

Trimethoprim Sulfamethoxazole Interactions

== By coverage == bed9e8c60d

Disulfiram-like drug These effects are caused by accumulation of acetaldehyde, a major but toxic metabolite of alcohol formed by the enzyme alcohol dehydrogenase. Cotrimoxazole (trimethoprim/sulfamethoxazole) Nitrofurantoin Aldehyde dehydrogenase inhibitors may produce A disulfiram-like drug is a drug that causes an adverse reaction to alcohol leading to nausea, vomiting, flushing, dizziness, throbbing headache, chest and abdominal discomfort, and general hangover-like symptoms among others. The reaction has been variously termed a disulfiram-like reaction, alcohol intolerance, and acetaldehyde syndrome. evidence Metronidazole Tinidazole and secnidazole bed9e8c60d

Atovaquone is a hydroxy-1,4-naphthoquinone, an analog of both ubiquinone and lawsone. bed9e8c60d Folinic acid was first made in 1945. In 2025, the United States Food and Drug Administration approved leucovorin calcium tablets for cerebral folate deficiency, bypassing standard review and drawing expert criticism. It is on the World Health Organization's List of Essential Medicines. bed9e8c60d Unlike acetaldehyde dehydrogenase inhibitors and other disulfiram-like drugs, alcohol dehydrogenase inhibitors such as fomepizole (brand... bed9e8c60d == Medical uses == bed9e8c60d

List of side effects of trimethoprim/sulfamethoxazole The following list contains adverse effects by incidence of trimethoprim/sulfamethoxazole. Fever Nausea Vomiting Diarrhea Weight loss Rash Muscle aches The following list contains adverse effects by incidence of trimethoprim/sulfamethoxazole bed9e8c60d

Side effects may include trouble sleeping, allergic reactions, or fever. Use in pregnancy or breastfeeding is generally regarded as safe. When used for anemia it is recommended that pernicious anemia as a cause be ruled out first. Folinic acid is a form of folic acid that does not require activation by dihydrofolate reductase to be useful to the body. bed9e8c60d

Folinic acid It is taken by mouth, injection into a muscle, or injection into a vein. It is also used in combination with 5-fluorouracil to treat colorectal cancer and pancreatic cancer, and may be used to treat folate deficiency, anemia, and methanol poisoning. Better known as 5-formyltetrahydrofolate in biochemistry, it is a natural form of folate, albeit with no clear function. [citation needed] Sulfamethoxazole-trimethoprim: A potential drug interaction exists with concomitant use of sulfamethoxazole-trimethoprim and folinic acid Folinic acid, also known as leucovorin, is a medication used to decrease the toxic effects of methotrexate and pyrimethamine bed9e8c60d

== Function == bed9e8c60d Common side effects of the injectable form include low

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blood sugar, pain at the site of injection, nausea, vomiting, low blood pressure, and kidney problems. Common side effects of the inhaled form include wheezing, cough, and nausea. It is unclear if doses should be changed in those with kidney or liver problems. Pentamidine is not recommended in early pregnancy but may be used in later pregnancy. Its safety during breastfeeding is unclear. Pentamidine is in the aromatic diamidine family of medications. While the way the medication works is not entirely clear, it is believed to involve decreasing the production of DNA, RNA, and protein. bed9e8c60d Atovaquone is a medication used to treat and/or prevent: bed9e8c60d Atovaquone is an analogue of ubiquinone (coenzyme Q10) and exerts its pharmaceutical effects by binding to the ubiquinone binding site on the parasitic mitochondrial cytochrome bc1 complex, thus inhibiting a step of protozoal pyrimidine synthesis. bed9e8c60d

Pentamidine pregnant women. There is no information regarding the excretion Pentamidine is an antimicrobial medication used to treat African trypanosomiasis, leishmaniasis, Balamuthia infections, babesiosis, and to prevent and treat pneumocystis pneumonia (PCP) in people with poor immune function. In African trypanosomiasis it is used for early disease before central nervous system involvement, as a second line option to suramin. Pentamidine can be given by injection into a vein or muscle or by inhalation. It is an option for both visceral leishmaniasis and cutaneous leishmaniasis. It is only recommended if the drug of choice trimethoprim-sulfamethoxazole is contraindicated bed9e8c60d

Pentamidine came into medical use in 1937... bed9e8c60d Trimethoprim/sulfamethoxazole is on the World Health Organization's List of Essential Medicines. It is available as a generic medication. In 2023, it was the 128th most commonly prescribed medication in the United States, with more than 4 million prescriptions. bed9e8c60d

Trimethoprim/sulfamethoxazole It is used both to treat and prevent Pneumocystis pneumonia and toxoplasmosis in people with HIV/AIDS and other causes of immunosuppression. It consists of one part trimethoprim to five parts sulfamethoxazole. It can be given orally (swallowed by mouth) or intravenous infusion (slowly injected into a vein with an IV). It is used to treat urinary tract infections, methicillin-resistant Staphylococcus aureus (MRSA) skin infections, travelers' diarrhea, respiratory tract infections, and cholera, among others. Trimethoprim/sulfamethoxazole, sold under the trade names Bactrim, Cotrim (a short form of the British Approved Name, Co-trimoxazole) and Septra, among Trimethoprim/sulfamethoxazole, sold under the trade names Bactrim, Cotrim (a short form of the British Approved Name, Co-trimoxazole) and Septra, among others, is a fixed-dose combination antibiotic medication used to treat a variety of bacterial infections bed9e8c60d

== Medical uses == bed9e8c60d

List of causes of hypoglycemia Starvation (acute) Sulfamethoxazole Systemic monochloroacetate poisoning Temafloxacin Timme syndrome Tolazamide Tolbutamide Trimethoprim Triple A syndrome bed9e8c60d

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== Medical uses == bed9e8c60d Trimethoprim/sulfamethoxazole generally kills bacteria, by blocking the microorganisms' ability to make and to use folate. bed9e8c60d

List of antibiotics aureus (MRSA): Vancomycin Teicoplanin Linezolid Daptomycin Trimethoprim/sulfamethoxazole Doxycycline Ceftobiprole (5th generation) Ceftaroline (5th generation) The following is a list of antibiotics. The highest division between antibiotics is bactericidal and bacteriostatic. Bactericidals kill bacteria directly, whereas bacteriostatics prevent them from dividing. The development of antibiotics has had a profound effect on the health of people for many years. However, these classifications are based on laboratory behavior. In practice, both treat bacterial infections. Also, both people and animals have used antibiotics to treat infections and diseases bed9e8c60d

The prototypical drug of this group is disulfiram (brand name Antabuse), which acts as an acetaldehyde dehydrogenase inhibitor, preventing the metabolism of acetaldehyde into acetic acid, and is used in the treatment of alcoholism. A variety of other drugs cause disulfiram-like reactions upon consumption of alcohol as unintended drug interactions and side effects. Many disulfiram-like drugs act as inhibitors of acetaldehyde dehydrogenase similarly to disulfiram. However, some do not act via inhibition of this enzyme, and instead act via other, poorly elucidated mechanisms. bed9e8c60d == Common (>1% frequency) == bed9e8c60d There are two structural classes of DHFR, evolutionarily unrelated to each other. The former is usually just called DHFR and is found in bacterial chromosomes and animals. In bacteria, however, antibiotic pressure has caused this class to evolve different patterns of binding diaminoheterocyclic molecules, leading to many "types" named under this class, while mammalian ones remain highly similar. The latter (type II), represented by the plastid-encoded R67, is a tiny enzyme that works by forming a homotetramer. bed9e8c60d

Antifolate Folic acid's primary function in the body is as a cofactor to various methyltransferases involved in serine, methionine, thymidine and purine biosynthesis. Retrieved 12 January 2014. Consequently, antifolates inhibit cell division, DNA/RNA synthesis and repair and protein synthesis. "Primsol, Proloprim (trimethoprim) dosing, indications Antifolates are a class of antimetabolite medications that antagonise (that is, block) the actions of folic acid (vitamin B9). Medscape Reference. The majority of antifolates work by inhibiting dihydrofolate reductase (DHFR), i. WebMD. are dihydrofolate reductase inhibitors. indications, interactions, adverse effects, and more". e. Some such as proguanil, pyrimethamine and trimethoprim selectively inhibit folate's actions in microbial organisms such as bacteria, protozoa and fungi bed9e8c60d

Atovaquone babesiosis, it is often used in conjunction with oral azithromycin. Trimethoprim/sulfamethoxazole (TMP-SMX, Bactrim) is generally considered first-line therapy Atovaquone, sold under the brand name Mepron, is a naphthoquinone antiprotozoal medication used in the prevention and treatment Pneumocystis jirovecii pneumonia (PCP), and malaria (in combination with proguanil), as well as for treatment of babesiosis (in combination with azithromycin) bed9e8c60d

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Dihydrofolate reductase It is found in the q14. 1 region of chromosome 5. decrease in the uptake of the drugs, among others. Regardless, trimethoprim and sulfamethoxazole in combination has been used as an antibacterial agent for Dihydrofolate reductase, or DHFR, is an enzyme that reduces dihydrofolic acid to tetrahydrofolic acid, using NADPH as an electron donor, which can be converted to the kinds of tetrahydrofolate cofactors used in one-carbon transfer chemistry. In humans, the DHFR enzyme is encoded by the DHFR gene bed9e8c60d

The following are lists of antibiotics for specific microbial coverage (not an exhaustive list): bed9e8c60d == Comparison of available agents == bed9e8c60d

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