Bactrim

Trade mark ROCHE

Dual-action chemotherapeutic agent with bactericidal properties

Composition. Active ingredients: trimethoprim (TM)and sulfamethoxazole (SMZ).

Form	TM	SMZ
1 tablet	80 mg	400 mg
1 forte tablet	160 mg	800 mg
1 measure (5 ml) pediatric syrup	40 mg	200 mg
1 measure (5 ml) adult syrup	80 mg	400 mg

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Excipients. Forte tablets: macrogol in the coating. Pediatric syrup: preservatives (methylparaben, E218; propylparaben, E218; lavourings; sweetener (sorbitol). Adult syrup: preservatives (methylparaben, E280; propylparaben, E280; propy against organisms that are resistant to one of the two components. Furthermore, the risk of development of widespread resistance is minimized.

The antibacterial effect of "Bactrim" in vitro covers a wide range of gram-positive and gram-negative pathogenic organisms

sitive organisms (> 75% sensitive strains):

Generally sensitive organisms (> 75% sensitive strains): Escherichia coli, Proteus mirabilis, (Rebisella pneumoniae, Enterobacter spp., Acinetobacter spp., Salmonella typhi, nontyphi salmonellae, Shigella spp., Vibrio cholerae, Yersinia enterocolifica. Brucella spp., Aeromonas hydrophilia, Yersinia peetis, Haemophilius influenzae, Neisseria meninglidis, N. gonormea, Streptococcus pneumonae, Str. pyogenes, Str. agalactiae, Str. viridans, staphylococcus aureus, St. epidermidis, Listeria monocytoge es, Chlamydia trachomatis, Nocardia neumocystis ca

Partially sensitive organisms:

Fatuary setsure originations. Infolio-positive Proteus spp., Serratia marcescens, Pseudomonas spp. (non-aeruginosa), Providencia spp., Campylobacter fetus. Achromobacter spp., bacteroides spp., Str. faecalis, Toxoplasma gondii, Plasmodium spp., Mycobacterium marinum, Leglorella spp. As a rule, Mycoplasma spp., Mycobacterium tuberculosis, Pseudomonas aeruginosa and

Treponema pallidum are resistant.

In the case of infections caused by partially sensitive pathogens a sensitivity test is recommended.

to exclude any resistance. Sensitivity to "Bactrim" can be determined by standardized methods such as the disk or dilution tests recommended by the National Committee for Clinical Laboratory Standards (NCCLS). The following criteria for susceptibility are recommended by the NCCLS:

	Disktest*, diameter of inhibition zone (mm)	Dilution test**, MIC (µg/ml)	
2		TM	SMZ
Sensitive	≥ 16	≤ 2	≤ 38
Partially sensitive	11 – 15	4	76
Resistant	≤ 10	≥ 8	≥ 152

* Disk: 1.25 ug TM and 23.75 ug TMZ. ** TM and SMZ in a ratio of 1 to 20.

Pharmacokinetics: The pharmacokinetic properties of TM and SMZ are very similar. Following a single dose of 160 mg TM+800 mg SMZ, the peak plasma concentrations are 1.5–3 µg/ml for TM and 40–30 µg/ml for SMZ. If administration is repeated every twelve hours the concentration stabilizes at this le stabilizes at this level, and there is thus no danger of accumulation. The volume of distribution of TM is 69–133 litres and that of SMZ 10–16 litres.

The half-lives of the two components are very similar (a mean of ten hours for TM and of eleven

hours for SMZ).
At the above concentrations, 42–46% of TM and 66% of SMZ is bound to plasma proteins

Studies in both animals and man have shown that diffusion of "Bactim" into the tissue is good. Large amounts of TM and smaller amounts of SMZ pass from the bloodstream into the interstitial fluid and other extravascular body fluids. With the combination present in "Bactim", however, the concentrations of TM and SMZ are higher than the minimum inhibitory concentrations for most

pathogenic organisms.

Both substances, as well as their metabolites, are eliminated almost entirely by the kidneys, approximately 50% of the TM dose and 20% of the SMZ dose being excreted unchanged. The

approximately 50% of the 1M dose and 20% of the 5MZ dose being excreted undranged. The metabolities of MXZ are antibacterially inactive, while some of the metabolities of TM are active. Indications: Upper and lower respiratory tract infections: Acute and chronic bronchist bronchiectasis, pneumonia (including Pneumocystis carinii pneumonia); pharyngitis, tonsillitis (in infections due to group A S-hemolytic streptococci, the rate of eradication is not fully satisfactory). sinusitis, otitis media.

sinusitis, otilis media. Renal and utilinary tract infections: Acute and chronic cystitis, pyelonephritis, urethritis, prostatitis. Gentital infections in both sexes, including gonococcal urethritis, Gastrioritestinar bract infection, including typholid and paratyphold fever, and the treatment of persistent carriers, bearing dispensely; choice (as an adjunct to fulid and electroyle replacement). Skih and soft lises infections: Propriet furnances, abscesses and infected wounds. Other bacterial infections. Acute and chronic osteomyellis, acute brucellosis, septiocenia due to sensitive organisms. Nocardioses, myectioma (except when causeed by the true fungl). South

American blastomycosis.

Dosage: For adults and children over twelve years.

	Tablets, measures of adult syrup		Forte tablets	
	morning	evening	moming	evening
Standard dosage	2	2	1	1
Minimum dosage				
and dosage for long-term therapy				
(longerthan 14 days)	1	1	1/2	10
High dosage (for particularly severe cases)	3	3	11/2	110

"Ractrim" is hest taken after r s with an adequate amount of fluid.

Special Dosage instructions:
a. Dosage for gonorrhea
5 tablets or measures of adu neasures of adult syrup both in the morning and in the evering, or 21/2 forte tablets

b. Dosage for acute uncomplicated urinary tract infections.

For women with acute uncomplicated infections of the urinary tract, a single dose of 3 forte tablets is recommended. The tablets should, if possible, be taken in the evening after a meal or

очние returng.

с. The recommended dosage for patients with Pneumocystis carinii pneumonia is up to 20 mg TM per kg and up to 100 mg SMZ per kg in 24 hours, given in equal divided doses every six hours for 14 days.

d. Dosage for children.

	Measures of p	Measures of pediatric syrup	
	moming	evening	
6 weeks to 5 months	1/2	1/2	_
6 months to 5 years	1	1	
6 years to 12 years	2	2	

The above schedules for children are approximately equivalent to a daily dose of 6 mg TM and 30

mg SMZ per kg bodyweight. For severe infections the dosage shown for children may be increased

Dosage for patients with impaired renal function

Creatinine clearance	Recommended dosage schedules	
> 30 ml/min	Standard dosage	
15 - 30 ml/min	Half the standard dosage	
< 15 ml/min	Use of "Bactrim" not recommended	

Restrictions on use: "Bactrim" is contraindicated in patients with marked liver parenchymal damage. It is also contraindicated in patients with severe renal insufficiency when repeated determinations of the plasma concentration cannot be made.

determinations of the plasma concentration cannot be made. There is an increased risk of severe adverse reactions in elderly patients or when complicating conditions exist, e.g. impaired kidney and/or liver function, or concomitant use of other drugs (in which case the risk may be related to the dosage and duration of freatment). Fatal outcome, though rare, has been reported in connection with adverse reactions such as blood dyscrasias, Stevens-

Johnson syndrome, toxic epidermal necrolysis (Lyelf's syndrome) and fulminant liver necrosis. In order to minimize the risk of undesirable reactions, the duration of treatment with "Bactrim" should be as short as possible, particularly in elderly patients. In the event of renal impairment, dosage

be as short as possible, particularly in the properties in the strength of the should be adjusted according to the Special dosage instructions.

If "Bactrim" is given over a prolonged period, regular blood counts are required. If a significant reduction in the count of any formed blood element is noted, "Bactrim" should be discontinued.

Other than in exceptional cases "Bactrim" should not be given to patients with serious hematological

disorders. The combination has occasionally been administered to patients receiving cytotoxic agents for the treatment of leukemia, without evidence of any adverse effect on the bone marrow or peripheral blood.

Owing to the possibility of hemolysis, "Bactrim" should not be given to patients with a G6PD

ry unless absolutely essential, and then only in minimal doses. Int should be discontinued immediately at the first appearance of skin rash or any other

serious adverse reaction

Senious adverse reacration. Page 47 and a series with a history of hypersensitivity to sulfonamides or trimethoprim. For safety reasons, "Bactrim" is contraindicated during pregnancy, if pregnancy cannot be excluded, possible risks should be weighed against the expected therapeutic effect. "Bactrim" must not be given to premature and newborn infants during the first few weeks of life.

Although TM and SMZ pass into the breast milk, the use of "Bactrim" by nursing mother without risk for the infant. In elderly patients, or in patients with preexisting folic acid deficiency or kidney failure, hematological

in eloarry patients, or in patients with preexisting role and earliers of konley haulter, fernatiootics changes include to or folia cald deficiency may occur. These are reversible by folial cald therapy. Patients undergoing long-term treatment with "Bactrim" (in particular, patients with kidney failure) should be examined regularly for time values and kidney function. An adequate fluid intake should be ensured during treatment.

An adequate fluid intake should be ensured during treatment in susually well tolerated. Side effects, Undesirable effects. At the recommended dosage. "Bactrim" is usually well tolerated. Side effects,

if any, are usually mild.

if any, are usually minu. The following effects have been reported (in order of frequency): gastrointestinal side effects: nausea (with or without vomiting), stomatitis, diarrhea, rare cases of hepatitis, and isolated cases of pseudomembranous enterocoilis. Drug-induced skirn rashes: These are generally mild and quickly reversible after withdrawal of medication. Like many other drugs, "Bactim" has in rare cases been linked to erythema multiforms. Stewens-Johnson syndrome and toxic epidermal necrobysis (Lyell's

syndrome). Most of the hematological changes observed were mild and asymptomatic; they proved to be reversible on withdrawal of the therapy. The changes most commonly seen were leukopenia, neutropenia and thrombocytopenia. Very rarely, agranulocytosis, megalobilastic anemia,

pancytopenia or purpura may occur.
As with any other drug, allergic reactions may occur in patients who are hypersensitive to the

Pulmonary infiltrates such as occur in eosinophilic or allergic alveolitis have been reported in rare instances. They may manifest themselves through symptoms such as cough or shortness of breath. Should such symptoms appear unexpectedly or worsen, the patient should be reevaluated and discontinuation of "Bactrim" therapy considered.

Race cases of aseptic meningitis or meningitis-like symptoms have been described.

Interactions: An increased incidence of thrombocytopenia with purpura has been observed in elderly patients concurrently receiving certain diuretics, primarily thiazides.

It has been reported that "Bactrim" may prolong the prothrombin time in patients receiving the anticoagulant warfarin. This interaction should be borne in mind when "Bactrim" is given to patients already on anticoagulant therapy. In such cases, the coagulation time should be determined anew. "Bactrim" may inhibit the hepatic metabolism of phenytoin. A 39% increase in phenytoin half-life "Isacrum" may innor the nepanc metaooism or pnerytom. A 39% increase in pnerytom nari-me and a 27% decrease in the metabolic clearance rate of pheryton thave been observed following administration of "Bactrim" at normal clinical dosages, if the two drugs are given concurrently, it is important to watch for an excessive pherytoin effect. Sulfonamides can also displace methot exate from plasma protein binding sites, thus increasing

Sulfonamides can also displace met free methotrexate concentrations.

Treatment inclinations are concentrations. The Stacking in the International Concentration is a Stacking in the Stacking in th

with a serum methotrexate assay using the competitive protein-binding technique when bacterial dihydrofolate reductase is used as the binding protein. No interference occurs, however, if

The presence of TM and SMZ may also interfere with the Jaffé alkaline picrate reaction assay for nine, causing values in the normal range to be increased by about 10%

This medicine should be used before the date shown after Stability:

Tablets (scored) Forte tablet (scored) Packs . 20 100 10, 20, 50 50, 100 ml Pediatric syrup Adult syrup 100 ml

- A medicament is a product which affects your health, and its consumption contrary to Follow strictly the doctor's prescription, the method of use and the instructions of the
- pharmacists who sold the medicament.

 The doctor and the pharmacists are experts in medicine, its benefits and risks

 Do not by yourself interrupt the period of treatment prescribed foryou.

Do not repeat the same prescription without consulting your doctor

Keep medicaments out of the reach of children Council of Arab Health Ministers Union of Arab Pharmacists