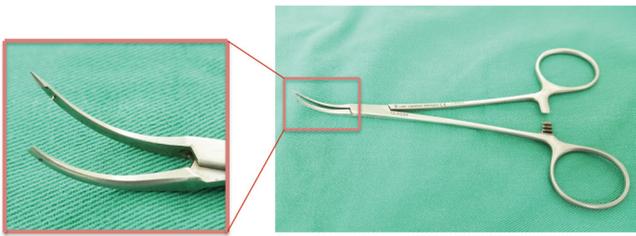


ORTHOPAEDIC CLINICAL QUIZ

The following questions are based on the photographs and images provided. Answers and further information are available in pages 66-67

Jayaletchumi G, Mansor A, Ahmad TS
 Department of Orthopaedic Surgery, University Malaya, Kuala Lumpur, Malaysia

We would like to acknowledge the Conjoint Board of Orthopaedics Malaysia and departmental academic staff who have contributed material for the Quiz.



Question 1

This is a surgical instrument frequently used in orthopaedic surgery

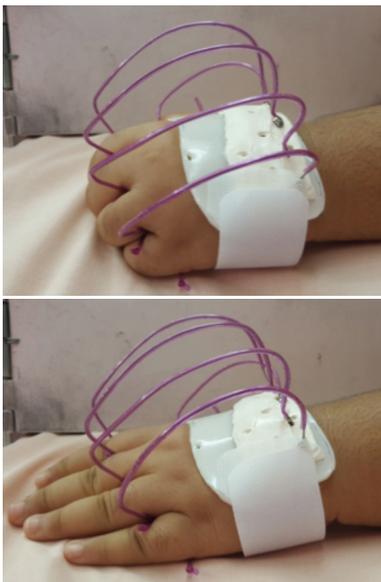
- Name the instrument. (2 marks)
- Describe two (2) special features and their functions. (3 marks)
- List three (3) surgical procedures that utilize this instrument. (3 marks)
- Name the suturing technique it is used for. (2 marks)



Question 2

This patient has a common stump complication following a transtibial amputation.

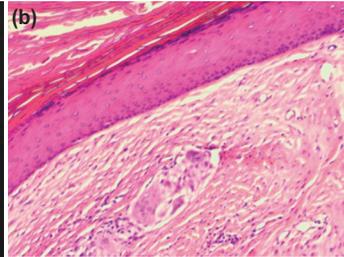
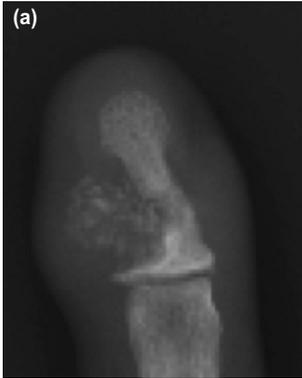
- Describe the clinical features. (4 marks)
- State two (2) possible effects of the above complication to the patient. (2 marks)
- Describe the surgical technique used for muscle stabilization during transtibial amputation that would prevent the complication. (4 marks)



Question 3

This is a modified splint applied to the hand for rehabilitation.

- Describe the parts of the splint above. (4 marks)
- State two (2) functions of the splint. (2 marks)
- State the clinical indication for this splint? (1 mark)
- Name three (3) contraindications for the use of this splint. (3 marks)



Question 4

A 70-year old lady, had a history of fingertip injury during childhood followed by surgery. She had been having a nail deformity ever since, with frequent infections which resolved with antibiotics. Six months ago, she noticed an increasing swelling at the lateral nail fold. Radiograph and histopathological images are shown.

- Describe the radiographic findings in (a). (3 marks)
- Describe the histopathological findings in (b). (2 marks)
- State your diagnosis. (1 mark)
- Discuss the options of surgery. (4 marks)



Question 5

A 25-year old office boy, right hand dominant, presented with a closed fracture of right 4th and 5th metacarpals following a road traffic accident. There was overlapping of the ring finger over the middle finger. Surgery was performed. Pre- and post-surgery radiographs (AP view) are shown.

- Describe the pre-surgery radiographic findings as shown in radiograph (a). (3 marks)
- Name the fixation techniques used for each metacarpal and discuss the principles and rationale for the choices. (6 marks)
- State the appropriate post-operative plan. (1 mark)



Question 6

A 64-year old lady with hypertension and diabetes mellitus, presented with right hip pain which had been progressively worsening in last 3 years. The pain was worse after prolonged walking and relieved with rest. On examination, the left lower limb was 4cm shorter than the right and she had abnormal gait. Her late mother had told her that she had been limping since she started walking. The clinical and radiographic images are shown.

- Describe the clinical features seen in (a). (2 marks)
- State the cause of limb length discrepancy. (1 mark)
- Describe the radiographic features. (3 marks)
- State the two (2) challenges in treatment for her considering her current complaint. (4 marks)