

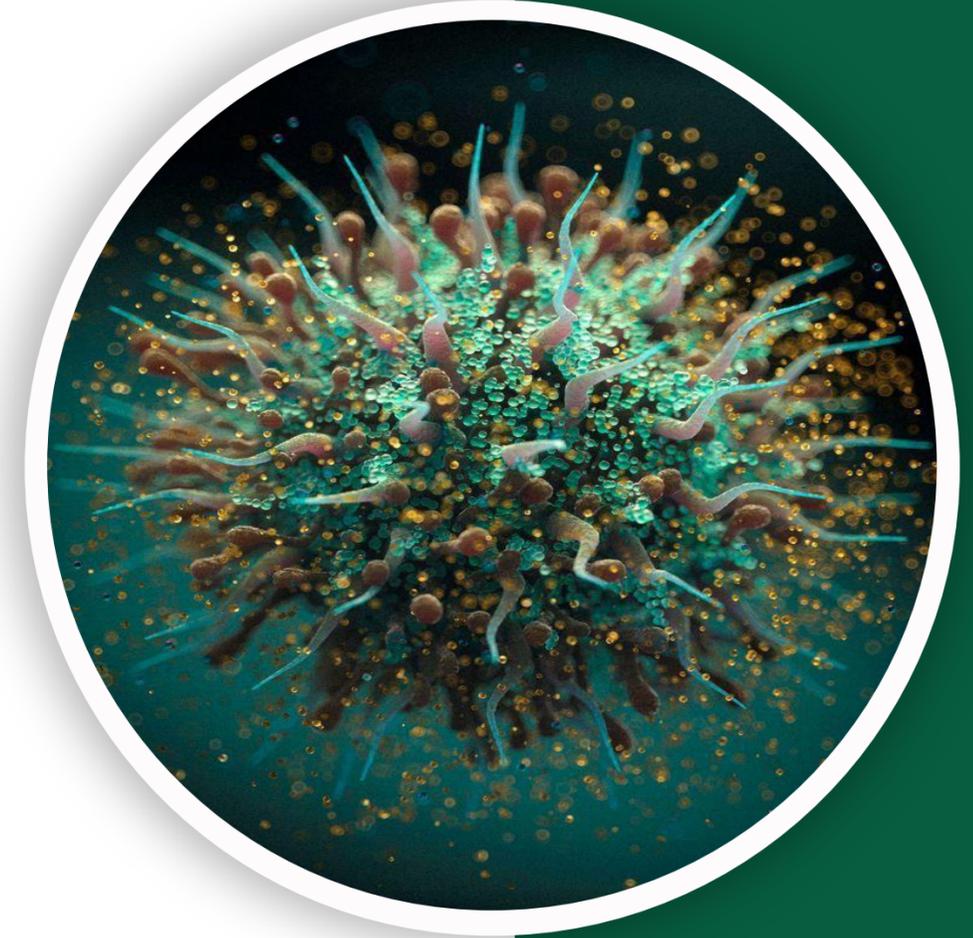
بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ
(وَفَوْقَ كُلِّ ذِي عِلْمٍ عَلِيمٌ)



جِلْدَانِ

Pathology Final | Past Papers

MSS Past Papers, Test Bank



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Past Papers

Q1: All of the following is indicative of gout over pseudogout except:

- A. Gout has a Positive birefringent test
- B. Gout is caused by hyperuricemia
- C. Gout can cause formation of Tophi
- D. Urate crystals of gout is needle-shaped

Ans:A

Q2: A patient presents with suppurative urethral discharge with a swollen ankle joint. The disease is:

- A. The most common seronegative arthropathy
- B. Autoimmune reactive seronegative arthropathy (Reiter's Syndrome)
- C. Ankylosing spondylitis
- D. Ganglion Cyst
- E. Desmoid tumor

Ans:B

Q3: Compared to Osteoarthritis, Rheumatoid Arthritis is:

- A. Suppurative
- B. Non-systemic
- C. Wear and tear
- D. True, non-suppurative autoimmune synovitis
- E. Occurs mostly in the elderly

Ans:D

Q4: A patient presents with pain in his big toe. Which of the following is the possible diagnosis?

A. Pseudogout

B. -ve birefringence rhomboid shaped crystals under of aspirate under polarizing light

C. +ve birefringence rhomboid shaped crystals of aspirate under polarizing light

D. Osteoarthritis

E. -ve birefringence needle shaped crystals of aspirate under polarizing light

Q5: You are an intern in the emergency room on Thursday night. A 12-year-old boy comes with sudden pain in his right knee and was limping when you saw him. His right knee is swollen, red and feels hot on touch. He has fever and his white blood count is 19,000/ mL with increased neutrophils. Which statement best describes this condition:

- A. Consider lower femur fracture, X-ray will be diagnostic
- B. Most consistent with juvenile idiopathic arthritis
- C. Consider acute septic (suppurative) arthritis caused by gram-positive cocci
- D. Most likely acute gouty arthritis, aspirate to check for crystals
- E. Biopsy of the joint will show necrotizing granuloma

Ans:C

Q6: Which of the following represents the correct order of events in rheumatoid arthritis:

- a) Activated B-lymphocyte - secretory plasma cell - activate T lymphocyte.
- b) Activated T-lymphocyte - activate B-lymphocyte – secretory plasma cell - rheumatoid factor.
- c) Activated macrophage - activated B-lymphocyte – rheumatoid factor.
- d) Activated T-lymphocyte - activate macrophage - secretory plasma cell.
- e) Activated CD4-lymphocyte - activated endothelium - secretion of rheumatoid factor

Q7: Big toe is a clinical manifestation of which disease:

- Answer: GOUT

Q8:A 45-year-old man came to your clinic with severe big toe pain and swelling. No history of trauma was mentioned. Aspiration of the big toe interphalangeal joint revealed needle-shaped crystals with negative birefringence. The most likely diagnosis is:

- A. Osteoarthritis
- B. Acute Gouty arthritis
- C. Sero-negative Reiter disease
- D. Rheumatoid arthritis
- E. Pseudo-gout arthritis

Ans:B

Q9: A 65-year-old woman presents with multiple hand joint pain and swelling. She complains of morning joint stiffness that improves slowly after initial movements. Bilateral ulnar deviation was noted on examination. Which one of the following tests will confirm your top differential diagnosis:

- A. Arthroscopic examination
- B. Rheumatoid factor
- C. High resolution X-ray of the hands and the feet
- D. Joint fine needle aspiration fluid examination
- E. No need for further testing; the patient has ankylosing spondylitis

Ans: B

Q10: In contrast to lipomas; liposarcomas are:

- A. Larger masses, commonly in the thigh and retroperitoneum
- B. Treated mainly by chemotherapy alone
- C. The most common soft tissue tumors
- D. Usually smaller in size
- E. Devoid of any specific genetic or molecular abnormalities

Ans:A

Q11: Rhomboid-geometric crystals were seen on joint aspirate from a 60-year-old male patient who came with right ankle joint pain and swelling. The crystals exhibit weakly positive birefringence under polarizing microscope. What is the diagnosis:

- A. Pseudogout
- B. Sero-negative arthropathy of ankle joint
- C. Acute gouty arthritis
- D. Acute exacerbation of osteoarthritis
- E. Chronic gouty arthritis

Ans:A

Q12: A patient presents with a deep infiltrative fibrous mass that appears malignant. Biopsy shows it's benign. What is the diagnosis?

- A. Desmoid
- B. Dermoid
- C. Melanoma
- D. Fibroma
- E. Ganglion cyst

Ans:A

Q13: Which of the following is correct about synovial sarcoma?

- A. Translocation is T(X;18).
- B. Triphasic.
- C. Occurs in young children mainly.
- D. Name indicates its pathogenesis.
- E. None of the above.

Ans: A

Q14: Which of the following is true about fibromatoses?

- A. Easy surgical excision
- B. FGFR3 mutations
- C. Superficial subcutaneous lesions
- D. Highly pleomorphic cells
- E. Locally destructive and infiltrative lesions

Ans: E

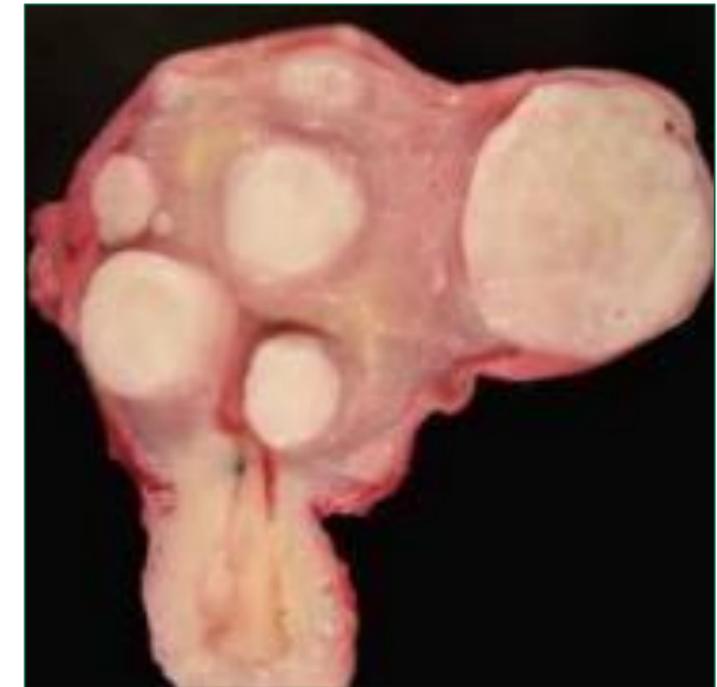
Q15: Fibromatoses diseases are best characterized by:

- A. Easy surgical excision with low recurrence rate.
- B. Fibroblast growth factor receptor 3 mutations.
- C. Locally destructive and infiltrative lesions.
- D. Highly pleomorphic cells under the microscope.
- E. Almost all are superficial subcutaneous lesions.

Ans: C

Q16: Which of the following is correct about the following tumor?

- A. Malignant
- B. Lipoma
- C. Benign smooth muscle tumor with no mitosis or necrosis
- D. Leiomyosarcoma
- E. None of the above



Ans:C

Q17: True regarding fibrous tumors:

- A. Fibrosarcoma is always benign and self-limited.
- B. Nodular fasciitis is a malignant tumor requiring excision.
- C. Superficial fibromatoses are always encapsulated and non-invasive.
- D. It is important not to diagnose nodular fasciitis as malignant.
- E. Desmoid tumors commonly metastasize to lymph nodes.

Test Bank

1) A 55-year-old man presents with acute pain in his right first metatarsophalangeal joint. Joint aspirate shows negatively birefringent needle-shaped crystals. What is the most appropriate acute treatment?

- A) Allopurinol
- B) Colchicine
- C) Methotrexate
- D) Anti-TNF therapy

Ans:B

2) A 62-year-old woman has a painful, swollen knee. Joint fluid shows rhomboid-shaped, positively birefringent crystals. What underlying condition may predispose her to this disease?

- A) Rheumatoid arthritis
- B) Diabetes mellitus
- C) Gout
- D) Systemic lupus erythematosus

Ans:B

3) A 52-year-old man with chronic kidney disease presents with monoarticular joint pain. Aspirate reveals needle-shaped negatively birefringent crystals. What enzyme is inhibited by allopurinol to prevent future attacks?

- A) Xanthine oxidase
- B) Phospholipase A2
- C) Cyclooxygenase
- D) Lipoxxygenase

Ans:A

4) A 12-year-old girl presents with persistent knee pain and swelling for 8 weeks. ANA is positive, but rheumatoid factor is negative. What distinguishes her condition from adult RA?

- A) Presence of joint erosions
- B) Symmetrical joint involvement
- C) Large joints affected more than small joints
- D) High titer of anti-CCP antibodies

Ans:C

5) A 45-year-old man presents with pain and swelling in his right big toe after a seafood-heavy dinner and alcohol. What lab abnormality would support the diagnosis?

- A) Low serum calcium
- B) High ESR
- C) Hyperuricemia
- D) Elevated creatine kinase

Ans:C

Q6: Which tumor is most likely to occur in a patient with a CTNNB1 mutation and aggressive local recurrence but no metastasis?

- A. Fibrosarcoma
- B. Rhabdomyosarcoma
- C. Leiomyosarcoma
- D. Deep fibromatosis
- E. Synovial sarcoma

Ans: D

Q7: Which of the following features is useful for distinguishing a dysplastic nevus from a common melanocytic nevus?

- A. Small size and well-demarcated borders
- B. Presence on sun-exposed skin only
- C. Compound histological architecture
- D. Fusion of junctional nests with cytologic atypia
- E. Lack of immune cell infiltration in the dermis

Ans:D

Q8:A patient with Gardner syndrome is found to have a large abdominal wall tumor composed of bland fibroblasts. What is the most likely diagnosis?

- A. Fibrosarcoma
- B. Nodular fasciitis
- C. Deep fibromatosis
- D. Leiomyoma
- E. Undifferentiated pleomorphic sarcoma

Ans:C

Q9: Which of the following soft tissue tumors is most likely to present with prominent hemorrhage, necrosis, and high mitotic activity in the retroperitoneum of an adult woman?

- A. Nodular fasciitis.
- B. Leiomyosarcoma.
- C. Synovial sarcoma.
- D. Fibrosarcoma.
- E. Superficial fibromatosis.

رسالة من الفريق العلمي:

عن أبي أيوب الأنصاري - رضي الله عنه -، عن النبي - صلى الله عليه وسلم - أنه قال:

"مَنْ صَامَ رَمَضَانَ، ثُمَّ أَتْبَعَهُ سِنًا مِنْ شَوَّالٍ، كَانَ كَصِيَامِ الدَّهْرِ."

رَبِّ تَقَبَّلْ يَسِيرَ الْعَمَلِ

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Corrections from previous versions:

Versions	Slide # and Place of Error	Before Correction	After Correction
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V1 → V2			