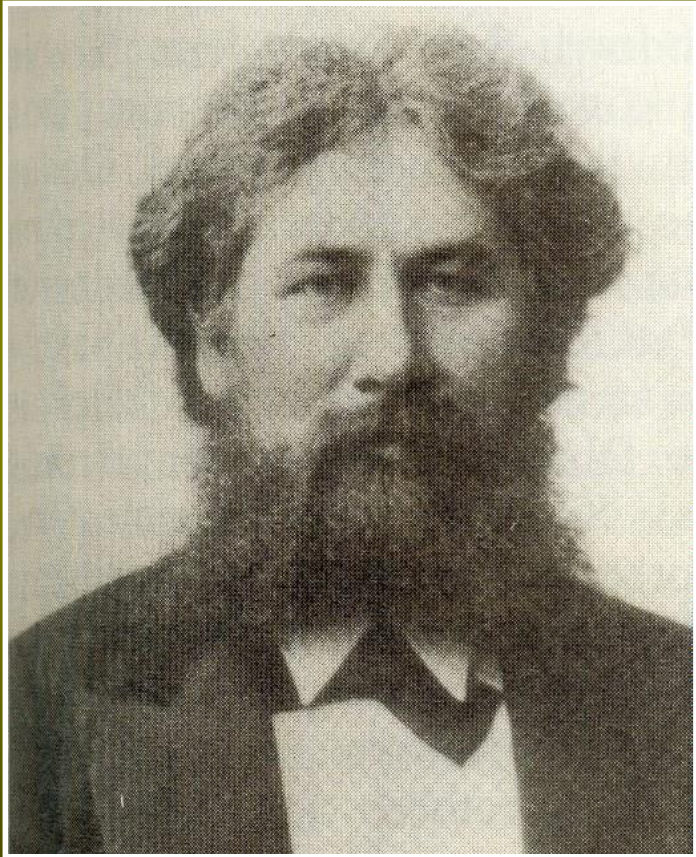
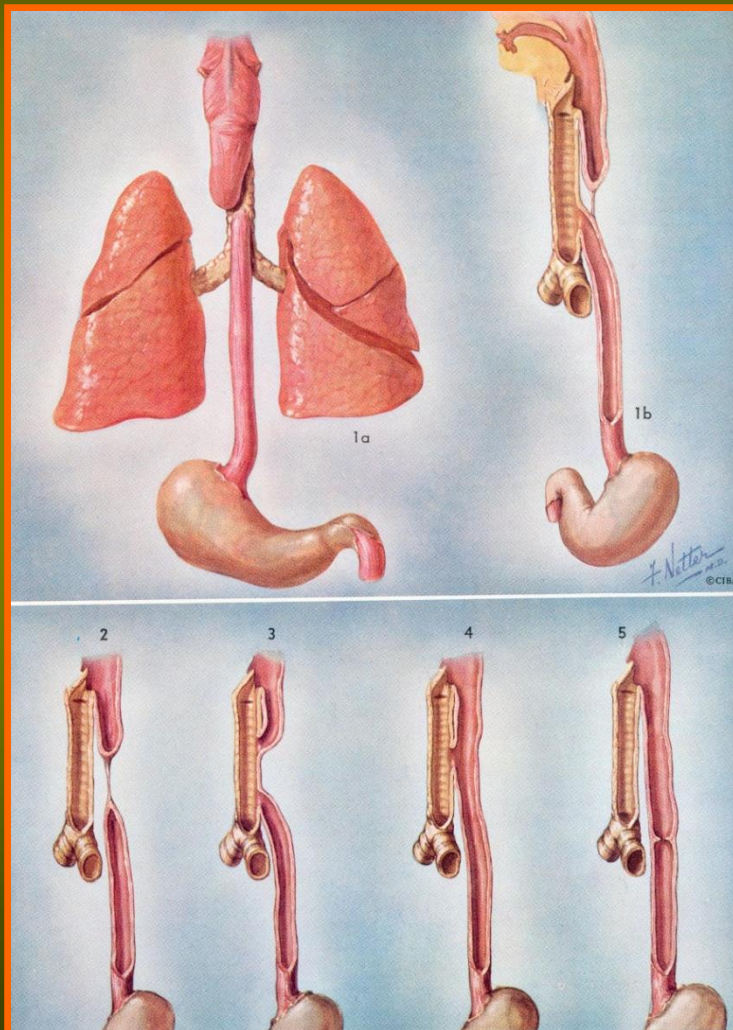


LECTURE 14



LUDWIK RYDYGIER
1850-1920

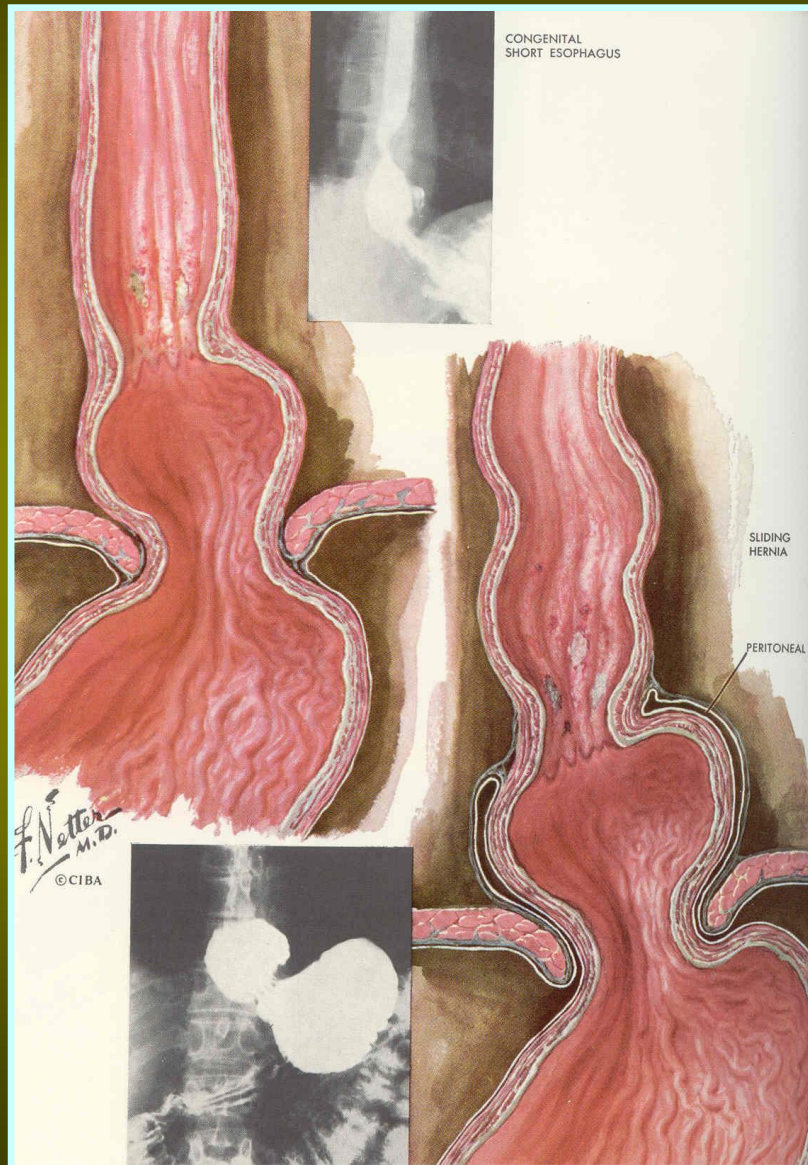
ESOPHAGUS PATHOLOGY



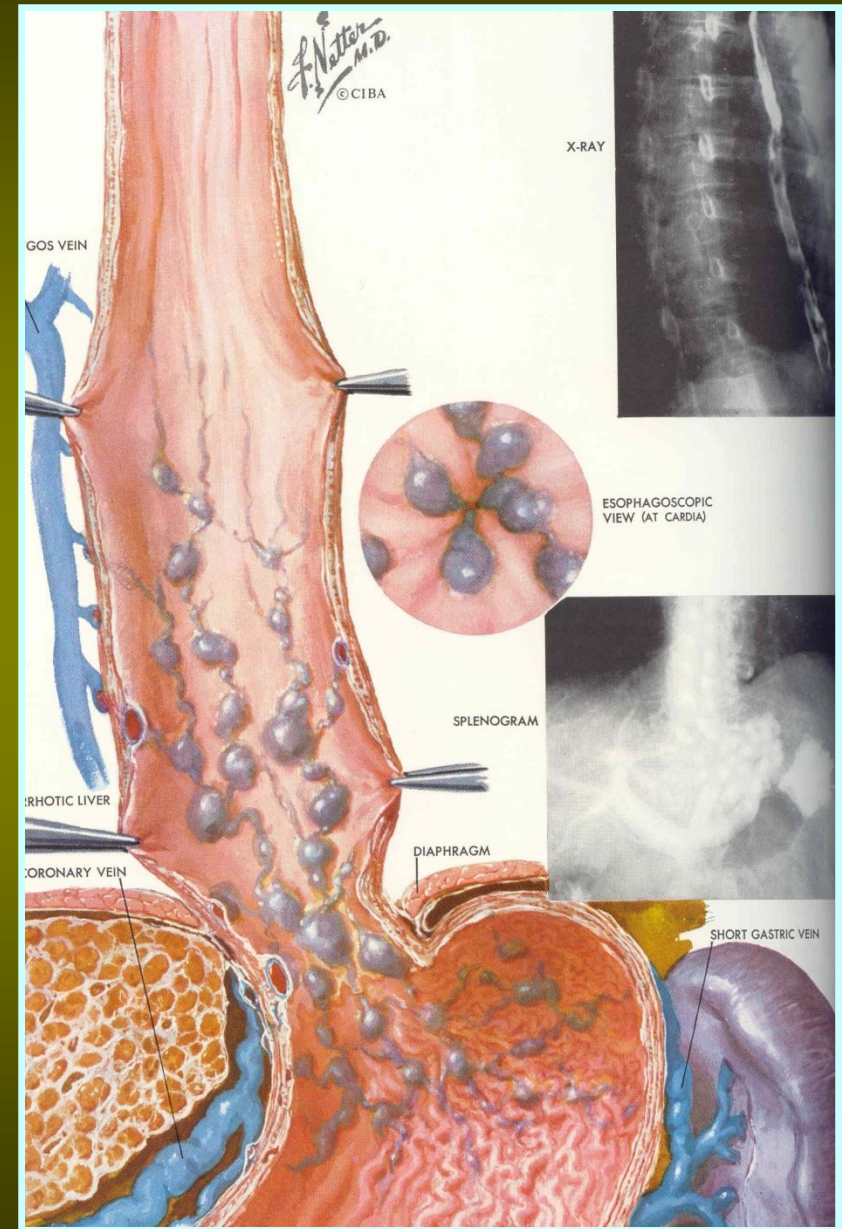
**DISTURBANCES IN THE
DEVELOPMENT OF THE
ESOPHAGUS**

**MOSTLY COMBINED
WITH DISTURBANCES OF
THE TRACHEA
DEVELOPMENT. PROMPT
DIAGNOSIS AND
SURGERY MAY SAVE
LIFE OF NEWBORN.**

ESOPHAGUS HERNIAS



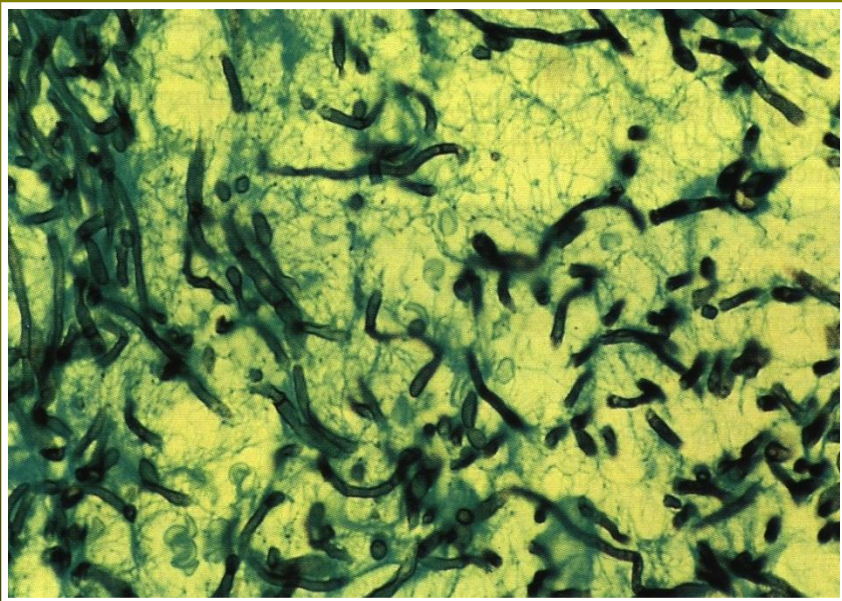
VARICES IN ESOPHAGUS



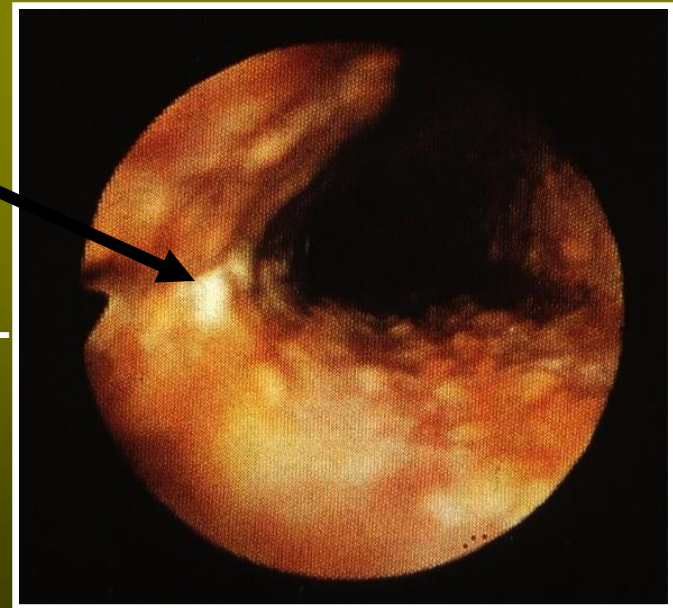
ESOPHAGITIS



FIBRINOUS AND ULCERATING ESOPHAGITIS



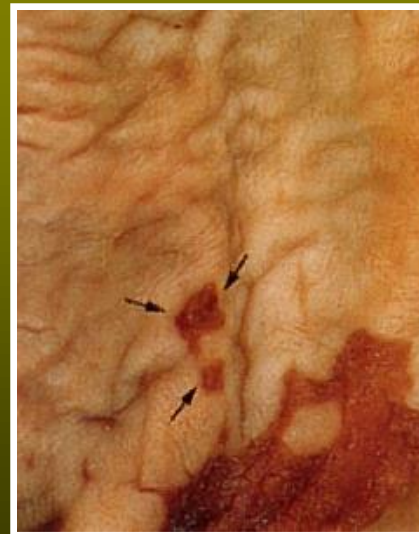
**ESOPHAGEAL
MONILIASIS**



BARRETT'S ESOPHAGUS

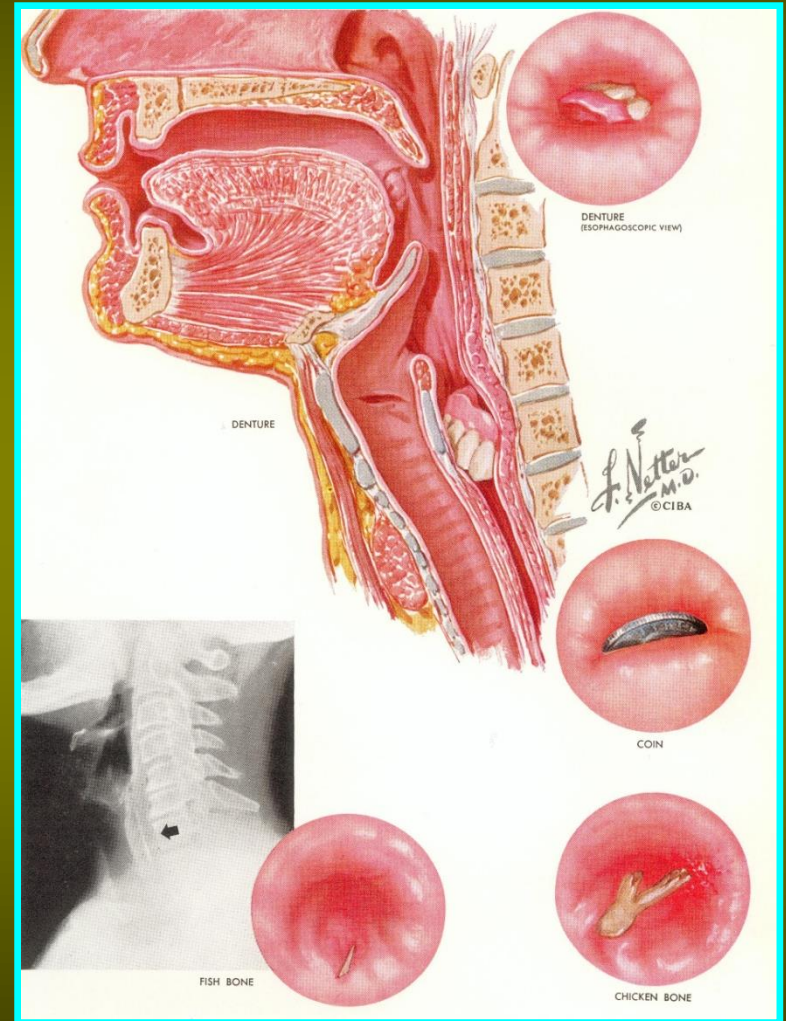
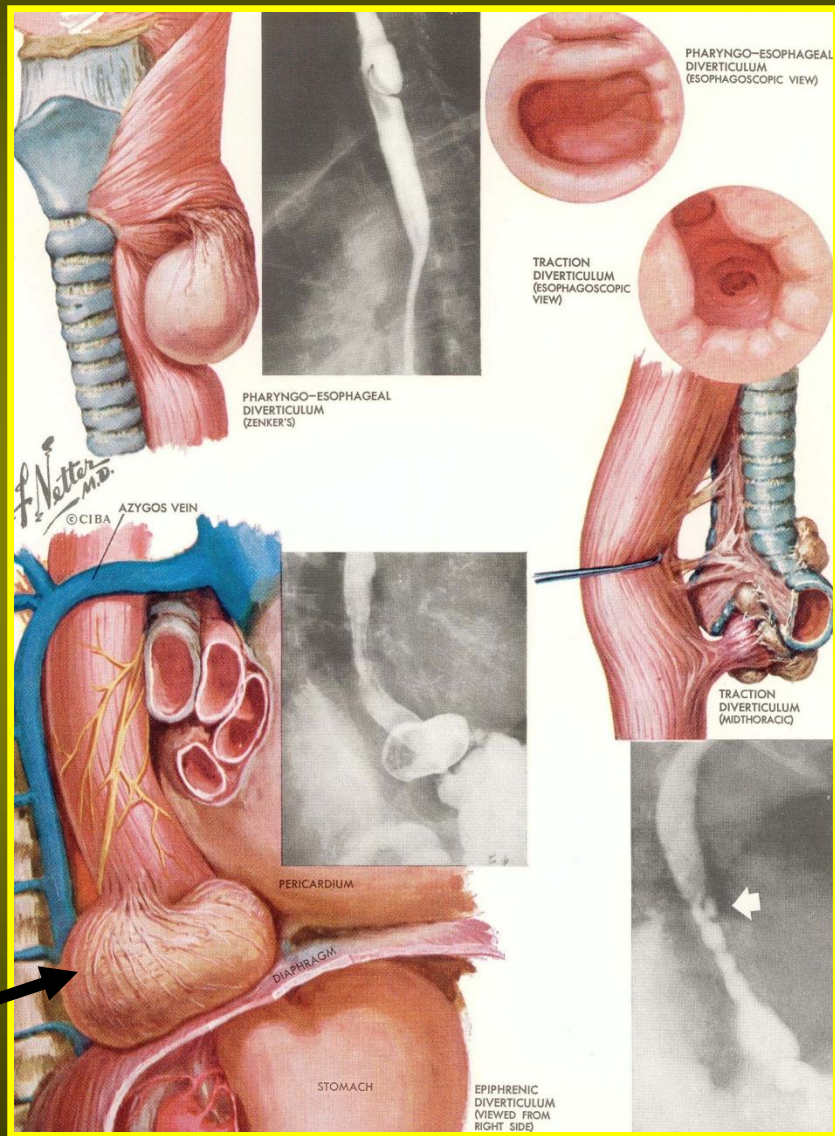


BARRETT ESOPHAGUS



BARRETT ESOPHAGUS
an acquired metaplasia, usually occurs post chronic gastro-esophageal reflux.

ESOPHAGEAL DIVERTICULA



FOREIGN BODY IN ESOPHAGUS

TUMORS OF ESOPHAGUS

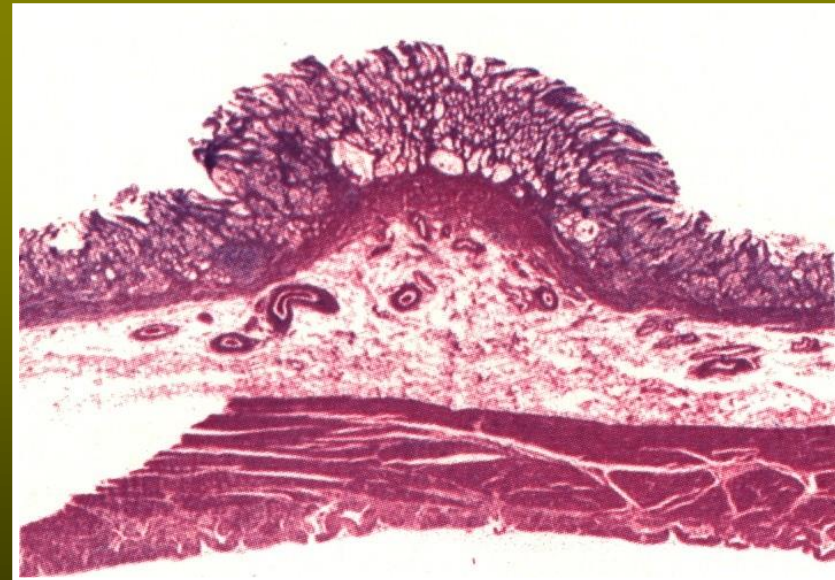


SQUAMOUS PAPILLOMA



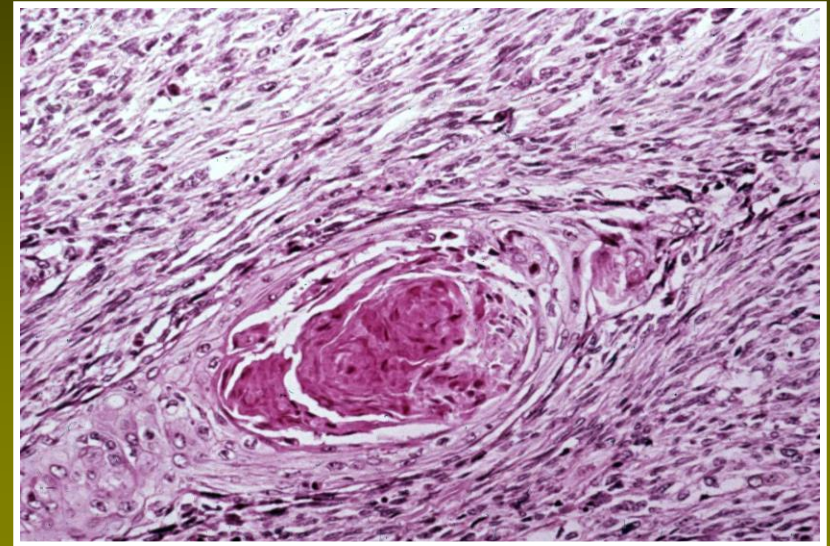
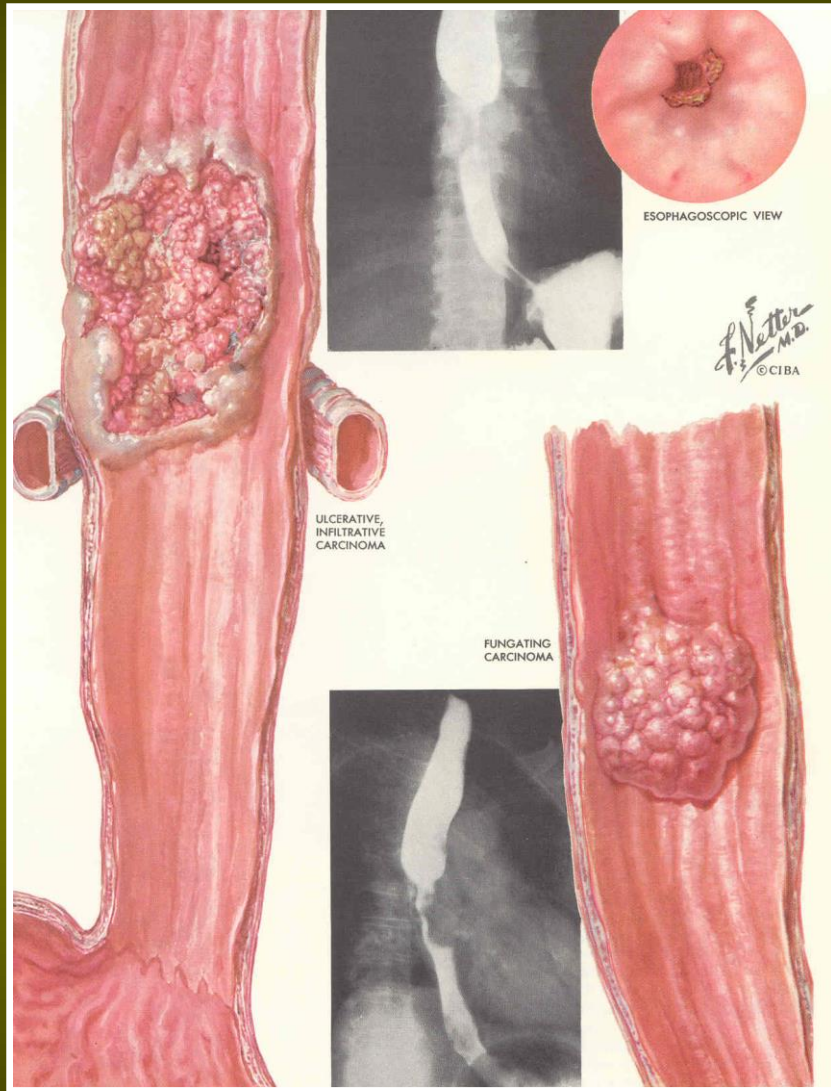
FIBROMA

BENIGN TUMORS ARE VERY RARE



ADENOMA

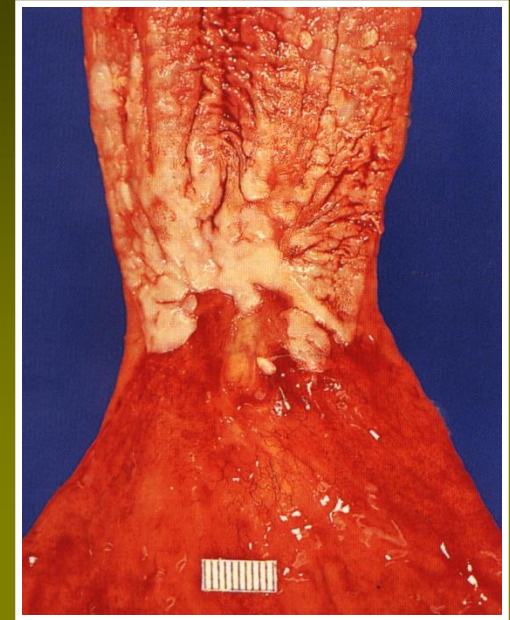
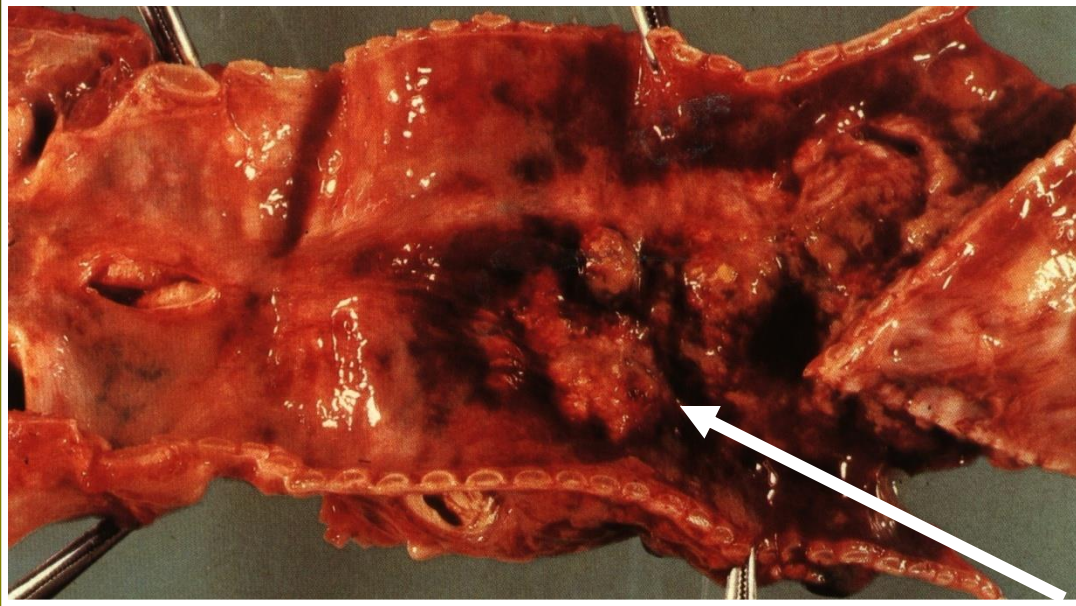
CARCINOMA PLANOEPITHELIALE KERATODES –SQUAMOUS-CELL CARCINOMA (SCC)



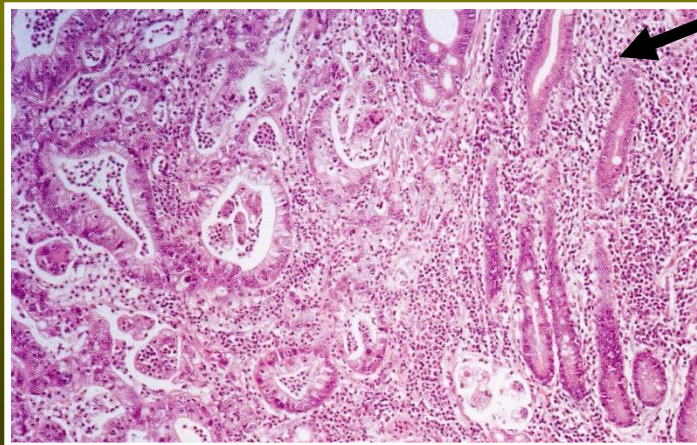
DYSPHAGIA IS A DOMINATING SYMPTOM. IN UPPER 2/3 OF ESOPHAGUS IT IS A SQUAMOUS CELL CARCINOMA; IN LOWER 1/3 ADENOCARCINOMA (AFTER BARRETT ESOPHAGUS). BAD PROGNOSIS.

SQUAMOUS CELL CANCER (SCC) OCCURS IN BURNED ESOPHAGUS AFTER 30 YEARS IN 60% OF CASES

ADENOCARCINOMA

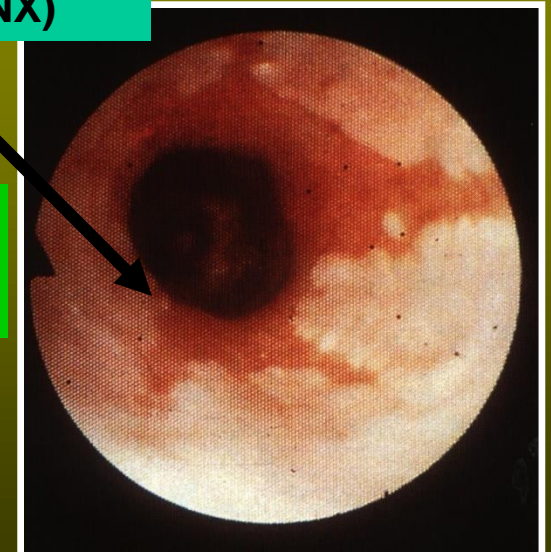


ADENOCARCINOMA IN ESOPHAGUS (INFILTRATION OF LARYNX)

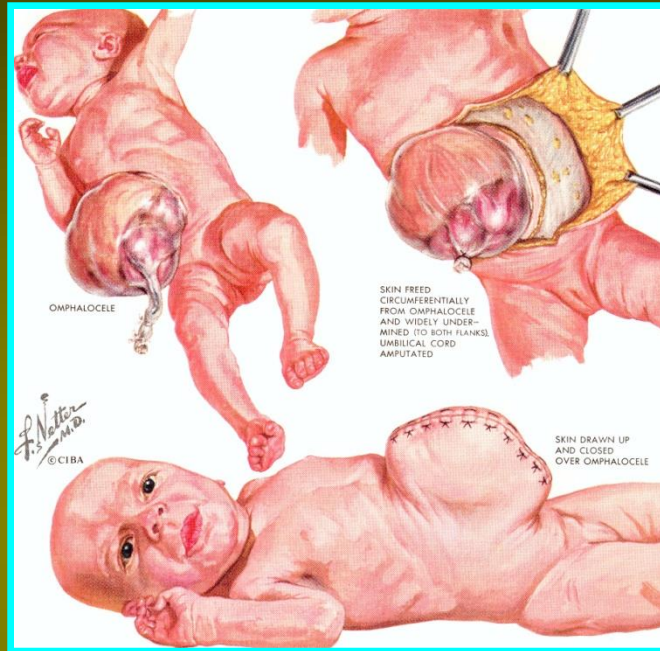


BARRETTS' ESOPHAGUS

METAPLASIA IN THE LOWER PART OF ESOPHAGUS

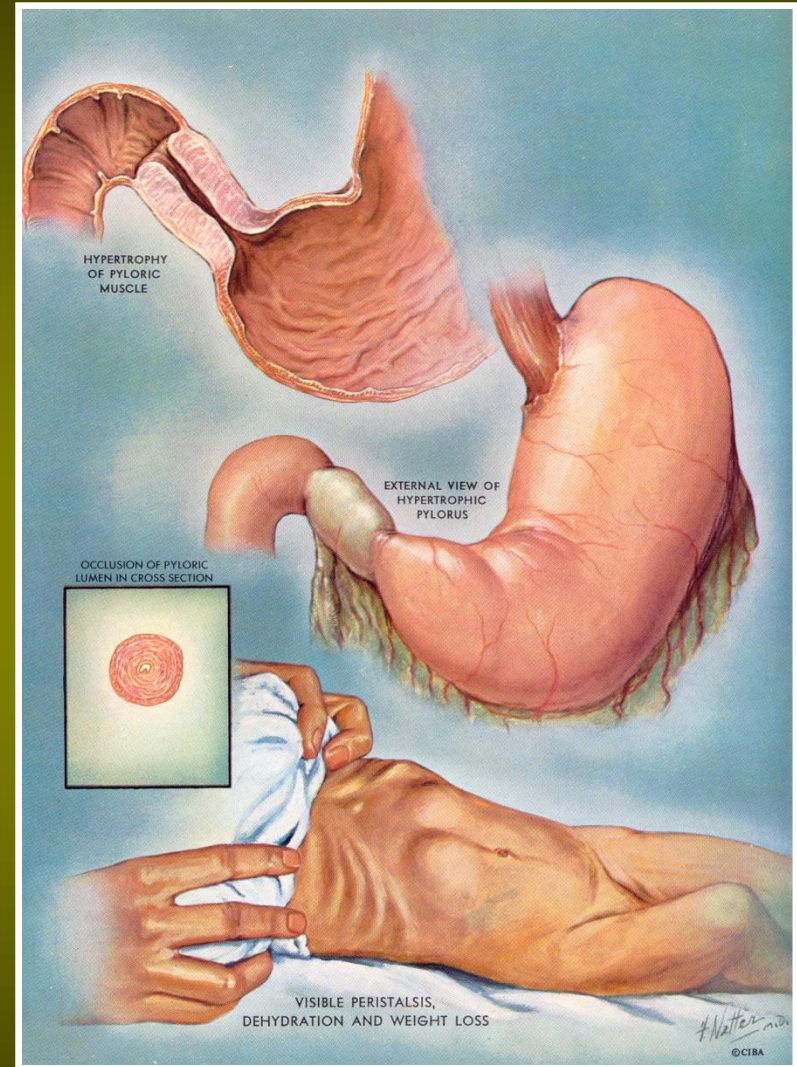


CONGENITAL DEFECTS OF ANTERIOR WALL OF ABDOMEN



OMPHALOCELE

CONGENITAL HYPERTROPHIC PYLORIC STENOSIS



GASTRITIS

A DIFFUSE CHANGE OF THE MUCOSA, WHICH HISTOLOGICALLY CAN BE CONSIDERED AS AN INFLAMMATION.

PATHOMECHANISM IS COMPLEX AND DEPENDS ON:

DISTURBANCES IN IMMUNOLOGY, HORMONES, EFFECTS OF EXOGENIC SUBSTANCES AS WELL AS ANATOMICAL CHANGES IN STOMACH AND DUODENUM

CHANGES IN „MUCOSA BARRIER” (MAINLY BECAUSE OF SALINES, ALCOHOL, HYPERTONIC SOLUTIONS, ISCHEMIA, STRESS)

INFLAMMATION IS A COMPLEX PROCESS AND COMPRISES ALSO REGENERATIVE AND DEGENERATIVE CHANGES

GASTRITIS CLASSIFICATION ACCORDING TO MORSON AND WHITEHEAD

I. Acute gastritis:

- 1) hemorrhagic gastritis**
- 2) erosive gastritis**

II. Chronic gastritis

- 1) active chronic superficial gastritis**
non-active chronic superficial gastritis
- 2) active atrophic chronic gastritis**
non-active chronic atrophic gastritis
- 3) atrophy of stomach mucosa**

ACUTE GASTRITIS (HISTOLOGICALLY):

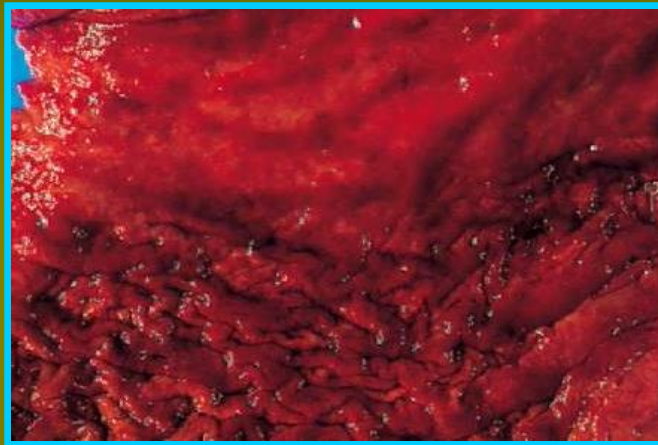
HEMORRHAGE CLOSE TO GLANDS

HEMORRHAGE IN MUCOSA

DAMAGE OR DESTRUCTION OF EPITHELIUM LEADING TO BLEEDING EROSIONS

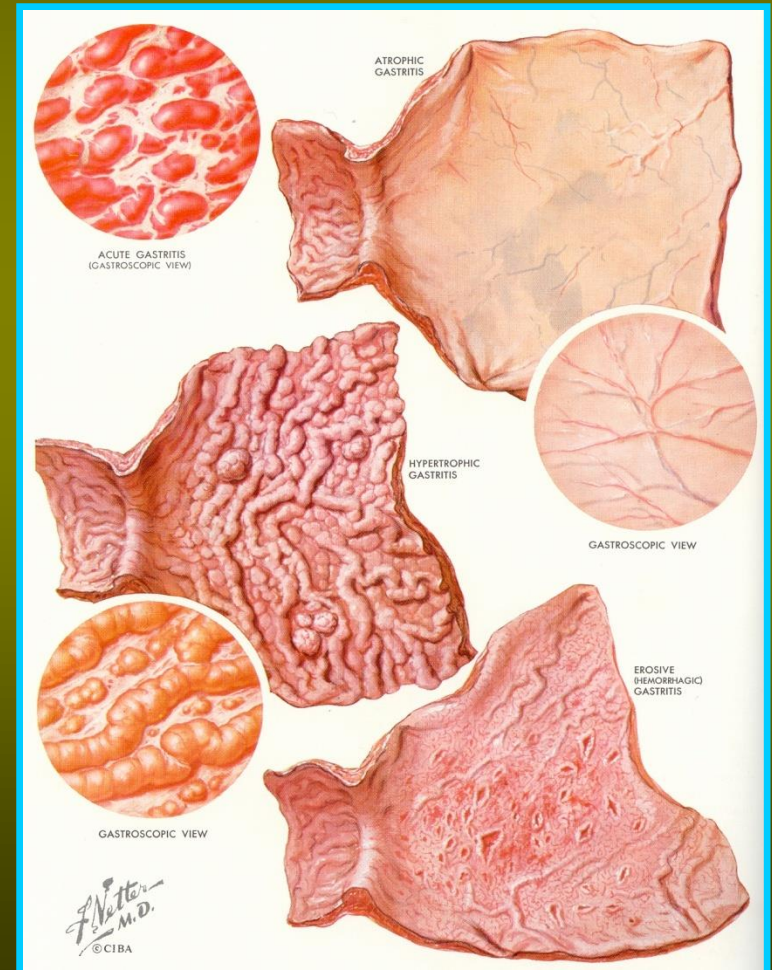
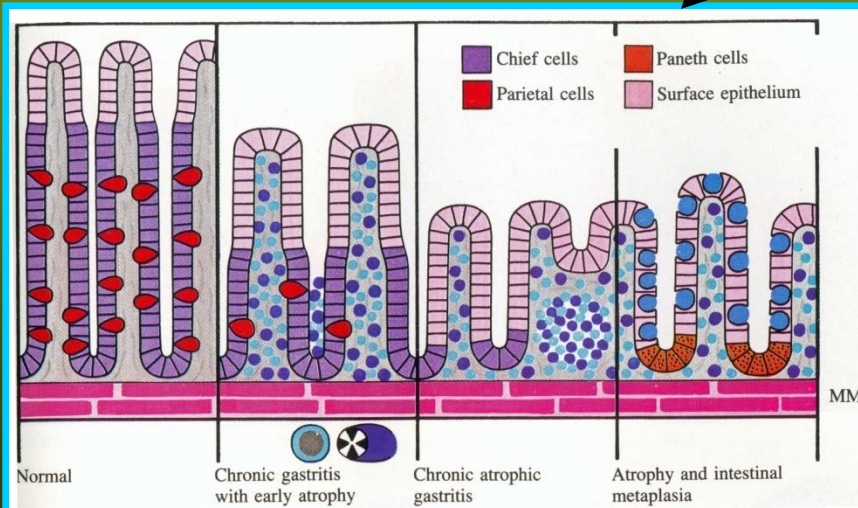
CHRONIC GASTRITIS

CAN BE DUE TO IMMUNOLOGICAL DISTURBANCES

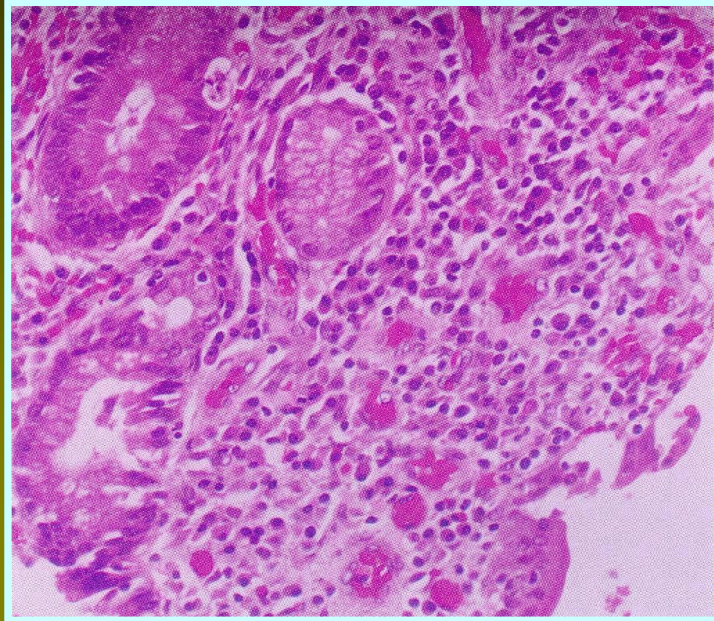


ACUTE GASTRITIS

SCHEME OF
CHANGES IN
THE MUCOSA IN
INFLAMMATION



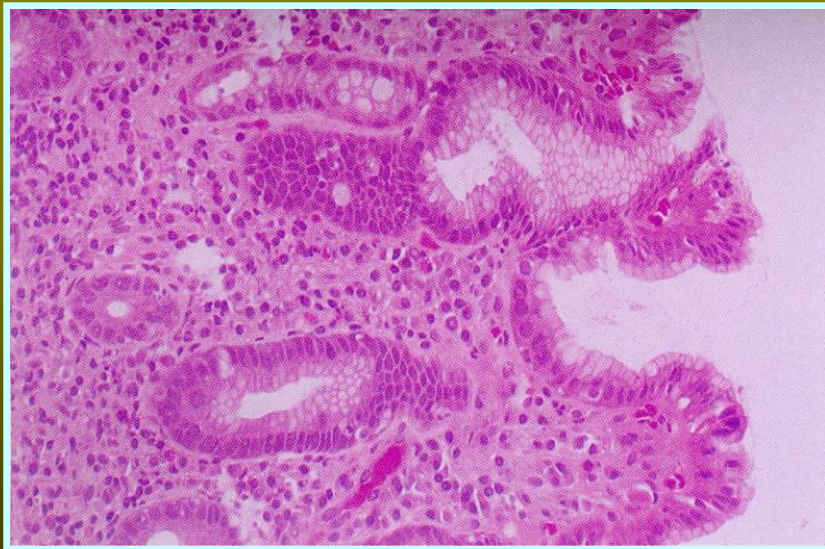
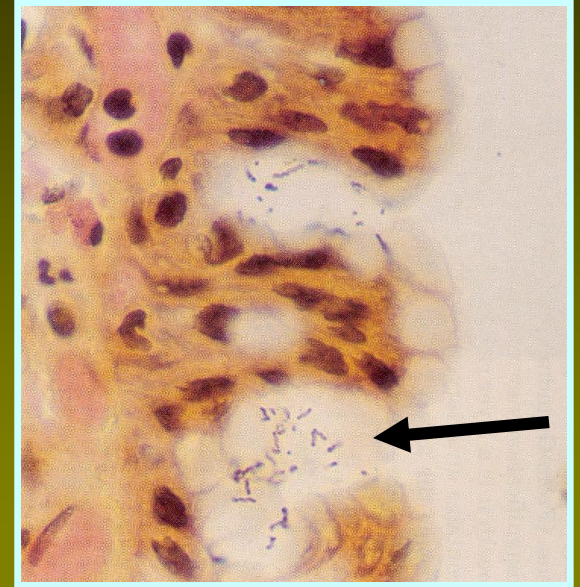
HISTOLOGY OF GASTRITIS



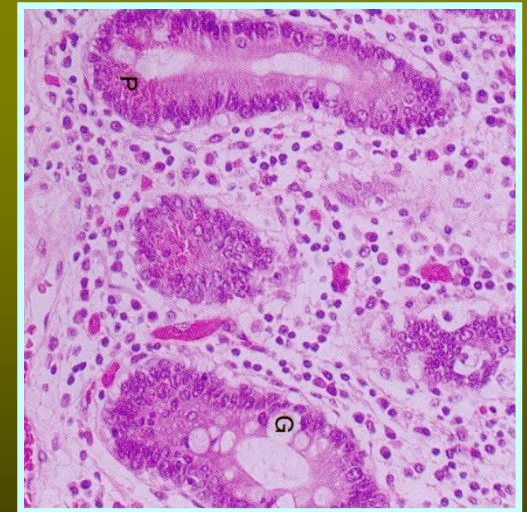
EROSIVE
GASTRITIS



HELICOBACTER
PYLORI IN GASTRITIS

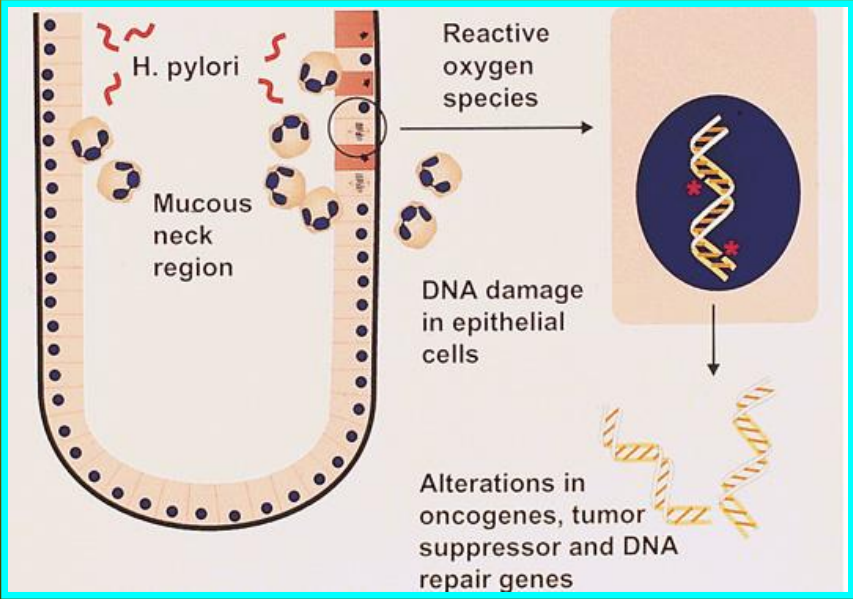
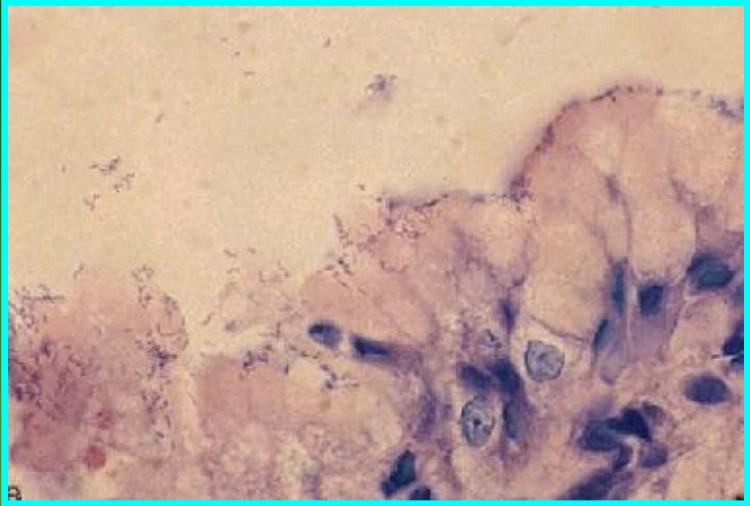
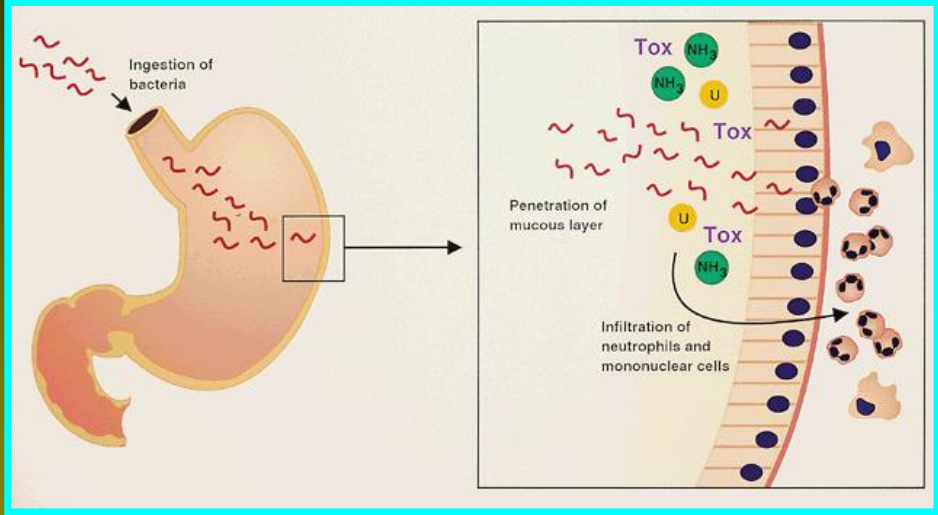


CHRONIC ATROPHIC GASTRITIS



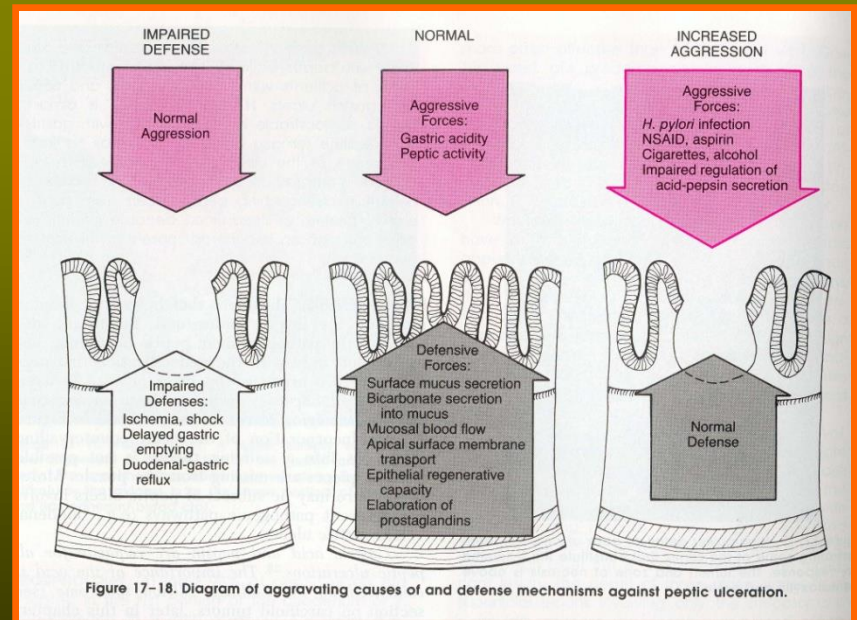
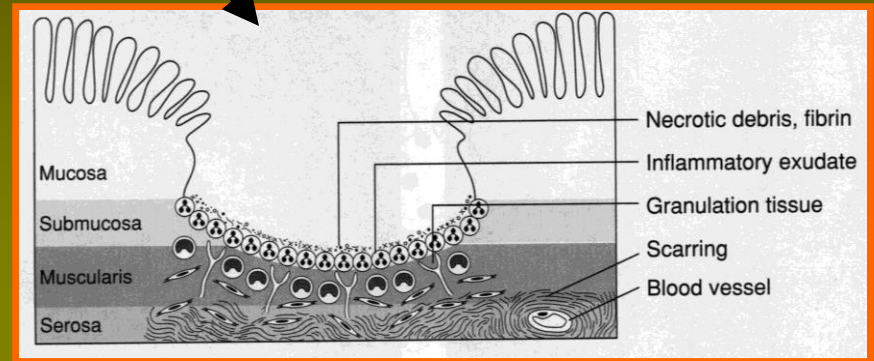
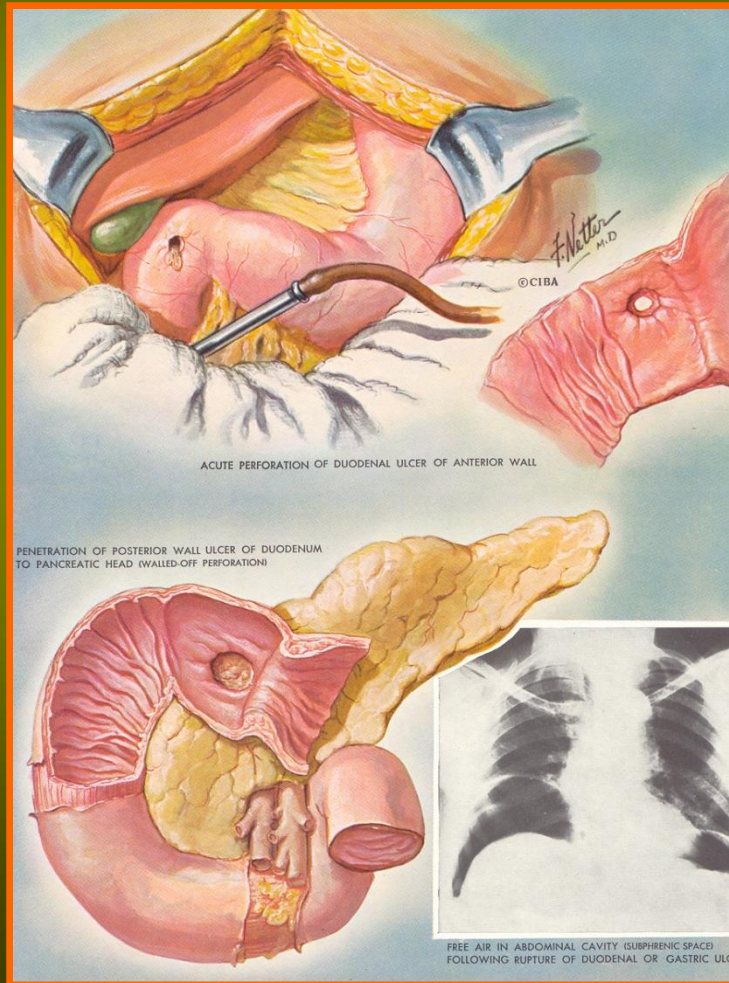
INTESTINAL METAPLASIA

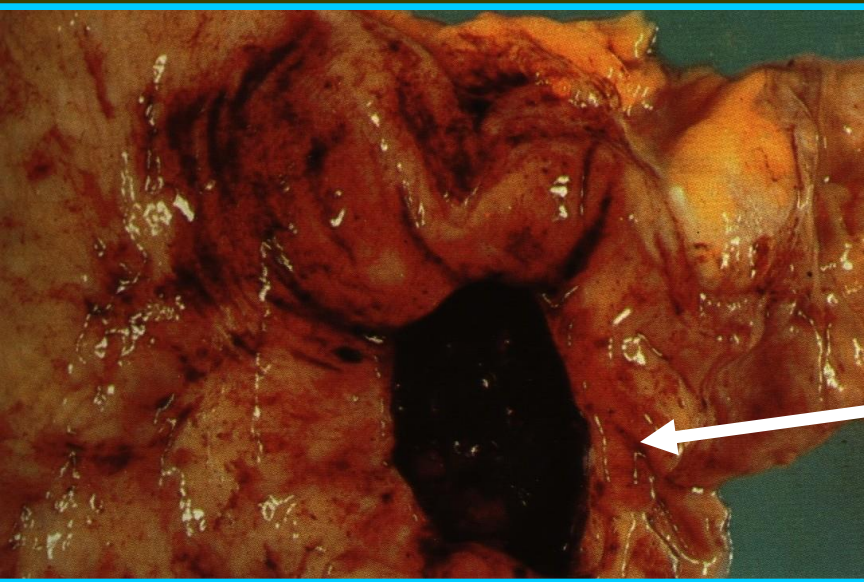
ROLE OF **HELICOBACTER PYLORI** IN PATHOGENESIS OF ULCERS AND GASTRIC CANCER



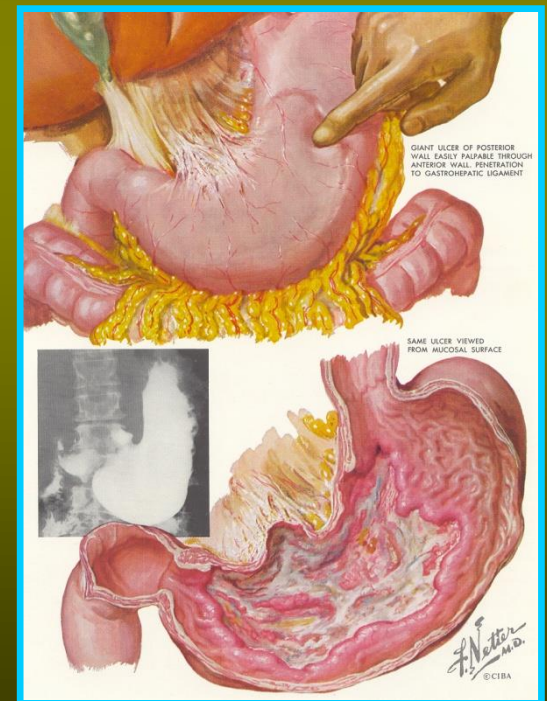
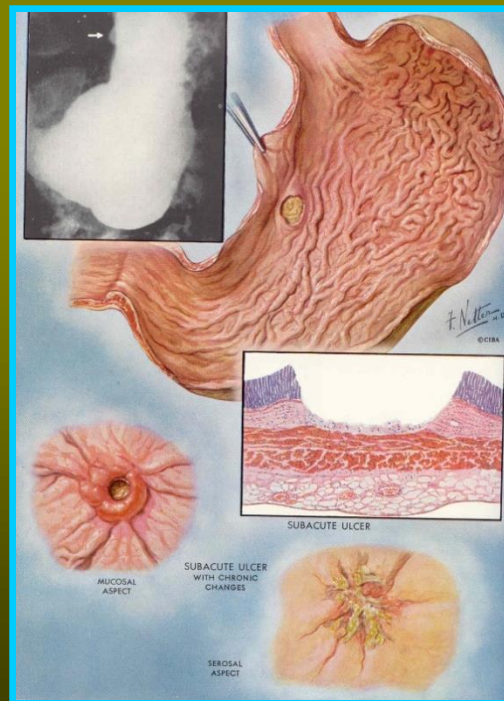
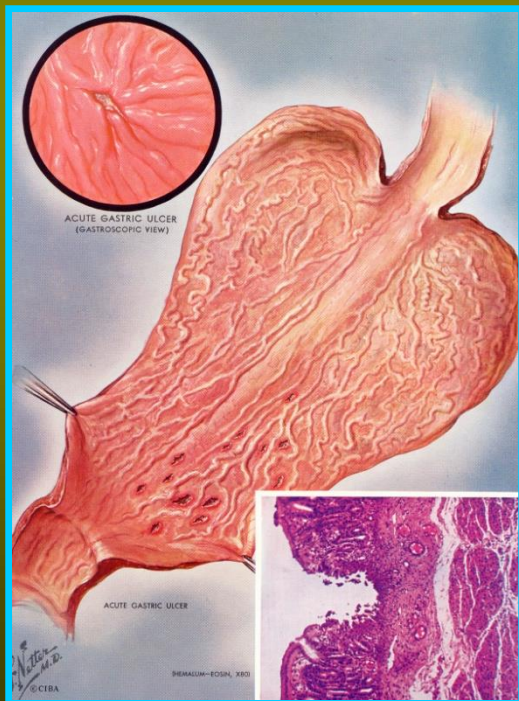
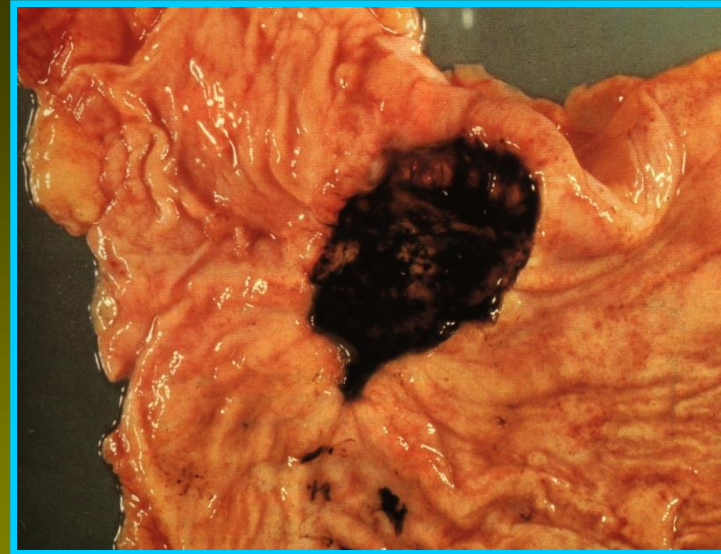
HELICOBACTER PYLORI PLAYS A KEY ROLE IN WAVING OF THE EQUILIBRIUM OF THE DEFENSE MECHANISMS OF MUCOSA IN THE STOMACH AND DUODENUM. IT HAS A BIG EFFECT ON THE ACTIVATION OF THE MECHANISMS THAT DESTROY THE DNA IN EPITHELIAL CELLS

MICROSCOPICAL PICTURE OF THE ULCER





**BLEEDING
ULCER OF
STOMACH**



ACUTE ULCERS OF STOMACH

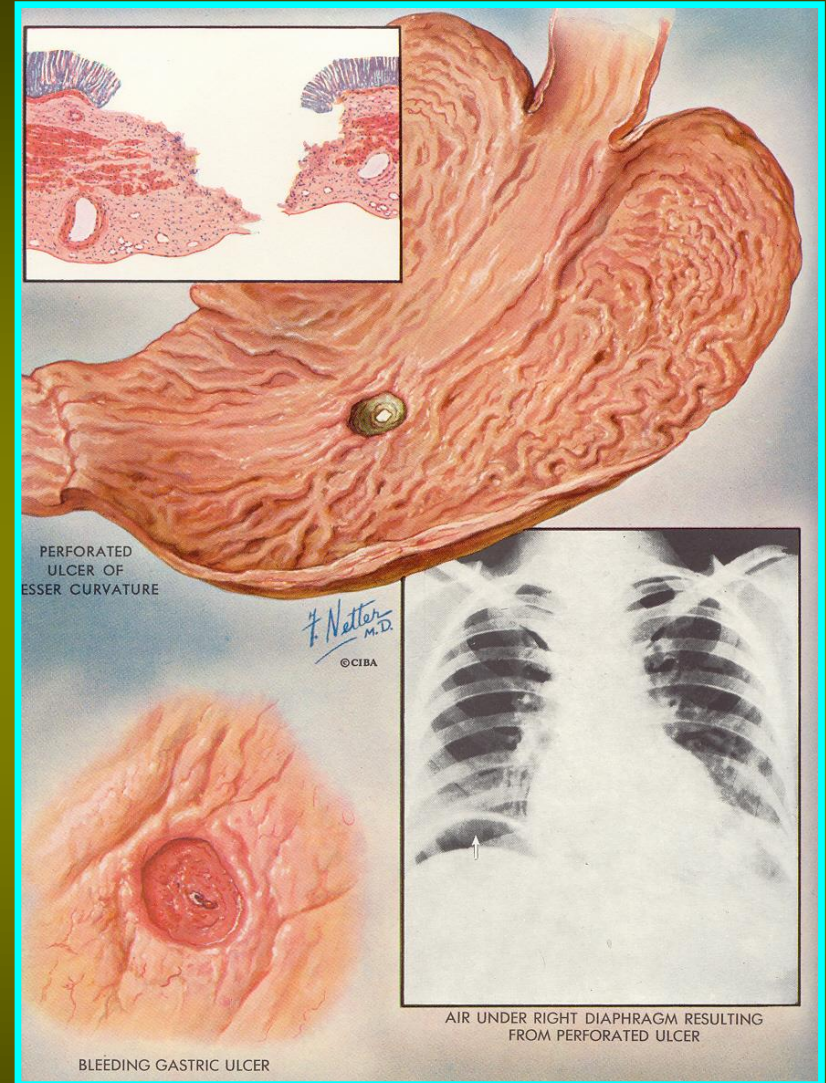
CHRONIC ULCER IN STOMACH

DIFFUSE, CHRONIC ULCER

COMPLICATIONS OF ULCERS IN STOMACH AND DUODENUM

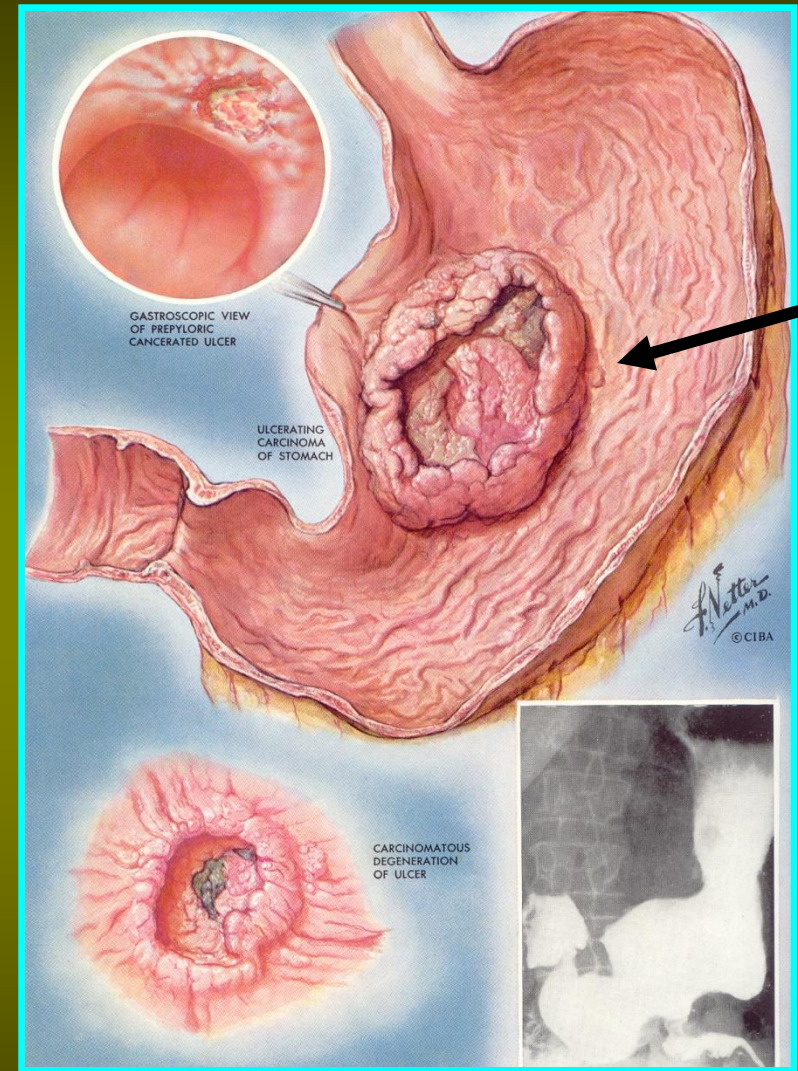
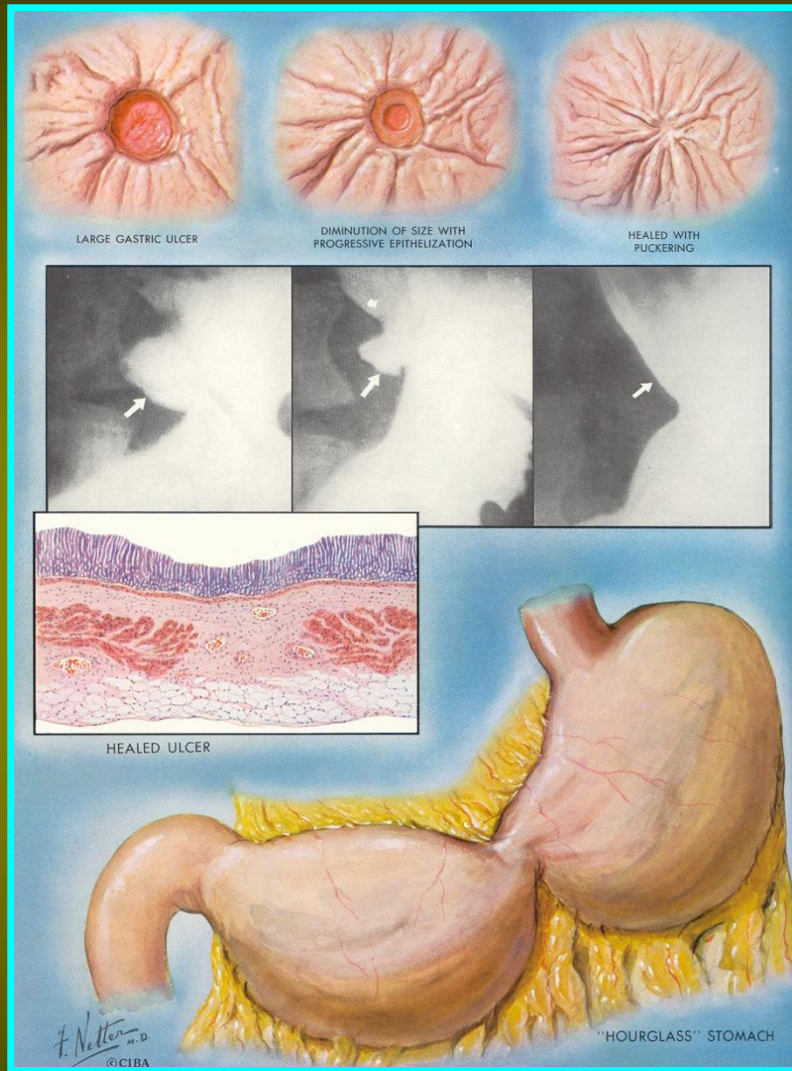


BLEEDING OF DIFFERENT INTENSITY, INCLUDING PROFUSE, FATAL BLEEDING IS THE MOST COMMON COMPLICATION OF ULCERS



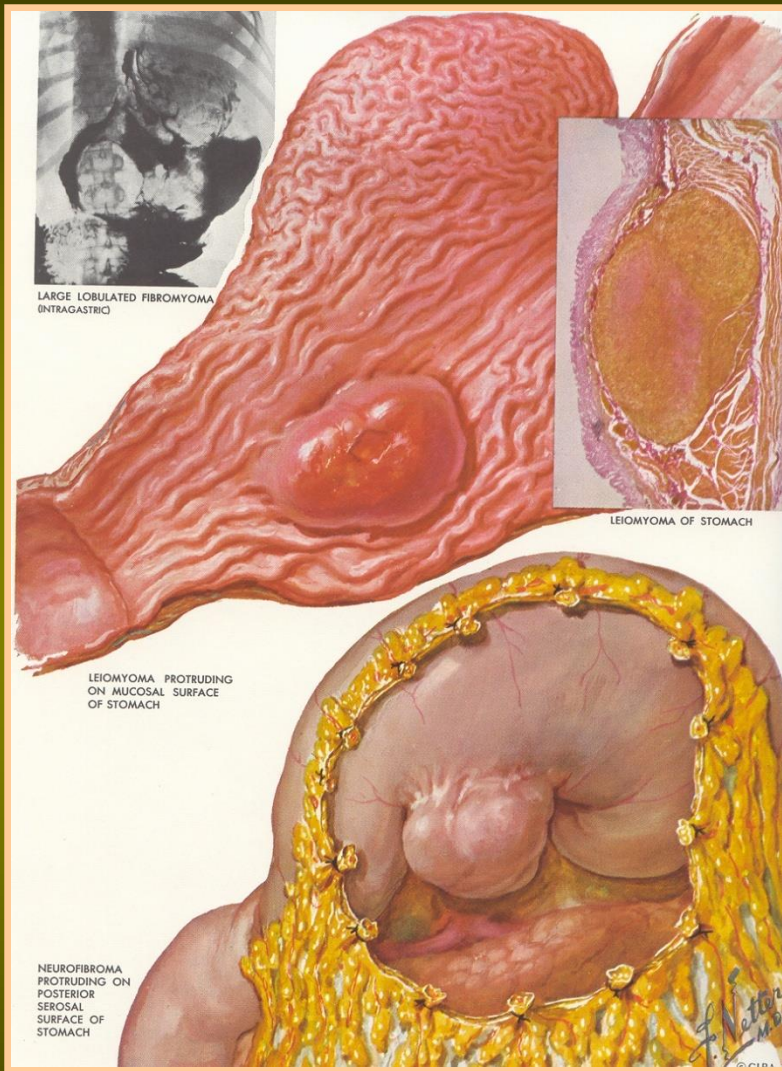
PERFORATION OF ULCER WITH SUBSEQUENT INFLAMMATION IS THE SECOND MOST COMMON COMPLICATION.

COMPLICATIONS OF ULCERS IN STOMACH AND DUODENUM



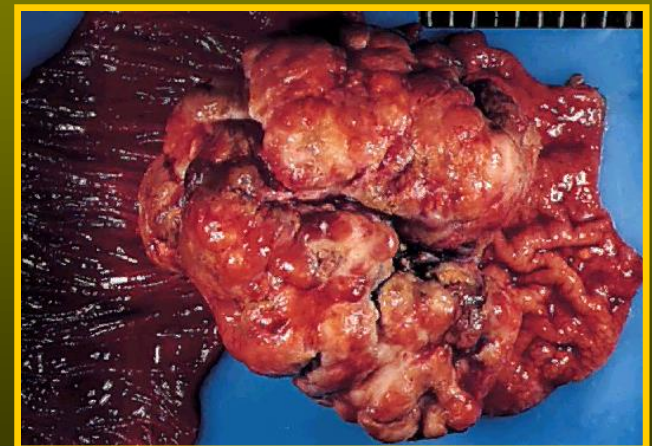
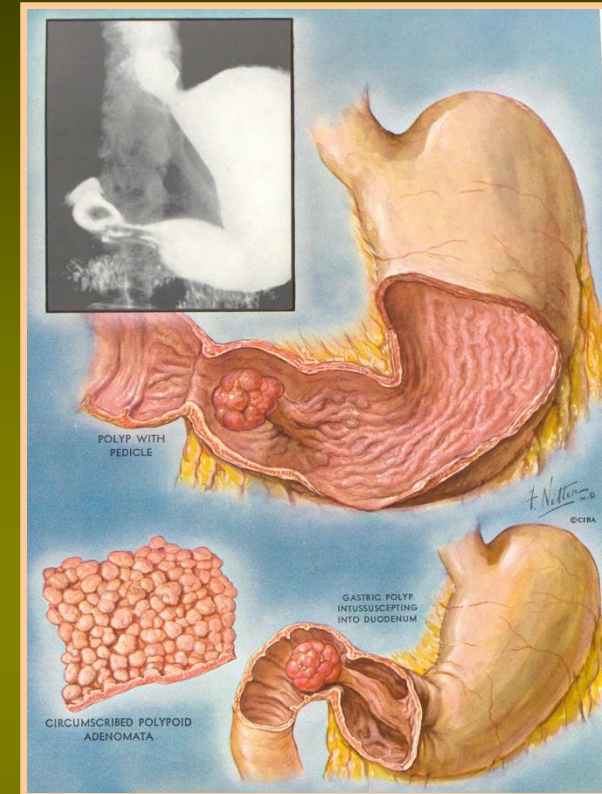
HEALING OF CHRONIC ULCERS RESULT IN SCARS THAT EVENTUALLY LEAD TO THE CONSTRICTION OF THE WALL OF THE STOMACH

BENIGN TUMORS OF STOMACH



LEIOMYOMA
THE SECOND MOST COMMON SITE
FOR THIS TUMOR – THE FIRST IS
UTERUS

ADENOMA
(ADENOMATOUS
POLYP)
TUMOR THAT MAY
UNUSUALLY QUICKLY
BECOME MALIGNANT



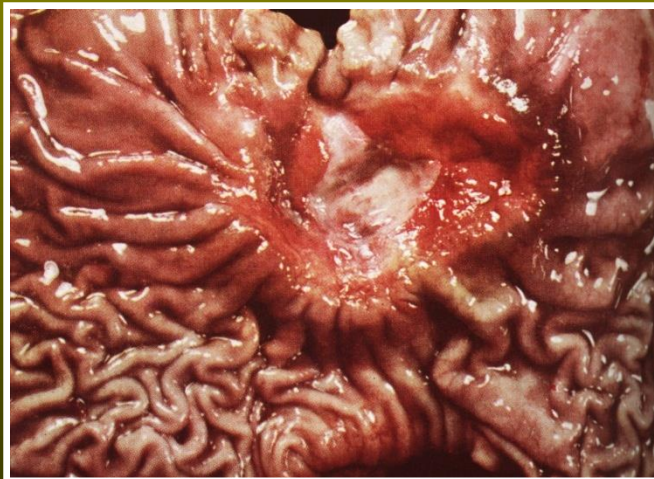
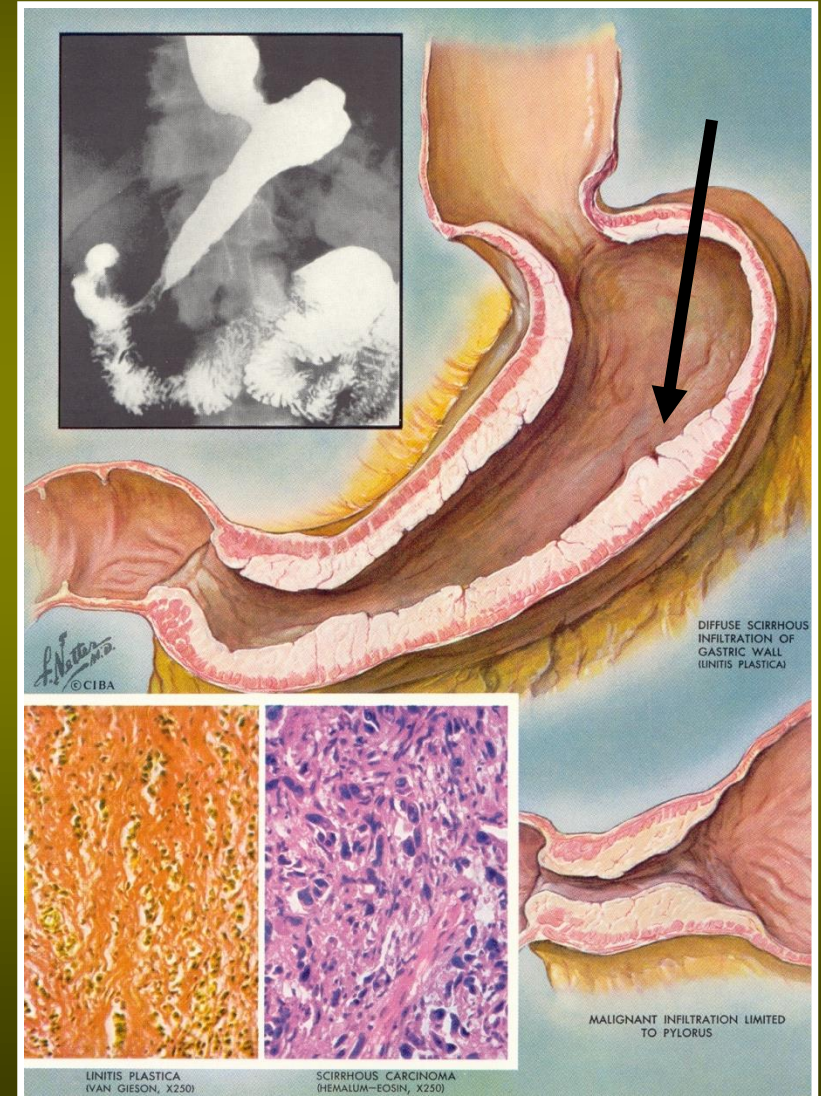
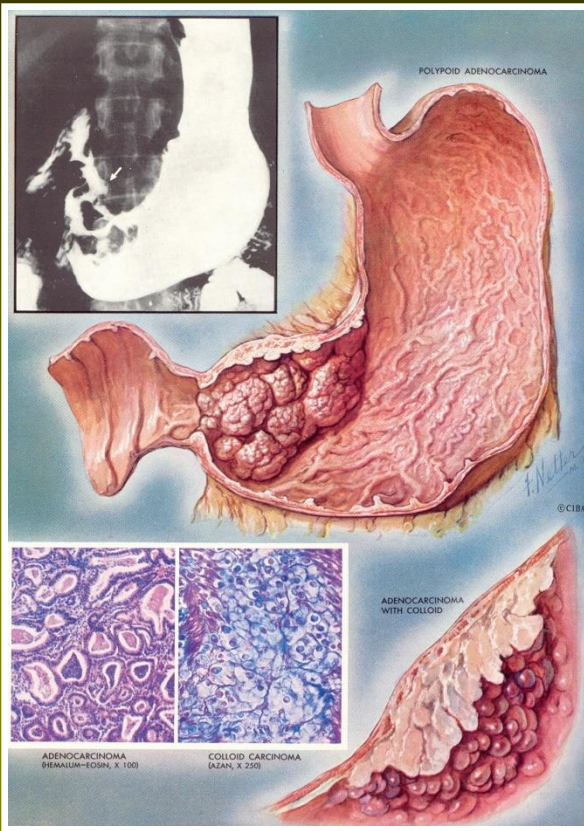
CARCINOMA OF STOMACH

POOR PROGNOSIS. ONLY EARLY, LIMITED TO MUCOSA HAVE A GOOD PROGNOSIS. DISTINCT BORDERS MAY OCCUR

PLASTIC LINITIS

FUNGUS
ADENOCARCINOMA

ULCERATION OF
CANCER.



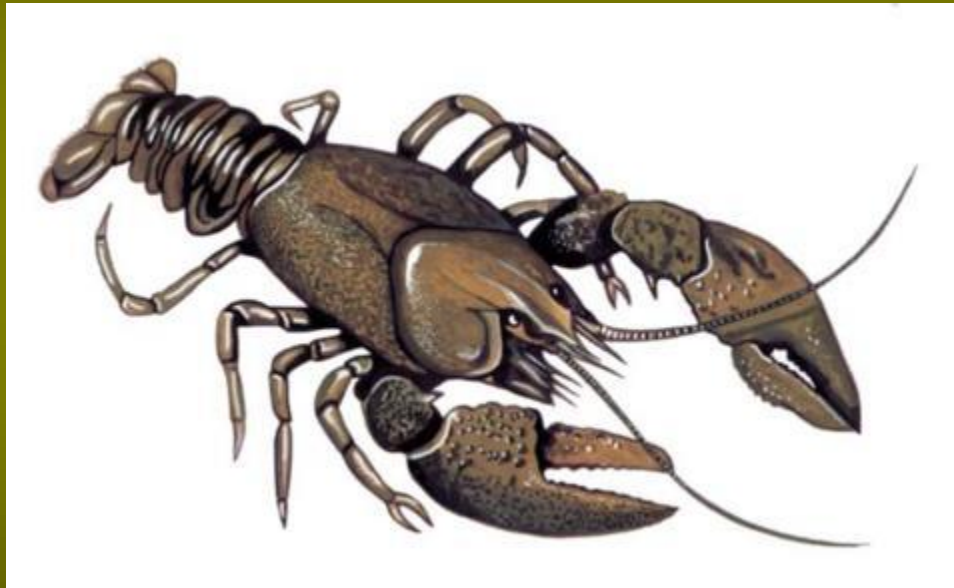
EATING
JALAPENO
OR...



...OR PEPPERONI MAY RESULT IN...



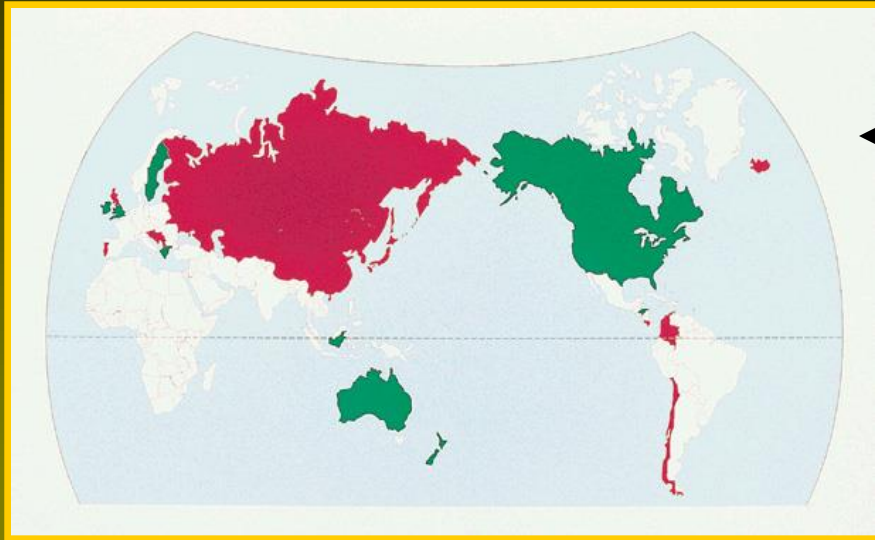
... CANCER ???



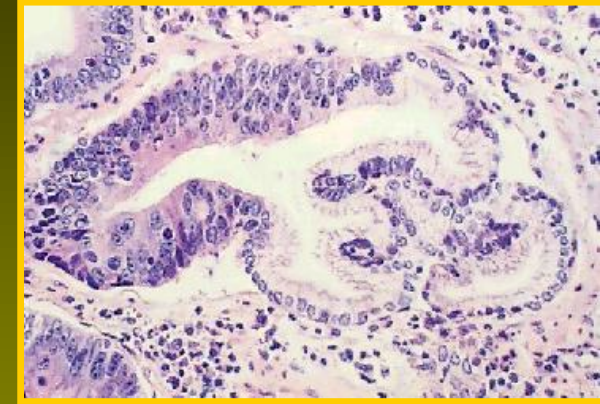
AND WHAT ABOUT SMOKED FISH ???



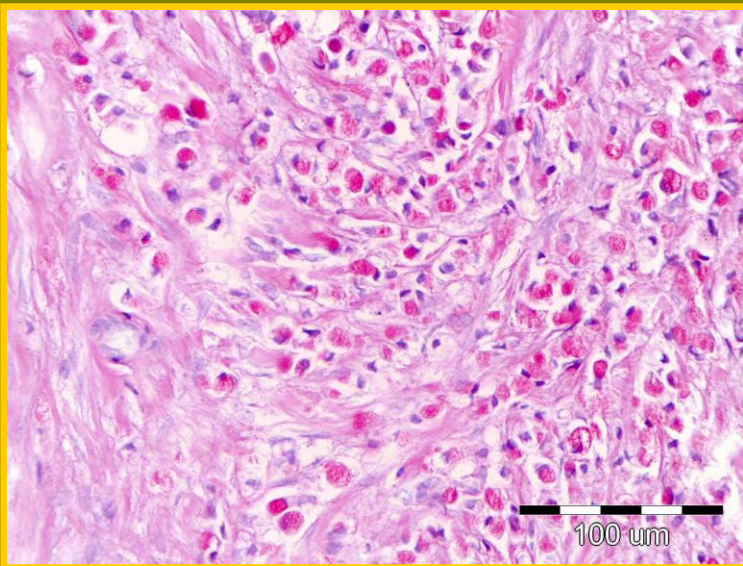
CARCINOMA OF STOMACH



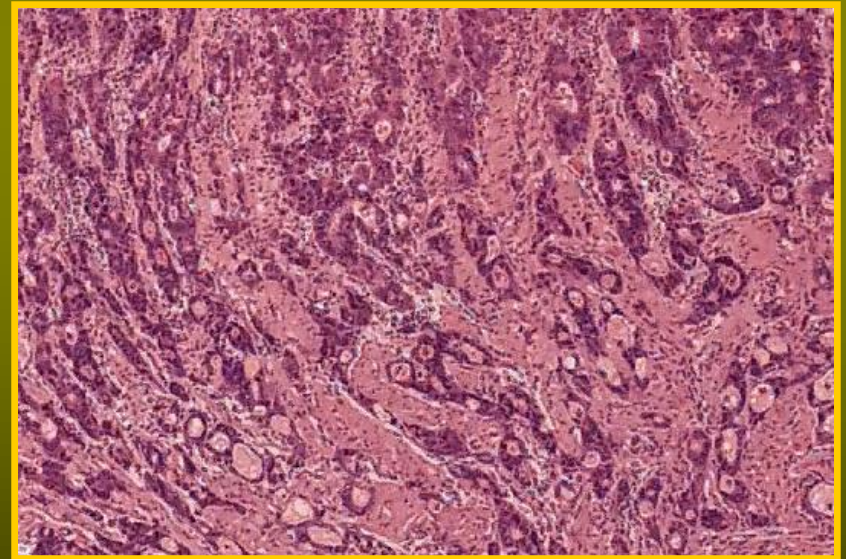
**GEOGRAPHIC
DIFFERENCES IN
OCCURRENCE
OF TUMOR**



DYSPLASIA

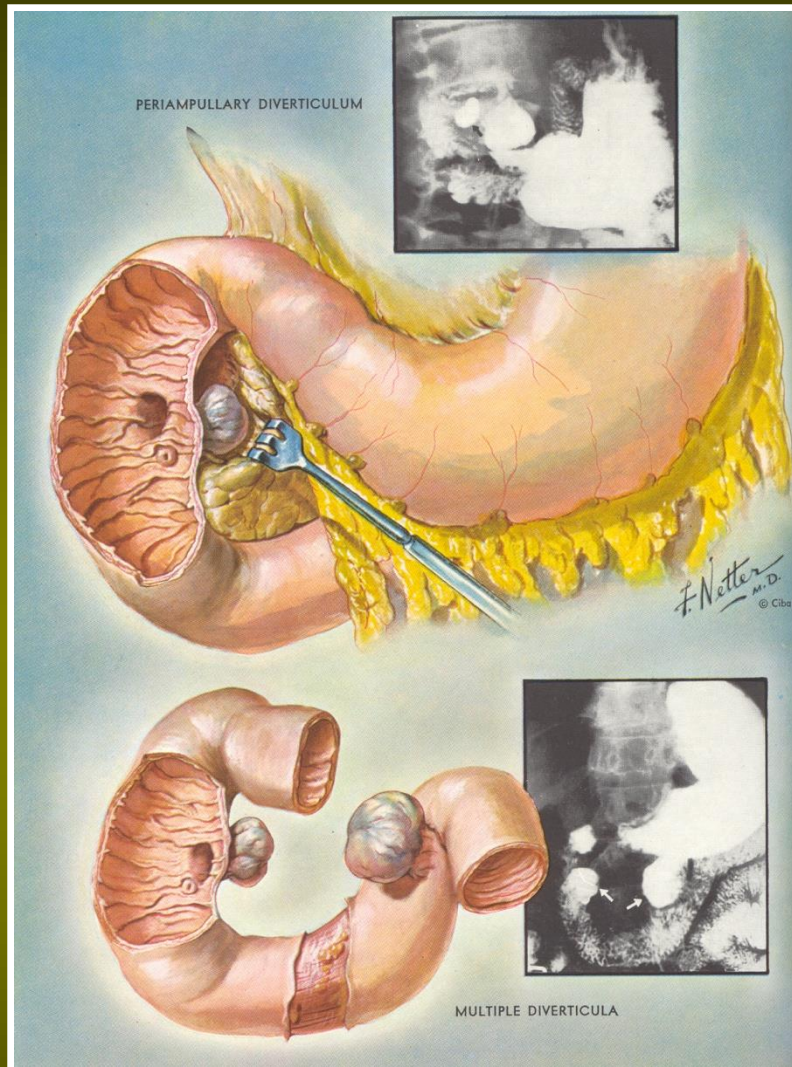


MUCINOUS CARCINOMA



ADENOCARCINOMA

DUODENAL PATHOLOGY



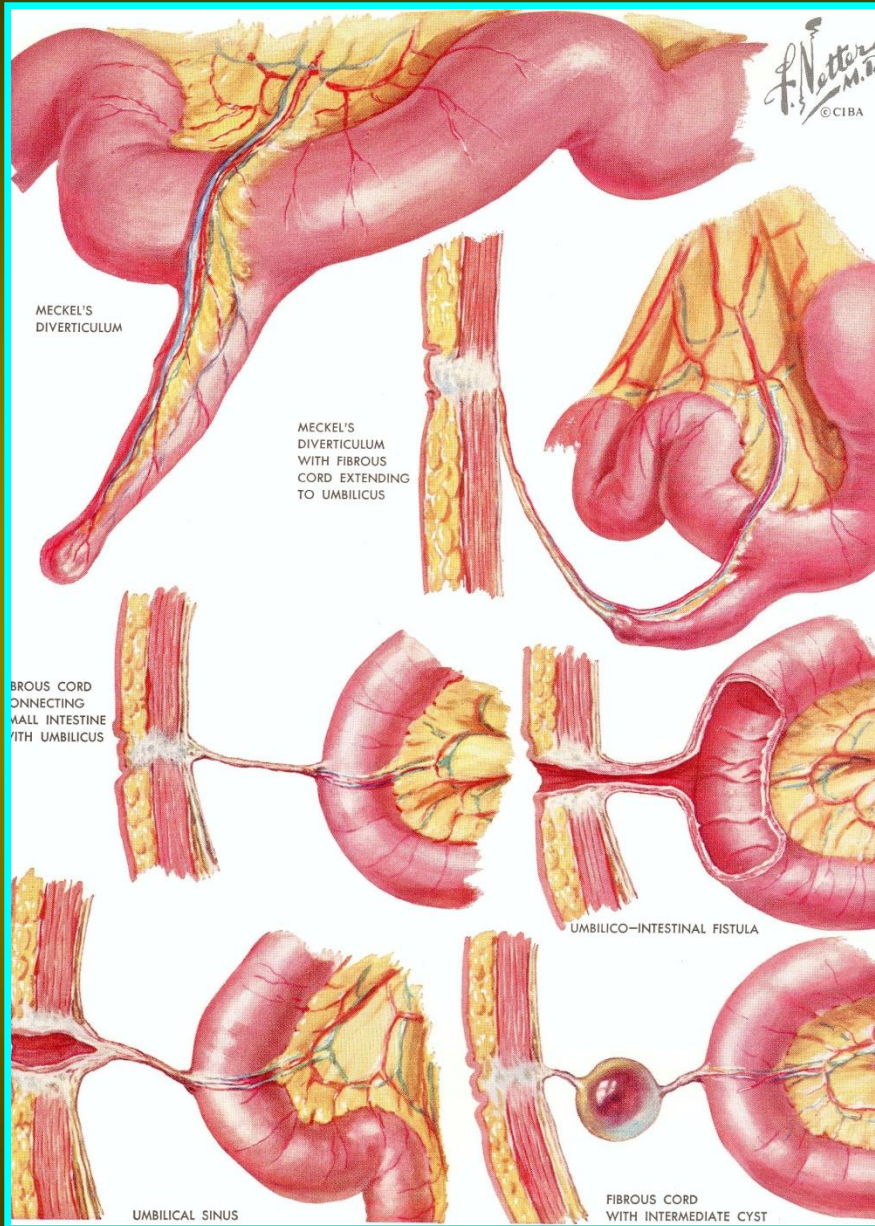
DUODENAL DIVERTICULA



**CANCER OF AMPULLA IS A RARE TUMOR,
HOWEVER IT IS THE MOST COMMON
LOCALISATION OF A MALIGNANT TUMOR IN
THE SMALL INTESTINE**

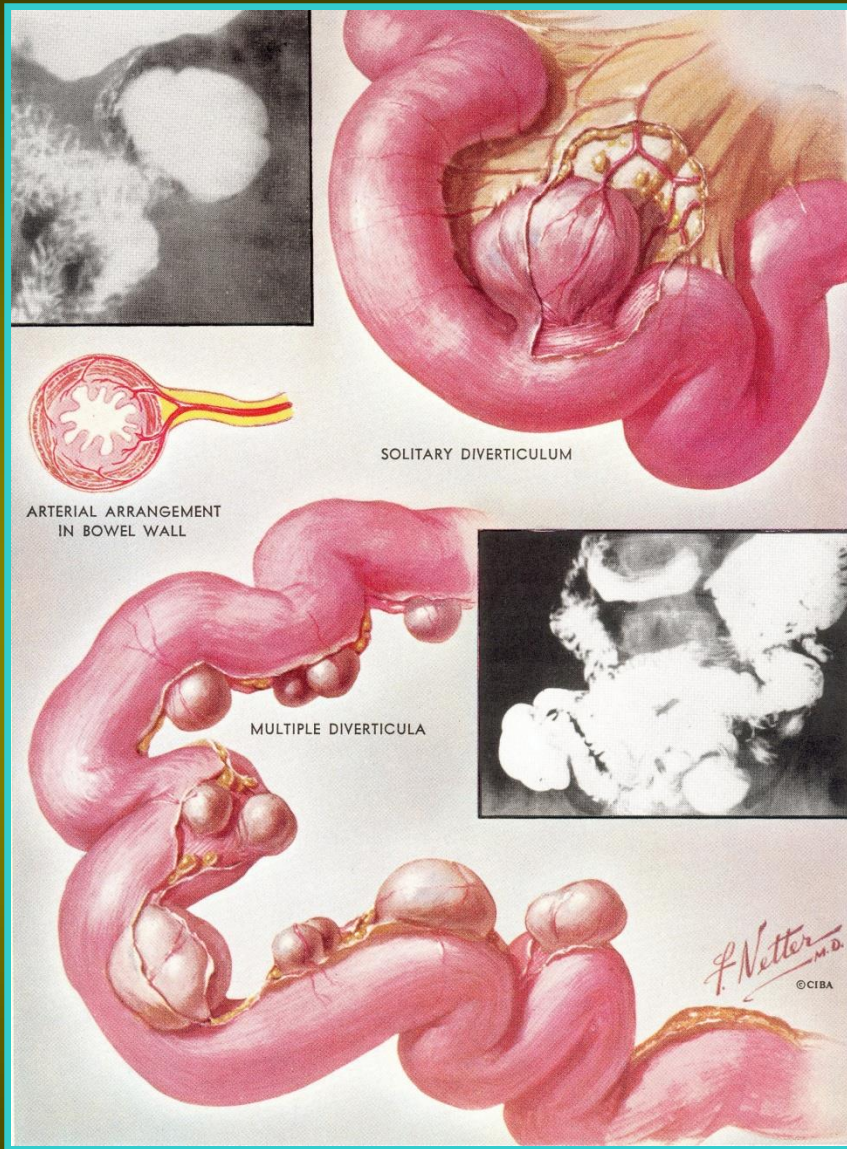
MECKEL DIVERTICULUM

OMPHALOMESENTERIC DUCT



ONE OF THE MOST
COMMONLY OBSERVED
DIVERTICULUM IN THE
INTESTINES WITH A STABLE
LOCALIZATION ABOUT 1CM
OF THE BAUHIN'S VALVE IN
ADULTS

DIVERTICULOSIS

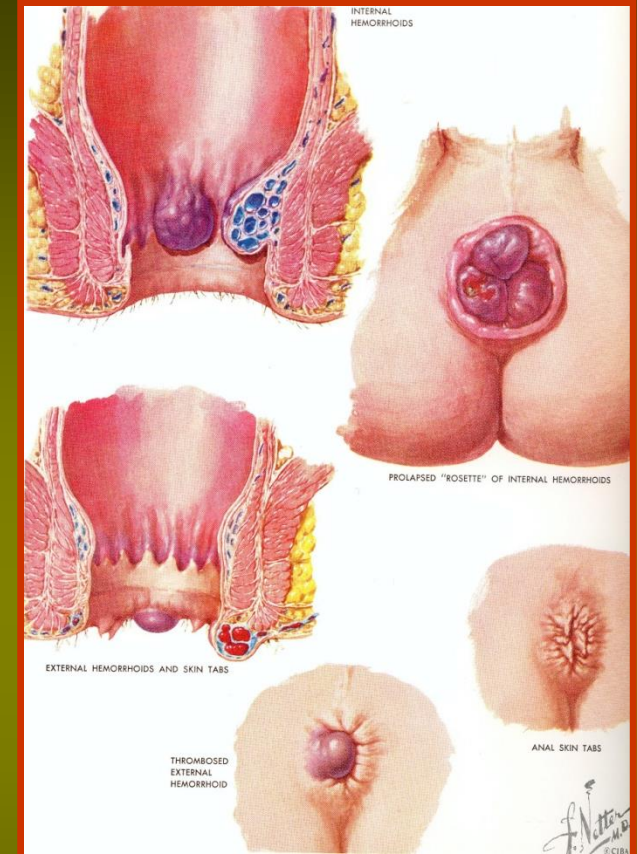
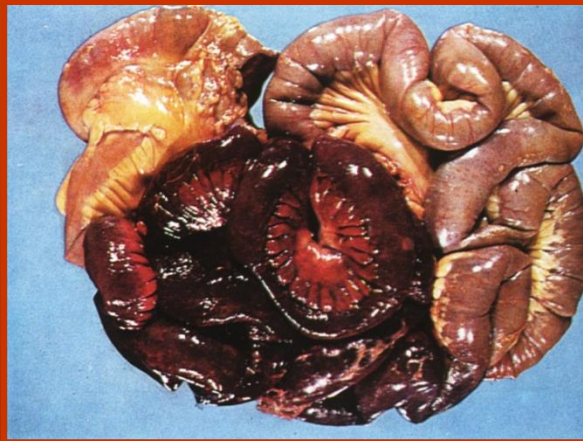
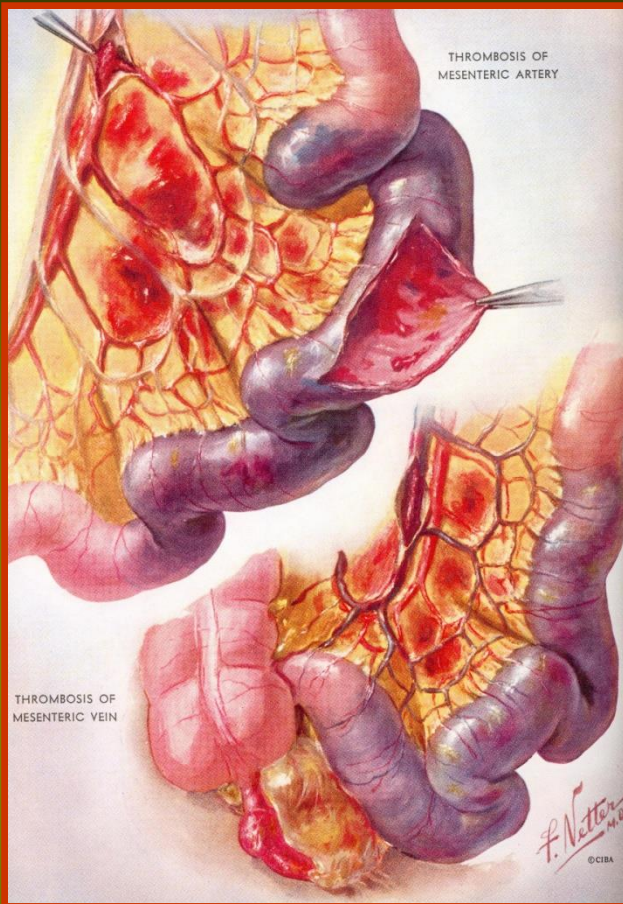


DIVERTICULUM OF THE SMALL INTESTINE IS RARE; IT IS MORE COMMON IN THE LARGE INTESTINE

INTESTINAL PATHOLOGY

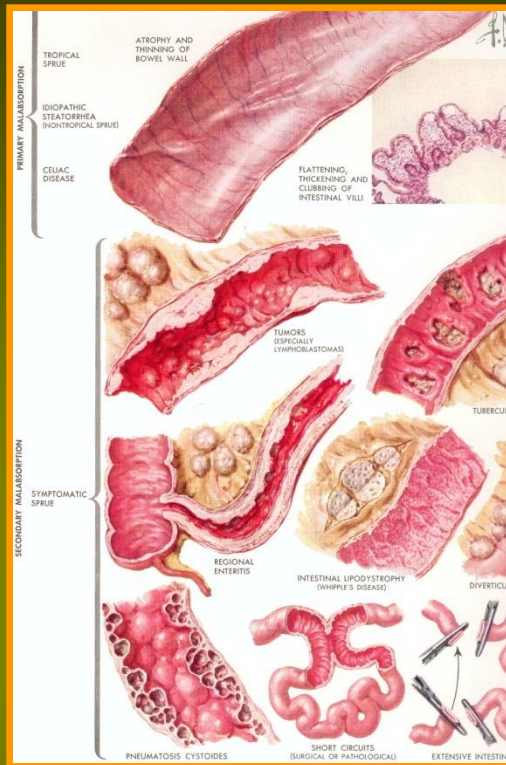
**DISTURBANCES
IN CIRCULATION**

**THROMBOSIS OR
EMBOLUS OF
MESENTERIC
VESSELS AND
INFARCT IN
INTESTINES**

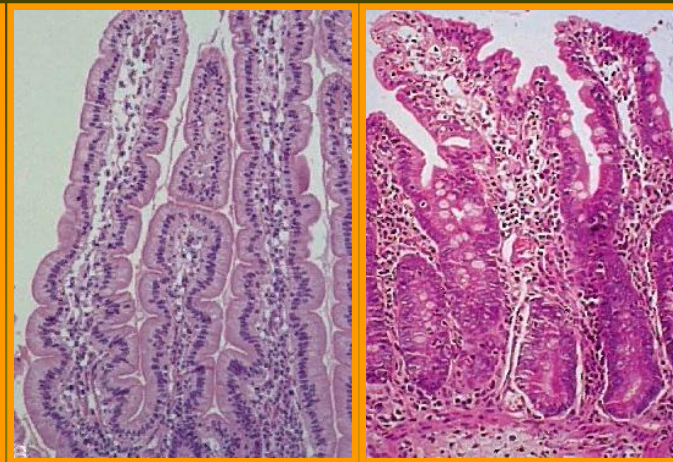


**VARICES OF ANUS, VERY
COMMON**

MALABSORPTION SYNDROME

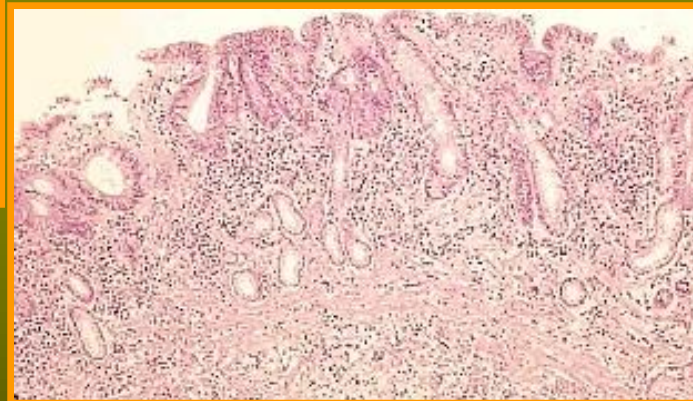


PRIMARY AND RELAPSING MALABSORPTION SYNDROME

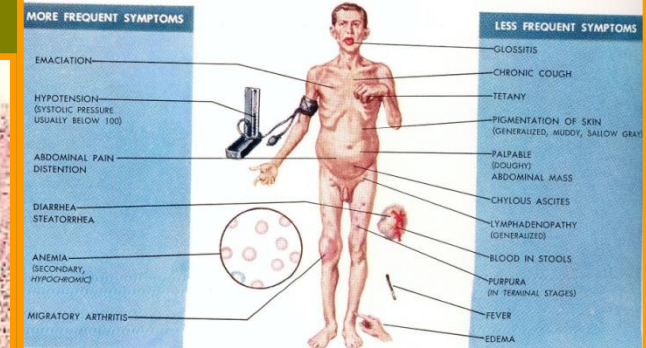
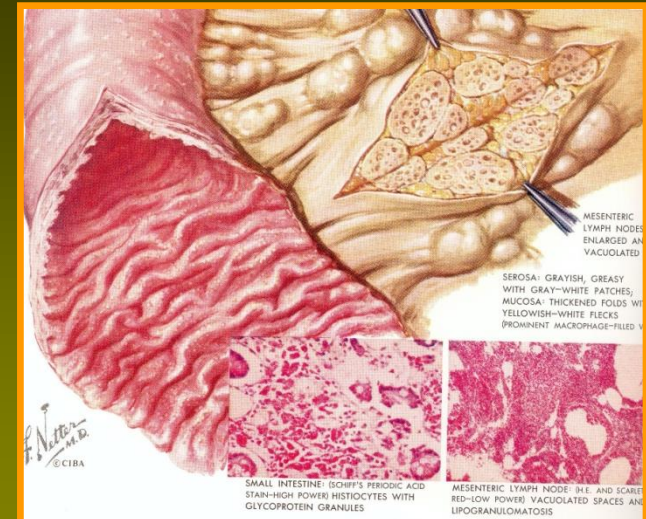


NORMAL VILLI

SHORTENING OF VILLI



ADVANCED ATROPHY OF VILLI



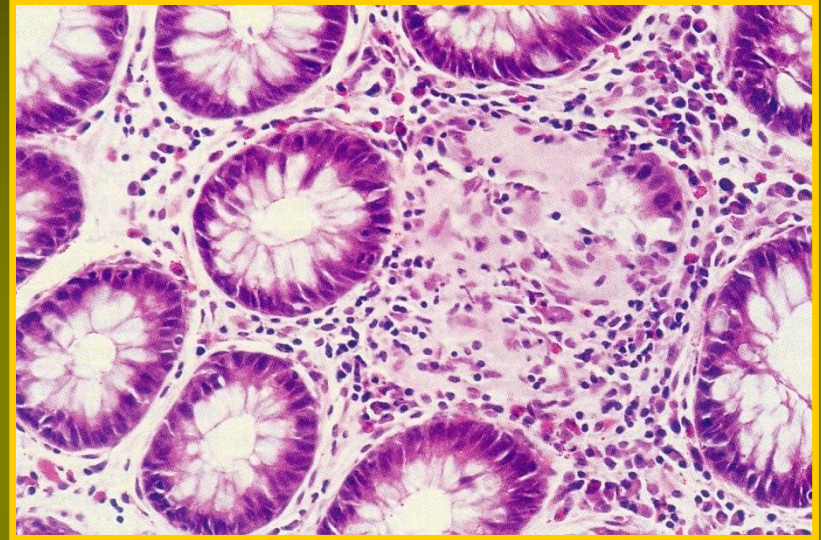
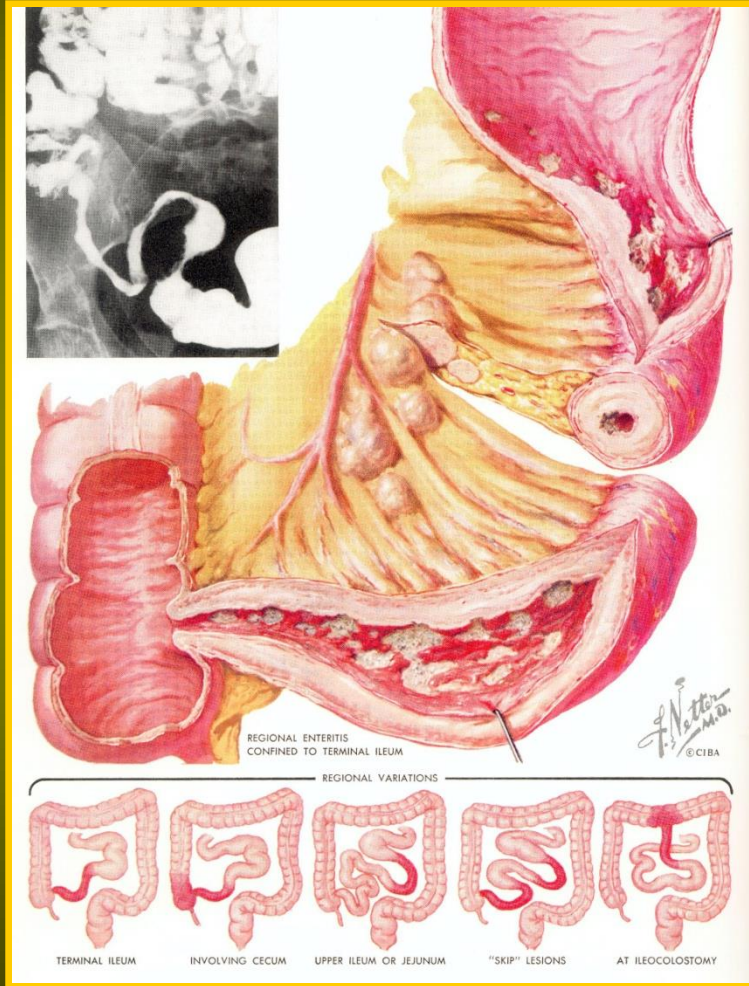
WHIPPLE'S DISEASE

ONE OF THE MOST COMMON SYNDROMES OF MALABSORPTION – GLUTEN ENTEROPATHY INVOLVES AN INTOLERANCE OF GLUTEN. IT IS FOLLOWED BY THE ATROPHY OF VILLI AND DECREASE OF THE ABSORPTION SURFACE. WHIPPLE'S DISEASE IS A SYSTEMIC DISEASE, WITH THE PRESENCE OF VILLI AND MACROPHAGES FILLED WITH GLYCOPROTEINS – LATER PROBLEMS WITH ABSORPTION AND FATTY DIARRHOEA (FAT IN STOOL).

INTESTINAL PATHOLOGY

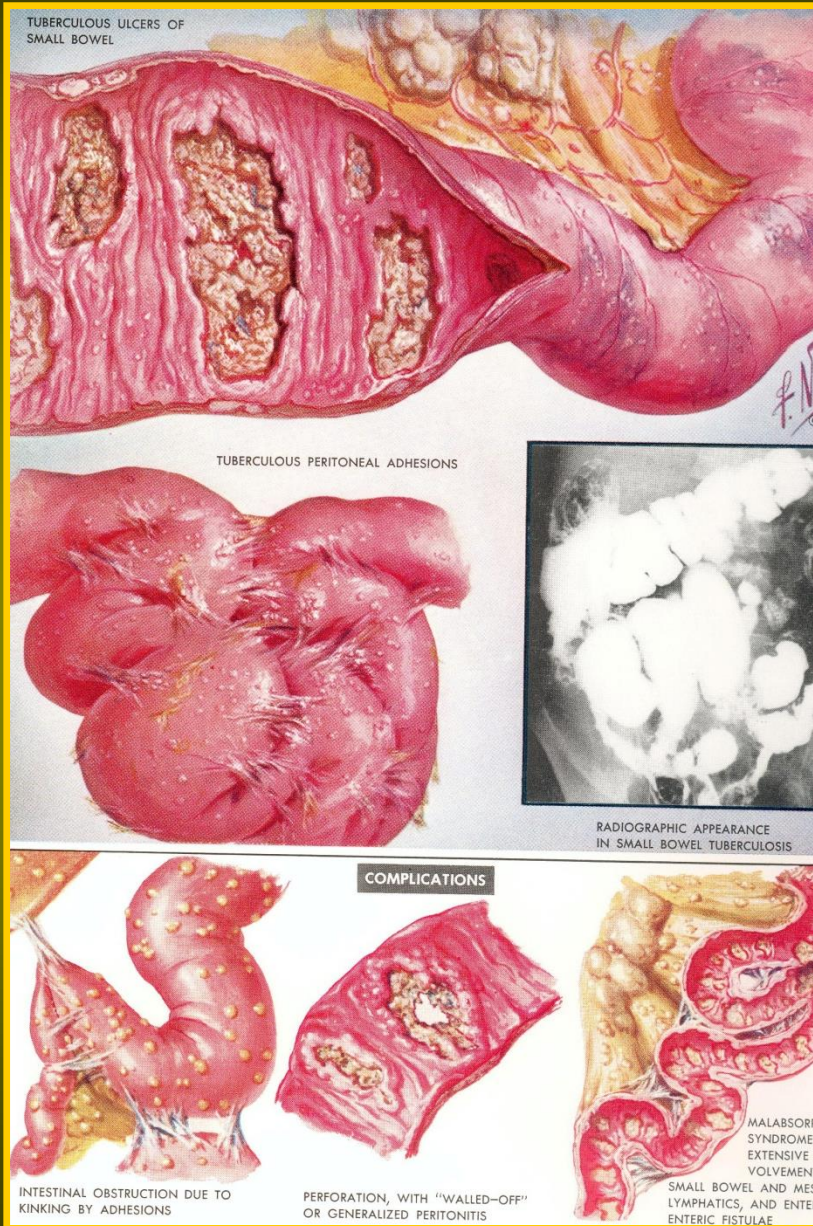
INFLAMMATION

REGIONAL ENTERITIS – CROHN DISEASE



REGIONAL ENTERITIS

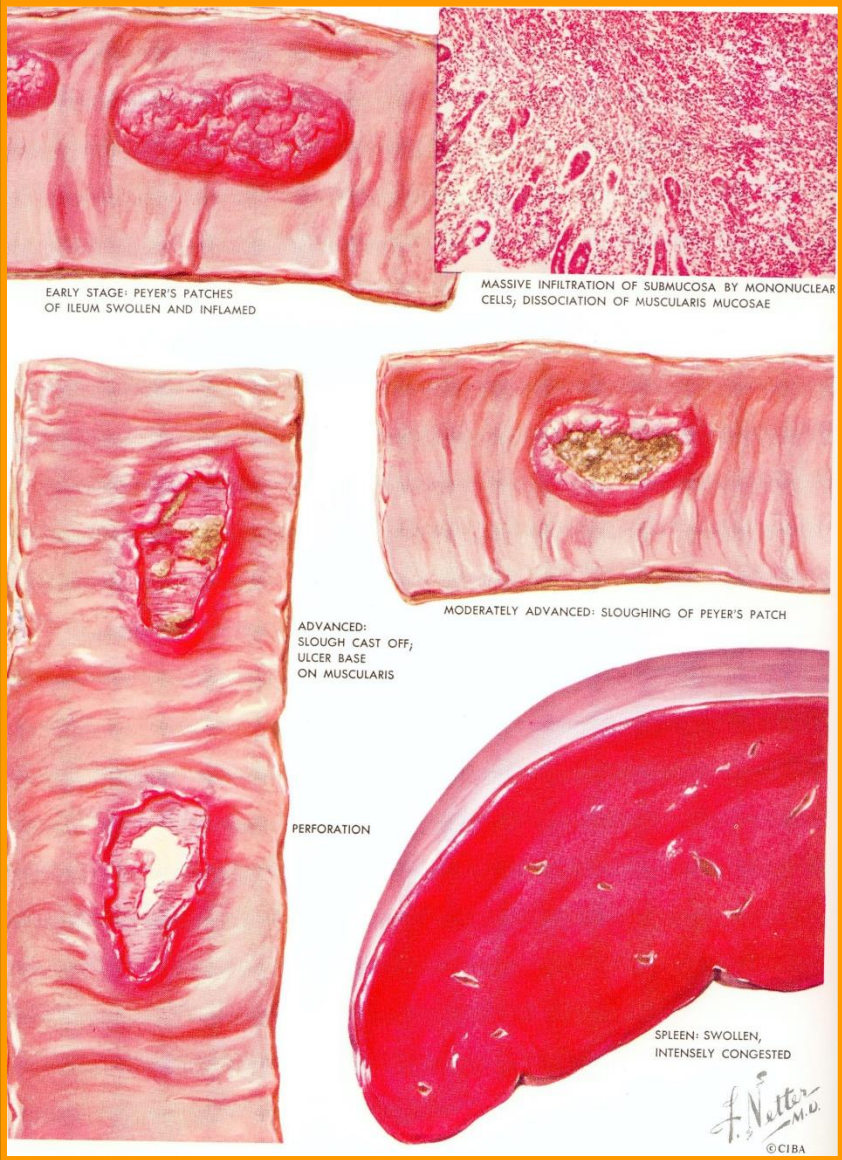
TUBERCULOSIS OF INTESTINES



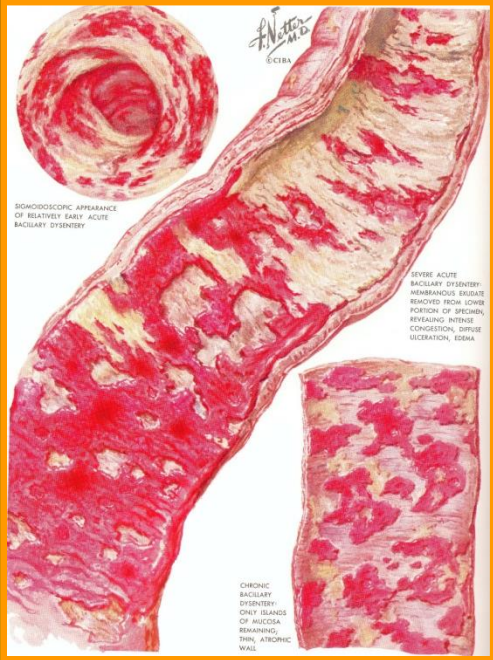
MILIARY TUBERCULOSIS

1. **PRIMARY TUBERCULOSIS**
(primary focus usually in the wall of small intestine)
2. **POSTPRIMARY TUBERCULOSIS:**
 - A. **MESENTERIC TABES**
 - B. **ULCERATING TUBERCULOSIS**
 - C. **MILIARY TUBERCULOSIS**

TYPHOID FEVER - TYPHUS ABDOMINALIS



ILEO-COLOTYPHUS

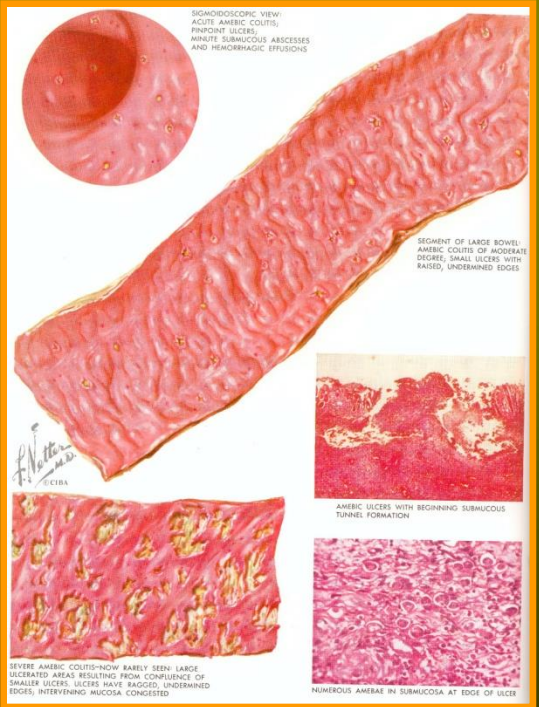


BACTERIAL DYSENTERY

BACTERIA IN THE LEFT HALF OF COLON AND ANUS

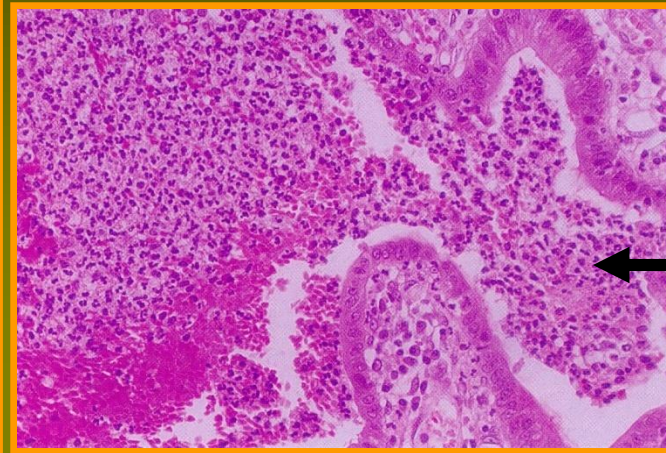
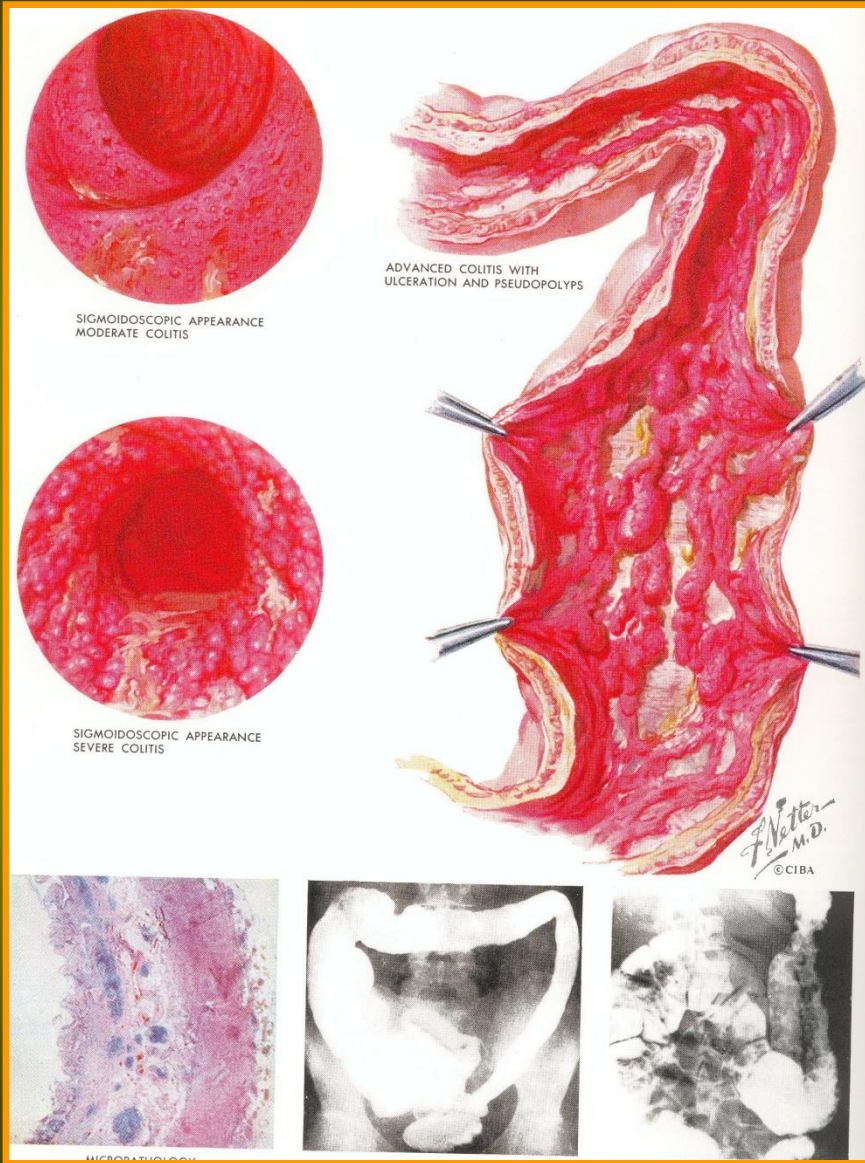


AMEBIC – RIGHT HALF OF COLON

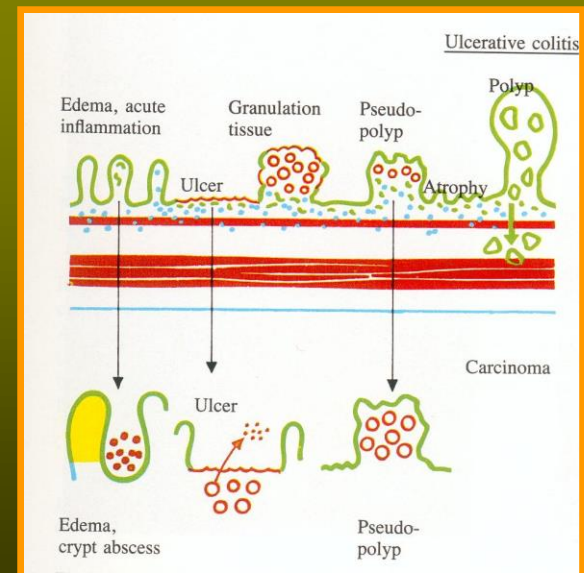


ULCERATIVE COLITIS

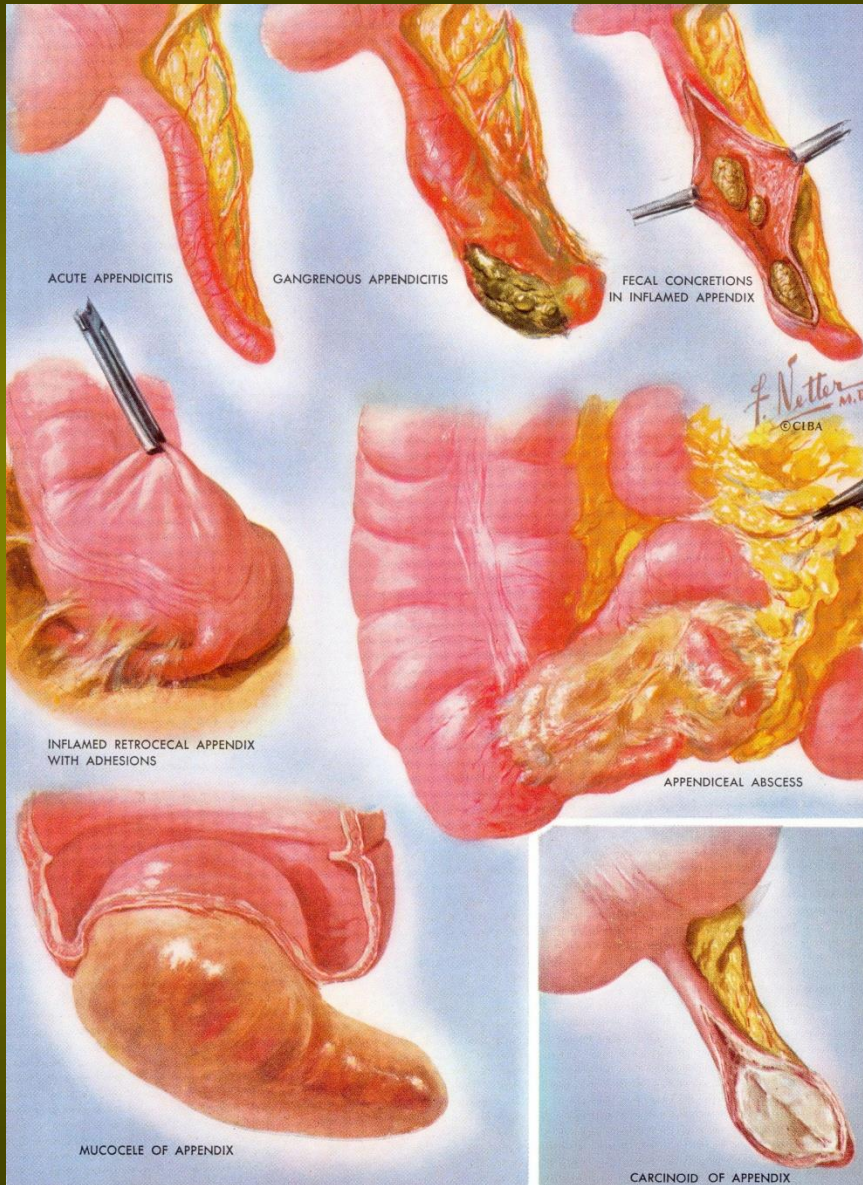
**DISEASE THAT IS CHRONIC OR ACUTE,
RELAPSING AND OF UNKNOWN ETIOLOGY.
PRESENCE OF MULTIPLE ULCERS**



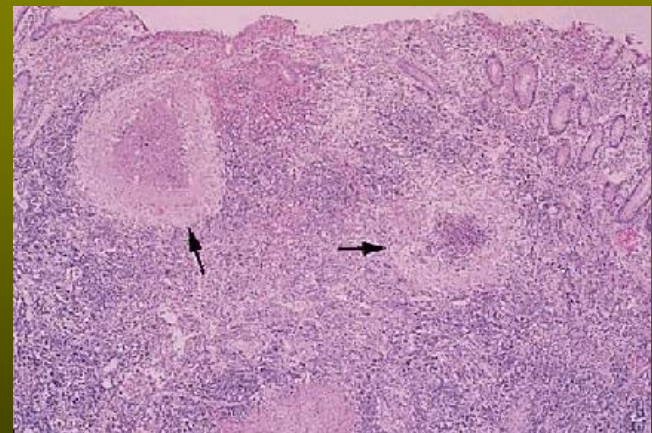
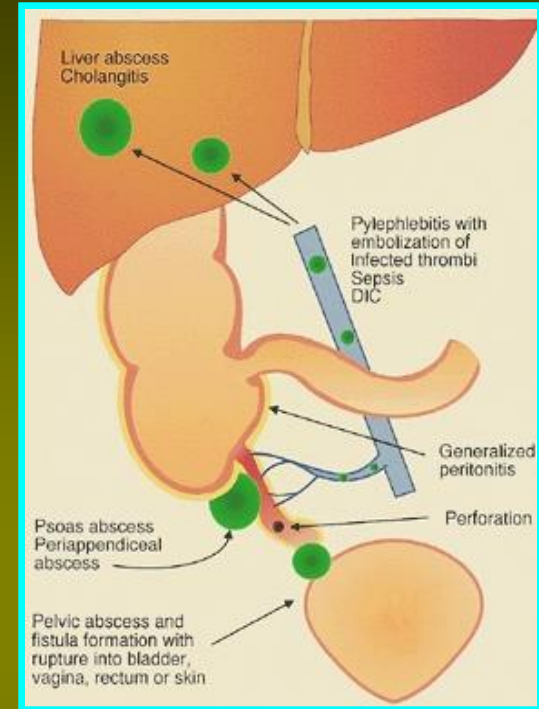
MICROABSCCESS



APPENDICITIS



COMPLICATIONS OF APPENDICITIS



YERSINIOSIS

THE END

