

Gastrointestinal

tract and

peritoneal

tuberculosis

1 - Tuberculous peritonitis:

- **Route of infection:**
- 1-Direct spread from tuberculosis of intestine, mesenteric lymph nodes and fallopian tubes.
- 2-Lymphatic spread from tuberculosis of lung and pleura
- 3-Haematogenous spread usually following reactivation of foci from a primary lung focus.
- **Types**
- 1-Wet or ascetic type
- 2-Dry or adhesive type

Clinical picture:

- Symptoms develop insidiously over weeks or months
- Abdominal pain and distension (abdominal pain may be aching, dull, vague or cramp-like and may be generalized or localized)
- Weight loss, anorexia and vomiting, fever.
- On examination: ascites, palpable mass, hepatomegaly, splenomegaly, intestinal obstruction may occur

Investigations:

- **1-Abdominal sonar**
- **2-Aspiration of ascetic fluid** which is straw-colored exudates with predominance of lymphocytes, ascetic fluid protein $>2.5\text{g/L}$, ascetic lactate dehydrogenase greater than 90 IU/L
- **3-Direct smear** and culture of peritoneal fluid.

■ **4-Peritoneal biopsy** is best performed laparoscopically or by minilaparotomy.

■ **-Chest radiograph** may reveal evidence of past or present pulmonary tuberculosis

The background of the slide features a pattern of stylized autumn leaves in various shades of orange and brown, set against a darker orange gradient background. The leaves are scattered across the frame, creating a textured, seasonal aesthetic.

2-Tuberculous enteritis:

- The gastrointestinal tract may be involved in four mechanisms:
- 1-Swallowing infected sputum (M.tuberculosis)
- 2-Ingestion of contaminated milk (M.bovis)
- 3-Haematogenous spread
- 4-Direct extension from adjacent organs

Clinical picture:

- Abdominal pain, weight loss, fever, weakness, nausea, vomiting, anorexia,
- abdominal distension, constipation, diarrhea, night sweats, amenorrhea, hemorrhage. Abdominal pain may be generalized or localized to right iliac fossa.
- Palpable mass, tenderness.
- The classic (doughy abdomen) due to extensive intraabdominal fibrous adhesion and inflammation is uncommon

NB-acute abdominal ■
emergencies
diagnosed as acute
appendicitis or
intestinal obstruction

Investigations:

- Stool culture and direct smear.
- Abdominal sonar
- Tuberculin skin test
- Barium studies of small intestine and colon
- Chest radiography
- During operation

- Computerized tomographic scanning may demonstrate lymphadenopathy, hepatosplenomegally, bowel involvement or intrasplenic or intrahepatic masses.
- Colonoscopy.
- Exploratory laparotomy
- PCR assay on endoscopic biopsy specimen

Genitourinary

tract

tuberculosis

- Genitourinary tract tuberculosis results from haematogenous spread to the kidney, with subsequent spread to the ureters, bladder, prostate, seminal vesicles, epididymides and female genital tract

Clinical picture:

- Commonly, patients present with frequency, dysuria, loin pain, nocturia and haematuria.
- Scrotal swelling due to epididymo-orchitis.
- Haematospermia
- Positive urine culture
- Perinal sinuses, scrotal sinuses, beaded vas deferens or

- indurations of the prostate or seminal vesicles.
- Weight loss, fever, asthenia.
- Female genital tract tuberculosis presents with infertility, menorrhagia or pelvic inflammatory disease.
- Palpable adnexal mass on pelvic examination

Investigations:

- An intravenous pyelogram.
- Urine—direct smear and culture for AFB (early morning urine specimens)
- Chest film
- Tuberculin skin test

- Female genital tract tuberculosis is usually diagnosed following the histological or microbiological examination of endometrial curetting.

Cutaneous tuberculosis:

- Lupus vulgaris: with apple jelly nodules and scaly plaques.
- Diagnosis of TB of skin is made by pathological and bacteriological examination of biopsy.



THANK YOU