained without therapy. The infusion rate of Noradrenaline Sintetica should be reduced gradually, avoiding abrupt withdrawal. In some of the reported cases of vascular collapse due to acute myocardial infarction, treatment was required for up to six days.

Adjunctive Treatment in Cardiac Arrest

Infusions of Noradrenaline Sintetica are usually administered intravenously during cardiac resuscitation to restore and maintain an adequate blood pressure after an effective heartbeat and ventilation have been established by other means.

Average Dosage: To maintain systemic blood pressure during the management of cardiac arrest, Noradrenaline Sintetica is used in the same manner as described under Restoration of Blood Pressure in Acute Hypotensive States. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to use, whenever solution and container permit.

Do not use the solution if its color is pinkish or darker than slightly yellow or if it contains a precipitate.

Avoid contact with iron salts, alkalis, or oxidizing agents.

HOW SUPPLIED

Noradrenaline Sintetica (noradrenaline tartrate) contains the equivalent of 1 mg base of noradrenaline per 1 mL (4 mg/4mL). Supplied as:

Unit of Sale	Concentration
10 in a Carton	4 mg/4mL (1 mg/mL) 1 mg/mL

Store below 30°C and protect from light. Do not refrigerate or freeze

Manufactured by Sintetica SA Via Penate 5 CH-6850 Mendrisio Switzerland

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OFFICIAL APPROVAL	DATE: 28.10.22
CODE-VERSION: 421300373-00	AW OPERATOR: FB
DIMENSIONS: 420x270 mm / FOLDED 105x45 mm	SUPPORT: white paper
MIN. FONT SIZE: 10 pt	
COLORS: <div>black</div>	
For a correct identification of the colors, please refer to the corresponding Pantone color chart.	
REFERENCE APPLICATION: NEW AW	
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APPROVED BY: _____	DATE: _____