

NOREPINEPHRINE KALCEKS 1 MG/ML

Solution For Injection / Infusion



Norepinephrine, also known as noradrenaline, is a medication for the treatment in patients with very low blood pressure. Norepinephrine is as a mixture of two stereoisomers. L-Norepinephrine is a naturally occurring catecholamine hormone that functions as a neurotransmitter in the sympathetic nervous system. Norepinephrine Kalceks 1 mg/ml concentrate for solution for infusion contents the biologically active L-isomer only and is enantiomerically pure from inactive D-isomer.

Approved :

- By the Food and Drug Administration (FDA) on July 13, 1950;
- In Europe on 1995.

Indications :

- For blood pressure control in certain acute hypotensive states (e.g. pheochromocytectomy, sympathectomy, poliomyelitis, spinal anaesthesia, myocardial infarction, septicaemia, blood transfusion, and drug reactions).
- As an adjunct in the treatment of cardiac arrest and profound hypotension.

Method of administration :

Intravenous (IV) after dilution.

Norepinephrine advantages :

- Norepinephrine directly stimulates alpha-adrenergic receptors by causing vasoconstriction of the radial smooth muscle of the iris, arteries, arterioles, veins and urinary bladder;
- Recent clinical trial studies proved norepinephrine activity in the treatment of septic shock. Evidence suggests a survival benefit, better hemodynamic profile and reduced adverse events rate for norepinephrine over dopamine; and should be regarded as the first line vasopressor¹.
- Norepinephrine possesses multiple effects on the immune system. The sympathetic nervous system is the dopamine primary path of interaction between the immune system and the brain, and several components receive sympathetic inputs, including the thymus, spleen and lymph nodes².

Norepinephrine Kalceks 1 mg/ml concentrate for solution for infusion available :

4ml of solution filled in colourless glass ampoules with one point cut.

Product shelf life unopened ampoules : 2 years.

Product shelf life after opening the ampoules : Once opened, the product should be prepared immediately.

Special precautions for storage :

Do not store above 30°C.

Keep the ampoules in the outer carton in order to protect from light.

Pack sizes :

10 ampoules of 4ml

Refer package insert for further information.

¹Avni, T., Lador, A., Lev, S., Leibovici, L., Paul, M., Grossman, A. *PLoS One* 2015, 10.

²Kenney, M.J., Ganta, C.K. *Autonomic nervous system and immune system interactions. Comprehensive Physiology.* 2014, July 4:1177–200.

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