

FOR SHORT ANSWERS

See p 866

FOR LONG ANSWERS

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ENDGAMES

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PICTURE QUIZ 1

A skin lesion on the back of a young woman's hand

This skin lesion, seen on the back of a young woman's hand, was named, unusually, after an eminent living professor of psychiatry.

- 1 Whose sign is this? In which disorder(s) might it be seen, and what causes it?
- 2 On further investigation of the patient, which abnormality is most likely to be present on biochemistry screen and on electrocardiography?
- 3 What is the management of the disorder?

Submitted by Jane Morris
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STATISTICAL QUESTION

Interpreting a low P value

When a health authority introduced a new community based vaccine promotion team, vaccination rates for the MMR (measles, mumps, rubella) vaccine improved over the next two years. The improvement was statistically significant, with a one sided P value of less than 0.01. Which of the following, if any, are true?

- a) Confounding is unlikely because of the low P value
- b) If the vaccination rates were varying randomly over time then the probability of a result like this or better would be less than 1 in 100
- c) The difference in vaccination rates is likely to be important
- d) The team approach can be recommended as better than the old approach

Submitted by John Fletcher
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PICTURE QUIZ 2

A 20 month old girl with respiratory distress

A previously well 20 month old girl presented to the emergency department with a history of fever and tachypnoea. She was accompanied by non-English speaking grandparents, and the available history was limited. She was tachycardic on arrival, with a heart rate of 168 beats a minute, as well as a raised respiratory rate of 52 breaths a minute. Widespread wheeze was audible, and she was given back to back bronchodilator therapy via a nebuliser.

She remained tachypnoeic (respiratory rate 38 breaths a minute), with increased air entry on the right side compared with the left. She was, however, free of wheeze. In view of the differential air entry, we undertook chest radiography (figure).

- 1 Describe the radiographic abnormality
- 2 What is the most likely cause for such radiographic appearances?
- 3 What is the next step in the management of this child?

Submitted by D S Urquhart, S M Iqbal, J Bowman, and S Suresh
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ON EXAMINATION QUIZ

Upper gastrointestinal tract

The answer to this question and more questions on this topic are available from www.onexamination.com/endgames until midnight on Wednesday.

This week's quiz is on the upper gastrointestinal tract and is taken from the MRCS Part A examination.

A 70 year old man presented with insidious onset of jaundice and some weight loss. On examination, his gallbladder was palpable in the right upper quadrant. Liver function tests showed a raised bilirubin, grossly raised alkaline phosphatase, and a mildly raised aspartate transaminase.

What is the most likely diagnosis?

- Carcinoma of the pancreas
- Cholangiocarcinoma
- Cholangitis
- Gallstone in the common bile duct
- Infective hepatitis
- Mirizzi's syndrome