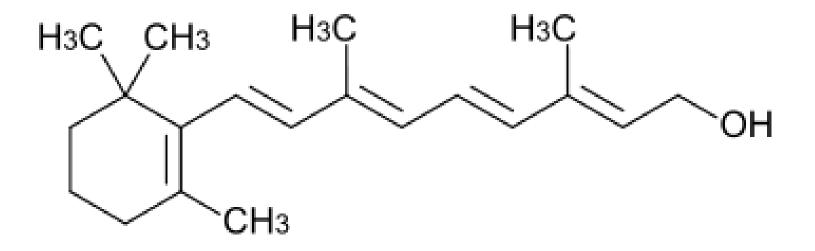
Vitamins

- Complex organic (carbon based) molecules (or "biomolecules") that we need to eat in small amounts (~0.2 grams per day)
- □ Lack of a vitamin causes health problems

Example: Vitamin A (retinol)



Vitamins (cont.)

- Two types:
- □ Water soluble (B vitamins, vitamin C)
 - Should eat these every day
- □ Fat Soluble (A, D, E, K)
 - Stored in fat
 - Don't eat megadoses of these it can poison you

Minerals

- □ Elements your body needs in small amounts
- \square 2 types:
 - Macrominerals (need 5 g or more in body)
 Na, K, Ca, Mg, S, Cl, P
 - Trace minerals (need under 5 g in body)
 Fe, Zn, Cu, I, Ni, Se, Mo, Mn, F, Co, and others

RDA: Definition & Two Equations

Recommended Dietary Allowance; recommended amount in diet each day

 $\frac{\text{RDA}}{\text{Amount in 1 serving}} = \# \text{ of servings needed}$

<u>Amount in 1 serving</u> = % of RDA in one serving RDA

Example RDA Question 1:

- What percent of your vitamin C RDA does one apple provide?
 - Apple has 5.7 mg of vitamin C
 - RDA for vitamin C is 60 mg

Answer:

5.7 mg / 60 mg = 9.5% of RDA for Vit C

Example RDA Question 2:

- □ How many apples does it take to get 100% of your RDA for vitamin C? (~10.5)
 - Apple has 5.7 mg of vitamin C
 - RDA for vitamin C is 60 mg

Answer:

60 mg / 5.7 mg = 10.5 apples