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

MODULE BIOMECHANICS OF SPINE

Didactic Unit C: HOW DO I ASSESS SPINE?

C.3. What are the advantages of the use of instrumental techniques versus scales and physical examination in 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, the 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

Clinical scales......:

☐ A   Might be useful to monitor the progress of a patient or evaluate the effect of a treatment.

☐ B   Are standarized questionnaires aimed to obtain clinical information.

☐ C   They can be subjective, as they are mostly based on information given by the patien or in their own perception of illness.

☐ **D   All of the above are correct**

Question 2

In relation to biomechanical systems, mark true or false for each option

☐ A   Subjective   T/**F**

☐ B   Very low sensitivity to change   T/**F**

☐ C   They include a software to ease the measurement   **T**/F

☐ D   Require equipment   **T**/F

Question 3

In relation to clinical scales, mark true or false for each option

☐ A   Subjective **T**/F

☐ B   Always have floor effect T/**F**

☐ C   Does not require special equipment **T**/F

☐ D   They are usually easy to interpret **T**/F

Question 4

Drop and drag the answers to the correct box

Clinical Scales	Instrumented analysis

No equipment

Subjectivity

Easy to interpret

Ceiling effect

Floor effect

Great sensitivity to change

Requires equipment

Question 5

About instrumented analysis for functional evaluation:

☐ A   Does not require any equipment

☐ B   It is based on the use of standardized questionnaires

☐ C   It is always easy to interpret for clinicians, regardless of the technique or device used.

☐ D   **None of the above.**

Solution to question 4:

Clinical Scales

- No equipment
- *Ceiling effect*
- Subjectivity
- Easy to interpret

Instrumented analysis

- Requires equipment
- *Floor effect*
- Great sensitivity to change