

1. Product Name
Generic name: Azithromycin 500 mg & Brand name: Rominazit
2. Name and Strenght of Active ingredient(s): Azithromycin 500 mg
3. Product Description: Rominazit (Azithromycin 500 mg):
Hard geletin capsules with white body and pink cap.
4. Pharmacodynamical Pharmacolinetics
Pharmacodynamic properties
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A Pharmacodynamic prinamacokinetics
Pharmacodynamic properties
Pharmacotherapeutic group - Anti-infectious agents for systemic use, macrolides.
ATC code: J01FA10
Mechanism of action
Azithromycin is a macrolide antibiotic belonging to the azalide group. The mechanism of action of azithromycin is based mainly upon the suppression of bacterial protein synthesis by means of binding to the ribosomal 50s sub-unit and inhibition of peptide translocation.
Pharmacological effects
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Praemacological errects
Azithromycin is active sgainst a large number of microorganisms causing som common human diseases - Aerobic Gram+ and Gram- microorganisms (Staphylococcus eureus, Heemophilus influenzae, Methyellin-susceptible Streptococcus proumoniae, Legionella pneumophila, Penicillin-susceptible Streptococcus progenes (Group A), Moraxella caterinella and etc.), Anaerobic microorganisms (Clostridium perfingens, Fusobacterium spp., Prevotella spp. and Chlamydia trachomatis.

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Pharmscokinstic properties

Absorption: Peak plasms concentrations are attained 2-3 hours after administration.

Distribution: Orally administered azithromych is intensively and widely distributed throughout the body. It has been demonstrated that the concentrations of azithromych measured in tissues are noticeably higher (as much as 50 times) than those measured in

Biotransformation: Ten metabolites were detected which are not microbiologically active. <u>Elimination</u>: Approximately 12% of an intravenously administered dose of azithromycin is excreted unchanged in unline within the following 3 days. Particularly high concentrations of unchanged azithromycin have been found in human bile.

5. Indication
 5. Indicated in adults and children weighing more than 45 kg for the treatment of infections known or suspected to have been caused by one or more azithromycin-susceptible microorganisms:
 Upper respiratory tract infections - pharyngitis/tonsillitis, sinusitis and otitis media;
 Lower respiratory tract infections - bacterial bronchitis and community acquired pneumonia;
 Skin and subcutaneous tissues - moderate acne vulgaris, erythema chronicum regrans (first stage of Lyme disease), eryspielas, impetigo and secondary pyoderma;
 Sexually transmitted diseases - uncomplicated urethritis and cervicitis caused by Chlamydia trachomatis.
 The use of the product should be in line with national and local quidelines and

Sexually transmitted diseases - uncomplicated urethritis and cervicitis caused by Chilamydia trachomatis.
 The use of the product should be in line with national and local guidelines and recommendations for conducting antibacterial therapy.
 Recommended Dose
 Adults. Including the elderty and children weighing more than 45 kg
 Upper and lower respiratory tract infections: Total course dose of 1500 mg, which should be taken for 3 days (500 mg once daily).
 Moderate acne vulgaris: Total course dose of 6 g, which should be taken under the following recommended dosage regime: 500 mg once daily for 3 consecutive days, 500 mg once weekly for the next 9 weeks. The dose for the second week should be taken of days after the administration of the first dose and the dose for the third to eighth weeks should be taken over 7-day intervals.
 Uncomplicated sexually transmitted diseases caused by Chlamidia trachomatis.
 The therapeutic dose is 1,000 mg, taken as a single dose.
 Erythema chronicum migrans (first stage of Lyms disease): Total course dose of 3 g azithromycin, which should be taken under the following dosage regime: a single daily dose of 1 g on Day 1, single daily doses of 500 mg on Days 2-5.
 Children weighing less than 45 kg; Rominazit 500 mg capsules are not recommended in children weighing less than 45 kg, due to the lack of accurate dosing.
 Renal Impeliment: No dose adjustment is required in patients with mild to moderate renal impeliment; No dose adjustment is required in patients with mild to moderate renal impeliment: (creatinine clearance >40 m/mini).
 Caution should be exercised in patients with severe renal impairment (creatinine clearance >40 m/mini).

impairment (creatinine clearance >40 m/l/min). Caution should be exercised in patients with severe renal impairment (creatinine clearance <40 m/l/min) (see section 4.4). <u>Hegatic impairment</u>. Since szithromycin is metabolised in the liver and excreted in the bile, the product in contraindicated in patients suffering from severe liver diseases. No studies have been conducted in relation to the use of azithromycin in this patient group. <u>Method of administration</u>: Rominazit capsules should be swallowed whole, as a single daily dose. Like the other antibiotics, the product should be taken at least one hour before or two hours after mesi.

or two hours after meal.

7. Mode of Administration: Oral.

8. Contraindication: Do not take Rominazit

If you are allergic to azithromycin or any of the other ingredients of this medicine;

If you are allergic to erythromycin or other antibiotics of the macroilde and ketolide

group,
if you are currently taking medicines containing ergot derivatives.
Warnings and Precautions:

9. Warnings and Precautions: Allergic reactions: During the treatment with azithromycin, as with erythromycin and other macrolide antibiotics, serious allergic reactions may develop in rare cases, such as angioneurotic oedema and anaphytaxis (rarely fatal). In some of these reactions, recurrence of clinical symptoms may be observed, whereby a longer period of observation and treatment is necessary. In case of hypersensitivity reactions occurrence, the product should be discontinued and symptomatic treatment should be administered. Due to the long tissue half-life of azithromycin, the clinical symptoms of hypersensitivity reactions may persist even after cessation of the anti-allergic treatment.

even after dessation of the anti-allergic treatment. Heart disorders

Prolonged cardiac repolarisation and QT-interval, imparting a risk of developing cardiac arrhythmia and torsades de pointes, have been observed in treatment with other macroides. A similar effect with azithromycin cannot be completely ruled out in patients at an increased risk of prolonged cardiac repolarisation. Therefore, azithromycin should be used with particular caution in patients with: congenital or acquired, clinically documented and confirmed prolongation of the QT-interval;

Interval;
cardiomyopathy, especially in case of existing heart failure;
sinus bradycardia;
existing symptomatic arrhythmia;
existing symptomatic arrhythmia;
current co-administration of other medicinal products known to prolong the QT-interval,
such as anti-arrhytmics of classes IA and IIII, claspride and terfenadire;
electrolyte disturbances, particularly hypokalaemia, hypomagnesaemia and
hypomagnesaemia

• electrolyte disturbances, particularly hypokalaemia, nypomagnesaemia and hypocaloaemila.
Superinfections: During the treatment with azithromycin, there is a possibility of developing superinfections: Including fungal infections. As with other antibacterial products, monitoring for symptome of superinfections caused by non-susceptible microorganiams, including fungi, is recommended while conducting treatment with azithromycin. Pseudomembranous collits of varying severity may develop. Mild clinical forms usually do not occur effet product discontinuation; moderate and severe forms require treatment with electrolyte solutions, amino acid solutions and those for perentral nutrition, antibacterial agents with high antibacterial activity against Clostridium difficile. Cases of diarnhoea caused by Clostridium difficile (CDAD) have been reported with the use of alimost all antibacterial agents, including, azithromycin, as its severity may range from mild diarnhoea to fatal collist leading to colectomy. CDAD must always be taken into consideration in patients in whom the antibiotic therapy is accompanied by the development of diarnhoea. Careful monitoring by a specialist is required, since CDAD may occur over two months after cessation of the antibiotic use.
Streptococcal Infections; Pencelllin is the first choice for the treatment of

Streptococcal Infections: Penicillin is the first choice for the treatment of pharyngitis/tonsillitis caused by Streptococcus pyogenes, as well as for the prevention of

pharyngitis/tonsillitis caused by Streptococcus pyogenes, as well as for the prevention of acute rheumatic fever.

Azithromycin is usually effective against streptococci in the oropharynx, but there are no data to demonstrate its efficacy in the prevention of acute rheumatism.

Renal impairment. In patients with severe renal impairment (creatinine clearance <40 mil/min), increases by 33% in the systemic exposure to azithromycin have been observed. There are no clinical data on the safe use of azithromycin in patients with severe renal impairment and therefore, the product should be used with particular caution in such cases. No dose adjustment is required in moderate and mild renal impairment (creatinine clearance >40 mil/min).

clearance >40 ml/min). Hepatic impairment, Patients with marked hepatic dysfunction and cholestasis re attention and limiting the treatment with azithnomycin, having in mind that the eliminat carried out mainly by the liver. Theatment with azithnomycin in patients with a severe disease requires caution, as there have been reports of fullminant hepatitis, poter leading to life-threatening hepatic failure. The risk is higher in patients with pre-ox-liver diseases or taking potentially hepatotoxic medicinal products. In case of ci liver diseases or taking potentially hepatitoxic medicinal products, in case of clinical symptoms and/or clinical laboratory evidence of liver dystinution, such as rapidly developing asthenia, accompanied by jeundice, dark urine, bleeding tendency or symptoms of hepatic encephalopathy, significant elevations of liver enzymes, prompt liver function tests/investigations should be performed and the administration of the product should be discontinued, if needed.

Treatment with ergot derivatives; in patients taking ergot derivative-containing medicines, the concomitant use of macrolide antibiotics accelerates the development of ergotism.

known evidence of such an interaction with azithromycin, but due feven a theoretical risk of such interaction with azithromycin, but due feven a theoretical risk of such interaction, concomitant administral and ergotamine is unadvisable. re is no know

existence of even a theoretical risk of such interaction, concomitant administration of azithmorpical and ergotamine is unadvisable.

Myssithenia gravis. Cases of exacerbations of the disease or onset of myssithenia have been reported in petients treated with azithmorpicin.

Other: Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose melabsorption should not take this medicinal product because it contains lactose monohydrate as an excipient.

The gelatin capsule contains the colourant azorubine, carmoisine (E122), which may cause allender reactions.

cause allergic reactions. 10. Interaction With Other Medicaments

10. Interaction with Other Medicaments
Antiacids: Co-administration with aluminum or magnesium-containing antacids has not led to changee in the bloavailability of azitinomycin, although has resulted in reduction of the peak pleame concentrations by approximately 25%. In view of these date, azithromycin should not be co-administered with antacids. Azithromycin intake should be at least 2 hours before or after the administeration of antacids.
Cimetiding: Cimetidine, administered two hours before azithromycin, does not adversely affect pharmacokinetic behaviour of azithromycin.
Netfinavir: In a study of 12 healthy volunteers receiving concomitant azithromycin (1.20)

saffect pharmacokinetic behaviour of aztinromycin.

Nelflavir. In a situdy of 12 healthy volunteers receiving concomitant aztinromycin (1,200 mg) and nelfinavir at the steady state (750 mg three times daily), 100% increase in aztinromycin absorption and bioavailability has been found. No significant effect on the clearance has been reported. The clinical significance of this Interaction is unknown, but caution is required in case of aztinromycin administration in patients receiving nelfinavir.

Terfenadine: Due to the risk of serious arrhythmias, leading secondarily to prolongation of the QT- interval in petients receiving other artibacterial agents concurrently with terfenadine, clinical trials were conducted to study the possible pharmacokinetic interactions. In the course of the studies, no evidence of interaction between azithromycin and terfenadine has been found. In some cases, it was not possible to exclude the possibility of such Interactions, but no concrete evidence of their occurrence has been established. As with other macrolides, azithromycin should be used with particular caution in combination with terfenadine.

Eluconazole; in an open-label, randomized, cross-over study in 18 healthy volunteers, the effects of oral 1,200 mg dose of azithromycin were investigated on the pharmacokinetics of fluconazole, administered at 800 mg and vice versa.

No significant pharmacokinetic interactions between fluconazole and azithromycin have been found.

butin: During co-administration of azithromycin and rifabutin, the serum entrations of both medicines were not affected. Neutropenia was found in individuals

ated with azithromycin and rifabutin. Neutropenia was rather associa abutin, as no causal relationship to the combination with azithromycin i (see section 4.8).

with the use or mabutin, as no causal relationship to the combination with azithromycin has been established (see section 4.8). Effects of azithromycin or other medicines Carbamazepine; in a clinical study in healthy volunteers for determining the potential pharmacokinetic interactions upon co-administration of azithromycin and carbamazepine, no significant effect on plasma concentrations of carbamazepine or its active metabolites has been observed.

Cisapride; Cisapride is metabolised in the liver by the CYP 3A4. Because macrolide antibiotics inhibit these enzymes, co-administration of cisapride may cause prolongation of the QT-interval, ventricular arrhythmias and such of the torsades de pointes type. Oxidosonine; in a pharmacokinetic clinical trial in healthy volunteers receiving 500 mg azithromycin for three days, followed by a single roal dose of 10 mg/kg cyclosporine, significant changes in AUC, have not been established.

These data require careful consideration on the appropriateness of co-administration of both products. If co-administration is required, cyclosporine levels should be monitored and the dose adjusted accordingly.

Digoxin: Some macrolide antibiotics have been reported to affect the microbial metabolism of digoxin in the intestines of some patients. The possibility of increased digoxin plasma concentrations in patients receiving concomitant azithromycin and digoxin should be taken into account. Monitoring of digoxin plasma levels should be considered.

France derivatives: Due to an existing theoretical possibility of developing ergotism, azithromych should not be co-administered with ergot derivative-containing products (see section 4.4).

Mesthylpradnisolone: In a pharmacoldnetic interaction clinical study in healthy volunteers.

into account. Monitoring or algovan plasma levels should be considered, azithromych should not be co-administered with ergot derivative-containing products (see section 4.4).

Methylpradnisolone: In a pharmacoldnetic interaction clinical study in healthy volunteers, azithromycin had no significant effect on the pharmacokinetics of methylprednisolone.

Theophylline: Upon co-administration, there was no evidence of untoward pharmacokinetic drug interactions.

Coumant-hybe oral anticoagulants: in a clinical study, azithromycin did not after the anticoagulant effect of a single 15 mg dose of warfarin administrated to healthy volunteers. There have been reports received from the post-marketing studies of potentiated anticoagulants. Although a causal relationship has not been established, consideration anducid be given to the frequency of monitoring profitrombin time, when azithromycin is used in patients receiving coumarin-type oral anticoagulants. Sidevudine: Single 1,000 mg doses and multiple 1,200 mg or 600 mg doses of azithromycin had no effect on the plasma pharmacokinetics or uninary excresion of zidovudine or its glucuronide metabolites. However, administration or azithromycin increased the concentrations of phosphorylated zidovudine (the clinically active metabolite) in peripheral blood mononuclear cells. The clinical significance of this finding is unclear.

Didanceline: Co-administration of 1,200 mg/day azithromycin with didanceline in 6 patients did not appear to affect the pharmacokinetics of didanosine, compared with placebo.

Atorvestatin; Co-administration of a 5-day regimen of azithromycin with celinical patients did not appear to affect the pharmacokinetic interaction and no significant prolongation of the CT-interval.

Etavirane; Co-administration of a 5-day regimen of azithromycin with celinical patients interactions. Co-administration of a 600 mg single dose of azithromycin had no statistically interactions.

dose of efavirenz for 7 days did not result in any clinically significant pharmacokinetic interactions.

Indinavir. Co-administration of a single dose of 1,200 mg azithromycin had no statistically significant effect on the pharmacokinetics of indinavir administered at 800 mg three times daily for 5 days.

Midazolam: Azithromycin, administered at the usual course dose (500 mg once daily for 3 consecutive days) did not result in untoward changes in the pharmacodynamics and pharmacokinetics of midazolam administered at a 15 mg dose.

Sildenafi: Administered at a single daily dose of 500 mg for 3 days, azithromycin did not affect the main pharmacokinetic parameters (AUC and C_{mm}) of sildenafil or its major metabolite.

metabolite.

<u>Triazolam:</u> When co-administered with azithromycin (azithromycin of 500 mg on Day 1, 250 mg on Day 2 and 125 mg triazolam), there was no evidence of untoward drug pharmacokinetic interactions.

<u>Trimotoprim/sulfamethoxazole:</u> When co-administered with azithromycin (trimethoprim/sulfamethoxazole of 180 mg/800 mg, respectively, plus azithromycin of 1,200 mg for 7 days), there was no evidence of untoward drug pharmacokinetic interactions.

interactions.

11. Pregnancy and Lactation

Pregnancy: Studies on reproduction in animals are insufficient with respect to evaluation of effects on pregnancy, embryonal/foetal development, parturition or postnatal development. The potential risk for humans is unknown. There are no data from controlled clinical trials in humans. Azithromycin should not to be used during pregnancy unless

clinical trails in numeric. Azimomycan should not to be used during pregnancy unless clearly needed.

<u>Breast-leading</u>: There are insufficient, limited data on the excretion of azithromycin in human and mammalian milk. The risk to the infant cannot be ruled out. A decision must be made whether to discontinue breast-feeding or to discontinue/abstatin from azithromycin therapy taiding into account the benefit of breast feeding for the child and the benefit of therapy for the mother.

12. Undesirable Effects

The frequency grouping is defined using the following convention: very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1,000 to <1/100); rare (≥ 1/10,000 to <1/1,000); very rare (<1/10,000); and not known (the frequency cannot be estimated from the available data).

avaliable dara).

Blood and lymphatic system disorders.

Uncommon Leukopenia, neutropenia
Not known Thrombocytopenia, haemolytic anaemia

rders Palpitations

Arrhythmia, including ventricular rhythm disorders, prolongation of the QT-Interval, severe rhythm disorders of the torsade de pointes type

Ear and labyrinth disorders
Common Deathess
Uncommon Hearing impaired, tinnitus

Common Deathess
Uncommon Hearing Impaired, tinnitus
Rare Vertigo
Gastro-intestinal discorders
Very common Diarrhoea, abdominal discomfort (pains/spesms), nausea, flatulent
Common Vomiting, dyspepsia
Uncommon Gastritis, constipation
Peneraditis, tongue discolouration
General discorders and administration site conditions
Fatigue
Chest pain, cedema, malaise, asthenia

Chrommon
Chest pain, oedema, malaise, asthenia
Hepatichillary disorders
Uncommon
Not known
Uncommon
Not known
Uncommon
Not known
Uncommon
Not known
Not known
Uncommon
Not known

Nervous syste Common

Arunaigia, notisorders
Headache, dizziness, paraesthesia, dysgeusia
Hypoaesthesia, somnolence, insomnia
Syncope, convulsions, psychomotor hyperactivity, anosmia, ageusia, parosmia, myasthenia gravis Uncommon Not known

Eve disorders
Common Vision impaire
Psychlatric disorders
Uncommon Nervousness Vision impaired Agitation Rare Not known Aggression, anxiety

y disorde i and unnar Not known erstitial nephritis, acute renal failure

Skin and subcutaneous tissue disorders
Common Pruritus, rash

Stevens-Johnson syndrome, photosensitivity, urticaria Toxic epidermal necrolysis, erythema multiforme Not known Toxic epidermal ne Metabolism and nutrition disorders Common Anorexla

Vascular disorders
Not known Hypotension

Investigations Common

Lymphocyte count decreased, eosinophil count increased, blood bicarbonate decreased ASAT increased, ALAT increased, blood bilirubin increased, blood urea increased, blood creatinine lecreased blood by the property in super

ASA increased, ALA increased, blood urea increased, blood urea increased, blood blood potassium abnormal Not known Prolonged QT-interval 13. Overdose and Treatment

13. Overdose and Treatment
Adverse events experienced in higher than recommended doses were similar to
those seen at normal therapeutic doses. The typical symptoms of an overdose with
macrolide antibiotics include loss of hearing, severe vomiting, nausea and
darrhoea. In the event of overdose, the administration of medicinal charcoal and
general symptomatic treatment is required. Additional supportive measures should
be considered with regard to vital functions.

14. Dosage Forms and packaging available
3 (three) hard gelatin capsules in a blister.
1 (one) blister with a package insert per carton.
15. Name and Address of Manufacturer/Marketing Authorisation Holder
Manufacturer:

BALKANPHARMA-RAZGRADAD

88, Aprikko Vastanie Bivd. 7200 Razgrad, Bulgarla Marketing Authorisation Holder: SPEY MEDICAL LTD.

SPET MEDICALE III.
Lynton House 7-12, Tavistock Square,
London, England, WC1H 9LT, United Kingdom
16. Date of Revision of Package Insert

