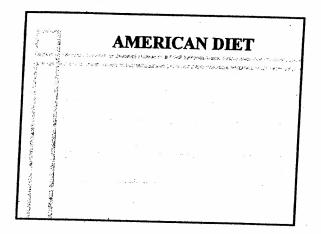
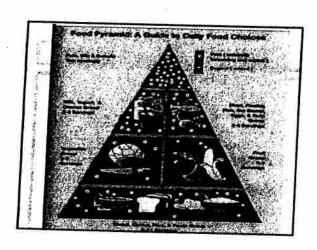


THE NUTRIENTS

- WATER...A CRUCIAL ELEMENT
- PROTEINS... BODILY FUNCTIONS
- CARBOHYDRATES...ENERGY
- FATS... INSULATION, ENERGY
- VITAMINS...ORGANIC
- MINERALS...INORGANIC







PROTEINS DEVELOP & REPAIR DENTE DE BONE, MUSCLE, SKIN AND BLOOD CELLS ELEMENTS OF ANTIBODIES DENTE ENCYME & HORMONE FUNCTION TRANSPORT IRON, OXYGEN, & NUTRIENTS NOT A GOOD SOURCE OF ENERGY - 4 CALORIES PER GRAM

PROTEIN COMPOSITION

- AMINO ACIDS
 - BUILDING BLOCKS OF PROTEIN
 - 20 COMMON AMINO ACIDS

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- » 9 OF THESE ARE ESSENTIAL
- » 11 OF THESE CAN BE PRODUCED IN BODY
- "COMPLETE" PROTEIN: 9 AMINO ACIDS
- "INCOMPLETE": NOT ALL 9 AMINO ACIDS

PROTEIN CONSUMPTION

- RECOMMENDED
 - 46 OUNCES
 - 40-60 GRAMS
- 12 % OF DIET MORE FROM PLANT FOODS
 - LEGUMES, NUTS, GRAINS
- 4 CALORIES PER GRAM .
- AVERAGE
 - 9 OUNCES
 - 90+ GRAMS
 - 15-20% OF DIET
- 70% FROM ANIMAL PRODUCTS
 - MEAT, POUTRY, CHEESE, EGGS
- EXCESS STORED AS

CARBOHYDRATES

- PROVIDES ENERGY
 - 4 CALORIES PER GRAM
- ELIMINATION
- FAT METABOLISM
- PROTEIN FUNCTION



SIMPLE CARBOHYDRATES

- MONOSACCHARIDES "SIMPLE SUGARS"
 - GLUCOSE, FRUCTOSE
- DISSACHARIDES "DOUBLE SUGARS"
 - SUCROSE, LACTOSE, MALTOSE
- POLYSACCHARIDES
 - STARCHES, DEXTRINS, GLYCOGEN, CELLULOSE, FIBER

FIBER



- MOVES FOODS THROUGH SYSTEM
 - * SOFTENS STOOLS BY ABSORBING WATER
- - Bran, whole-grain breads, fruits & vegetables
 - MAY REDUCE CANCER
- n SOLUBLE
- II OAT BRAN, DRIED BEANS, FRUITS AND VEGETABLES
- O LOWERS BLOOD CHOLESTEROL
- NEED 25 GRAMS (MOST GET LESS THAN 10)

FATS....(LIPIDS)

- ENERGY 9 CALORIES PER GRAM
- PROTECTION & INSULATION
- PROVIDES ESSENTIAL FATTY ACIDS
- CARRIES FAT-SOLUBLE VITAMINS (A,D,E,K)
- TYPES OF FAT
 - SATURATED
 - UNSATURATED
 - HYDROGENATED
 - CHOLESTEROL



TYPES OF FAT

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- SATURATED FAT
 - [] SOLID AT ROOM TEMPERATURE
 - ANIMAL SOURCES, COCCONUT & PALM OILS
- UNSATURATED FATS UNSATURATED
 - II PLANT SOURCES
 - I LIQUID AT ROOM TEMERATURE
 - D MONOUNSATURATED: OLIVE & CANOLA OIL
- D POLYUNSATURATED: FISH, CORN, SOYBEAN
- TRANS FATTY ACIDS
 - [] PLANT OILS HYDROGENATED
 - O SOLID AT ROOM TEMPERATURE

CHOLESTEROL

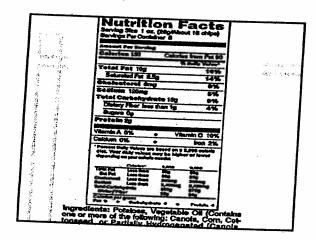
- DIETARY CHOLESTEROL IS IN FOOD
- BODY PRODUCES SERUM CHOLESTEROL
 - » DIGESTION, FAT ABSORPTION, HORMONES, MEMBRANCE & OTHER
- GENETICS
- SATURATED & TRANS FATTY ACIDS INTAKE
- YOUR CHOLESTEROL READING?
 - » HIGH DENSITY LIPOPROTEIN HDL
 - » LOW DENSITY LIPOPROTEIN LDL

VITAMINS AND MINERALS

- VITAMINS: ORGANIC SUBSTANCES
- PLANTS AND ANDMALS
- PROMOTE CHEMICAL REACTIONS WITHIN CELLS
- RELEASE ENERGY, GROWTH, REGULATE FUNCTIONS
- 4 FAT SOLUBLE: ADEK STORED IN LIVER
- 9 WATER SOLUBLE: B COAIPLEX & C
- MINERALS: INORGANIC SUBSTANCES
 - MACROMINERALS: 7 CALCIUM, ETC.
 - » FLUID BALANCE IN CELLS, GROWTH, BONE,
 - MICROMINERALS: 14 MINERALS- IRON, ZINC,
 - » HELP THE BODY HANDLE OXYGEN

WATER

- 50% TO 60% OF TOTAL BODY WEIGHT
- FUNCTIONS
 - BATHES, LUBRICANTS & CUSHIONS CELLS
- FLUID, pH, & ELECTROLYTE BALANCE
- TRANSPORTS FLUID & OTHER SUBSTANCES
- MAINTAIN BODY TEMPERATURES
- DEHYDRATION
 - Thirst is first sign
 - » FATIGUE, WEAKNESS, ILLNESS, DEATH
 - THIRST NOT ADEQUATE DURING EXERCISE
- DIRURTICS LIKE CAFFEINE & ALCOHOL



HOW TO FIGURE FAT INTAKE FROM A FOOD LABEL

FAT CALORIES / TOTAL CALORIES
GRAMS OF FAT 19 = FAT
CALORIES

EXAMPLE:

1 TBSP OF PEANUT BUTTER 8 GRAMS OF FAT AND 95 CALORIES

\$ X 9 = 72 2. DIV. BY 95 = 76% CAL'S FROM FAT

26-36% OF YOUR CALORIES FROM FAT

RECOMMENDED DAILY REQUIREMENTS - RDA

- DAILY NUTRIENTS
- FLEXIBLE GUIDELINES
- 17 POPULATION GROUPS
- VARY AS TO AGE, GENDER, HEALTH,
- AVERAGE NUTRITION
- SAFETY MARGIN OF 1/3
- FOOD LABEL-TYPICAL MALE

FOOD AND DRUG ADMINISTRATION
NAT'L RESEARCH COUNCIL & NAT'L ACADEMY OF
SCIENCES

DIETARY GUIDELINES FOR AMERICANS

- EAT VARIETY OF FOODS
- HEALTHY WEIGHT
- CHOOSE LOW FAT & CHOLESTEROL
- CHOOSE PLENTY OF FRUITS, VEGETABLES & GRAINS
- USE SUGARS IN MODERATION
- USE SALT AND SODIUM IN MODERATION



