PERSONAL FITNESS

IMPROVING YOUR HEALTH STATUS

4 COMPONENTS OF FITNESS

- CARDIORESPIRATORY ENDURANCE
 - ABILITY TO MAINTAIN MODERATE-INTENSITY WHOLE-BODY ACTIVITY FOR EXTENDED TIME PERIODS
- · FLEXIBILITY
 - RANGE OF MOTION IN A JOINT(S)
- C MUSCULAR STRENGTH & ENDURANCE
 - MAXIMUM FORCE & REPEATED HIGH INTENSITY MUSCLE CONTRACTIONS
- C BODY COMPOSITION
 - RATION OF FAT WEIGHT TO TOTAL BODY WEIGHT

PHYSIOLOGICAL BENEFITS OF EXERCISE

- CIMPROVED CARDIOVASCULAR ENDURANCE
 - INCREASES HOL, REDUCES LDL CHOLESTEROL
 - PREVENTS HYPERTENSION
- IMPROVED OXYGEN UPTAKE
- ↑ INCREASED METABOLIC RATE
- ↑ IMPROVED QUALITY OF LIFE & LIFE SPAN
- ↑ IMPROVED IMMUNITY TO DISEASE
- · IMPROVED WEIGHT CONTROL
- IMPROVED BONE MASS



PSYCHOLOGICAL BENEFITS CABILITY TO MANAGE STRESS

- "BURN OFF" CHEMICAL BY-PRODUCTS RELEASED BY THE NERVOUS SYSTEM
- CIMPROVE SELF-ESTEEM
- CELEVATE MOOD
 - RELEASING ENDORPHINS INTO THE BLOODSTREAM
- ○IMPROVE SLEEP
 - PHYSICAL FATIGUE VS. OTHER

AEROBIC FITNESS

- 70% OF MAX HR FOR 20-30 MINUTES, AT LEAST
 3x PER WEEK (PROGRESS TO 5)
- TOTAL BODY ACTIVITY
- "LSD" (LONG SLOW DISTANCE)
- C BEGIN SLOWLY USE PROGRESSION
- C KEYS: FREQUENCY

DURATION

← TEXT: P 284, FIGURE 11.1



EXERCISE INTENSITY

- C PROLONGED MODERATE INTENSITY AEROBIC EXERCISES
- **↑ TARGET HEART RATE**
- PERCEIVED EXERTION(BORG SCALE)
 - -14-16: SOMEWHAT HARD TO HARD
- **CTALK TEST**

EXERCISE DURATION

- TO BURN FAT:
 - MODERATE INTENSITY! AS INTENSITY INCREASES, FAT BURN DECREASES.
- C GOAL: BURN 300-500 CALORIES PER SESSION; WEEKLY = 1,500-2,000 CAL'S



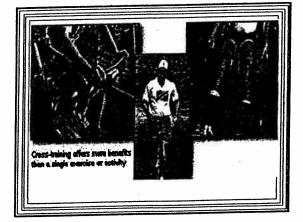
FLEXIBILITY

- C STATIC STRETCHES (3-5 DAYS PER WEEK), P 294, FIG. 11.3
- CALL MAJOR MUSCLES
- C HOLD STRETCH 6-10 SECONDS (UP TO 30-60 SECONDS)
- C BEFORE & AFTER
- C TAI CHI & YOGA



MUSCULAR STRENGTH & ENDURANCE

- CESSENTIAL FOR "TOTAL FITNESS"
- C PRINCIPLES
 - TENSION: TO DEVELOP STRENGTH, DEVELOP TENSION IN THE MUSCLE (WEIGHT TRAINING)
 - OVERLOAD INCREASE TENSION IN MUSCLES
 - SPECIFICITY: SPECIFIC RESPONSE WITH TARGETED ACTIVITY



CLOTHING / GEAR / AREA

- C FOOTWEAR: P 300-1, FIG. 11.6
 - FOOT COLLIDES WITH GROUND WITH FORCE 3-5X THE RUNNER'S WEIGHT. CUMULATIVE: 450,000 LBS. PER MILE
- **← CLOTHING**
- **SAFE EQUIPMENT**
- C ENVIRONMENT FOR ACTIVITY

INJURY PREVENTION

- OVERTRAINING AND OVERUSE
 - SEE OVERUSE INJURIES: PP 302-3
- C TREATMENT
 - REST
 - ICE (20 MIN EVERY HR., 24-72 HOURS)
 - COMPRESSION
- ELEVATION
- C EXERCISING IN THE HEAT: FLUID & MODERATION
 - HEAT EXHAUSTION: SIGNIFICANT DEHYDRATION HEAT STROKE: MORE SERIOUS DEADLY

CONSUMING & EXPENDING ENERGY

WEIGHT CONTROL & **EATING DISORDERS**

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IDEAL WEIGHT

- = IDEAL
 - MEN:11 AND 15 %
 - WOMEN: 18 AND 22%
- OBESITY
 - MAN: EXCEEDS 20%
 - WOMAN: EXCEEDS 30%
- P. 256-7, TABLE 10.1 10.2

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TECHNIQUES FOR ASSESSING

- # HYDROSTATIC WEIGHING: MOST ACCURATE
- # PINCH AND SKINFOLD TESTS
- BODY MASS INDEX (BMI) (AGES 20-29) & DIVIDE YOUR WEIGHT IN KILOGRAMS BY THE
 - SQUARE OF YOUR HEIGHT IN METERS
 - # BM = WT.(KG) (PO. OIV. BY 2.2) [HT.(CM)2 (DIV. HT. IN INCHES BY 39.4, THEN SQUARE THE RESULT)
- FEMALES DESIRABLE = 21 TO 23
- MALES DESIRABLE = 22 TO 24
- BMI ABOVE 27.8 FOR MEN & 27.3 FOR WOMEN = INCREASED HEALTH RISKS

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WEIGHT CONTROL QUESTIONS

- DO WE EAT TOO MUCH OR EXERCISE TOO LITTLE?
- WHY DO FEWER THAN 5% OF ALL PEOPLE ACHIEVE PERMANENT SUCCESS ON A WEIGHT LOSS PROGRAM?

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HEREDITY

- * GENETICALLY INHERITED BODY TYPES
 - * ECTOMORPHS: TALL, SLENDER
 - * ENDOMORPHS: ROUND, SOFT
- × MESOMORPHS: MUSCULAR
- *GENETICS
 - * TWINS RAISED APART THAT HAD OBESE PARENTS BECAME OBESE
- **X LIFESTYLE OR GENETICS**
 - * DIET & EXERCISE CAN MODIFY GENETIC **EFFECTS**

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FOOD INTAKE & METABOLISM

- BROWN FAT CELLS
 - SPECIALIZED FAT CELLS THAT AFFECT ABILITY TO REGULATE FAT METABOLISM
- MAY EAT FOR REASONS OTHER THAN HUNGER
- SATIETY: FULLNESS AFTER EATING VARIES DEPENDING ON CONDITIONING
- HUNGER
 - RESPONSE TO NUTRITIONAL NEEDS
- APPETITE
 - LEARNED RESPONSE TO FOOD

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DEVELOPMENTAL FACTORS

- **HYPERPLASIA**
 - **EXCESSIVE # OF FAT CELLS**
- HYPERTROPHY
 - . ABILITY OF FAT CELLS TO SWELL
- **SET POINT THEORY**
 - # BODY ACTS TO MAINTAIN BODY FAT
- BASAL METABOLIC RATE
 - ENERGY BODY USES AT COMPLETE REST
 - # 99-79% OF ALL CONSUMED CALORIES
 - SLOWS 1-2% PER YEAR AFTER 30
 - INFLUENCED BY BODY COMPOSITION noonaaa

FACTORS TO CONSIDER

PHYSICAL ACTIVITY MAKES A DIFFERENCE

- ONE LB OF FAT = 3,500 CAL'S EXTRA
- LOSE 1 POUND OF FAT = <3,500 CAL'S
- STRENGTH EXERCISE IMPROVES MUSCLE TONE
 - INCREASES METABOLISM AND THEREFORE ABILITY OF BODY TO BURN FAT
- A CUMULATIVE EFFECT!

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EXERCISE & WEIGHT LOSS

- RESTING METABOLIC RATE
 - 90% OF CALORIES BURNED
- **EXERCISE METABOLIC RATE (EMR)**
 - # 10% OF CALORIES BURNED
 - INCREASE EMR INFLUENCE WEIGHT LOSS!
 - BIGGER CONTRIBUTION TO BMR BY USING LARGE MUSCLE ACTIVITY

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CHANGING TRIGGERS AND SUBSTITUTE ACTIVITIES

- **TURN OFF DISTRACTIONS**
- REPLACE SNACK BREAKS W. **EXERCISE**
- **EAT SLOWLY**
- DO NOT EAT UNTIL HUNGRY
- **SMALLER PORTIONS PLATES**
- MAKE "GOOD FOOD CHOICES" EASIER
- EAT ONLY IN THE KITCHEN

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MORE SUGGESTIONS

- **DRINK WATER BEFORE EATING**
- GO "OUT" FOR DESSERTS
- DO NOT SKIP MEALS!
- NO SERVING DISHES ON THE TABLE
- CUT BACK ON GRAVIES, SAUCES, ETC
- **ENTRÉE PREPARATION**
 - BROILED, STEAMED, BAKED, GRILLED. POACHED, OR ROASTED
- **FRESH FRUIT & VEGETABLES!**

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NUTRITION PLAN FOR WEIGHT LOSS

- MODERATE GOALS (1-2 LB. PER WEEK)
- **HEALTHY REWARDS**
- GO BACK TO YOUR PLAN
- **REPUTABLE SOURCES**
 - REGISTERED DIETITIANS, PROFESSIONALS
- AVOID QUICK LOSS PROGRAMS
- SOUND DIETARY GUIDELINES

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