



MODULE BIOMECHANICS OF SPINE

Didactic Unit B: Biomechanical alterations of the spine

Activity 1

Select missing words: Students select a missing word or concept from a dropdown menu. Items may be grouped and used more than once.

1) According to the Anderson and Montesano (1988) classification of fractures of					
	occipital condyle	es,	fracture r	esults from axial loading.	
	Tipe I	Tipe II	Tipe III		
2)		he Atlantoocipital force on the cervi Distraction		n, the main mechanism of injury is the	
3) The application of axial loading and flexion of the head causes a fracture vertebra, specifically on the					S
	Lateral mass	Anteri	or arch	Posterior arch	
4)	The Atlantodental interval is the horizontal distance between the dens of the axis and the, used in the diagnosis of injuries of the atlas and axis.				
	Lateral mass	Anteri	or arch	Posterior arch	













5)	In odontoid fractures, the stability of the C1-C2 complex is altered by about 40%.						
	However, when the odontoid injury involves the, stability						
	increases and the injury may require surgery.						
	Alar and transversal	Flavum li	gament	Intertra	ansverse ligament		
6)	Axial loading of the cer	vical spine with the	neck in neutra	al position w	vill cause a		
	compression fracture o	ra	fracture of the vertebral body.				
	Stable Burst	Unstable					
7)	One type of injury to the	e lower cervical spir	ne is the		fracture, and		
	occur when a combination of flexion and axial compression forces acts on the spinal						
	column simultaneously.						
	Teardrop Burs	st Jefferson	1				
8)	The kinematic sequence of the whiplash-associated disorder starts with flexural						
	deformation of the neck and the lordosis						
	Changes to kyphosis	Become	e straight		Increase		
9)	Seat-belt injury are typical lesions of the thoracolumbar junction as a result of a						
	hyperflexion centered in said area that at the same time causes a						
	force from the most posterior area of the vertebra.						
	Shears	Compression	Distra	action			













extension and lateral fl	exion movements are	
L1-L2/L2-L3	L2-L3/L3-L4	 L4-L5/L5-S1

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