



INFECTIOUS AND SEXUALLY TRANSMITTED DISEASES CHAPTER 19



SOME DEFINITIONS

- · PATHOGENS
 - DISEASE CAUSING AGENTS
- · AUTOINOCULATION
 - TRANSMISSION OF A DISEASE FROM ONE PART OF YOUR BODY TO AMOTHER
- TOXINS
 - POISONOUS SUBSTANCES



SESCEPTIBILITY

- MULTIFACTORAL
- INTERACTION OF SEVERAL FACTORS
- · ENVIRONMENT ACCEPTABLE
- · CHAIN OF INFECTION
- CARSATIVE AGENT
 - SOURCE
- DOT
- TRANSMISSION
- ENTRY
- REW HOST





CONTROLLABLE FACTORS

- · CONTROL STRESS
- · ECON MOTERTION
- MAINTAIN PHYSICAL FITNESS
- · HEALTHFOL SLEEP
- · CONTROL DRUGS/ALCOHOL
- REDUCE HIGH-RISK ACTIVITIES
- · GOOD PERSONAL HYGENE



DISEASE TYPES AND TRANSMISSION

- · DIRECT TRANSMISSION_
 - BETWEEN MIFESTED PERSONS
- · INDIRECT TRANSMISSION_
 - CONTACTING ORIECT OF INFECTED PERSON
- TYPES OF DISEASES
 - RESPIRATORY: COLDS & FLU
 - VECTOR-BORRE: LYME, MALARIA
 - ALVINE BISCHARGE BYSENTARY
 - OPEN LESION: STR'S, TUBERCULOSIS



THE BODY'S DEFENSE

- · SECRETIONS_
 - SWEAT, OIL GLANDS, TEADS), MUCOUS, FEVER
- · MUCCOUS MEMBRANES.
 - TRAP INVANERS, CILIA, ENZYMES IN INVCOUS
- · ENZYME & BLOOD CAUSES INVANERS TO BURST
- · IMMARE SYSTEM
 - ARTIGEN/ARTINODY RESPONSE, WHITE BLOOD CELLS. BESTROY
- · MITELFERON_
 - PROBUCES PROTECTIVE PROTEINS



BACTERIA

- · BACTERIA_
 - SEVERAL TROUSAND SPECIES
 - 100 CAUSEUS MARIE
 - PROBUCE TOXINS
- · STAPHYLOGOCCAL_
 - ON ONE SUMMATERIES
 - RESISTANT NOSPITAL STRANGS
- · STREPTOCOCCAL_S
 - STREP THROAT, SCARLET & RHEUMATIC FEMER
- PHEUMONIA, LIGIOUNANTE, TURRINGULOSIS, PERIODONIAL



VIRUSES

- · SMALLEST PATHOGEN_150 KNOWN
- · ATTACH TO HOST CELL
- · INCUBATION: DAYS MONTHS YEARS
- · COMMON COLD: 100 DIFFERENT ONES
 - MOST CONTAGIOUS IN FIRST 24 HOURS
- · INFLUENZA: A-B-C
- · MONONUCLEOSIS: EPSTEIN-BARR-CONTACT
- · HEPATITIS: INFLAMMATION OF LIVER
 - A-INFECTIOUS, B-SERUM, NON A, NON B & D
- MORE INDIVIDUALS AT RISK THAN HIV



OTHER INVADERS

- · FUNGI INFECTIONS
 - CANDIDIASIS (VAGINAL YEAST (REECTION), ATHLETE'S FOOT, RING WORM, ETC.
- · PROTOZOA
 - TROPICAL DISEASES LIKE AFRICAN SLEEPING SICKNESS, MALARIA. IN US. — TRICHOMONIASIS. A STD
- · PARASITIC WORMS
 - LARGEST PATHOGEN_PINWORMS TO TAPEWORMS



IMMUNE SYSTEM

- ANTIGENS PRODUCE IMMUNE RESPONSE
- BODY FORMS ANTIBODIES
- · "CELL-MEDIATED IMMUNITY"...
 - -FORMS LYMPHOCYTES
 - -CAN BESTROY VIRUS, FUNGI, PARASITES, SOME BACTERIA



IMMUNE RESPONSE

- · WHITE BLOOD CELLS
- MACROPHAGES, PHAGOCYTES
- -LYMPHOCYTES: T-CELLS, B-CELLS
- CIMMUNITY DEVELOPS THROUGH
 - -HAVING DISEASE
 - -VACCINE
- FIVER
- PAIN & INFLAMMATION



SYMPTOMS OF STD'S

MEH SYMPTOMS
BUMPS/BLISTERS
BURNING URINATION
SWELLING/REDRESS IN
THROAT
FEVER, CHILLS, ACRES
SWELLING OF LYMPH
HOBES HEAR CENTRALS
FREQUENT URINATION

PENIS DEIP/DISCHARGE

WOMEN'S SIGNS
YAGUMA
DISCHARGE/ODOR
PAIN IN
ARBO MEN'/PELVIC
AREA DURING SEX
BURN/ITCH
BLEEDING FROM YAGUMA



MODE OF TRANSMISSION

- · INTIMATE SEXUAL CONTACT
 - INTERCOURSE, ORAL-CENITAL, HAND-GENITAL, ANNUALLY
- RARELY BY MOUTH-TO-MOUTH OR CONTACT WITH FLUIDS FROM SORES
- STR TRANSMISSION
 - BARK, MOIST PLACES_MUCOUS MEMBRANES IN REPRODUCTIVE ORGANS
- PATHOGENS SENSITIVE TO
 - LIGHT, EXCESS HEAT, COLD, DRYMESS



CHLAMYDIA

- **8 5 x AS MANY AS CONCRANEA**
 - MOST COMMON IN WHITE INTEROSEXUALS
- () 10%+ OF COLLECE STUDENTS
- O MALES_
 - PAN IN URMATION, WATERY, PUSLIKE DISCHARGE
- O FEMALES.
 - RISCHARGE SPOTTING, OR NO SYMPTOMS
- D SECOMPARY INFECTIORS IN MALES
 - REPRODUCTIVE, ARTHRITIS, NEART, DISEASES.
- O PIR IN WOMEN:
 - BLOCKS FALLOPIAN TUBES, STERNLITY
- D ANTENOTICS TO TREAT



PELVIC INFLAMMATORY DISEASE (PID)

- · WTERES, FALLAPIAN TURES, AND OVARIES
- · UNTREATED STD'S
- · SYMPTOMS:
 - ACUTE INFLAMMATION PAIN
 - MERSTRUAL IRREGULARITIES
 - FEYER MAUSEAL
 - PAINFUL MTERCOURSE



PID (CONT.)

- RISK FACTORS
 - -AGE OF 1ST INTERCOURSE
 - MULTUPLE SEX PARTHERS
- LONG-TERM CONSEQUENCES
 - -TUBAL PREGNANCIES
 - -IYMFERTILIT



GONORRHEA

- BACTERIA INFECTS LIMINGS OF BRETHRA, GENITAL TRACT, PHARYNX, RECTUM
- · MAL
 - WHITE MILKY DISCHARGE
 - PAIN & BURNING (2-9 DAYS AFTER)
- FEMALE
 - 20% EXPERIENCE THE SYMPTOMS.
 - MAYBE ONLY SLIGHT FEVER
- · CONTROLLED BY ANTIBIOTICS
 - SOME BACTERIA ARE PENICULLIN-RESISTANT



SYPHILIS

- O PRIMARY SYPHILIS.
- CHANCRE' (3-4 WEEKS AFTER)
 - · FEMALE IT MAY BE INTERNAL...
- BISAPPEAR III 3-6 WEEKS
- O SECOMBARY SYPHILIS.
 - RASH/WHITE PATCHES OF MOUTH, THROAT, GENTALS, OTHER (MAY DISAPPEAR)
- O LATERT SYPHILIS.
 - HOT SYMPTOMS RARELY TRANSMITTED
- D LATE SYPHILIS.
 - MAY BE YEARS LATER, REART, GRS, BLIND, DEAF, PARALYSIS, SERILITY, INSAMITY

PUBIC LICE

- · SMALL PARASITES
 - OSBALLY BURNING SEXUAL CONTROL, ATTRON TO PURIC MAIR
- WASH CLOTHING, FURMITURE, LIMENS
- · 2-3 WEEKS TO KILL LARVAL FORMS
- · CAM GET LICE ON INFECTED SHEETS

GENITAL WARTS

- 🛘 HUMAN PAPILLOMA VIRUSES (NPV)...
 - PEMETRATION OF SKIN OR MUCOUS LIMING OF CENTRAL/AMAL LIMINGS (6-8 WEEKS)
- D MANY HAVE NO SYMPTOMS
 - PROTEORING OR FLAT WANTS
- D MAY DISAPPEAR ON OWN OR GROW
- JF NOT TREATER BYSPLASIA (PRECAMCEROUS CONDITION)



CAMDIDUSIS

- YEASTLINE FUNCES OF WACHIAL TRACT
- CHITH COUTEOL PALLS, ANTENOTICS.
 - · MAKE YACMA LESS ACIBIC.
- · SYMPTOMS
 - WASHALITEMME
 - WINTE CHEESY DISCHARGE
- REITATION, RUREIME_"YACIMITIS"_
- · TX: ANTE-VIGAL BRUGS...
- · AGGRAVATED BY
 - SOAPS, CHLORINATED WATER, SPERMICIDES, TIGHT FITTING JEARS, PARTY ROSE



EEPES

- SORES OR ERUPTIONS ON THE SKINL
- "HERPES SIMPLEX" CAUSED BY VIRUS
 - -1 = COLD SORES & FEVER BLISTERS
 - -2 = GENITAL SORES & BLISTERS
- MOST HAVE HERPES VIRUS BY 5 YRS.



GENITAL MERPES

- · BURNING SENSATION AT SITE OF ENTRY
- C BLISTER CONTAINING VIRUS (AUTOMOCOLATE)
- BUSTER DISAPPEARS
 - VIRUS TO BASE OF HERVE & LIES DORMANT
- C SUSCEPTIBILITY
 - STRESS, DIET, IMMUNE SYSTEM, SUNLIGHT
- TREATMENT
 - ACYCLOVIE
- · RISKS & CONSEQUENCES
 - CANCER, CEASAREAN DELIVERIES



"BUMAN IMMONODEFICIENCY VIRUS"

- MULTIPLE PARDONERS, UNPROTECTED SEX AND SHARING OF IV MEEDLES
- · REPORTING HIV
 - -20 STATES REO.
 - -12 REQ. AMONYMOUS
 - -18 DO NOT REQ. AMY





TRANSMISSION OF BIV

- · TRANSMITTED BY BOBY FLUIDS
 - SHARING MEEDLE
- ENTRY-MUCOUS MEMBRANES OF GENTAL ORGANS AND THE ANUS
- · VIRUS INVARES BLOCK & SPINAL FLUID
 - KHILS HELPER T-LYMPHOCYTES
 - DECREASES MINUMITY
- · HUMBER OF EXPOSURES
- · MOTHER TO CHILD-UTERUS OR BIRTH CANAL
- · AIRS IS NOT MIGHLY CONTAGIOUS



AIDS SYMPTOMS

- MAY BE SYMPTOM-FREE FOR YEARS
- · IN ADULTS
 - 8-10 YEARS BEFORE BEFORE IMMUNE SYSTEM DEGENERATES
- PRE-AID SIGHS
 - COLBS, SORE THROATS, FEVER, TIREDNESS, NAUSEA, NIGHT SWEATS



HIV TESTS

- ELISA_A TEST FOR PRESENCE OF ANTIRODIES
- WESTERN BLOT_IMORE EXPENSIVE) TO CONFIRM POSITIVE FLISA
- · FALSE POSITIVES & FALSE HEGATIVES ARE Possible for noth testsi
- TX: DIFFERENT DRUGS ARE USED TO PROLONG LIFE_BUT NO CURE_EXCEPT ABSTINENCE_OR SAFE MONOCAMY_CONDOMS CAM FAIL TOO



ALLERGY

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



MEHROLOGICAL DISORDERS

- MEADACHES_DILATED BLOOD VESSELS IN THE BRAIN, ORGANIC PROBLEMS, STRESS & AUXIETY
 - TENSION HEADACHES_
 - TERSTON IN NECK AREA ON HEAR. TX:
 - ANYTHING THAT BRINGS RELAXATION
 - MIGRAINE NEADAGNES_120% OF US)
 - · ONE SIDE OF HEAD.
 - BILATION/CONSTRUCTION OF BLOOD VESSELS
 - RELAXATION. OR STRONG DRUGS
- SECONDARY_
 - · SINUS, ALLERGIES, LOW BLOOD SUGAR, ETC.
 - AUXIETY, DEPRESSION, EMOTIONAL



SEIZURE DISORDERS

- EPILEPSY ("SEIZURE") ABNORMAL ELECTRICAL
 ACTIVITY IN BRAIN
- GRAND MAL: CONVULSIONS
- PETIT MAL: MINOR LOSS OF CONSCIOUSNESS
- PSYCHOMOTOR: MENTAL CONFUSION WITH REPETITIVE MOVEMENTS
 - JACSONIAN SEIZURE PROGRESSIVE FROM 1 PART of Body to Another.
 - <u>Causes:</u> Nead Nurry, Concentral, Drugs,
 ETC.
 - MEDICATION: ANTICONVOLSANT & SURGERY



FEMALE DISORDERS

- · FIRROCYSTIC BREAST COUDITION
 - KORMONAL, MEETITIA
 - FLUID-FILLED OR FIREOUS CHAME/REMOVED
 - CAFFEINE, WIGH FAT
- · ENDOMETRIOSIS
 - AGES 20-40 ARRORMAL GROWTH OF EMPONETRIAL TISSUE(UTERUS)
- MREGULAR PERIORS & FLOW-BLOATING
- · PMS
 - 7-10 BAYS BEFORE PERIOD
 - HORMOHAL, STRESS
 - AFFECTS 28-48%



DIGESTIVE-RELATED DISORDERS

DUMETES

- PARCREAS PRODUCES INSUFFICIENT ANSWER TO USE OR STORE GLUCOSE (ELEVATED BLOOD SHEART
 - · SYMPTOMS: EXCESSIVE THREST, FREE, DEMATHON, PRINCES, INCOMESSIVE CHARGE, VICENCES, STATE CHARGES, STATE CHARGE
- SERIOUS: IMPARTED BLOOD CIRCULATION. BLUMBESS, STROKE, KIDNEY PROBLEMS, LOSS OF LIMBS, SEVERE MITECTIONS



DIABETES

- · TYPE 1_
 - INSULM DEPENDENT)
 - EARLY IN LIFE, "
- TYPE 2_
 - INSULIN PRODUCTION IS DEFICIENT.
- CONTROLLER BY RIET, EXERCISE, WEIGHT CONTROL
- ADVIT OKSET: MJECTION/ORAL
- · RUMS IM FAMILIES, OVER WEIGHT, INACTIVITY_STRESS, ILLNESS, ALCOHOL, SMOKING



CASTROINTESTIMAL

- · COUTES.
 - MIFLAMMATION OF LARGE INTESTINE WALL
 - BLOODY MARRIES, CRAMPS,
 - STEESS, FOORS
 - COLORECTAL CANCER.
- · IRRITABLE BOWEL SYNDROME
 - HARSEA, PAIR, GAS, DIARRIEA, STRESS,
- · PEPTIC MEFR
 - LIMING OF STOMACH OR SMALL INTESTIME
 - STRESS, BACTERIA



LOW BACK PAIN (LBP)

- · 80% WILL SUFFER
- MAJOR CAUSE OF DISABILITY FOR AGES 20-45 IN US. CSUFFER MORE THAM OLDER PEOPLE
- MORE LOST WORK TIME THAN ANY OTHER MUNESS EXCEPT UPPER RESPIRATORY
- LBP COSTS INDUSTRY OVER \$18 BILLION YEARLY
- · STRENGTH & FITNESS PREVENT
- STRESS, OCCUPATION, POSTURE CAUSE



ARTHRITIS

- · 1117 AMERICANS
- · OSTEOARTERITIS
 - BETERIORATION OF WEIGHTBEARING JOHNTS.
 - IEIGHW WENTER WILLIAM IN MEDICAL IN STELLING DECUE.
- MINNY, MERCHYTY, MARGAMAE JOINT USE
- · BREVMATOR ARTURITIS
 - AFTHERMEN MISERSE-MESS 20-45
 - JOHN INFLAMMATICAL & DESTROCTION
 - KERENTY
- · ANTI-IMPLANMATORY, STEROIDS, GOLD SHOTS, CHEMOTREBAPY



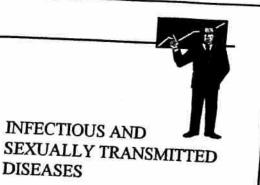
SUBDEN INFANT DEATH SYNDROME (SIDS)

- LEADING CAUSE OF DEATH FROM 1 WEEK TO 1 YEAR OF AGE
- · 1500 IMFANT DEATHS
- MORE COMMON AMONG BOYS
- · PREMATURE OR LOW BIRTH WEIGHTS
- · MORE FREO_IN COLD WEATHER
- · MORE COMMON IN CHILDREN OF SMOKERS
- BARIES DIE DURING SLEEP
- · DISEUPTION OF OXYGEN TO FETUS



RESPIRATORY PROBLEMS

- **EMPHYSEMA**
 - DESTRUCTION OF ALVEOLI LAIR SACS OF LUNGS), DIFFICULT TO EXHALE
- CHRONIC BRONCHITIS.
 - BRONCHIAL TUBES BECOME INFLAMED & SWOLLEL SYMPTOMS ARE PRODUCTIVE COUGH & SHORTNESS OF BREATH.



SOME DEFINITIONS

- PATHOGENS...DISEASE CAUSING **AGENTS**
- ENDOGENOUS MICROORGANISMS...LIVE IN PEACEFUL COEXISTENCE WITH
- EXOGENOUS MICROORGANISMS...DO NOT NORMALLY INHABIT THE BODY
- AUTOINOCULATION...TRANSMISSION OF A DISEASE FROM ONE PART OF YOUR BODY TO ANOTHER
- TOXINS...POISONOUS SUBSTANCES

WHAT MAKES YOU SUSCEPTIBLE TO DISEASE?

DISEASES

- MOST DISEASES ARE MULTIFACTORAL... THE INTERACTION OF SEVERAL FACTORS BOTH INSIDE AND OUTSIDE THE PERSON.
- FOR A DISEASE TO OCCUR THE HOST MUST BE SUSCEPTIBLE
- AN AGENT CAPABLE OF DISEASE MUST BE PRESENT
- ENVIRONMENT MUST BE ACCEPTABLE
- OTHER RISK FACTORS INCREASE OR DECREASE SUSCEPTIBILITY

UNCONTROLLABLE RISK **FACTORS**

- · HEREDITY...
 - PARENTS LONGEVITY IS A BIG FACTOR;
 - CHROMOSOMES OR INHERITED IMMUNE DEFICIENCIES
- ▼ <u>AGING...</u>
 - AFTER 40 WE BECOME TARGETS! OUR IMMUNE SYSTEMS DECLINE
- * ENVIRONMENT...
 - POOR SANITATION, DRUGS, CHEMICALS, HAZARDOUS WASTE...THESE WEAKEN IMMUNE SYSTEMS

CONTROLLABLE FACTORS

- CONTROL STRESS
- GOOD NUTRITION
- MAINTAIN PHYSICAL FITNESS
- HEALTHFUL SLEEP
- CONTROL DRUGS/ALCOHOL
- ▼ REDUCE HIGH-RISK ACTIVITIES
- GOOD PERSONAL HYGIENE

THE INVASION

- DIRECT CONTACT...BETWEEN INFECTED PERSONS
- INDIRECT CONTACT...CONTACTING OBJECT OF INFECTED PERSON
- AIRBORNE CONTACT...
- FOOD-BORNE INFECTION...
- ANIMAL-BORNE INFECTION...
- WATER-BORNE INFECTION...

THE BODY'S DEFENSE

- SECRETIONS...SWEAT, OIL GLANDS, WAX, TEARS), MICOUS, FEVER
- MUCOUS MEMBRANES...TRAP INVADERS, CILIA, ENZYMES IN MUCOUS
- ENZYME & BLOOD CAUSES INVADERS TO BURST
- IMMUNE SYSTEM ... ANTIGEN/ANTIBODY RESPONSE, WHITE BLOOD CELLS, DESTROY
- INTERFERON... PRODUCES PROTECTIVE PROTEINS

THE INVADERS...BACTERIA

- BACTERIA...SEVERAL THOUSAND SPECIES, ABOUT 100 CAUSE US HARM... PRODUCE TOXINS
- STAPHYLOCOCCAL...ON OUR SKIN ALL THE TIME, PROBLEM IF EPIDERMIS BREAKS DOWN
- STREPTOCOCCAL...STREP THROAT, SCARLET
 & RHEUMATIC FEVER
- PNEUMONIA...
- * LEGIONNAIRE'S...
- TUBERCULOSIS...
- → PERIODONTAL DISEASES...

THE INVADERS...VIRUSES

- → SMALLEST PATHOGEN...150 KNOWN
- ATTACH TO HOST CELL & INJECT THEIR OWN RNA & DNA
- INCUBATION PERIODS THAT MAY LAST FOR MONTHS OR YEARS
- THE COMMON COLD...100 DIFFERENT ONES, MOST CONTAGIOUS IN FIRST 24 HOURS
- ▼ INFLUENZA...3 MAJOR FORMS -A-B-C
- → MONONUCLEOSIS... EPSTEIN-BARR-CONTACT
- HEPATITIS-INFLAMMATION OF LIVER ... A-INFECTIOUS, B-SERUM, NON A, NON B & D.

OTHER INVADERS

- FUNGL...MANY ARE USEFUL, SOME PRODUCE INFECTIONS - CANDIDIASIS (VAGINAL YEAST INFECTION), ATHLETE'S FOOT, RING WORM, ETC.
- PROTOZOA...TROPICAL DISEASES LIKE AFRICAN SLEEPING SICKNESS, MALARIA. IN U.S. – TRICHOMONIASIS, A STD
- PARASITIC WORMS...LARGEST PATHOGEN...PINWORMS TO TAPEWORMS

THE FIGHTING BODY

- IMMUNITY...
 - ANTIGENS PRODUCE IMMUNE RESPONSE (CAN BE A VIRUS, BACTERIA, FUNGUS, PARASITE, ETC.)
- WHEN ANTIGEN INVADES, BODY FORMS ANTIBODIES
- "CELL-MEDIATED IMMUNITY"...
 - FORMS LYMPHOCYTES THAT CAN DESTROY VIRUS, FUNGI, PARASITES, SOME BACTERIA

SPECIALIZED WHITE BLOOD CELLS

- MACROPHAGES
- PHAGOCYTIC (CELL-EATING)
- LYMPHOCYTES (WHITE BLOOD CELLS)
 1. T-CELLS 2. B-CELLS
- IMMUNITY
 - HAVING DISEASE
 - VACCINE
- ← FEVER
- C PAIN



SYMPTOMS OF STD'S

BUMPS/BLISTERS
BURNING URINATION
SWELLING/REDNESS IN
THROAT
FEVER, CHILLS, ACHES
SWELLING OF LYMPH
NODES NEAR
GENITALS
FREQUENT URINATION

PENIS DRIP/DISCHARGE

MEN SYMPTOMS

VOMEN'S SIGNS
VAGINAL
DISCHARGE/ODOR
PAIN IN
ABDOMEN/PELVIC
AREA DURING SEX
BURN/ITCH
BLEEDING FROM
VAGINA

MODE OF TRANSMISSION

- → INTIMATE SEXUAL CONTACT...INTERCOURSE, ORAL-GENITAL, HAND-GENITAL, ANNUALLY
- ▼ RARELY BY MOUTH-TO-MOUTH OR CONTACT WITH FLUIDS FROM SORES
- * STD PATHOGENS LIKE DARK, MOIST PLACES...MUCOUS MEMBRANES IN REPRODUCTIVE ORGANS
- ▼ THESE PATHOGENS DO NOT LIKE LIGHT, EXCESS HEAT, COLD, DRYNESS

CHLAMYDIA

- 0 MOST COMMON AMONG WHITE HETEROSEXUALS
- 0 AFFECTS 5x AS MANY AS GONORRHEA
- OVER 10% OF COLLEGE STUDENTS
- MALES...PAIN/DIFFICULT URINATION, WATERY/PUSLIKE DISCHARGE
- o FEMALES...YELLOWISH DISCHARGE, SPOTTING...AND MANY NO SYMPTOMS
- a SECONDARY INFECTIONS: MALES REPRODUCTIVE, ARTHRITIS, HEART, DISEASES,
- O PID IN WOMEN; BLOCKS FALLOPIAN TUBES, STERILITY
- D ANTIBIOTICS TO TREAT

PELVIC INFLAMMATORY DISEASE (PID)

- INFECTIONS OF UTERUS, FALLOPIAN TUBES, AND OVARIES
- RESULT OF UNTREATED STD'S OR
- EXCESSIVE DOUCHING, SMOKING, AND DRUGS

SYMPTOMS:

- ACUTE FLAMMATION
- PAIN IN ABDOMEN
- MENSTRUAL IRREGULARITIES
- FEVER- NAUSEA,
- PAINFUL INTERCOURSE
- TUBAL PG'S
- DEPRESSION (SEVERE)
- RISK FACTORS...AGE AT 1ST INTERCOURSE, MULTIPLE SEX PARTNERS, HI FREQUENCY OF SEX, CHANGE OF SEY PARTNERS

GONORRHEA

- BACTERIA INFECTS LININGS OF URETHRA, GENITAL TRACT, PHARYNX, RECTUM
- MALE: WHITE MILKY DISCHARGE, PAIN & BURNING (2-9 DAYS AFTER)
- FEMALE: OPPOSITE FROM MEN, ONLY 20% EXPERIENCE THE SYMPTOMS...MAYBE ONLY SLIGHT FEVER
- CONTROLLED BY ANTIBIOTICS, SOME BACTERIA MAY BE PENICILLIN-RESISTANT

SYPHILIS

- 0 PRIMARY SYPHILIS...
 - MALE = CHANCRE (3-4 WEEKS AFTER)
 - FEMALE IT MAY BE INTERNAL...
- DISAPPEAR IN 3-6 WEEKS
- **0 SECONDARY SYPHILIS...**
 - RASH/WHITE PATCHES OF MOUTH, THROAT, GENITALS, OTHER (MAY DISAPPEAR)
- 0 LATENT SYPHILIS..
- .RARE TRANSMITTED
- O LATE SYPHILIS ...
 - MAY BE YEARS LATER, HEART, CNS, BLIND, DEAF, PARALYSIS, SENILITY, INSANITY

PUBIC LICE

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

VENEREAL WARTS

- 0 VIRUS...HUMAN PAPILLOMA VIRUSES (HPV)...
 - PENETRATION OF SKIN OR MUCOUS LINING OF GENITAL/ANAL LININGS (6-8 WEEKS AFTER CONTACT)
- B MANY HAVE NO SYMPTOMS
 - PROTRUDING OR FLAT WARTS
- MAY DISAPPEAR ON OWN OR GROW HUGE TO INTERFERING WITH NORMAL FUNCTIONS.
- IF NOT TREATED = DYSPLASIA (PRECANCEROUS CONDITION)

CANDIDIASIS

- YEASTLIKE FUNGUS INHABITS VAGINAL TRACT OF MOST WOMEN...
 - BIRTH CONTROL PILLS, DIFFERENT ANTIBIOTICS, MAKING VAGINA LESS ACIDIC.
- SIGNS:
 - VAGINAL ITCHING, WHITE CHEESY DISCHARGE, IRRITATION, BURNING..."VAGINITIS"...IN MOUTH "THRUSH"
- TX: ANTIFUNGAL DRUGS...
- SOME HAVE CHRONIC RECURRENT INFECTIONS
- AGGRAVATED WITH SOAPS, CHLORIWATED WATER, SPERMICIDES, TIGHT FITTING JEANS, PANTY HOSE

HERPES

- → SORES OR ERUPTIONS ON THE SKIN.
- "HERPES SIMPLEX" CAUSED BY VIRUS
 - 1 = COLD SORES & FEVER BLISTERS
 - 2 = GENITAL SORES & BLISTERS
- MOST HAVE HERPES VIRUS BY 5 YRS.

GENITAL HERPES

- 1. MUST GAIN ENTRANCE TO BODY
- 2. BURNING SENSATION AT SITE OF ENTRY
- 3. BLISTER APPEARS CONTAINING VIRUS (CAN AUTOINOCULATE)
- 4. BLISTER DISAPPEARS AND VIRUS TRAVELS TO BASE OF AN AFFECTED NERVE AND LIE DORMANT
- STRESS, INADEQUATE DIET, IMMUNE SYSTEM OVERWORKED, EXCESSIVE EXPOSURE TO SUNLIGHT - BLISTERS!

GENITAL HERPES

- **→** CESAREAN DELIVERIES
- → CERVICAL CANCERS RISK
- **→ NO CURE PRESENTLY EXISTS**
- NOT TRANSFERABLE ALL THE TIME
- SOME DRUGS RELIEVE SYMPTOMS (BUT MOST EFFECTIVE WITHIN FEW HOURS AFTER CONTACT)

ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

- OVER 1 MILLION INFECTED IN US.,
- "HUMAN IMMUNODEFICIENCY VIRUS" (HIV)
- MULTIPLE PARDONERS, UNPROTECTED SEX AND SHARING OF IV NEEDLES
- REPORTING HIV
 - 20 STATES REQ. REPORTING
- 12 REQ. ANONYMOUS REPORTING
- 18 DO NOT REQ. ANY REPORTING



TRANSMISSION OF HIV

- AIDS TRANSMITTED BY BODY FLUIDS
- BLOOD TRANSFUSION SHARING NEEDLE
- BEST ENTRY IS MUCOUS MEMBRANES OF GENITAL ORGANS AND THE ANUS
- A BREAK IN THE MUCOUS MEMBRANES, VIRUS BEGINS TO GROW
- VIRUS INVADES BLOOD & SPINAL FLUID
 - KILLS HELPER T-LYMPHOCYTES
- DECREASES IMMUNITY
- NUMBER OF EXPOSURES
- ▼ MOTHER TO CHILD UTERUS OR BIRTH CANAL
- AIDS IS NOT HIGHLY CONTAGIOUS

AIDS SYMPTOMS

- MAY BE SYMPTOM-FREE FOR MONTHS
- IN ADULTS...8-10 YEARS BEFORE BEFORE IMMUNE SYSTEM DEGENERATES
- PRE-AID SIGNS: COLDS, SORE THROATS, FEVER, TIREDNESS, NAUSEA, NIGHT SWEATS

HIV TESTS

- ▼ ELISA...A TEST FOR PRESENCE OF ANTIBODIES
- WESTERN BLOT...(MORE EXPENSIVE) TO CONFIRM POSITIVE ELISA
- FALSE POSITIVES & FALSE NEGATIVES ARE POSSIBLE FOR BOTH TESTS!
- TX: DIFFERENT DRUGS ARE USED TO PROLONG LIFE...BUT NO CURE...EXCEPT ABSTINENCE...OR SAFE MONOGAMY...CONDOMS CAN FAIL TOO

NONINFECTIOUS CONDITIONS

- ALLERGY-INDUCED PROBLEMS
 - BODY ATTEMPTS TO DEFEND ITSELF SPECIFIC ANTIGEN/ALLERGENS BY PRODUCING ANTIBODIES
- EXCESSIVE ANTIBODIES PRODUCED WHICH TRIGGER THE RELEASE OF HISTAMINES (CHEMICALS THAT DILATE BLOOD VESSELS, INCREASE MUCOUS SECRETIONS, TISSUES
- ALLERGIES MAY WORSEN WITH AGE

RESPIRATORY PROBLEMS

- HAY FEVER (SEASONAL USUALLY) RAGWEED AND FLOWERS BLOOMING
- INHERITED, OVERZEALOUS IMMUNE SYSTEM
- ANTIHISTAMINES OR INJECTIONS
- <u>ASTHMA (</u>SOMETIMES WITH HAY FEVER)
 - SHORT ATTACKS OF WHEEZING
 - IN, BREATHING DIFFICULTIES.
 - CAN CAUSE DEATH
- SOME OUTGROW THE CONDITION.
- VARIOUS TRIGGER ATTACK, OR EXERCISE
- BETTER INHALERS AVAILABLE
- ALLERGIC RHINITIS-YEAR AROUND