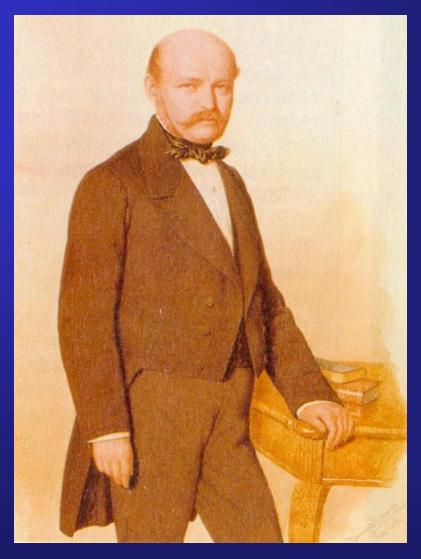
LECTURE 10

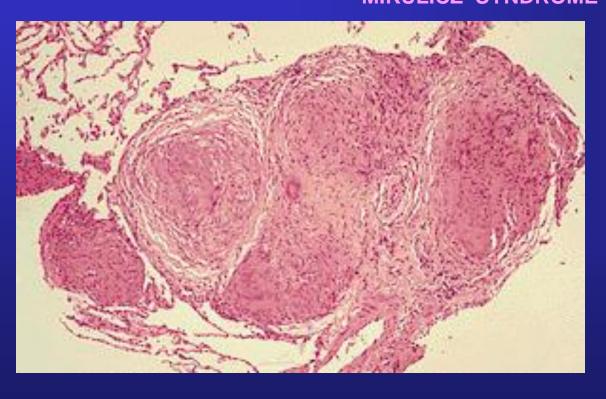


IGNAZ PHILIPP SEMMELWEIS (1818-1865)
PUERPERAL FEVER

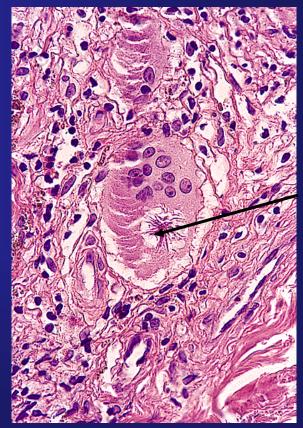
SARCOIDOSIS

DISEASE OF UNKNOWN ETIOLOGY. CHARACTERISTIC IS THE APPEARANCE OF NONCASEIFIED GRANULOMAS IN MANY ORGANS

GRANULOMAS TEND TO UNDERGO FIBROSIS. PULMONARY AND OTHER THORACIC LYMPH NODES ARE THE MOST COMMON LOCATIONS OF THESE CHANGES. CHANGES LOCATED IN THE PAROTID AS WELL AS IN THE EYE (IRIDOCYCLITIS) ARE CALLED MIKULICZ SYNDROME







CHARACTERISTIC ASTEROID BODY IN A GIANT CELL IN SARCOIDOSIS

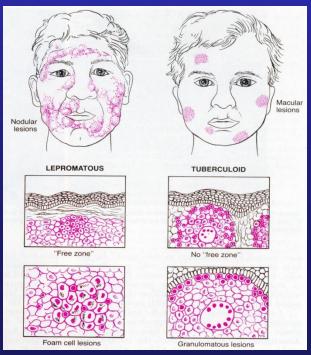
LEPRA (HANSEN DISEASE)

INFECTIOUS DISEASE CAUSED BY MYCOBACTERIUM LEPRAE, INVOLVING SKIN AND PERIPHERAL NERVES. TRANSMITTED VIA PULMONARY TRACT.

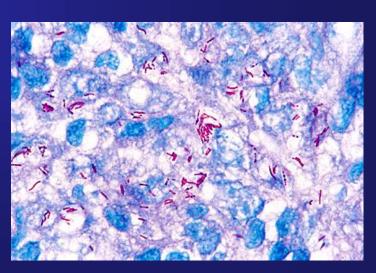
TWO FORMS OF LEPRA ARE DEPENDING ON THE ORGANISM'S IMMUNITY: IN HIGH LEVEL IMMUNITY REACTION MONITORED BY T LYMPHOCYTES - LEPRA TUBERCULOIDES, IN THE CASE OF ANERGY – LEPRA LEPROMATOSA.

IN BOTH CASES OF LEPRA IT REACHES THE PERIPHERAL NERVES → DESTRUCTION OF SENSORY ENDINGS. THERE IS A LACK OF GREATER CHANGES IN THE INTERNAL ORGANS WITH THE EXCEPTION OF THE TESTICLES IN L.LEPROMATOSA

THE LACK OF FEELING RESULTS IN MANY INJURIES WITH NON-HEALING ULCERATION, RECURRENT INFECTIONS, SPASMS, PARALYSIS AND SELF-AMPUTATION



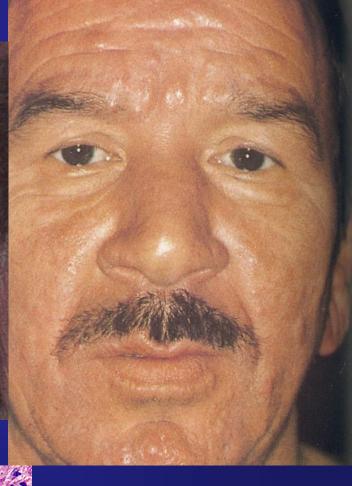
DIFFERENCES
BETWEEN TWO
TYPES OF
LEPRA



MYCOBACTERIUM IN NERVE

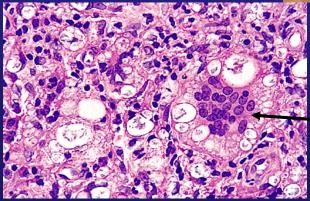
LEPRA





LEPRA TUBERCULOIDES

VIRCHOFF CELLS IN INFLAMMATORY INFILTRATION CONTAINING MYCOBACTERIUM



LEPRA LEPROMATOSA – FACIES LEONTINA

BACTERIAL ZOONOSIS

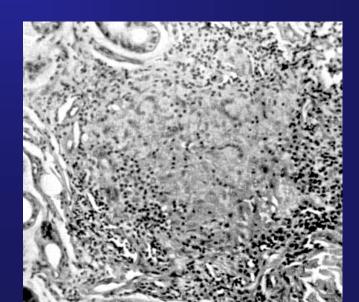
ANTHRAX, PUSTULA MALIGNA (BACILLUS ANTHRACIS)



TULAREMIA (PASTEURELLA TULARENSIS)



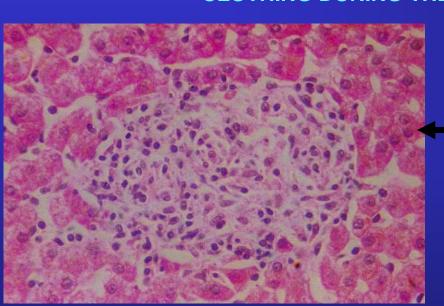
LISTERIOSIS
(LISTERIA MONOCYTOGENES)



BACTERIAL ZOONOSIS

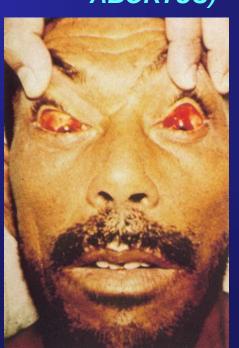
BLACK PLAGUE – PESTIS

(YERSINIA PESTIS)
RECOMMENDED "SMOKY" DOCTOR
CLOTHING DURING THE EPIDEMIC







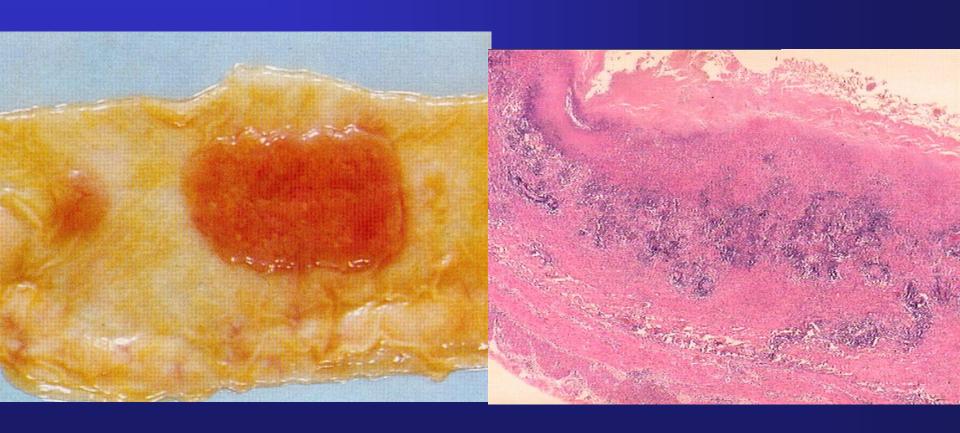


INTESTINAL BACTERIAL INFECTIONS

TYPHOID FEVER - TYPHUS ABDOMINALIS

SALMONELLOSIS
(SALMONELLA TYPHI ETC.)

FOUR STAGES OF TYPHOID FEVER



STAGE I – INTUMESCENTIAE MEDULLARIS

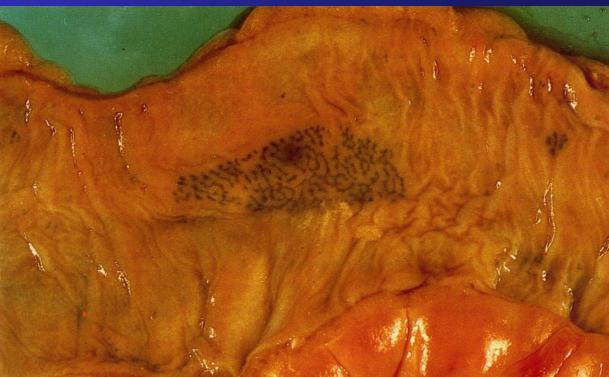
STAGE II - ESCHARISATIONIS

INTESTINAL BACTERIAL INFECTIONS

TYPHOID FEVER, SALMONELLOSIS

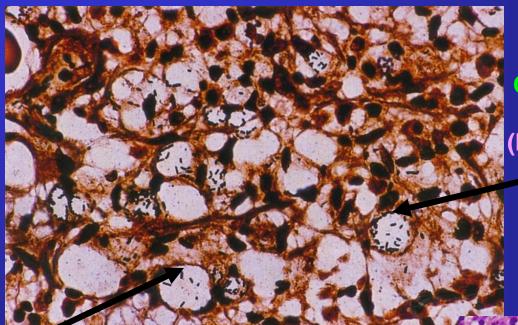


STAGE III – ULCERATIONIS



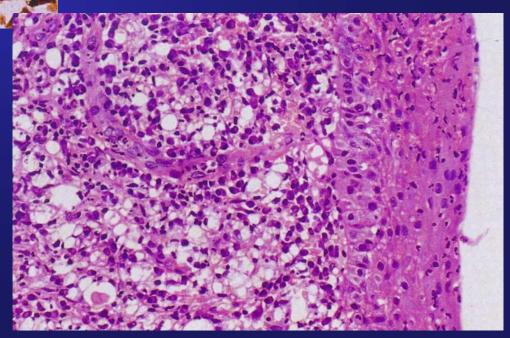
STAGE IV - DEPURATIONIS
ULCERUM - ULCERATIONS
HEAL WITHOUT SCARRING (!)
BLACK SULPHIDE REMAINS IN
PLACE OF PEYER'S PATCHES
(PICTURE OF: THE CHIN OF AN
UNSHAVED BROWN-HAIRED MAN)

RHINOSCLEROMA



INFLAMMATORY INFILTRATION
CONSISTING OF PLASMA CELLS
AND FOAMY CYTOPLASM
(MIKULICZ CELLS). (KLEBSIELLA
RHINOSCLEROMATIS IN
VACUOLES)

INFLAMMATORY
INFILTRATION CONSISTING
OF MIKULICZ CELLS

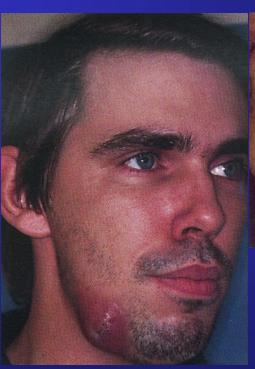


ACTINOMYCOSIS

CHRONIC SUPPURATIVE INFLAMMATION WITH STRONG STROMAL FIBROSIS, PRODUCTION OF FISTULAS CAUSED BY – MAINLY - ACTINOMYCES BOVIS.

THE MICROORGANISM PRODUCES LARGE COLONIES OF CHARACTERISTIC APPEARANCE, LACKING INVASIVENESS



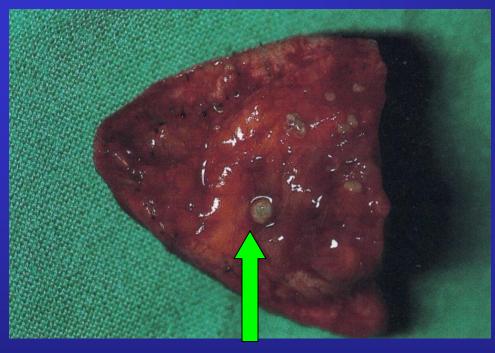




MOST COMMON LOCALISATION – HARD-NECK WITH FISTULA

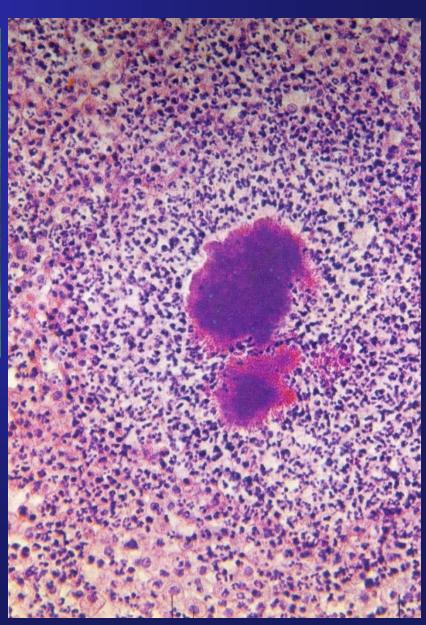
BESIDE THE "HARD-NECK" TYPE, WE CAN ALSO OBSERVE PULMONARY TYPE, GASTROINTESTINAL TYPE (APPENDIX AND CECUM) AS WELL AS THE GENITAL TYPE (WOMEN). IN PULMONARY TYPE VERY RARELY METASTATIC ABCESSES TO THE BRAIN, IN INTESTINAL TYPE FREQUENT METASTATIC ABSCESSES TO THE LIVER $(\rightarrow A)$

ACTINOMYCOSIS



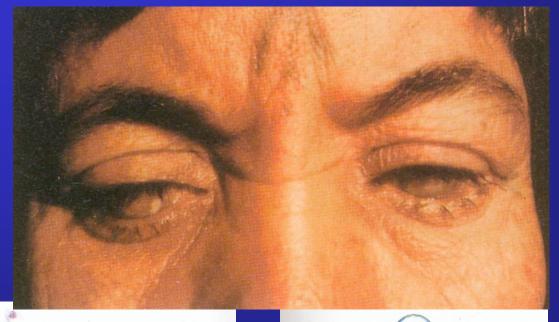
SURGICAL SPECIMEN WITH INFLAMMATORY CHANGES AND ACTINOMYCOTIC ABCESSES

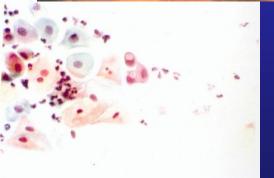
MICROSCOPIC PICTURE OF ACTINOMYCOTIC ABCESS WITH TYPICAL A. COLONY

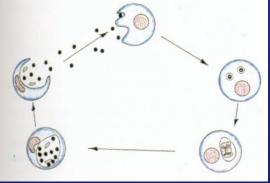


DISEASES CAUSED BY CHLAMYDIA

MANY SPECIES/TYPES CHLAMYDIA TRACHOMATIS







TRACHOMATOUS
GRANULOMA TRACHOMA





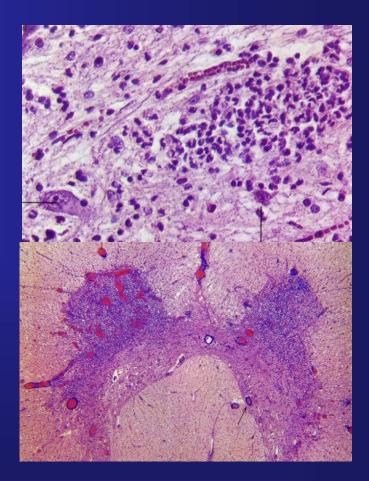
GRANULOMA OF GROIN –
VENEREAL
LYMPHOGRANULOMA

DISEASES CAUSED BY VIRUSES

MOST OF VIRUSES HAVE THE ABILITY TO REPRODUCE IN ONE OR FEW TYPES OF CELLS ONLY. VIRAL INFECTION IS ACCOMPANIED BY THE PRESENCE OF INCLUSION BODIES IN THE CYTOPLASM. THE MAIN COMPONENT OF CELLULAR INFILTRATION IS LYMPHOCYTE

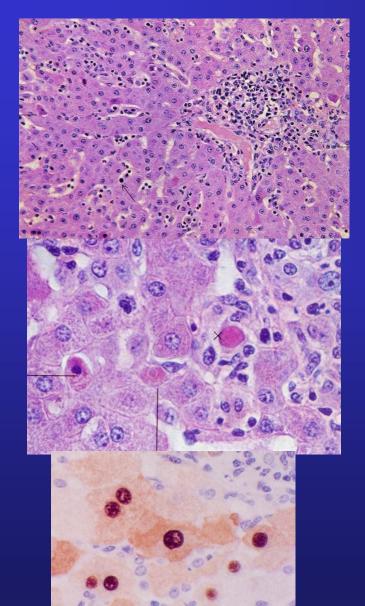




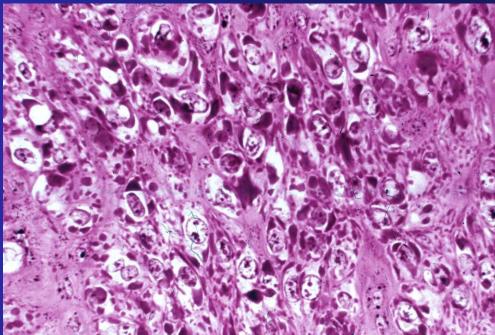


POLIOMYELITIS ANTERIOR ACUTA

DISEASES CAUSED BY VIRUSES



EPIDEMIC HEPATITIS



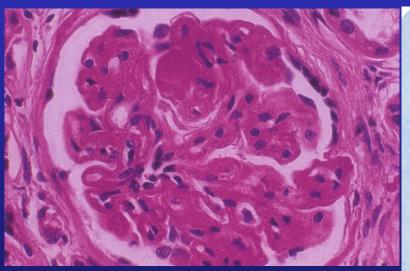


VERRUCAE VULGARES – COMMON WARTS

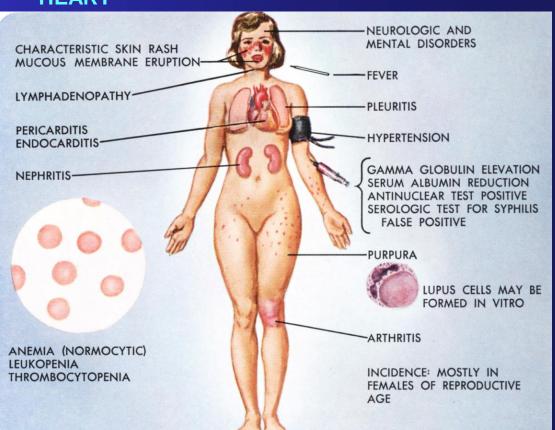
LUPUS ERYTHEMATOSUS

CLASSIC MULTIORGAN DISEASE OF AUTOIMMUNOLOGICAL ORIGIN. CHARACTERISTIC IS THE PRESENCE OF A SERIES OF AUTOANTIBODIES, ESPECIALLY ANTINUCLEAR ANTIBODIES.

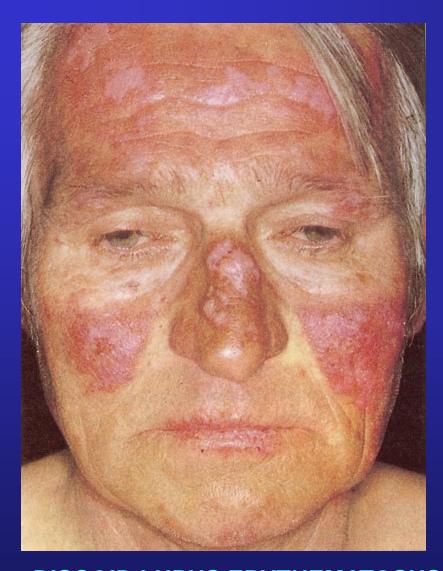
MOST COMMONLY AFFECTED:
SKIN
JOINTS
KIDNEYS
SEROUS MEMBRANES
HEART



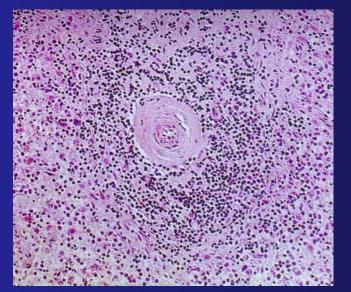
LUPOID GLOMERULOPATHY

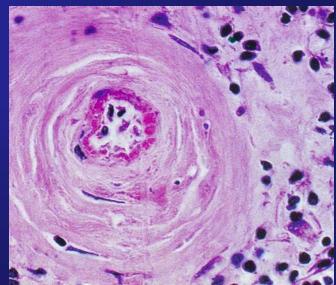


LUPUS ERYTHEMATOSUS



DISCOID LUPUS ERYTHEMATOSUS
SKIN CHANGES ON THE FACE → SHAPE OF
A BUTTERFLY

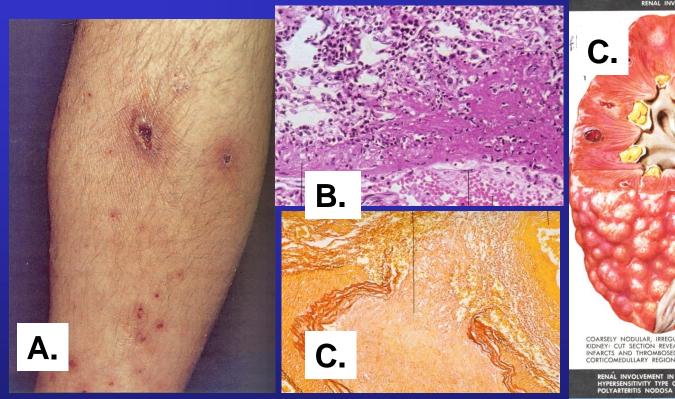




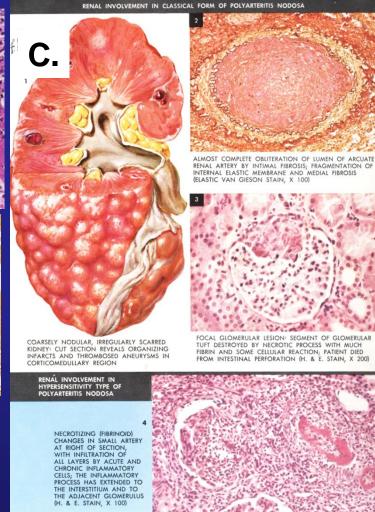
CHARACTERISTIC CHANGES OF CENTRAL ARTERIOLES IN SPLEEN. ONION-LIKE THICKENING OF WALLS

POLYARTERITIS NODOSA

INFLAMMATORY CHANGES OF ARTERIES IN DIFFERENT ORGANS. FIBRINOID NECROSIS OF ARTERIAL WALLS → ANEURYSMS, THROMBOSIS AND INFARCTIONS



- A. SKIN CHANGES ON ARM
- B. FRESH FIBRINOID NECROSIS OF VESSEL WALL
- C. SCAR IN WALL OF VESSEL
- D. CHANGES IN KIDNEY DURING POLYARTERITIS NODOSA

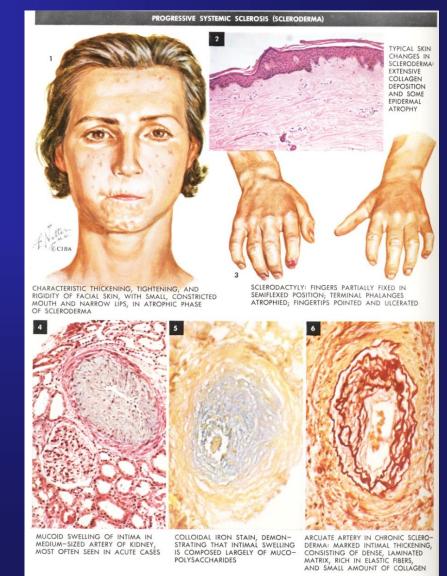


SCLERODERMA

GENERALIZED FIBROSIS OF CONNECTIVE TISSUE IN SKIN AND IN INTERNAL ORGANS. DIFFERENCES IN INTENSITY OF THE DISEASE. VERY COMMON IN FEMALES - MICROCHIMERISM



TYPICAL FACE IN SCLERODERMA

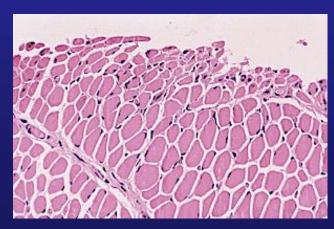


DERMATOMYOSITIS

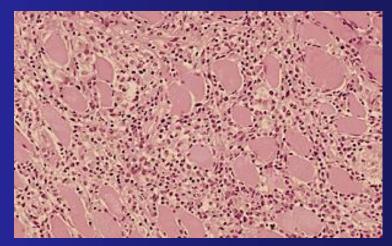
PROGRESSIVE WEAKENING OF THE MUSCLES OF DIFFERENT INTENSITY, EVEN IN SINGLE MUSCLES. DEGENERATIVE CHANGES IN MUSCLES AND INFILTRATIONS CONSISITING OF MONONUCLEAR CELLS, COEXISTING WITH OTHER AUTOIMMUNOLOGICAL DISORDERS.



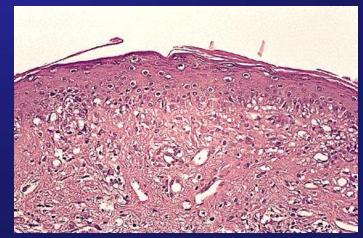
ITCHY SKIN CHANGES ON THE FACE



ATROPHY OF MUSCLE FIBRES (TOP OF PICTURE)



ABUNDANT INFILTRATION OF LYMPHOCYTES IN SKELETAL MUSCLE



LYMPHOCYTIC INFILTRATION IN SKIN AROUND VESSELS

