

## INTRODUCTION TO PSYCHOLOGY

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## COURSE OVERVIEW

- DEFINITION
- PSYCHOLOGY AND THE LAW
- LAW - HINKLEY
  - MURDER - KILLING WITH MALICE
- PSYCHOLOGY
  - INSANITY - PSYCHOSIS OR HEAT OF PASSION
  - SANITY - PARANOID, ANTISOCIAL, NARCISSISTIC
  - DIMINISHED CAPACITY

## RESEARCH

- VALIDITY- FACTUAL
- RELIABILITY- CONSISTANTCY
- INDEPENDENT VARIABLE- METHOD
- DEPENDENT VARIABLE- RESULTS
- HYPOTHESIS

## TYPES

- OBSERVATION
- QUESTIONNAIRE

## CORRELATION

- POPULATION - RANDOM
- HYPOTHESIS - THERE IS A CORRELATION BETWEEN EXPECTANCY AND A CHANGE IN SELF CONCEPT AMONG A GROUP OF HEROIN ADDICTS.
- CONTROL GROUP - PRETEST, (NOTHING), CLASS, POSTTEST.
- EXPERIMENTAL GROUP - PRETEST, EXPECTANCY, CLASS, POSTTEST.

## LABORATORY

- STEREOTAXIC MACHINE AND ATLAS
- TYPES
  - ABLATION - VMH( OFF SWITCH), LH(ON SWITCH)
  - STIMULATION
    - GATE CONTROL THEORY
  - CHEMICAL - DOPAMINE, SCHIZOPHRENIA
  - RECORDING - BIOFEEDBACK

## BRAIN CELLS

- GLIAL - SUPPORT
  - REGULATE INTERNAL ENVIRONMENT
  - GROWTH AND NUTRITION
  - MYELIN SHEATH
- NEURONS - ELECTRICAL/CHEMICAL
  - ONE WAY FIRING
  - ALL OR NOTHING

## ELECTRICAL

- DENDRITES
- AXON
- NODES OF RANVIER
- MYELIN SHEATH
- SYNAPTIC KNOB
- SYNAPSE

## REGENERATIVE MEDICINE – STEM CELLS

- MATERIALS – 46 CHROMOSOMES –  
200+CELLS – 3000+GENES PER CELL
- HISTORICAL – VIRGIN BREATH, TESTICULAR  
GRAFTS
- PLURIPOTENT – EMBRYO/PLACENTA INNER  
LAYER OF UNDIFFERENTIATED CELLS
- SPECIFIC GENE DIFFERENTIATES CELL ,  
OTHER GENES TURN OFF
- 1998, ISOLATE AND GROW STEM CELLS-  
2000, TURN CELL INTO SPECIFIC TYPE (10)-  
2001, 110 CELL TYPES

## MORE

- CLINICAL TRIALS – HUMAN EMBRYO,  
(MASS,BRIT,SOKOR)
  - PANCREATIC CELLS – DIABETES
  - NERVE CELLS – EPILEPSY, PARKINSON'S, ETC
  - SKIN CELLS – MELANOMA, WOUNDS, BURNS
  - HEART CELLS – DAMAGED CARDIAC TISSUE
  - LIVER CELLS – SCLEROSIS
  - SPINAL CORD CELLS – DAMAGED
  - TREATMENT – REPLACE DAMAGED CELLS WITH  
DIFFERENTIATED STEM CELLS

## MORE

- IMMUNE CELLS
  - MULTIPLE SCLEROSIS – IMMUNE CELLS ATTACK  
MYELIN
  - ARTHRITIS – IMMUNE CELLS ATTACK  
CARTILAGE
  - LUPUS – IMMUNE CELLS ATTACK SKIN
  - TREATMENT – IMMUNE SYSTEM CELLS  
DESTROYED BY RADIATION AND REPLACED BY  
EMBRYONIC STEM CELLS

## CHEMICAL (NEUROTRANSMITTERS)

- DOPAMINE
- NOREPINEPHRINE/GABA
- SEROTONIN
- ACETYLCHOLINE/ADRENALINE
- ENDORPHIN – ANANDAMIDE?
- PHENYLETHYLAMINE/LIMERANCE
- OXYTOCIN
- NITRIC OXIDE

## LET THE BRAIN CHOOSE

- BIOCHIP TESTING/SWABS
  - GENETIC DIFFERENCES/MEDS
- EEG, MRI, CAT SCAN ACTIVITY

## BRAIN

- CENTRAL NERVOUS SYSTEM - BRAIN/SPINAL CORD
- PERIPHERAL NERVOUS SYSTEM - ORGANS, MUSCLES, ETC.
- CORTEX (CONVOLUTED)

## LOBES

- FRONTAL - PLANNING, ABSTRACT, EXPRESSIVE SPEECH, AGRESSION, IMPULSE CONTROL, SMELL
- TEMPORAL - RECEPTIVE SPEECH AUDITORY
  - SURGERY - MAPPING
- PARIETAL - TASTE AND TOUCH
- OCCIPITAL - SIGHT
- CONTRA COUP

## HEMISPHERES

- LEFT AND RIGHT
- ASYMMETRICAL, CONTRALATERAL
- CORPUS CALLOSUM

## LEFT HEMISPHERE

- VERBAL
- MATH
- READING
- CONCENTRATES ON THE PARTS
- BLACK-WHITE
- DEALS IN THE PRESENT
- NON EMOTIONAL
- BORING

## RIGHT HEMISPHERE

- PICTORIAL
- ABSTRACT
- BIG PICTURE - SPATIAL
- CREATIVE
- MUSICAL
- EMOTIONAL
- PAST-FUTURE
- GHOSTLY PRESENCE

## SPLIT BRAIN RAMIFICATIONS

- EPILEPSY
- THALAMOTOMY
  - DESTROYS OVERACTIVE CELLS
- ELECTRODE SURGERY
  - OVERRIDES OVERACTIVE CELLS
- COMISSIROTOMY
  - SPEECH DIFFICULTIES
  - COLOR ACCESSORIZING

## BRAIN DIVISIONS

- HIND BRAIN
  - MEDULLA
  - CEREBELLUM
  - PONS
- MID BRAIN
  - LIMBIC SYSTEM (GAGE)
- FORE BRAIN
  - THALAMUS, except smell
  - HYPOTHALAMUS

## SENSATION

- BODY PART - BRING IN STIMULI
- NEURONS - CARRY TO THE CORTEX

## THE EYE

- OPTICAL
  - CORNEA (TRANSLUSCENT)-REM SLEEP
  - AQUEOUS HUMOR (GLAUCOMA)
  - IRIS
  - PUPIL
  - LENS (CATARACT)
  - CILIARY MUSCLES (NEAR\FAR) SIGHTED)

## NEURAL

- RETINA
- RODS
- CONES
- PURKINJIE EFFECT
- OPTIC NERVE

## THE EAR

- OUTER
  - PINNA
  - EXTERNAL AUDITORY CANAL
- MIDDLE
  - TYMPANIC MEMBRANE (EARDRUM)
  - BONES - HAMMER, ANVIL, STIRRUP
- INNER
  - SEMI-CIRCULAR CANALS - VERTIGO
  - COCHLEA

## TASTE

- SWEET
- SALT
- BITTER
- SOUR
- SAVORY MEAT
- SUPER (35 BUDS), AVERAGE, OR NON TASTERS (10-15 BUDS)
  - (NONTASTERS) OVEREATING, ALCOHOLISM, ETC.

## SMELL - 1000,S

- NOSE
- NEURONS
  - ONE HALF IN NOSE - ONE HALF IN BULB
- OLFATORY BULB (PROCESSING)
- BRAIN
- MEMORIES
- PHEROMONES - VOMERAL NASAL ORGAN

## TOUCH

- HOT
- COLD
- PRESSURE
- PAIN

## PERCEPTION

- DEFINITION - P=B+S
  - DECODE INCOMING STIMULI, IDENTIFY CONSISTANCIES IN THE WORLD
- VISUAL CLIFF
- ILLUSIONS
  - NOVEL ARRANGEMENT OF CUES

## STATES OF CONSCIOUSNESS

- SLEEP

## STAGES

- SLOW WAVE- (NOREPINEPHRINE)
  - STAGE 1
  - STAGE2
  - STAGE3
  - STAGE4
- REM (PARADOXICAL) -(SEROTONIN)

## CYCLES

- 1,2,3,4
- 3,2,1,REM, AWAKE
- 90 MINUTE CYCLES
- REM - MINUTES
  - 8
  - 18
  - 24
  - 28
- ADOLESCENTS

## DISORDERS

- CONSIDERATIONS
  - frequency, intensity, duration
- SLEEP WALKING
- SLEEP TALKING
- BINGE EATING
- SEXSOMNIA
- INSOMNIA
- HYPERSOMNIA
- NIGHT TERROR
- NIGHTMARE DISORDER


## MORE

- NARCOLEPSY
  - CATAPLEXY
- APNEA (UVULA)
- REM SLEEP BEHAVIOR DISORDER
- SLEEP PARALYSIS
- CLONAZEPAM(ANTI-SEIZURE)

## DREAMS

- DEMOGRAPHICS
- THEORIES
  - FREUD - PSYCHOANALYTIC
  - PERLS - GESTALT
  - VERTES - SURVIVAL (SIDS, ONDS)
  - WINSON - LEARNING
  - CRICK - CLEANSING
  - HOBSON - PONS (NEURONS TO CORTEX)

## LEARNING

- CONDITIONING
- S-R
  - STIMULUS - RESPONSE
  - IMPACT OF ENVIRONMENT ON ORGANISM
- R-S
  - RESPONSE - STIMULUS 
  - IMPACT OF ORGANISM ON ENVIRONMENT

## PAVLOV - CLASSICAL CONDITIONING

- CS - UCS - R

## CS UCS R

- NEUTRAL INNATE LEARNING
- BELL FOOD SALIVATE
- WEEKEND ALCOHOL INTOX
- 10 P.M. FOOD RELAX
- PARENTS APPROVAL ROLE
- NEEDLE HEROIN RUSH

## SCHIZOKENESIS

- CS UCS R
- BEARD RAPE FEAR
- TRUCK ACCIDENT FEAR
- WEATHER WAR FEAR

## CC TERMS

- CONTIGUITY
- EXTINCTION
- GENERALIZATION
- DISCRIMINATION

## SKINNER - OPERANT CONDITIONING

- R-S
- REINFORCEMENT - POSITIVE OR  
NEGATIVE
- PUNISHMENT
- AVERSION THERAPY

## KILLOLOGY – ACQUIRED VIOLENCE IMMUNE DEFICIENCY SYNDROME

- KILLING UNNATURAL – MID BRAIN
- CIVIL WAR, 90% DEAD SOLDIERS GUNS  
LOADED; WWII 15% FIRE AT EXPOSED  
EMEMY: KOREA 55%; VIET NAM 90%
- CONDITIONED REFLEX AND  
REINFORCEMENT DESENSITIZES MID BRAIN  
RESISTANCE
- CC TEACHES TO KILL – OC TEACHES TO  
LIKE IT

## CLASSICAL CONDITIONING

- CS UCS R
- BOOT CAMP
- DI DEHUMAN KILL
- POLICE
- TARGET FORM SHOOT
- CHILDREN
- TV VIOLENCE BELIEF
- TEENS
- VIDEO GAME TARGET SHOOT

## OPERANT CONDITIONING

- R
  - MILITARY
  - KILL ENEMY
  - JAPAN
  - BAYONET PRISONERS
  - POLICE
  - KILL BAD GUY
  - YOUNG PEOPLE
  - WATCH VIOLENCE
- S
- PRAISE
- FOOD, SAKE
- NOTCH, CHOIR
- CANDY, DRINKS

## CONSIDERATIONS

- COLUMBIA U – 707 FAMILIES
  - 1 HR TV/DAY – 5.7% VIOLENCE
  - 1-3 HRS – 22.5%
  - > 3 HRS = 28.8
- ISSUES
  - CONDUCT DISORDERED KIDS
  - FAMILY ABUSE
  - MORE TV BY AGGRESSIVE CHILDREN

## MEMORY

- CORRELATION
  - RNA - PROTEIN
- TRANSFER
  - CS - UCS - R
  - LIGHT SHOCK JUMP

## STAGES

- SENSORY
  - TEMPORARY
  - LASTS A FEW SECONDS
  - NOT NOVEL

## SHORT TERM

- ELECTRICAL
- 30 SECONDS
- LIMITED CAPACITY
- HOLDS 7 PLUS OR MINUS 2
- HIPPOCAMPUS
- EASY TO RETRIEVE
- AMPAKINE. NEOTROFIN, ETC
  - IMPROVES GLUTAMATE RECEPTORS

## LONG TERM

- CHEMICAL - (ACETYLCHOLINE)
- NO SPECIFIC LOCATION
  - DIFFUSE
- MASSIVE CAPACITY
- LASTS FOREVER
- DIFFICULT TO RETRIEVE
- PTSD – ADRENALIN
  - ANXIETY MEDS

## HOW COULD THEY FORGET?

- 30 CHILDREN DIE EACH YEAR
- WORKING MEMORY – 7 +-2
  - SURVIVAL OF SPECIES
  - RELATED THOUGHTS
  - DEVOTION TO ROUTINE
  - “IN THE ZONE”
  - BREAD VS. CHILDREN

## MNEMONICS

- CONNECT WITH LTM
- MAKE INFO NOVEL

## THEORIES OF FORGETTING

- TRACE – DECAY
- DISPLACEMENT
- INTERFERENCE
- FREUD

## MOTIVATION

- HOMEOSTASIS - DEFINITION
- HYPOTHALAMUS -
  - OFF SWITCH, VENTRAL /MEDIAL
  - ON SWITCH, LATERAL

## HUNGER (HYPERPHAGIA, APHAGIA)

- THEORIES
  - STOMACH CONTRACTION
  - ENVIRONMENTAL
  - LIPOSTATIC
    - LEPTIN – REGULATE APPETITE (Brain)
    - ZENICAL
    - AXOKINE
    - RIMONABANT
  - GLUCOSTATIC
  - CCK – CHOLECYSTOKININ (Gut)
  - PROTEIN GENE- MELANOCORTIN 4 (CONVERTS FOOD TO ENERGY NOT FAT)

## THIRST - (HYPERDYPسيا, ADYPSIA)

- VOLEMIC CELLS (EXTRACELLULAR)
- OSMOTIC (INTRACELLULAR)

## EMOTION

- JAMES-LANG
  - STIMULUS, THALAMUS, HYPOTHALAMUS , PHYSICAL, CORTEX
- CANNON-BARD
  - STIMULUS, THALAMUS, HYPOTHALAMUS AND CORTEX, PHYSICAL

## SELYE

- DEFINITION
- LCU
- STAGES
  - ALARM
  - RESISTANCE
  - EXHAUSTION

## LANGUAGE

- PSYCHOLINGUISTICS
- SCIENTIFIC - ALL CHILDREN
- SPECIAL CHILDREN - AUTISTIC, MENTALLY CHALLENGED, HEARING IMPAIRED

## STAGES - INSTINCT

- CRYING - BIRTH TO 3 WEEKS
- COOING - 3 WEEKS TO 4 MONTHS
- BABBLING - 4-6 MONTHS TO 1 YEAR
- MARCUS - U.OF WASH
- CASES - ANNA, (MARASMAS)
- ISABELLE
- GENIE, (CRITICAL PERIOD)

## STAGES - ENVIRONMENT

- PSEUDOCRIES (6 MOS.) - ECHOLALIA (8 MOS.)
- FIRST WORD - 12 MONTHS
- FIRST 2-WORD SENTENCE - 18 MONTHS
- 50 WORDS - 24 MONTHS
- 1000 WORDS - 36 MONTHS
- STUTTERING

## PERSONALITY DEVELOPMENT

- PRENATAL
- INFANCY
- CHILDHOOD
- ADOLESCENCE
- ADULTHOOD

## FREUD - PSYCHOSEXUAL

- UNCONSCIOUS, REPRESSED CHILDHOOD EVENTS
- FIXATION - LIBIDO
- STAGES
  - ORAL , BIRTH TO ONE YEAR
  - ANAL, 1-3
  - PHALLIC, OEDIPAL 3-5
  - LATENCY, HOMOSOCIAL 5-12
  - GENITAL, 12-18

## PERSONALITY SEGMENTS

- ID
- EGO
- SUPEREGO

## DEFENSE MECHANISMS

- DENIAL
- REPRESSION
- REGRESSION
- REACTION FORMATION
- DISPLACEMENT
- RATIONALIZATION

## ERIKSON - PSYCHOSOCIAL

- TRUST V. MISTRUST-BIRTH TO 1
- AUTONOMY VS. DOUBT 1-3
- INITIATIVE V. GUILT 3-5
- INDUSTRY V. INFERIORITY 5-10
- IDENTITY V. IDENTITY CONFUSION 10-18
- INTIMACY V. ISOLATION, EARLY
- GENERATIVITY V. STAGNATION, MID
- INTEGRITY V. DISPAIR, LATE

## PIAGET - COGNITIVE

- ASSIMILATION AND ACCOMMODATION
- STAGES
- SENSORIMOTOR , BIRTH TO 2 YEARS
  - OBJECT RECOGNITION, CONTROL, PERMANENCY
- PREOPERATIONAL , 2-7 YEARS
  - SYMBOLIC ,ANIMISM, EGOCENTRISM, CONSERVATION

## PIAGET

- CONCRETE ,7-12 YEARS
- FORMAL, ADOLESCENCE - 12 AND UP
  - ABSTRACT THINKING

## KOHLBERG - MORAL

- PUNISHMENT
- REWARD
- GOOD/BAD GIRL - GOOD/BAD BOY
- AUTHORITY ORIENTATION
- INDIVIDUAL PRINCIPLES
- UNIVERSAL PRINCIPLES

## MASLOW - HUMANISTIC

- INDIVIDUAL, MAXIMUM POTENTIAL
- HIERARCHY OF NEEDS
  - PHYSICAL, SAFETY, LOVE, SELF ESTEEM, SELF ACTUALIZATION

## GOULD - TRANSFORMATIONS

- DIALECTICAL PULL
- 15-18 - ESCAPE PARENT CONTROL
- 18-22 - INDEPENDENCE
- 22-28 - MARRIAGE - OCCUPATION
- 28-36 - GIVE UP UNHEALTHY ROLES
- 36-45 - URGENCY TO ATTAIN GOALS
- 45-55 - ACCEPT ONE'S LIFE
- 55-? - MELLOWING

## SHEEY - NEW PASSAGES

- TRYOUT 20'S
- TURBULANT 30'S
  - JUGGLE HOME, CAREER, CHILDREN
- FLORISHING 40'S
  - MEANING CRISIS, QUESTIONING DECISIONS
- PASSIONATE 50'S
  - CHASING ONES VALUES
- FUN 60' AND 70'S

## PRE-NATAL STAGE

- INTERNAL STRUCTURES
- GENETIC ABNORMALITIES
- ENVIRONMENTAL INFLUENCES
- TESTS

## ROSS - DEATH AND DYING

- DENIAL
- ANGER
- BARGAIN
- MOURNING
- ACCEPTANCE
- RELATIONSHIP/PTSD

## SOCIAL PSYCHOLOGY

- DEFINITION
- KITTY CASE
- ATTRIBUTION THEORY
  - SELF, EXTERNAL AND SITUATIONAL
  - OTHERS, INTERNAL AND DISPOSITIONAL

## ABNORMAL

- DSM IV
- NEUROSES(FUNCTIONAL)
- PERSONALITY DISORDERS (10)
- PSYCHOSES

## FUNCTIONAL DISORDERS

- EGODYSTONIC
- ANXIETY - DEPRESSION -ANGER
- STATES
- ANXIETY DISORDERS
  - OCD
  - PANIC DISORDER
  - PHOBIAS (AGORA, SOCIAL, SIMPLE)
  - GENERALIZED ANXIETY
  - PTSD

## MORE

- SOMATAFORM
  - HYPOCHONDRIASIS
  - BODY DISMORPHIC
- DISSOCIATIVE
  - AMNESIA
  - MPD (DID)

## PERSONALITY DISORDERS

- EGOSYNTONIC
- TRAITS
- PARANOID
- ANTISOCIAL
- HISTRIONIC
- NARCISSISTIC
- BORDERLINE

## PSYCHOSIS

- SCHIZOPHRENIA
  - DELUSIONS, HALLUCINATIONS
- BRIEF PSYCHOTIC REACTION