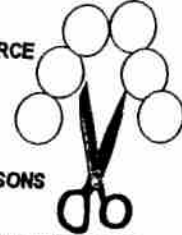


DEFINITIONS

- **PATHOGENS**
 - DISEASE CAUSING AGENTS
- **AUTOINOCULATION**
 - TRANSMISSION FROM ONE PART OF YOUR BODY TO ANOTHER
- **TOXINS**
 - POISONOUS SUBSTANCES
- **MULTIFACTORAL**
 - INTERACTION OF SEVERAL FACTORS

TRANSMISSION OF DISEASE

- **CHAIN OF INFECTION**
 - CAUSATIVE AGENT, SOURCE
 - EXIT, TRANSMISSION
 - ENTRY, NEW HOST
- **DIRECT TRANSMISSION**
 - BETWEEN INFECTED PERSONS
- **INDIRECT TRANSMISSION**
 - CONTACTING OBJECT OF INFECTED PERSON



THE BODY'S DEFENSE

- **SECRETIONS: TEARS, MUCOUS, SWEAT**
- **MUCOUS MEMBRANES: TRAP INVADERS, CILIA**
- **ENZYME & BLOOD CAUSES INVADERS TO BURST**
- **IMMUNE SYSTEM**
 - ANTIGEN/ANTIBODY RESPONSE
 - WHITE BLOOD CELLS
 - MACROPHAGES, PHAGOCYTES
 - LYMPHOCYTES: T-CELLS, B-CELLS
- **INTERFERON: PROTECTIVE PROTEINS**

BACTERIA

- **SEVERAL THOUSAND**
- **100 CAUSE DISEASE**
- **TOXINS**
- **ON SKIN AT ALL TIMES**
- **STAPHYLOCOCCAL...**
 - RESISTANT HOSPITAL STRAINS
- **STREPTOCOCCAL...**
 - STREP THROAT, SCARLET & RHEUMATIC
- **PNEUMONIA, TUBERCULOSIS, PERIODONTAL**



VIRUSES

- **SMALLEST PATHOGEN... 150 KNOWN**
- **ATTACH TO HOST CELL**
- **COMMON COLD:**
 - 100 DIFFERENT ONES
- **INFLUENZA: A-B-C**
- **MONONUCLEOSIS: EPSTEIN-BARR**
- **HEPATITIS:**
 - INFLAMMATION OF LIVER
 - A-INFECTIOUS, B-SERUM, NON A, NON B & D
 - MORE INDIVIDUALS AT RISK THAN HIV

TRANSMISSION OF STD'S

- **INTIMATE SEXUAL CONTACT**
 - INTERCOURSE, ORAL-GENITAL, HAND-GENITAL, ANAL
- **RARELY BY MOUTH-TO-MOUTH OR CONTACT WITH FLUIDS FROM SORES**
- **STD TRANSMISSION**
 - DARK, MOIST PLACES... MUCOUS MEMBRANES IN REPRODUCTIVE ORGANS
- **PATHOGENS SENSITIVE TO**
 - LIGHT, EXCESS HEAT, COLD, DRYNESS

MALES CHLAMYDIA FEMALES

- | | |
|--|---|
| PAIN IN URINATION,
WATERY, PUSLIKE
DISCHARGE | DISCHARGE, SPOTTING.,
OR NO SYMPTOMS |
| SECONDARY INFECTIONS
REPRODUCTIVE, ARTHRITIS,
HEART, DISEASES. | PID
BLOCKS FALLOPIAN
TUBES, STERILITY |
| 5x AS MANY AS GONORRHEA | 10%+ OF ALL COLLEGE
STUDENTS |
| MOST COMMON IN WHITE
HETEROSEXUALS | |

PELVIC INFLAMMATORY DISEASE (PID)

- UTERUS, FALLOPIAN TUBES, AND OVARIES
- UNTREATED STD'S
- SYMPTOMS:
 - INFLAMMATION - PAIN - MENSTRUAL
 - FEVER - NAUSEA, PAINFUL INTERCOURSE
- RISK FACTORS
 - AGE OF 1ST INTERCOURSE
 - MULTIPLE SEXUAL PARTNERS
- LONG-TERM CONSEQUENCES
 - TUBAL PREGNANCIES - INFERTILITY

GONORRHEA

- BACTERIA INFECTS LININGS OF URETHRA,
GENITAL TRACT, PHARYNX, RECTUM
- MALE
 - DISCHARGE - PAIN & BURNING
- FEMALE
 - 20% EXPERIENCE THE SYMPTOMS..
- CONTROLLED BY ANTIBIOTICS
 - ANTIBIOTIC RESISTANT

SYPHILIS

- PRIMARY SYPHILIS..
 - CHANCER (3-4 WEEKS AFTER)
 - DISAPPEAR IN 3-6 WEEKS
- SECONDARY SYPHILIS...
 - RASH/WHITE PATCHES ON MOUTH, THROAT, GENITALS
- LATENT SYPHILIS..
 - NO SYMPTOMS - RARELY TRANSMITTED
- LATE SYPHILIS...
 - YEARS LATER, HEART, SENSES, SENILITY

GENITAL WARTS

- ⇨ HUMAN PAPILLOMA VIRUSES (HPV)...
- PENETRATION OF SKIN OR MUCOUS LINING OF
GENITAL/ANAL LININGS (6-8 WEEKS)
- ⇨ MANY HAVE NO SYMPTOMS
 - PROTRUDING OR FLAT WARTS
- ⇨ MAY DISAPPEAR ON OWN OR GROW
- UNTREATED: DYSPLASIA (PRECANCEROUS
CONDITION)

HERPES


- BURNING SENSATION AT SITE OF ENTRY
- BLISTER CONTAINING VIRUS
- BLISTER DISAPPEARS
 - VIRUS TO BASE OF NERVE & LIES DORMANT
- SUSCEPTIBILITY
 - STRESS, DIET, IMMUNE SYSTEM, SUNLIGHT
- TREATMENT
 - ACYCLOVIR
- RISKS & CONSEQUENCES
 - CANCER, CEASAREAN DELIVERIES
- SAME VIRUS ON MOUTH OR GENITALS

ACQUIRED IMMUNE DEFICIENCY SYNDROME

- HUMAN IMMUNODEFICIENCY VIRUS
- MULTIPLE PARTNERS, UNPROTECTED SEX AND SHARING OF IV NEEDLES
- REPORTING HIV
 - 20 STATES REQ.
 - 12 REQ. ANONYMOUS
 - 18 DO NOT REQ. ANY
- ELISA & WESTERN BLOT



TRANSMISSION OF HIV

- BODY FLUIDS - SHARING NEEDLE 
- ENTRY: GENITALS-ANUS (MUCOUS MEMBRANES)
- VIRUS INVADES BLOOD & SPINAL FLUID
 - KILLS HELPER T-LYMPHOCYTES
 - DECREASES IMMUNITY
- NUMBER OF EXPOSURES
- MOTHER TO CHILD - UTERUS OR BIRTH CANAL
- NOT HIGHLY CONTAGIOUS

ALLERGY

- BODY PRODUCES ANTIBODIES IN RESPONSE TO
 - ANTIGENS (DUST, POLLEN, ETC)
 - ANTIBODIES TRIGGER HISTAMINE
 - DILATES BLOOD VESSELS, INCREASES MUCOUS & SWELLING
- HAYFEVER, ALLERGIC RHINITIS, ASTHMA
- AGE, STRESS LEVEL ARE FACTORS
- TREATMENTS: AVOIDANCE, ANTIHISTAMINE, SHOTS

HEADACHES

- TENSION HEADACHES...
 - TENSION IN NECK AREA OR HEAD. TX:
- MIGRAINE HEADACHES... (20% OF US)
 - ONE SIDE OF HEAD.
 - DILATION/CONSTRICTION OF BLOOD VESSELS
- SECONDARY...
 - SINUS, ALLERGIES, LOW BLOOD SUGAR,
 - ANXIETY, DEPRESSION, EMOTIONAL
- RELAXATION & VARIOUS DRUGS TO TREAT

SEIZURE DISORDERS

- EPILEPSY : ABNORMAL ELECTRICAL ACTIVITY IN BRAIN
- GRAND MAL: CONVULSIONS
- PETIT MAL: MINOR LOSS OF CONSCIOUSNESS
- PSYCHOMOTOR: REPETITIVE MOVEMENTS
- JACSONIAN SEIZURE: 1 PART OF BODY TO ANOTHER
- MEDICATION: ANTICONVULSANT & SURGERY

FEMALE DISORDERS

- FIBROCYSTIC BREAST CONDITION
 - HORMONAL, INHERITED, DIET
 - FLUID-FILLED OR FIBROUS (DRAIN/REMOVE)
- ENDOMETRIOSIS
 - AGES 20-40 - ABNORMAL GROWTH OF ENDOMETRIAL TISSUE (IN UTERUS)
 - IRREGULAR PERIODS & FLOW -PAIN
- PMS
 - 7-10 DAYS BEFORE PERIOD
 - HORMONAL, STRESS

DIABETES

- **INSUFFICIENT *INSULIN***
 - THIRST, URINATION, HUNGER, FATIGUE, SLOW HEALING, NUMBNESS/TINGLING, ETC.
- **15 MILLION (1/2 UNAWARE)**
- **IMPAIRED BLOOD CIRCULATION**
 - BLINDNESS, STROKE, KIDNEY PROBLEMS, LOSS OF LIMBS, SEVERE INFECTIONS
- **TYPE 1: INSULIN DEPENDENT- EARLY IN LIFE,**
- **TYPE 2: INSULIN PRODUCTION IS DEFICIENT**
 - ADULT ONSET
 - LIFESTYLE

MISCELLANEOUS

- **PEPTIC ULCER**
 - STOMACH or INTESTINE
 - STRESS, BACTERIA
- **LOW BACK PAIN**
 - 80% WILL DEVELOP
 - MAJOR CAUSE OF DISABILITY FOR AGES 20-45
 - MORE LOST WORK TIME THAN ANY OTHER
 - EXCEPT UPPER RESPIRATORY INFECTIONS
 - OVER \$18 BILLION YEARLY
 - STRENGTH & FITNESS PREVENT
 - STRESS, OCCUPATION, POSTURE CAUSE

CANDIDIASIS

- **YEAST FUNGUS OF VAGINAL TRACT**
 - BIRTH CONTROL PILLS, ANTIBIOTICS,
 - VAGINA LESS ACIDIC.
- **SYMPTOMS**
 - VAGINAL ITCHING, BURNING, VAGINITIS
 - WHITE CHEESY DISCHARGE
- **TX: ANTIFUNGAL DRUGS...**
- **AGGRAVATED BY**
 - SOAPS, CHLORINATED WATER, SPERMICIDES, TIGHT FITTING JEANS, PANTY HOSE

PUBIC LICE

- **SMALL PARASITES**
 - USUALLY DURING SEXUAL CONTACT, ATTACH TO PUBIC HAIR
- **WASH CLOTHING, FURNITURE, LINENS**
- **2-3 WEEKS TO KILL LARVAL FORMS**
- **CAN GET LICE ON INFECTED SHEETS**