

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 Gait

Didactic Unit D: Instrumented analysis of gait

D.3 How do I interpret a biomechanics instrumented analysis' report in a case of gait pathology?

Self-Questionnaire















Question 1

In the analysis of a kinematic gait pattern that could be altered, the following should be observed:

observed:		
□ A move	Morphology of the movement curves, maximum and minimum values of the ment milestones during the gait cycle, range of movement and angular velocity.	
□ B	Morphology of the movement curves.	
$\hfill C$ Maximum and minimum values of the movement milestones during the gait cycle and range of motion, mainly.		
□ D	The angular velocity is not clinically relevant parameter.	
Question 2		
	should be taken into account when analyzing altered gait patterns, in ordet to obtain ost detailed information?	
□A	The severity of the disease must be considered.	
□В	In some pathologies it should be considered to analyze both hemibodies separately.	
□ C some	Anthropometric measurements of the patients should be considered to normalize gait parameters.	
□ D	All alternative mentioned before are correct.	
Question 3		
	what conditions can the curve of vertical ground reaction forces be altered? ATES INCORRECT ALTERATIVE	
□ A	When patients walk at slow speeds.	
□В	When a patient does not load the body symmetrically when walking.	
□С	When the patient does not swing his/her arms while walking.	
□ D during	When the patient does not perform all the kinematic milestones of the lower limbs walking.	













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Indicat	tes which are the following options is not a characteristic of gait in patients after stroke:	
□A	Plantar flexion increased at the end of the swing phase and heel contact.	
□В	Increase of hip flexion at the end of the swing phase.	
□C	Limited hip extension during stance phase.	
□ D	Characteristic pattern of vertical forces with the flattened M shape.	
Question 5		
In asymmetric gait patterns it is common to study:		
□ A direct	Raw value of symmetry index, where the sign of the value indicates the ion of the asymmetry.	
□В	The symmetry index, that provide the amplitude provided of asymmetry.	
□ C hemib	The coeficient variation, which is a less used parameter of the asymmetry between odies.	
□ D value i	The simple subtraction between the value of one hemibody and another. When this is 0, it represents total asymmetry.	























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