

Hypersensitivity Mechanisms An Overview

Wheat allergy Severe allergic reactions (anaphylaxis) may require treatment with an epinephrine pen, which is an injection device Wheat allergy is an allergy to wheat that typically presents as a food allergy, but can also be a contact allergy resulting from occupational exposure. 21% in a 2012 study in Japan. The exact mechanism of this allergy is not yet clear. phase Type I hypersensitivity reaction. Wheat allergy is rare—its prevalence in adults was estimated to be 0. Wheat allergy may be immunoglobulin E-mediated or not, and may involve a mast cell response

Dapsone Additionally, it has been used for acne, dermatitis herpetiformis, and various other skin conditions. Dapsone is available both topically and by mouth. Common side effects include nausea and loss of appetite. It is a second-line medication for the treatment and prevention of pneumocystis pneumonia and for the prevention of toxoplasmosis in those who have poor immune function. those with glucose-6-phosphate dehydrogenase deficiency (G-6-PD), or hypersensitivity. Other side Dapsone, also known as 4,4'-sulfonyldianiline (SDA) or diaminodiphenyl sulfone (DDS), is an antibiotic commonly used in combination with rifampicin and clofazimine for the treatment of leprosy

Severe side effects may include a decrease in blood cells, red blood cell breakdown especially in those with glucose-6-phosphate dehydrogenase deficiency (G-6-PD), or hypersensitivity. Common side effects include nausea and loss of appetite. Other side effects include liver inflammation... Common allergens include pollen and certain foods. Metals and other substances may also cause such problems. Food, insect stings, and medications are common causes of...

Fleroxacin Fleroxacin is contraindicated in patients with a history of hypersensitivity to the substance or any other member of the quinolone class, or any Fleroxacin is a fluoroquinolone antibiotic. disorders. It is sold under the brand names Quinodis and Megalocin

Wheat allergy may be a misnomer. There are many allergenic components in wheat (for example: serine protease inhibitors, glutelins and prolamins), with different responses attributed to different components. Twenty-seven potential wheat allergens have been identified.

Shellfish allergy Biologically, not all of these groups are closely related to each other, and allergies to different groups of shellfish may have different mechanisms of action. Symptoms can be either rapid or gradual in onset. Shellfish allergy is an immune hypersensitivity to proteins found in shellfish. Shellfish allergy is an immune hypersensitivity to proteins found in shellfish. The latter can take hours to days to appear. "Shellfish" is a colloquial and fisheries term for aquatic invertebrates used as food, including various species of molluscs such as clams, mussels, oysters and scallops, crustaceans such as shrimp, lobsters and crabs, and cephalopods such as squid and octopus. Symptoms Shellfish allergy is among the most common food allergies. The former may include anaphylaxis, a potentially life-threatening condition which requires treatment with epinephrine. Other presentations may. groups of shellfish may have different mechanisms of action fee0e9e210

Tobramycin It is especially effective against species of *Pseudomonas*. The Infusion is also contraindicated Tobramycin is an aminoglycoside antibiotic derived from *Streptomyces tenebrarius* that is used to treat various types of bacterial infections, particularly Gram-negative infections. [medical citation needed] Tobramycin is contraindicated in people with hypersensitivity against aminoglycoside antibiotics fee0e9e210

Immune system Many species have two major subsystems of the immune system. The adaptive immune system provides a tailored response to each stimulus by learning to recognize molecules it has previously encountered. Both use molecules and cells to perform their functions. The innate immune system provides a preconfigured response to broad groups of situations and stimuli. trigger Type III hypersensitivity reactions. Type IV hypersensitivity (also known as cell-mediated or delayed type hypersensitivity) usually takes between The immune system is a network of biological systems that protects an organism from diseases. It detects and responds to a wide variety of pathogens, from viruses to bacteria, as well as cancer cells, parasitic worms, and also objects such as wood splinters, distinguishing them from the organism's own healthy tissue fee0e9e210

Buccal administration Buccal administration may provide better bioavailability of some drugs and a more rapid onset of action compared to oral administration because the medication does not pass through the digestive system and thereby avoids first pass metabolism. Prochlorperazine maleate is contraindicated in certain patient groups, including hypersensitivity to prochlorperazine maleate, certain diseases like glaucoma, epilepsy Buccal administration is a topical route of administration by which drugs held or applied in the buccal () area (in the cheek) diffuse through the oral mucosa (tissues which line the mouth) and enter directly into the bloodstream. Drug forms for buccal administration include tablets and thin films fee0e9e210

It was patented in 1965, and approved for medical use in 1974. It is on the World Health Organization's List of Essential Medicines. In 2023, it was the 298th most commonly prescribed medication in the United States, with more than 400,000 prescriptions.

Allergy In type IV hypersensitivity, there is activation of certain types of T cells. An allergy is a specific type of exaggerated immune response where the body mistakenly identifies a ordinarily harmless substance (allergens, like pollen, pet dander, or certain foods) as a threat and launches a defense against it. reaction that more correctly corresponds to a type IV hypersensitivity reaction.

As of May 2014, the psychiatric drug asenapine; the opioid drugs buprenorphine, naloxone, and fentanyl; the cardiovascular drug nitroglycerin; the nausea medication prochlorperazine; the hormone replacement therapy testosterone; and nicotine as a smoking cessation... The allergy, or allergies, are often caused by reactions to the storage proteins present in a wheat seed. While many reactions are caused...

Hydrodynamic theory (dentistry) Epidemiological surveys have shown that dentine hypersensitivity arises when the dentinal In dentistry, the hydrodynamic or fluid movement theory is one of three main theories developed to explain dentine hypersensitivity, which is a sharp, transient pain arising from stimuli exposure. In response to this movement, mechanoreceptors on the pulp nerves trigger the acute, temporary pain of dentine hypersensitivity. It states that different types of stimuli act on exposed dentine, causing increased fluid flow through the dentinal tubules. theory of hydrodynamic mechanism causing dentine hypersensitivity.

Nearly all organisms have some kind of immune system. Bacteria have a rudimentary immune system in the form of enzymes that... Allergic diseases are the conditions that arise as a result of allergic reactions, such as hay fever, allergic conjunctivitis, allergic asthma, atopic dermatitis, food allergies, and anaphylaxis. Symptoms of the above diseases may include red eyes, an itchy rash, sneezing, coughing, a runny nose, shortness of breath, or swelling. Note that food intolerances and food poisoning are separate conditions. The fluid flow mechanism behind hydrodynamic theory was first introduced by Alfred Gysi in 1900, and subsequently developed by Martin Brännström in the 1960s through a series of experimental studies.

Subacute bacterial endocarditis Among the signs of subacute bacterial endocarditis are: Malaise Weakness Subacute bacterial endocarditis, abbreviated SBE, is a type of endocarditis (more specifically, infective endocarditis). Subacute bacterial endocarditis can be considered a form of type III hypersensitivity. Subacute bacterial endocarditis can be

considered a form of type III hypersensitivity fee0e9e210

Further supporting evidence has since been collected from epidemiological surveys and experimental data comparing dentinal tubule numbers in hypersensitive... fee0e9e210

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