



Year 4 Formative OSCE #1 (July) 2019

Reading for Station 3

Candidate Instructions

Clinical Scenario

You are an ED intern in the Gold Coast University Hospital Emergency Department. James Rodgers is a 10 year old boy who presents with his mother with a painful right elbow. He states he fell onto his right arm while stretched out and instantly felt pain in the elbow region upon landing. He injured it 3 hours ago and has had an X-ray.

The registrar has asked you to examine James.

Task

In a total of eight (8) minutes

- Perform an appropriate **physical examination** of James and explain what you are doing to the registrar as you go within the first 5 minutes
- At 5 minutes, you will be given James' X-rays and will be prompted to:
 - Interpret the radiograph
 - Provide a provisional (one) diagnosis to the registrar
 - Provide a management plan to the registrar

You do **not** need to take a history.

The examiner will assume the role of the registrar.

Simulated Patient Information

The candidate has the following scenario and task

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Instructions for simulated patient

- Your name is James Rodgers and your DOB is 03/03/2009 (Age: 10)
- You are dressed in a short-sleeved shirt (exposes the right elbow) and sitting on the edge of the bed. You are quiet due to pain.
- You keep your right elbow close and refuse to move the elbow initially. However, after a few attempts by the student, you then proceed to comply with active movements with limited range of motion due to pain. State that it is painful.
- There are no problems with your left elbow.
- Be cordial to the medical student with simple yes or no answers as this is not a history taking station.

Examiner Instructions

Please verify that you are examining the correct student by checking the name on the student's ID card against the name on the score sheet, as the student enters the room.

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- For the first 5 minutes of the station, please do not speak to the candidate, after you have checked ID. Please do not provide prompts on the station content.
- Stay out of the line of sight between the candidate and the patient. Do not provide any positive or negative feedback to the candidate.
- Please record your observations on the scoresheet **as you go**, as discussed in the briefing.
- If the student attempts to perform a shoulder examination, or asks the patient to remove their shirt, tell them that this is not needed for the examination.
- **At 5 minutes** please interrupt the candidate and state:
 - **"After examining James, he has pain, swelling and limited range of motion in his right elbow. However, his neurovascular examination is normal.**
 - **Here is his X-ray [give student X-ray image].**
 - **Please interpret the X-ray, provide a provisional diagnosis and a management plan for James"**
- You have 2 minutes between candidates to finalise your scoring and 'reset' the station.

The following can be used as examples of how students test each of these nerves. They must perform tests that assess the nerve function. They will not get points if they simply state that they will test those nerves.

Median nerve injury

- Loss of sensation over volar index finger
- Unable to flex the interphalangeal joint of the thumb and the distal interphalangeal joint of the index finger (can't make OK sign)

Radial nerve injury

- Unable to extend wrist, MCP joints, thumb interphalangeal joint

Aim of this station:

- Perform an elbow examination
- Identify a supracondylar fracture
- Understand the management of a Type I supracondylar fracture

Props and Sundries

- Simulated patient
- Hand wash
- Cotton tip and pinprick for sensation distal arm
- Photo of supracondylar fracture (AP and lateral Xray)

Authors – Hiroki Hayashi and Grace Low

OSCE Score Sheet

Station 3 – Elbow examination (Type I Supracondylar fracture)

ID Check

(please tick)

Student Name/Number.....

Examiners Name:

SP:

No.	Assessment Item (details)	PLEASE MAKE ONE TICK IN EVERY ROW						
1	Infection Control and Introduces self appropriately washes hands before, introduces self, appropriately washes hands after	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3			
2	Consent explains, seeks, obtains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3			
3	Inspection/Look (maximum 6 marks) asymmetry, scars, swelling, erythema, bruising, deformity, positioning, other reasonable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4	5	6
4	Palpation/Feel (both sides required to receive the mark) Temperature, Lateral joint line, Lateral epicondyle, Extensor carpi radialis brevis, Medial epicondyle, Flexor muscles, Cubital fossa, Posterior joint line above the olecranon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4	5	6
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		7	8					
5	Movement (both sides, and active and passive movement required to receive the mark) Assesses elbow (Flexion, Extension, Pronation, Supination - each one mark), Assesses shoulder, Assesses wrist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4	5	6
6	Neurovascular examination (Test both sensory and motor to receive the mark) Ulnar nerve, Radial nerve, Median nerve, Radial pulses, Capillary refill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4	5	
7	X-ray interpretation Checks patient identification, checks orientation, anterior fat pad, posterior fat pad, checks anterior humeral line, checks radio-capitellar line, looks at angle of radial head, checks cortex lines of distal humerus, identifies ossification centres, identifies supracondylar fracture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4	5	6
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		7	8	9	10			
8	Provisional Diagnosis Right non-displaced supracondylar fracture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1					
9	Management Plan Back slab to elbow at around 90 degrees with bandage and sling, Pain relief, Follow up fracture clinic or GP within 3 weeks, Advised parent/patient to return if symptoms of numbness, finger swelling or severe hand pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		0	1	2	3	4		
10	CLARITY (organisation, appropriate confidence)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		1	2	3	4	5	6	7
		Confused, disorganised, unclear		Below expected		Above expected		Outstanding
11	WARMTH (engagement, compassion, care for patient)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		1	2	3	4	5	6	7
		Cold, uncaring, brusque		Below expected		Above expected		Outstanding

Comments: