Advanced Case in Point Example

https://cortex.acr.org/Presenters/CaseScript/CaseView?Info=SgKZ%2fgWAEiLZ1sysCEKa91PPyc9j%2bSyjX5yjBEiV54fWXzdwe3SqiY8Qaa%2bQ8%2fird

Page 1 – Scenario and Question

**Scenario**

A 26-year-old woman presents with acute shoulder pain and decreased range of motion after a bicycle accident.

**Question**

1.1 Which of the following is the most appropriate imaging option for this patient?

- A. CT shoulder without IV contrast
- B. MR arthrography shoulder
- C. Shoulder x-ray
- D. US shoulder

Click here to ask a Radiologist a question
Scenario

A 26-year-old woman presents with acute shoulder pain and decreased range of motion after a bicycle accident.

<table>
<thead>
<tr>
<th>Indications</th>
<th>Appropriateness</th>
<th>Procedure</th>
<th>Cost</th>
<th>RRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoulder pain, no prior imaging</td>
<td>3</td>
<td>Radiography shoulder</td>
<td>$</td>
<td></td>
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<tr>
<td>CT arthrography shoulder</td>
<td>1</td>
<td>CT shoulder with IV contrast</td>
<td>$$$</td>
<td></td>
</tr>
<tr>
<td>CT shoulder without IV contrast</td>
<td>1</td>
<td>CT shoulder without IV contrast</td>
<td>$$</td>
<td></td>
</tr>
<tr>
<td>CT shoulder without and with IV contrast</td>
<td>1</td>
<td>CT shoulder with and with IV contrast</td>
<td>$$$</td>
<td></td>
</tr>
<tr>
<td>X-ray arthrography shoulder</td>
<td>1</td>
<td></td>
<td></td>
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</table>

Question

1.1 Which of the following is the most appropriate imaging option for this patient?

You Selected C:
Shoulder x-ray

Explanation

Correct. For traumatic shoulder pain of any etiology, the initial imaging should be an x-ray of the shoulder. Under the Quebec decision rule, patients under 40 are at increased risk for clinically significant fractures or dislocations only if the injury involves high-energy mechanism, such as a fall from greater than the patient’s height, motor vehicle collision, or physical assault. In these cases, an x-ray can assess for dislocations and fractures.

For further information, click on the “Display Evidence” tab within the clinical decision support panel. There is a summary of literature review under the tables.

Estimated costs ranges based on Centers for Medicare and Medicaid (CMS) data:

<table>
<thead>
<tr>
<th>Cost Level</th>
<th>From</th>
<th>To</th>
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<tbody>
<tr>
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<td>100.00</td>
</tr>
<tr>
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</table>

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Interested in an advanced case on this topic with additional images?
The following Case in Point case provides additional information on this topic: Posterior shoulder dislocation with accompanying reverse Hill-Sachs fracture.
ACP Case in Point (CIP) provides access to the Case in Point archives to medical students. For the most recent cases with the newest topics, ACP provides free medical student membership. More information can be found at Medical Student Membership.
Additional Resource: 12 Don't Miss Key Lesions - Shoulder Dislocation (p. 44-46)

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Page 3 – Author and References

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References