dietaryreferenceintakesessentialguidenutrientrequirements-

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- Medical papers
- Dietary Reference Intakes: The Essential Guide to Nutrient Requirements

Chapter 1: Introduction and Overview

- Dietary Reference Intakes (DRIs) are guidelines for daily nutrient intake.
- DRIs include Recommended Dietary Allowances (RDAs), Adequate Intakes (Als), and Tolerable Upper Intake Levels (ULs).
- DRIs apply to healthy individuals, not those with specific medical conditions or life stage groups.
- DRIs are based on scientific research and expert judgment.

Chapter 2: Macronutrients

- Macronutrients are carbohydrates, proteins, and fats.
- Carbohydrates provide energy and should make up 45-65% of daily caloric intake.
- Protein is essential for growth, maintenance, and repair of body tissues.
- Fats are necessary for energy storage, absorption of fat-soluble vitamins, and hormone production.

Chapter 3: Vitamins

- · Vitamins are essential micronutrients required in small amounts.
- There are two categories: fat-soluble (A, D, E, K) and water-soluble (B1, B2, B3, B5, B6, B9, B12, C).
- RDAs vary depending on age, sex, and life stage.
- Deficiencies can lead to health problems; excesses can also be harmful.

Chapter 4: Minerals

- Minerals are inorganic elements required for various functions in the body.
- There are two categories: macrominerals (calcium, phosphorus, magnesium, sodium, chloride, potassium) and trace minerals (iron, zinc, manganese, copper, iodine, fluoride, chromium, molybdenum, selenium).
- RDAs vary depending on age, sex, and life stage.
- Deficiencies can lead to health problems; excesses can also be harmful.

Chapter 5: Alcohol

- Alcohol is a macronutrient that provides energy but has no essential functions in the body.
- Moderate alcohol consumption (1-2 drinks per day) may have some health benefits, but excessive intake is associated with numerous health risks.
- DRIs for alcohol are not established due to its lack of nutritional value and potential harm.

Chapter 6: Physical Activity and Energy Balance

- Physical activity affects energy balance and nutrient requirements.
- Regular physical activity can improve overall health, but excessive exercise may lead to nutrient deficiencies or imbalances.
- Energy intake should match energy expenditure for a healthy energy balance.

Chapter 7: Life Stages and Special Populations

- Nutrient needs vary depending on life stage (infant, child, adolescent, adult, older adult) and special populations (pregnant or lactating women, athletes, etc.).
- DRIs are adjusted to account for these differences in nutrient requirements.

Chapter 8: Dietary Supplements

Dietary supplements can help fill gaps in nutrient intake but should not replace a balanced diet.

- Supplements may be beneficial for specific populations or life stages, but excessive use can lead to health risks.
- Regulations and guidelines exist for the production and use of dietary supplements.