

1. In 2013, Angelina Jolie announced that she had undergone prophylactic bilateral mastectomy due to a maternally inherited pathogenic mutation that caused an increased risk of developing breast cancer. What is INCORRECT about this particular gene?

- A) It is a tumour suppressor gene
- B) Tumours that are positive for this genetic mutation are triple negative tumours usually with a poor prognosis
- C) The most common histological pattern associated with this mutation is papillary
- D) It is present on chromosome 17

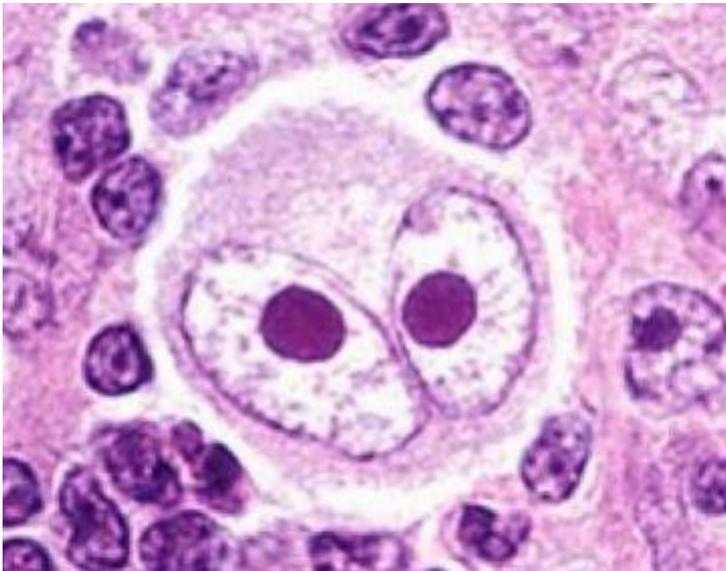
Ans C) The most common histological pattern associated with this mutation is papillary

2. Splenic conditioning is a process mainly occurring in

- A) Thalassemia
- B) Hereditary Spherocytosis
- C) Sickle Cell Trait
- D) Iron deficiency anaemia

Ans B) Hereditary Spherocytosis

3. Hey folks, if he doesn't respond to your texts, doesn't comment on your pictures, is CD30+ve and CD15+ve, is binucleate and looks like this, he is not your man, but is a –



Ans- Reed-Sternberg Cell

4. A man presents with recurring renal stones. This was found to be calcium stones. What is the most likely underlying disorder?

- A) Anaemia of chronic disease
- B) Factor VIII deficiency
- C) Hyperaldosteronism

D)Hyperparathyroidism

Ans D) Hyperparathyroidism

5. Which of the following are features of Crohn's Disease?

1. Usually transmural inflammation
2. Any portion of GIT can be involved but most commonly it occurs in the terminal ileum
3. Cobblestone appearance on gross morphology is characteristic
4. Caseating granulomas are seen

A) 1,2,3

B) 1,3,4

C) 2,3,4

D) 1,2,3,4

Ans A) 1,2,3

6. The picture below shows a trade route X that linked the West to the Middle East and Asia since 130 BC. An auto-immune disease Y which is characterised by a triad of oral, ocular, and genital lesions is prevalent almost exclusively among populations along the same route. Identify X and Y.

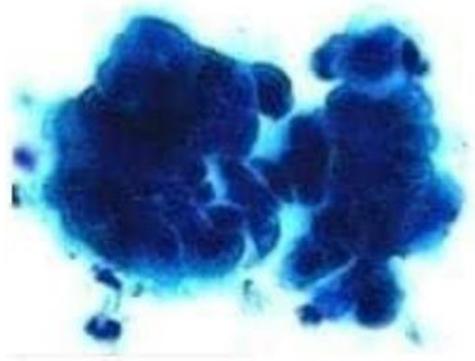
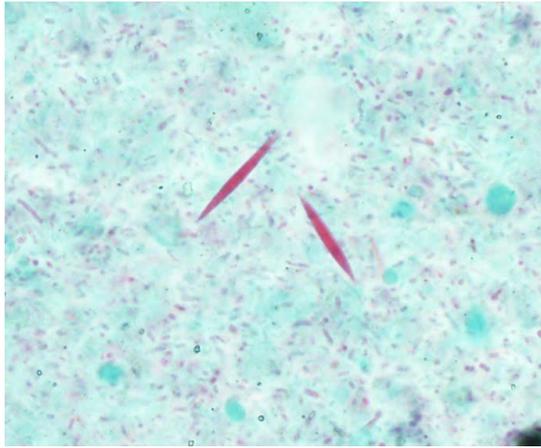
X- Silk Route, Y- Behcets Disease



7. Senile Amyloidosis is due to-
- A) Accumulation of wild type Transthyretin
  - B) Accumulation of mutated Transthyretin
  - C) Decreased levels of Transthyretin
  - D) Normal levels of mutated Transthyretin

Ans A) Accumulation of wild type Transthyretin

8. Identify the disease from the pictures given below -

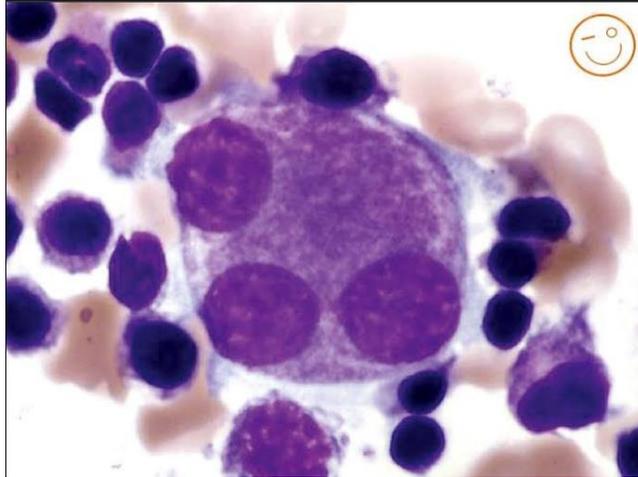


Ans- Bronchial Asthma

9. A woman presents to the OPD with exertional dyspnoea and easy fatigability. On physical examination, her gait is unstable when her eyes are closed, and has impaired vibratory sense. Further examination can include which one of the following tests?
- A) Erythrocyte glucose-6-phosphatase
  - B) Erythrocyte pyruvate kinase
  - C) Serum methylmalonic acid
  - D) Serum protoporphyrin level

Ans C) Serum methylmalonic acid

10. Identify this giant cell found in a patient's bone marrow aspirate –



Ans- Pawn Ball Megakaryocyte seen in Myelodysplastic Syndrome

11. Identify the option which contains the correctly matched pair of features -

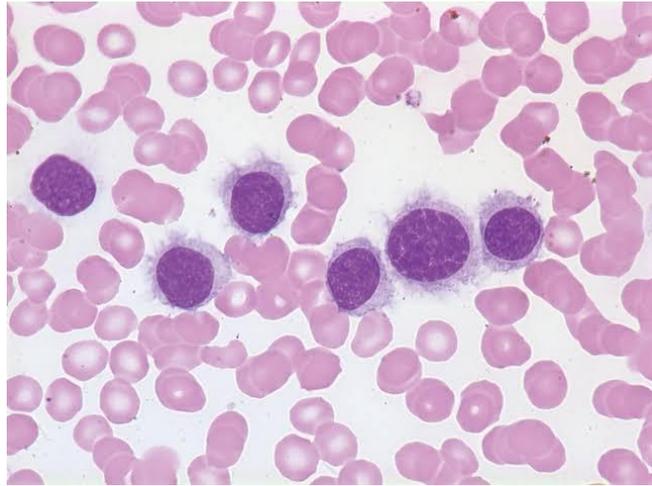
- A) Sarcoidosis - caseating granulomas
- B) Silicosis - upper lobe predominant
- C) Small cell carcinoma of lung - Azzopardi effect
- D) Adenocarcinoma of lung - salt and pepper chromatin appearance

Ans C) Small Cell Carcinoma- Azzopardi effect

12. A 44-year-old woman presented with recurrent bruising, menorrhagia, fever, night sweating, and weight loss. On examination, the patient had splenic enlargement 6 cm below the left costal margin. Complete blood count and differential showed the following:

Haemoglobin - 5.4 g/dl  
White blood cell - 2500 cells/ $\mu$ l  
Red blood cell - 1,85,000 cells/ $\mu$ l  
Platelets - 50,000 cells/ $\mu$ l  
Neutropenia was also noted.

The PBS of the patient is shown below. Identify the most probable haematological abnormality from it.



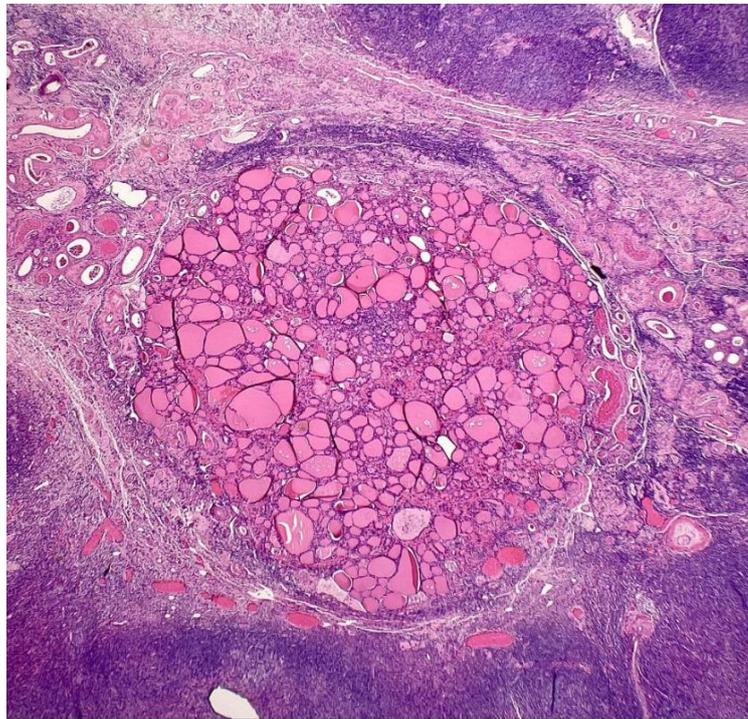
Ans- Hairy Cell Leukaemia

13. Which of the following statements is/are correct?

- A) The major cytokine involved in fibrosis is TGF-beta.
- B) Stellate cells are the major collagen producers in liver cirrhosis.
- C) The expression of selectins is induced by IL-1.
- D) All of the above.

Ans- D) All of the Above

14. Identify this tumour –



Ans- Struma ovarii

15. Autopsy diagnosis of MI can be done by immersion of tissue in –

- A) Masson's Trichrome
- B) Triphenyl Tetrazolium Chloride
- C) Crystal Violet
- D) Alcian Blue

Ans- B) Triphenyl Tetrazolium Chloride