Ospe block G pathology

Malaria parasite

- 1. Plasmodium 4 types
- Vivax , falciparum, malariae , ovale.
- 1. Pateint presented with high grade fever recurrent in nature after 24 hrs., vomiting, nausea, headache, blood test showed Plasmodium parasite.
- 2. Spread by female anopheles mosquito.

circular gametocyter

lymphocyte



plasmodium Falciparum

gametocyte, banana or boat shaped

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LEISHMANIA

- Caused by phlebotomine sand fly.
- Old world leishmaniasis
- L. Donovani, tropica, infantum, major, aethiopica.
- New world leishmaniasis
- L. Perivana, chagasi, mexicana complex, brazilliniesis complex.present in reticolendothelium system cells (macrophages, monocytes, neutrophils).

Amastigote form in humans. Non mobile, round, kinetoplast and nucleus, cytoplasm stains blue.

 Pateint present with fever, weightless, hepatosplenomegaly, anemia, thrombocytopenia, leukaemia.

leishmania donovani LD BODIES

Hydatid cyst.

- Cuased by larva of echinococus granulosus(tapeworm)
- Definitive host is dog's
- Intermediate host is cattle, sheep, goats and pigs.
- Accidental host is human.
- Pateint with abdominal pain, nausea vomiting in case of liver cyst.
- Pateint with chronic cough, chest pain, shortness of breath in lungs cyst.
- cyst Puts pressure on organs it is present in so pateint would show different symptoms accordingly
- Fibrous wall mostly made of host cells, germinal epithelium on the inner side, cyst fluid filled cavity, protscolex .
- Should remove cyst without bursting it.



protoscolices

minolepithelium

Granulation tissue.

- 1. Highly vascularity tissue present during healing containing
- New capillaries
- ProliferatProliferating fibroblast cells
- Residual inflammatory cells
- 2 phases of granulation growth. Angiogenesis(early phase), fibrogenesis(later stage).
- 2. Gross morphology is red soft to touch, moist and bumpy, granular appearance.
- 3. Microscopically contains the above listed 1st point.

GRANULATION TISSUE

<u>Small, basophilic agranular</u> with minimal peripheral neovascularization cyroplasmic rim

they are elongated spindle shaped

<u>macrophages</u>, neutrophils <u>are also present nut not</u> visible here

Granuloma

- Circular mass of caseous necrotic tissue in middle, surround by epitheliod cells(sole shaped macrophages), outer to this is lymphocytes rim, if repaired begins so outer most layer if fibroblast.
- May contain giant cells.
- Formed if chronic inflammation causing agent persists.
- Pateint came with case of tuberculosis, as mycobacterium tuberculosis causes granuloma formation in lungs and other organs.

ranulomas











Chronic cholecystitis.

- Gall bladder inflammation.
- Patient presents with right hypochondriac pain may be sharp or dull pain, abdominal cramps and bloating, pain spreading to Below right shoulder, fever chills, nausea, jaundice light coloured stools.
- May cause pancreatitis, Gangrene of gall bladder leading to perforation, inflammatory enlargement of g. Bladder, cancer of g. Bladder rarely.
- 1. Gross morphology is serosa smooth and glistering may may subserosal fibrosis in places where surface seems dull, opaque gray white colour.
- 2. Microscopically. Wall thickening sue to fibrosis or muscluar hypertrophy, rotikonsky aschoff sinuses (secretory epithelial invagination), lymphocytes in lamina propria and muscluaris.





Acute appendicitis

- 1. Inflammation of appendix due to liminal obstruction by
- Fecolith
- Infective agent
- Lymphoid hyperplasia.
- Parasites.
- Tumors
- Foreign material.
- Gross. Fibrous, purulent serosa exudate, lumen with blood tinged pus, variable perforation, Obstructive agent in lumen.
- Microscopically, neutrophils in mucosa, congestion and Wall Edema in early stage and ulcerated epithelium in later stages, blood vessels thrombosis, fibrosis is prominent,
- Pateint presents with pain at mcbourney point , fever .
- Complication include peritonitis, access, Gangrene,





luminal cellular debris,

ulterated or sloughed of mucosal epithelium not the

neutrophils infiltration in

I preprie

Fibrest