

Interactions of Drug and Food and Its Effect on Humans

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ABSTRACT

A drug interaction could be a state of affairs during which a substance affects the activity of a drug, i.e. the consequences area unit redoubled or attenuate, or they turn out a brand new result that neither produces on its own. A drug-food interaction happens once your food and drugs interfere with each other. The study of drug-drug, food-drug, and herb-drug interactions and of genetic factors poignant pharmacological medicine and pharmacodynamics is predicted to enhance drug safety and can change personalized drug medical care. Interactions depend upon the precise drug and will increase, delay, or cut back a selected pharmacological result. The clinical connectedness of nutrient-drug interactions isn't entirely understood. Once a food is delivered to the abdomen, the abdomen empties a number of its contents among minutes. Once a food affects medications within the body, this can be referred to as food-drug interaction.

Keywords: Interaction; Pharmacodynamics; Antibiotics; Medicine; Nutrient; Absorption

DESCRIPTION

There unit a range of food and drug interactions which will occur, however here could be a tiny list of common medicine food affects the way they are utilized in the body. Food supplements and flavouring area unit more widespread amongst shoppers.

This results interaction between prescription drugs and these contains bioactive ingredients. Food will increase or decrease the absorption of a drug. Fascinating but the meant dose might decrease the result of the drug.

This is quite fascinating as the meant dose will increase the possibility for associate drug result. Food will stop medication from operating the means it ought to and might cause meditative facet effects to become higher or worse and/or cause new facet effects to occur.

Medicine can amend the means the body uses food [1]. The connection between current levels of antibiotics and their therapeutic efficaciousness is especially well studied relative to different categories of medicine agents.

An outline of those suspected interactions is bestowed and their potential mechanisms of action area unit delineate. Principally throughout the metabolism of xenobiotics and because of the pharmacodynamics effects interactions appear to occur adverse drug reactions [2]. Aged and soured foods contain a chemical referred to as amino acid that interacts with a medicine, enzyme matter.

This happens once food or drink intake alters a drug's result; some statins (used to treat high cholesterol) will act with fruit juice. If an individual drinks loads of fruit juice, an excessive amount of the drug might keep in their body, increasing their risk for liver harm or renal failure. Major side-effects of some diet (food) on medicine embody alteration in absorption by fatty, high macromolecule and fiber diets [3].

The clinical connectedness of a food-drug interaction the impact of food intake on the clinical result of the drug should be quantified additionally. Some foods might have an effect on the means during which the body handles medicines and thus have the potential to either increase or decrease a drug's therapeutic or adverse effects. Among all fruit juices, grape fruit crush (GFJ) possesses high interaction with the majority forms of medicine.

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The juice modifies the body's means of metabolizing the medication, poignant the liver's ability to figure the drug through a person's system. [4]. Coumadin is often accustomed treat or stop thromboembolic events. Though older enzyme inhibitors (MAOIs) area unit effective within the treatment of depressive disorders, they're under-utilized in clinical apply because of main issues concerning interaction with tyramine-containing food (matured cheese, red wine, ripped bananas, yogurt, shrimp paste and salami) close to referred to as cheese reaction, since they're capable of manufacturing hypertensive crisis in patients taking MAOIs. The peak of this peak depends on the speed of transit (the time taken for the food to tolerate the body). During the adaptive part varied hormones square measure free (eg:cholecystokinin), that result in retention of fabric within the abdomen. The metabolism of medication will occur by basic processes, that square measure known as clinical trial. It is recognized that internal organ perform exerts a serious result on each the speed and also the degree of drug absorption. Physiological interactions between medicine and nutrients involve those factors by that a drug affects processes associated with uptake, sensory appreciation of food, swallowing, digestion, internal organ remotion, nutrient absorption, nutrient metabolism, or nephritic excretion of nutrients. Bound foods will decrease, delay, or increase the absorption of medication, therefore sterilization their bioavailability, their solubility in internal organ fluid, and their internal organ remoting time. Though we tend to focused on the adverse reactions caused by these interactions, it's notable that combining this merchandise may result in positive effects yet. Taking a medication at constant time you eat will cause your body to not absorb the drugs or bound foods might delay or decrease the absorption of the drug. This is often why some

medicines ought to be taken on associate empty abdomen. Interactions will happen with each prescription and over-the-counter medicines. These embody antacids, vitamins, and iron pills. With the reported suspected interactions between bioactive parts and prescription drugs we tend to tried to stipulate that the mixture of that merchandise may result in serious adverse reactions [5].

CONCLUSION

The growing interest of customers in victimization health enhancing merchandise as food supplements and seasoning preparations offers rise to enhanced risks of interactions between these bioactive and prescription drugs. This interaction is additive, synergistic, or antagonistic effects of a drug. This interaction may end up in hazardously high pressure level. Drug interactions will alter the pharmacological medicine and/or pharmacodynamics of a drug.

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