Interactions of non-nutrients with nutrients.

Abstract: An extensive literature review discusses the effect of nutrient intakes on the action of non-nutrients, and vice-versa. The topics are arranged in 28 nutrient sections which can contain up to 17 non-nutrient groups. Included are a synopsis of the actual status of research; generalizations; and directions for future research. Humans must incorporate nutrients for optimal health; but non-nutrient substances are being ingested, either voluntarily (smoking), intentionally (drugs), or unconsciously (air, water, and food). The quantitative relationship between non-nutrients and health are seldom known; this review attempts to draw conclusions regarding their influence on nutritional status. Special attention is paid to: changed action or toxicity of non-nutrients in altered nutritional situations (malnutrition), side effects of intake of non-nutrients on nutrient metabolism (nutritional requirements); and nutrient influences on the activities of non-nutrient-metabolizing enzymes (especially hepatic microsomal enzymes). An extensive bibliography of 896 references is included. (kbc)

Journal Title: World review of nutrition and dietetics.
Journal Volume/Issue: 1977. v. 26
Main Author: Oltersdorf, U.
Other Authors: Miltenberger, R., Cremer, H.-D.
Format: Article
Language: English
Subjects: nutrients
food additives
chemical substances
food contamination

For More Info: View in NAL’s Catalog.
http://openagricola.nal.usda.gov/Record/FNI83002447


Interactions of non-nutrients with nutrients.

Oltersdorf U, Miltenberger R, Cremer HD.

PMID: 324145

[PubMed - indexed for MEDLINE]
Publication Types, MeSH Terms, Substances

Publication Types

- Review

MeSH Terms

- Animals
- Antitoxins
- Carcinogens
- Contraceptives, Oral
- Diet*
- Dietary Carbohydrates
- Dietary Fats
- Dietary Proteins
- Energy Intake
- Food Additives
- Food Preservatives
- Humans
- Microsomes, Liver/enzymology
- Minerals*/metabolism
- Pesticides
- Pharmaceutical Preparations*/metabolism
- Pharmacology
- Sweetening Agents
- Trace Elements
- Vitamins*/metabolism

Substances

- Antitoxins
- Carcinogens
- Contraceptives, Oral
- Dietary Carbohydrates
- Dietary Fats
- Dietary Proteins
- Food Additives
- Food Preservatives
- Minerals
- Pesticides
- Pharmaceutical Preparations
- Sweetening Agents
- Trace Elements
- Vitamins