Nystatin

Antibiotic Class:
Polyene antifungal agent

Antimicrobial Spectrum:
*Candida albicans* Cryptococcus neoformans, *Histoplasma capsulatum*, *Coccidioides immitis*,

Mechanism of Action:
Induces membrane permeability by forming complexes with ergosterol located in fungal membranes, leading to intracellular leakage and cell death.

Pharmacodynamics:
Concentration dependant fungicidal effects in *Candida spp*.

Pharmacokinetics:
Absorption: Nystatin is not absorbed to any significant extent following oral, cutaneous, or vaginal administration
Distribution: No distribution studies have been published on nystatin
Metabolism: No data available
Elimination: No elimination studies have been published on nystatin due to its primary use in topical indications

Adverse Effects:
Gastrointestinal: Nausea, vomiting, diarrhea (following PO administration)
Dermatologic: Rare case reports of contact dermatitis, and skin eruptions have been reported

Dosage:
Topical: Powder 50 Million Units/10g, Cream 100,000 Units/g, Ointment, Oral pastilles 200,000 Units
Suspension: 100,000 Units/ml
Vaginal tablets: 100,000 Units

Adults:
Oral candidiasis: Swish and swallow 4-6mL (400,000 to 600,000 Units) PO four times daily
Topical: Apply cream or ointment two to three times daily to affected areas, OR apply topical powder to affected area two to three times daily
Vaginal infections: Insert 1 vaginal tablet into vagina at bedtime nightly x 14 days.

Infants:
Oral candidiasis: Using dropper, apply 1 mililiter to each buccal membrane (total of 2 milliliters OR 200,000 units) four times daily.

Children:
Oral candidiasis: Swish and swallow 4-6mL (400,000 to 600,000 Units) PO four times daily
Disease state based dosing:
Renal Failure: No data available
Hepatic failures: No data available

**Contraindications/Warnings/Precautions:**
Contraindications: Hypersensitivity to nystatin
Precautions: None

**Drug Interactions:**
None are known

**Pregnancy:**
Category C: Risk unknown. Human studies inadequate.

**Monitoring Requirements:**
Improvement in fungal infection by oral plaques, or topical improvement if applied for yeast infections of the skin

**Generic names/Brand names/Manufacturer:**
Bio-Statin – Bio-Tech Pharma;
Mycostatin® - Bristol-Myers Squibb
Nystop® - Paddock Labs
Pedi-Dri® - Pedinol
Nystatin Cream – Various manufacturers
Nystatin Ointment – Various manufacturers