## Part 2

## • Nutritional adequacy and the body

There is no simple explanation for the relationship between diet and health. However, differences in *genetic predisposition* to disease can be influenced by diet, but not eliminated

## • Characteristics of nutritional adequacy

- 1. Definition of nutritional adequacy
  - A state of good health, vitality, and a sense of well-being
  - A healthy body can do all of the following:
    - a. Grow
    - b. Repair damage
    - c. Maintain structure and functions
    - d. Reproduce (at a specific time in the life cycle)
    - e. Do useful work
- 2. The four states of nutritional health
  - Overnutrition: dietary excesses of nutrients and calories biggest problem in the US today
  - Desirable status: sufficient amount of nutrients and calories
  - Undernutrition: nutrients and calorie stores diplated
  - State of body deficiency: reduced biogencal function and clinical symptoms
- 3. Dietary Reference Intek a
  - a. Definition:

Difference Intalt are reference values that are quantitative estimates of numerous kes to be used for planning and assessing diets for healthy people. They include RDA values and three other types of reference values, EAR, AI, and UL

- b. The Four Dietary Reference Intake (DRI) values are:
  - Estimated Average Requirement (EAR)
  - Recommended Dietary Allowances (RDAs = EAR + 2SD)
  - Adequate Intake (AI) Levels
  - Tolerable Upper Intake Level (UL)

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MALE:

EER = 662 - (9.53 \* age [y]) + (PA \*( (15.91 \* wt [kg]) + (539.6 \* ht [m]))) FEMALE

EER = 354 - (6.91 \* age [y]) + (PA \* ((9.36 \* wt [kg]) + (726 \* ht [m])))