



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: FOUNDATIONS OF BIOMECHANICS APPLIED TO THE LOCOMOTOR SYSTEM

Didactic Unit E: TECHNIQUES FOR THE INSTRUMENTAL ANALYSIS OF PHYSIOLOGICAL SIGNS AND ANTHROPOMETRIC AND MORPHOMETRIC PARAMETERS

E.4. What are the applications of the analysis of anthropometric and morphometric parameters?

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

The Body Mass Index (BMI) is defined as: *body mass divided by the square of the body height*

- TRUE
- FALSE

Question 2

In the Body Mass Index (BMI) computational formula according with the official standards mass and body height shall be given in the following appropriate units:

- A [kg] , [cm],
- B [kg], [mm],
- C **[kg], [m],**
- D none of the above.

Question 3

The BMI value equal to 32 means .. ?

- A normal weight.
- B **obesity (class I),**
- C underweight,
- D none of the above.

Question 4

Modern Complex Motion Capture System with informatic system can synchronously measure in real time such information as.. :

- A Electromyography (EMG) signal,
- B Feet force from sensorized platform,
- C Motion picture from external cameras (IR mainly),
- D **all of above are correct.**

Question 5

Marker less systems (e.g. kinect) as an alternative for marker based (e.g. BTS IR cameras) systems can be used to body position and body motion assessment:

- TRUE**
- FALSE

