



Development of innovative training solutions in the field of functional evaluation aimed at updating of the curricula of health sciences schools



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MODULE BIOMECHANICS OF SPINE

Didactic Unit B

Topic: Biomechanical alterations of the spine

Self-Questionnaire

Self-questionnaire:

- Self-questionnaire aimed to test the knowledge acquired.
- It will include 5 objective questions with 4 answer options.
- Mark in bold the correct answer.

Type of questions:

- **Drag and drop into text:** Students select missing words or phrases and add them to text by dragging boxes to the correct location. Items may be grouped and used more than once.
- **Drag and drop markers:** Students drop markers onto a selected area on a background image. Unlike the drag and drop onto image question type, there are no predefined areas on the underlying that are visible to the student.
- **Drag and drop onto image:** Students make selections by dragging text, images or both to predefined boxes on a background image. Items may be grouped.
- **Matching:** A list of sub-questions is provided, along with a list of answers. The respondent must “match” the correct answers with each question.
- **Multichoice:** With the Multichoice question type you can create single-answer and multiple-answer questions, include pictures, sound or the other media in the question and/or answer options and weight individual answers.
- **Select missing words:** Students select a missing word or phrase from a dropdown menu. Items may be grouped and used more than once.
- **True/False:** In response to a question (that may include an image), the respondent selects from two options: True or False.

Question 1

Which is the main injury's mechanism in atlantooccipital dislocation (AOD)?

- A Falls.
- B **Rapid decelerations.**
- C Diving immersion.
- D Both B and C.

Question 2

Which forces are required to get the atlas fractured?

- A Flexion and Extension forces.
- B Rotation forces.
- C Axial loading trough occiput.
- D **All of them.**

Question 3

Which one of the following injuries is usually produced by a transmission of a high magnitude force from shoulder girdle?

- A Burst fracture.
- B Disruption of the facet joints.
- C **Spinous apophysis fracture.**
- D Whiplash-associated disorder.

Question 4

How's the Wedge fracture in thoracic or lumbar spine is produced?

- A Axial tension combined with a momento of flexion.
- B Axial compression combined with a momento of rotation.
- C **Axial compression combined with a momento of flexion.**
- D Axial compression combined with a momento of extension.

Question 5

In the development of adjacent segment disease (ASD), are associated factors:

- A **Stress, load, and intradiscal pressure at levels adjacent to the fusion site.**
- B Stress and load without intradiscal pressure at levels adjacent to the fusion site.
- C In anterior cervical fusions, patients who develop ASD is less than 10%.
- D The damage associated to the fusion of vertebrae is only a limitation of mobility.

