Composition of the drug: active substance - decamethoxin; 1 ml of the solution contains 0.2 mg decamethoxin, auxiliary components: sodium chloride, water for injections.

Pharmacotherapeutic group. Antiseptic and disinfecting agents. ATC code D06AX01.

Manufacturer name and location. Yuria-Pharm Ltd. 10 M. Amosova Str., Kyiv 03680, Ukraine.


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Decamethoxin has antimicrobial and antifungal effects and concentrates on the cytoplasmic membrane (CPM) of a microbial cell and links with the membrane’s phospholipid lipid groups, disrupting the penetrability of the microorganism’s CPM. Decamethoxin has a pronounced bacteriostatic effect on staphylococci, streptococci, diphtherial bacilli and streptococci, and contaminating fungi (aspergilli, penicilli), an antifungal effect on trichomonads and piarda lamblia, and an antiviral effect on viruses. The drug is highly active against antibiotic-resistant microorganisms. Creation of decamethoxin-resistant forms during prolonged therapy is slow and does not exceed the effective concentrations of the drug. Bacteriostatic (fungistatic) concentrations are similar to its bactericidal (fungicidal), virusocidal and antitoxic concentrations. The sensitivity of antibiotic-resistant microorganisms to antibiotics is increased during the drug therapy. Absorption of the drug by mucous membranes, undamaged skin and second-skin surface is virtually absent.

Indications. Treatment of pustular and fungal skin diseases, microbial eczema, pyrophilinogenic soft tissue lesions (abscesses, carbuncles, phlegmosis, furuncles, featured wounds, whitlows), and dental diseases (ostomas, acute necrotizing ulcerative gingivitis, dystrophic-inflammatory stage I and II paradontosis in the active phase). Indicated for patients with pulmonary abscesses, bronchietatic disease, cystic lung hornpipe complicated by featuring, chronic bronchitis in the active phase, chronic tobitis, pneum, carriage of staphylococci and diphtheria bacilli, ulcerate colds, and paracyst. In gynecological practice – for treatment of the vaginal mucous membrane candidosis, bacteriogenic inflammatory diseases of the genital, prenatal birth canal sanitation, and treatment of postpartum endometritis. Hygienic disinfection of hand skin and rubber gloves during patient inspection, medical procedures and small-scale operative treatments; pre-sterilizing disinfection of medical instruments and diagnostic equipment made of metals, rubber, polymers and glass.

Contraindications. Individual hypersensitivity to the components of the drug. Prediscautions during administration. Decamethoxin has no toxic effects in the concentrations used in Decasan®. Prolonged drug therapy causes no toxic reactions. Heating of the drug to 30°C before administration increases its efficiency. In preparation and administration the drugs diluted in distilled water at the ratio of 1:1 or 1:2. Special administration precautions. Administration during pregnancy or lactation. Prediscautions concerning administration during pregnancy or lactation are absent.

Impact on the reaction time for driving or operation of machinery. Prediscautions concerning the impact on the reaction time in driving or operating machinery are absent.

Administration in children. No data on experience of administration in children are available. Administration and doses. For pustular and fungal skin diseases and festering wounds, the solution is used as a wash or poultice. For treatment of proctitis and ulcerative colitis, 50-100 ml of warm solution is administered as enema, twice daily; until all signs of acute inflammation are gone. In cases of chronic paraproctitis, fistulas are washed with Decasan® on a daily basis during 3-4 days. For bleeder irrigation in adults, 500-600 ml of decamethoxin solution is used, diluted in purified water, 1 to 3 ratio (7 to 20 washes per treatment course). Lesions of the oral cavity mucous membranes are treated by applying 25-50 ml of the solution during 10-15 minutes, or by gargling (150-200 ml). For dystrophic-inflammatory stage I and II paradontosis in the active phase, gums pockets are irrigated with warm solution (50-60 ml), or solution is applied to the gums until inflammation symptoms cease. Patients with candidosis of the oral cavity mucous membranes and acute necrotizing gingivitis are prescribed mouth gargling (100-150 ml) four times daily, during 5-10 days. For treatment of tonsillar candidosis and chronic tobitis, tubular laceration washing is prescribed (20-75 ml per wash). Sanitation of carriers of staphylococci and diphtheria bacteria is done by throat gargling, laceration washing, and nasopharyngeal and tonsil irrigation. Laceration washing is done every other day, 5-7 times daily. In cases of pulmonary abscesses, all apps and inhalations, their conclusion, chronic bronchitis in the active phase, intrabronchial administration of Decasan® is performed: to microtracheostomy – 25-50 ml 1-2 times daily; via a tracheostomy catheter – 5-10 ml once daily, via ultrasound inhalation – 5-10 ml 1-2 times daily on two-three weekly basis. Treat course duration is 2-4 weeks. For treatment of microbial, fungal and chondromyalgia diseases of the vaginal mucous membranes, Decasan® is applied by sprinkling (100-100 ml of the solution warmed to 38°C, 3 times daily). The same method is used for prenatal birth canal sanitation, in a single procedure. For treatment of postpartum endometritis, the uterine cavity is irrigated with 50 ml per wash of warm 0.9% solution of decamethoxin. Use of hand skin and rubber gloves is done by applying 5-10 ml of the drug on a previously washed surface and distributing it evenly throughout the surface to be disinfected, during 3 minutes. Cleaned medical instruments, tiles, boards, tools and equipment is disinfected by being immersed into the solution for 30 minutes. Supervision. Due to the lack of absorption, overdosing is not observed. Side effects. In isolated cases, individual hypersensitivity possible. In such patients, skin rash may appear after the use of the drug, burning sensation, dryness, itching after administration of the drug and other local allergic reactions after intrabronchial administration, a sensation of heat behind the breastbone is possible, elevated heart rate and other effects at the end of the procedure. Interaction with other drugs and other forms of interaction. Pharmaceutical: decamethoxin is a cationic surface-active agent, so it is incompatible with soap and other anionic compounds. Pharmacodynamics: decamethoxin increases the sensitivity of antibiotic-resistant microorganisms to antibiotics.

Shell life. 3 years.

Storage conditions. Keep out of reach of children. Store in a dark place at temperatures not exceeding 25°C. Don’t freeze.

Packaging. 50 ml, 100 ml and 200 ml glass bottles; 50 ml, 100 ml, 250 ml, 500 ml, 1000 ml, 2000 ml, 5000 ml and 10000 ml polymer composite containers (bags).

Sales list. Over the counter.
DECASAN is active only against microbial cells, it has no activity against human cells.

Decamethoxine is a surface-active agent (SAA), exerting its action via disruption of cellular wall integrity. The cellular wall of microorganisms consists of short lipid chains subject to rapid decomposition with DECASAN.

The mechanism of action of DECASAN:
- increased permeability of bacterial cells with subsequent destruction;
- inactivation of exotoxin;
- inhibition of bacterial protein synthesis and cellular division.

preserves activity in the presence of proteins
potentiating the effect of antibiotics
prevents adhesions
promotes elimination of resistance plasmids in microorganisms
does not cause mucosal burns when used

bactericidal action
fungicidal action
virucidal action
anti-inflammatory action
protistocidal action
desensitising action