**FOUNDATION BLOCK**

**PATHOLOGY DISCIPLINE**

**PRACTICAL SESSIONS**

**Coordinators : Dr. Ammar Al-Rikabi**

**Dr. Maha Arafah**

**Tutors: Male students : Dr. Amer Shafie**

**Female students : Dr. Shaesta Zaidi**

**Location : Students lab at KKUH and Girls**

**Medical College**

**Total number of sessions : Seven (7)**

**Objectives:**

At the end of these practical sessions, every student will be able to:

* Describe the pathological changes (both macro and micro) which can occur and are seen in the diseases and lesions studied in the foundation block.
* Identify the clinical manifestations of each pathological lesion.
* Correlate the morphological features with the clinical manifestations seen in the lesions and diseases studied.
* Differentiate between the normal structure and the pathological changes of the given tissue.

**Format:**

Each practical session will consist of the following:

* Short powerpoint presentation by the tutor which include explanation of the gross and microscopic preparations studied including correlation with relevant diseases and their clinical manifestations.
* Students will be asked to examine microscopic slides and pathology museum specimens relevant to the topic studied in the foundation block lectures.
* Each student will be given a CD containing pictures and explanations of the microscopic and gross specimens studied for self-directed learning.
* The students will be given the opportunity to visit the laboratories and familiarize themselves with the lab procedures.

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**Contents:**

1. **Cell injury**
2. Basic introduction to the anatomy and histology of the lung, liver, kidney and heart in order to enable the student to understand the related pathology.
3. Macroscopic and pathology musum specimens:
4. Fatty liver steatosis.
5. Coagualative necrosis in a renal infarction.
6. Liquefactive necrosis of the brain.
7. Caseous necrosis in tuberculosis of the lung.
8. Dystrophic calcification of aortic valves.
9. Atrophy of the brain, kidney and testis.
10. Left ventricular hypertrophy.
11. Prostatic hyperplasia.
12. Endometrial hyperplasia.
13. Microscopic slides and pictures of:
14. Fattychange of the liver.
15. Dystrophic calcification in the skin.
16. Coagulative necrosis in an infracted kidney.
17. Hyperplasia of the prostate.
18. Cystic hyperplasia of the endometrium.
19. Endocervical squamous metaplasia.
20. **Inflammation and Repair**
21. Macroscopic and pathology museum specimens:
22. Fibrinous pericarditis.
23. Chronic cholecystitis with stones.
24. Acute appendicitis.
25. Skin pilonidal sinus.
26. Bronchiectasis and lung abscess.
27. Brain abscess.
28. Pyaemic abscesses of the kidney.
29. Histopathology of microscopic slides and pictures:
30. Acute fibrinous pericarditis.
31. Acute appendicitis.
32. Foreign body reaction in pilonidal sinus.
33. Inflammatory granulation tissue in chronic inflammation.

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**III. Granulomas**

1. Gross (macroscopic) and pathology museum specimens:
2. Histopathology of microscopic slides and pictures:
3. Tuberculous lymphadenitis.
4. Miliary tuberculosis of the lung.
5. Tuberculosis of the kidney.
6. Bilharziasis of the colon.
7. Cutaneous leishmaniasis.
8. **Circulatory diseases**
9. Gross pathology and museum specimens:
10. Chronic venous congestion of the liver.
11. Myocardial infarction with mural thrombus.
12. Infarction of small intestine.
13. Pulmonary embolus withy infarction.
14. Histopathology of microscopic slides and pictures.
15. Chronic venous congestion of the liver.
16. Chronic venous congestion of the lung.
17. Organizing thrombus.
18. Myocardial infarction.
19. Infarcted kidney.
20. **Neoplasia: Benign and malignant tumours:**
21. Gross pathology and museum specimens:
22. Lipoma of small intestine.
23. Adenomatous polyp of rectum/colon.
24. Teratoma (Dermoid cyst of the ovary).
25. Multiple uterine leiomyomata.
26. Carcinoma of the breast.
27. Carcinoma of the esophagus.
28. Histopathology of microscopic slides and pictures:
29. Intradermal nevus.
30. Leiomyoma.
31. Chondroma.
32. Hemangioma.
33. Fibroadenoma of the breast.
34. Squamous cell carcinoma of the skin.
35. Adenocarcinoma of the large intestine.
36. Fibrosarcoma.