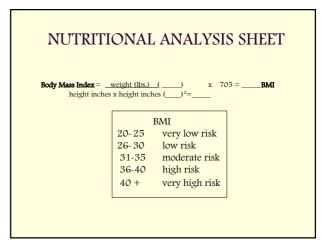
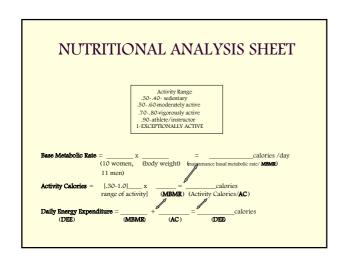


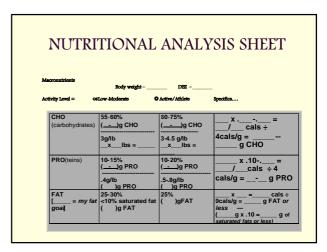


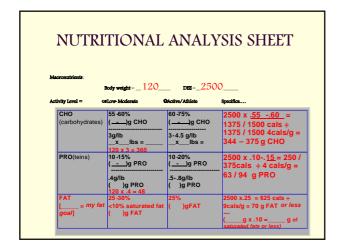
NUTRITIONAL ANALYSIS SHEET

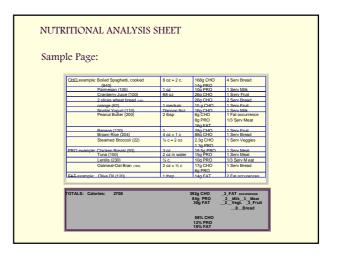
Let's Get Specific...











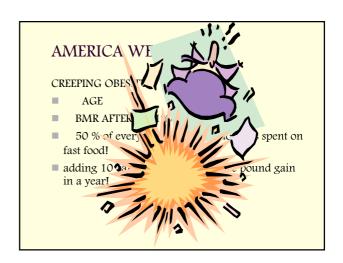
HOT TOPICS

CHOCOLATE: "stearic acid"
Cocoavia

TEA: egcg antioxidant
(teastea.com, lipton.com)

GRAPE JUICE:

ORGANIC.



FACT

■ 3 out of 4 adults consume a 'junk food' at least every day (*Consumer Reports on Health* from November, 2001).

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6 NUTRIENTS OF FOOD:

MACRONUTRIENTS:

■ WATER
■ CARBOHYDRATES

■ FATS

■ PROTEINS

MICRONUTRIENTS:

• VATAMINS
• MINERALS

CARBOHYDRATES

•SIMPLE CARBOHYDRATES

MONOSACCHRIDES (GLUCOSE, FRUCTOSE, GALACTOSE)

DISACCHRIDES (SUCROSE, LACTOSE, MALTOSE)

•COMPLEX CARBOHYDRATES

POLYSACCRIDES: STARCHES, FIBERS (SOLUBLE/INSOLUBLE)

•4 CALORIES PER GRAM

•NEED: 55-60 % CALORIES PER DAY

Eg: 2000 calorie meal plan x .55-.60 = 1100-1200cals \div 4 = 275-300g CHO

ANTIOXIDANTS & PHYTOCHEMICALS: HAPPY FOODS



·Flavonoids

CARBOHYDRATES

POST WORKOUT REFUELING:

.7G/LB IMMEDIATELY AFTER EXERCISE EXAMPLE: 112G FOR 160 POUND PERSON 112 G IN ONE CUP RAISINS

Research: ONLY MACRONUTRIENT THAT FUELS THE BRAIN!

FACT

"sweet" and/or "salty" snacks are a \$30 billion yearly industry in the US (IRI US Food of Dec 2002)

eatright.org: 90% of snacks are unplanned

behavior (CRUNCH)

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PROTEINS

- •ESSENTIAL AMINO ACIDS
- •NON-ESSENTIAL AMINO ACIDS
- •4 CALORIES PER GRAM
- •NEED: 10~15% CALORIES PER DAY

• Eg: 2000 calorie meal plan x .. 10-. 15 = 200 - 300 cals ÷ 4 = 50 - 75g PRO

PROTEINS

- •MUSCLES ARE 75% WATER
- •PROTEINS ARE THE LEAST USEABLE MN.
- •RESEARCH: EXCESS LEADS TO BURDENED KIDNEYS, CARDIAC RISK FACTORS, ET. AL.
- •<10% PRO IN BODY USED FOR FUEL (K.)
- •HELPS OPTIMIZE GLYCOGEN RECOVERY

PROTEINS

•DO WEIGHT LIFTERS NEED MORE PROTEIN THAN ENDURANCE/AEROBIC -ORIENTED ATHLETES?

FACT

■ FAST FOOD NATION reports that 50% of every US food dollar is spent on junk food.

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FATS

- •MONO~UNSATURATED
- •POLY~UNSATURATED
- •SATURATED
- •9 CALORIES PER GRAM
- •NEED: <30% CALORIES PER DAY

 • Eg. 2000 calorie meal plan x .30 = 600 cals + 9 = 54g FAT *(or less)* [CHOLESTEROL: <200, HDL> 35, LDL < 130, TRIGLYCERIDES <200]

-HYDROGENATED

"FRACTIONATED"

"TRANS,"



FATS

•NECESSARY FOR CELL MEMBRANES, ENERGY PRODUCTION, LIPOPROTEINS, PROTECT ORGANS, THERMO REGULATION (SUBCUTANEOUS), CARRIER A/D/E VITAMINS, TRANSMIT MESSAGES ALONG NERVES •STRESS PLAYS A ROLE IN FAT STORAGE •HORMONE SENSITIVE LIPASE •CORTISOL AND STRESS

GALLBLADDER NEEDS 10G/MEAL

FACT

■73% of Americans choose what they call a junk food' once a day, 39% do it twice a day, and more than 10% of it takes place while driving. (Information Resources Inc, *Snackworld* July 2002)

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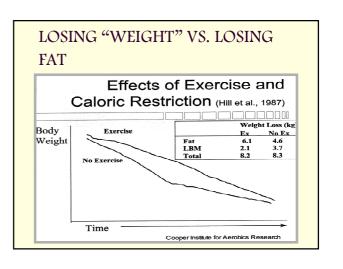
ALCOHOL

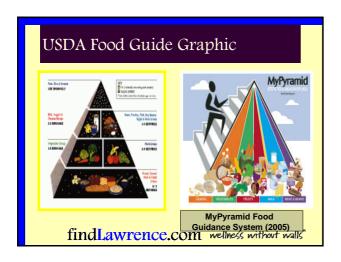
•HIGH ALCOHOL INTAKE PROMOTES
HEAD AND NECK CANCERS; MODERATE
ALCOHOL INTAKE PROMOTES BREAST
CANCER; LIGHT INTAKE <u>MAY</u> DECREASE
RISK OF CARDIOVASCULAR DISEASE

•7 CALORIES PER GRAM

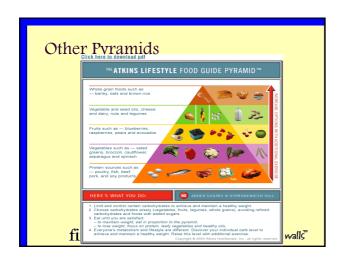
•GLYCEMIC INDEX •LEVEL OF COMBINATION •LEVEL OF FITNESS •LEVEL OF HEALTH •LEVEL OF ENERGY BALANCE •METABOLIC STATE Eg.: OATMEAL VS. PASTA Carbohydrates are the best sources of glycogen.

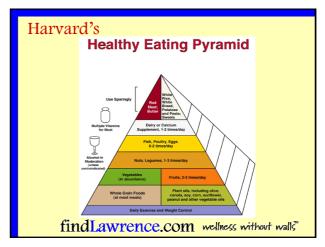
LOSING "WEIGHT" VS. LOSING FAT Any meal plan falling below 1,500 calories per day can be unsafe! 1 POUND OF FAT SUPPLIES 3,500 CALORIES 3,500 ÷ 7 days = 500 calories / day reduction

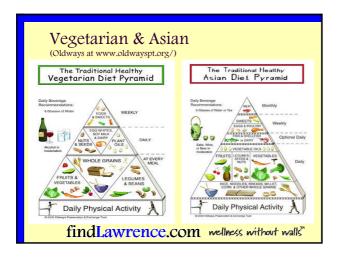




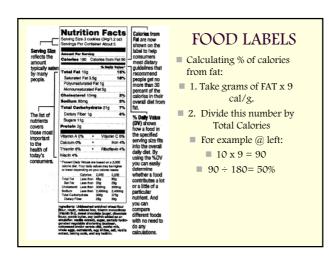












ERGOGENIC AIDS



SUPPLEMENT ACT OF 1994: MANUFACTURERS CAN MAKE ANY CLAIM THEY WISH AS LONG AS IT DOES NOT CURE DISEASE!

ERGOGENIC AIDS

- ■1. Are there documented benefits?
- ■2. Do these benefits outweigh all risks involved?

FACT

■ Half of Americans agree that CONVENIENCE is the key to the choices they make when grabbing a quick snack. (NPD Group)

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HOT TOPICS

- Omega 3: marine, flaxseed, fish, olive oil (2003 vs. 2004)
- Reduce high bp, anti-inflammatory, decrease triglyceride, reduce atherosclerosis
- whiter fish excepting tuna (haddock, cod, bream, trout, farmed sea bass)

HOT TOPICS

- ■Stanol/Sterol Esters
- Plant sterols from pine trees and stanols
- Sept 2000: FDA permission plant sterol/stanol esters reduce CHD
- Stanols: ***Benecol (McNeil) Stanol, Stanol + Sterol
- Sterols: Take Control (Lipton)
- ■FDA: sterols .65 g per serving and 1.7 g of stanol esters

HOT TOPICS

- SOY
- Can lower high blood chl by 10-15%
- 25g soy protein per day may lower cholesterol
- Approx: 1 c cooked soybeans
- ½ c roasted soy nuts
- 3 c soymilk

HOT TOPICS

- CAFFEINE
- Can help release fat from adipose cells in small amounts

HOT TOPICS

LABELS:

- FREE: "trivial, small"
- LOW: "low_____, specifically defined"
- REDUCED: at least 25% less fat, sfat, chol, or NA that comparable food
- HIGH: 20% or greater than Daily Value
- GOOD SOURCE: 10 to 19% of Daily Value
- LIGHT: 1/3 fewer calories or 50% less fat
- HEALTHY: low in fat and sfat, 480 mg or less
- LEAN: less than 10g total fat, 4.5 g or less sfat

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FACT

■ Half of Americans agree that CONVENIENCE is the key to the choices they make when grabbing a quick snack. (NPD Group)

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NUTRITIONAL ANALYSIS SHEET

THE PERFECT MEAL???

CHO: WHOLE WHEAT FLOUR, AMARANTH, QUINOA, SOY, 100% BRAN FLAKES
CHO AS SWEETENER: MANGOS, OJ FROM CONCENTRATE

CHO AS SWEETENER: MANGOS, OJ FROM CONCENTRATE PRO: EGG WHITES, SPIRULINA, LITE SOY MILK (EMULSIFIER)

FAT: CANOLA OIL, GROUND SALTED PEANUT BUTTER
VITAMINS & MINERALS: SOY YOGURT
ANTIOXIDANTS & FLAVONOIDS: DECAF GREEN TEA EXTRACT,
(MANGO/OI)

BAKING POWDER TO RAISE IT UP

