Wellness 9 Midterm Study Guide / Review

Note: This will be transferred to the notecard for the test. The test is open-notes.

Wellness

overall state of well-being or total health encompassing physical, emotional, social, intellectual, spiritual, and environmental needs; dynamic, must be worked towards

Physical

physical fitness

- eating
- nutrition
- exercising
- fitness

Intellectual/Mental

- making good decisions
- staying focused
- thinking critically

Emotional

- happiness level
- stress level
- self-esteem
- emotional eating
- negatives

Social

- good friends
- good family
- good communications

Spiritual

- peaceful
- good beliefs
- good relationship with religion

Environmental

- people around you
- air quality
- lighting
- not getting distracted

Occupational

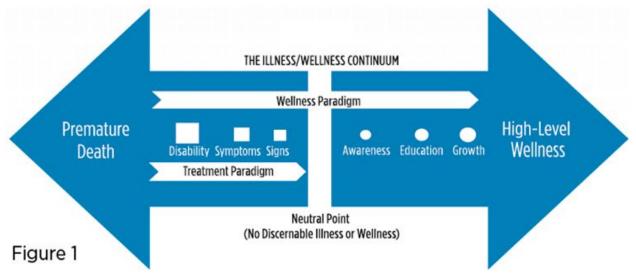
- being happy with what you do for a living
- participating

Effect

• can have a positive, negative, or both effect on a person

Wellness Continuum

shows that the better your wellness, the better you can develop; the worse it is, the quicker your death and the worse your overall problems



Values

beliefs and ideas that are important to you that guide the way someone lives their life

- integrity
- respect
- trust
- honesty
- community
- health, fitness

can have conflict (need to prioritize)

Support System

a group or network of people relied on for emotional, social, physical, spiritual, and intellectual support. They are used to maintain/attain your wellness; can change as people change, enter into, or disappear from your life

Examples

- family
- internet
- friend
- coach / teacher
- counselor / advisor
- police
- God
- doctor

Personal Fitness

Attitudes / Media Influences

negative attitudes on physical fitness

- lack of time
- lack of knowledge
- lack of athletic ability
- lack of motivation
- media
- past experiences
- lifestyle choices

Health Risks

• 6 Controllable

- inactivity
- obesity
- smoking
- o hypertension
- o high LDL
- stress and tension

• 3 Uncontrollable

- o age
- o gender
- o heredity / genes

Benefits of Exercise

improved body appearance improved body image self-control enjoyment of life improved health improved life expectancy improved physical performance increased muscular endurance increased energy level increased success in school/job cope with stress sleep better

Physical Fitness vs. Physical Activity vs. Exercise

physical activity: something you do physical fitness: something you acquire

exercise: planned and structured with fitness as your goal

Components of Fitness

Health-Related Fitness

components of fitness that contribute to how well the systems of the body operate

- related to overall state of health
- essential toward contribution toward prevention of disease and promotion of health

• Cardiovascular Endurance

- body's ability to sustain prolonged exercise for at least 15 minutes with an appropriate heart rate
- o most important indicator of good health
- o mile run, pacer

• Muscular Strength

- o amount of force a muscle can produce with a single maximum effort
- o pull-up, push-up

• Muscular Endurance

- ability to sustain given level of tension for long period of time (hold contraction or repeat)
- o sit-up

• Flexibility

- o ability to move joints through full ROM
- has to be specific
- o sit and reach

• Body Composition

- o ratio of fat to muscle and other body tissues
- o BMI
- o ranges:

	12	13	14	15
Girl	14.7-24.2	15.5-25.3	16.2-25.3	16.6-26.5
Boy	14.8-24.1	15.4-24.7	16.1-25.4	16.6-26.4

Skill-Related Fitness

components of fitness that contribute to ability to successfully play sports

• Agility

- o ability to change position/direction of body in controlled manner
- o shuttle run

Balance

- o ability to keep upright posture while standing still (static) or moving (dynamic)
- o stork test

Coordination

- o integration of eye, hand, and foot movements
- o tennis-ball wall

• Power

- o ability to do strength performances at rapid pace
- o vertical jump

• Reaction Time

o amount of time it takes to get moving once senses signal need to move

- ruler drop
- Speed
 - ability to cover distance in short time
 - o 40-yard dash

Goal Setting

SMART

- Specific
 - o cannot be too general
- Measurable
 - o has to have a unit, something that can physically be measured
- Action Plan
 - o has to have some plan, schedule, that allows the goal to happen
- Realistic
 - has to be achievable
- Time Frame
 - o has to give a certain time period to complete the task

Exercise Guidelines

Starting Factors

- medical exam
 - get limitations from existing conditions
- fitness evaluation
 - o get baselines
- SMART goals
 - o set goals, see improvement

Clothing

comfortable, move freely, cool body

sneakers: most important item for any activity

socks: prevent friction of skin against shoes (blisters)

shirt: synthetic (dry-fit material), wicking effect allows body to stay dry and "breathe"

- not dark at night
- light shirts in hot weather to better reflect sun

shorts: not too tight around thighs

Workout Sequence

1. Warm-Up

- 5-10 minute exercise before workout to reduce chances of injury
 - a. light activity
 - i. general

- ii. specific
- b. stretch (dynamic)

2. Work-out

3. Cool-Down

10-15 minute mild exercise following vigorous exercise that allows body and heart rate and breathing and circulation to normalize, prevents blood from pooling, prevents tight muscles from become sore

- a. light activity
- b. stretch (static)

Weather/Environmental Considerations

• Appropriate Clothing

• Illnesses

- o hyperthermia
 - increase in temperature with decrease in body fluids
 - heat cramps
 - o muscles involuntarily contracting causing pain
 - not too serious
 - heat exhaustion
 - o excessive sweating, dizziness, extreme weakness
 - body is inadequate
 - o mildly serious
 - heat stroke
 - o dry, clammy skin
 - stopped sweating, body's cooling function stopped, overworked
 - o extremely serious, life-threatening
 - wear light-weight, light-colored clothing
 - drink fluids before, during, and after practice (too late when thirsty- already dehydrated)
 - check urine color
 - exercise before 10 and after 4 on hot days

o hypothermia

- excessive (>4°F.) in body temperature
- hypothalamus begins to lose ability to regulate body temperature
- frostbite is tissue damage that occurs when circulation to skin decreases so that tissue receives insufficient oxygen and nutrients
- between 10 and 2
- warm-up and cool-down
- darker earlier in day
- stay clear of icy areas
- check outside temperature and windchill
- stay hydrated
- wear a scarf
- don't overdress, but layer clothing
 - synthetic shirt, then water/wind shel

Safety Considerations

- don't exercise if ill
- wait to exercise after eating for 2-3 hours
- run/walk against traffic, bike with traffic
- exercise with another person or in a group, carry cell phone
- stay away from remote, unpopulated areas
- wear reflectors wen dark
- sunburns
 - o cover skin
 - o use 1 oz sunscreen
 - UVA skin damage
 - UVB skin burn
 - SPF 30 recommended
- ticks
 - o blacklegged tick (deer tick)
 - o cannot jump or fly
 - o skin rash (bull's eye)
 - o fever
 - o headache
 - o muscle and joint pain
 - swelling of joints
 - o paralysis
 - o avoid woody areas, perform a tick check
 - o use tweezers, pull it out straight

Injury Treatment

muscle soreness

- exercise at right level
- goes away after 1-2 days

blisters

- don't remove skin
- puncture with sterile needle
- apply sterile gauze

shin splints

- exercise at right level
- RICE
 - o rest
 - o immobilize
 - o cold
 - o elevate

stitch in side

- apply pressure, stretch to opposite side, breathe deeply sprained ankle
 - don't roll ankle
 - RICE

Principles of Training

Principle of Overload

exposing body to more work and stress than normally experienced to increase fitness; dependent on the person

• Milo of Crotona, the "grandfather of overload"

• FIT Variable Chart

	Cardiovascular Endurance	Flexibility	Muscular Endurance	Muscular Strength
Frequency	3-5 d/w	3-7 d/w	2-6 d/w (alternate)	2-6 d/w (alternate)
Intensity	60-90% THR	mild tension	30-50% 1RM	60-90% 1RM
Time	15-60 minutes	15-30 seconds 2-3 sets	12-20 reps 3 sets	5-8 reps 3 sets

Principle of Progression

progressively increasing the level of exercise so that improvement in physical fitness will continue; body adapts, so overload must be kept at more than "normal"

Principle of Specificity

specific training effects result from specific type, method, or type of exercise; doing specific exercises to improve specific components of physical fitness in specific body parts; different for every part

Flexibility

Application of the Principles of Training

to improve flexibility must stretch soft tissue farther than accustomed to gradually increase mild tension point stretching exercises will only improve flexibility in the joints you stretch

Benefits

increase circulation
prevent injury
reduce chance of low back pain
relieve emotional tension
improve body position for sports
facilitation of strength development

Types of Stretches

static: slowly moving muscle to its stretch point and holding position for 15-30 seconds, safest; best for cooldown dynamic: moving through full ROM in slow, continuous, controlled manner; best for warm-up ballistic: bouncy, jerky movements using the body's momentum; only for extreme athletes; not recommended isostatic: keeping tension throughout the whole stretching exercise (even when muscle relaxed)

Safety Considerations

warm-up before stretching communicate when doing partner stretches stretching is individual go to mild tension (not mild pain) stretch both sides of joint and body

Stretches

- 1. modified hurdlers stretch: hamstrings, adductors
- 2. elevated hamstring stretch: hamstrings
- 3. partner hamstring stretch: hamstring, gluteus
- 4. standing quadriceps stretch: quadriceps, hip flexor
- 5. partner quadriceps stretch: quadriceps, hip flexor
- 6. lying quadriceps stretch: quadriceps, hip flexor
- 7. kneeling anterior tibialis stretch: anterior tibialis
- 8. partner anterior tibialis stretch: anterior tibialis
- 9. spinal twist/pretzel: spinal erectors, abductors
- 10. tensor T: spinal erectors
- 11. angry cat: spinal erectors
- 12. partner knee to chest: spinal erectors
- 13. shoulder and chest stretch: deltoids, pectoralis
- 14. arm across chest: deltoid
- 15. door/corner stretch: pectoralis, deltoid
- 16. partner tug of war: deltoid, latissimus dorsi
- 17. calf wall stretch: gastrocnemius
- 18. step calf stretch: gastrocnemius
- 19. triangle calf stretch: gastrocnemius
- 20. partner calf stretch: gastrocnemius, hamstring
- 21. latissimus overhead stretch: latissimus dorsi, deltoid
- 22. standing lateral side bends: lateral trunk
- 23. mid-back stretch: mid back, lateral trunk
- 24. press up: rectus abdominis, spinal erectors
- 25. forearm stretch: forearm
- 26. tricep stretch: tricep
- 27. bicep door stretch: bicep
- 28. neck stretch: trapezius, neck
- 29. trapezius stretch: trapezius
- 30. piriformis stretch: piriformis, gluteus
- 31. butterfly: adductor
- 32. partner adductor stretch: adductor

Healthy Decisions

STAR Decision-Making Process

Stop

Think

• prevent impulsive decisions

Act

Reflect

prevent future impulsive decisions

Various Drugs

Tobacco

- o #1 preventable cause of death
- o active ingredient: nicotine
- o thousands of carcinogens
- o stimulant

Alcohol

- o easy to obtain
- o active ingredient: ethanol
- o depressant

Marijuana

- active ingredient: THC
- o 2 carcinogens, thousands of times stronger than those in tobacco
- o cannabinoid

• Prescription Drugs

o "pharming parties" are when teens go and exchange pharmaceuticals when they meet

Drug Facts

- Connecticut vs. National Averages
- o Males vs. Females

Healthy vs. Unhealthy Relationships

should not get too physical - would be abuse Ray Rice was not a healthy relationship

Ray Rice was not a heartify relationship

Tiger Woods made bad decisions, not healthy relationships

Bacterial vs. Viral STIs

bacterial:

- chlamydia
- gonorrhea
- syphilis

viral:

- HIV
- HPV
- hepatitis (B)
- herpes

Preventative Techniques

- condoms
- lubricants
- universal precautions