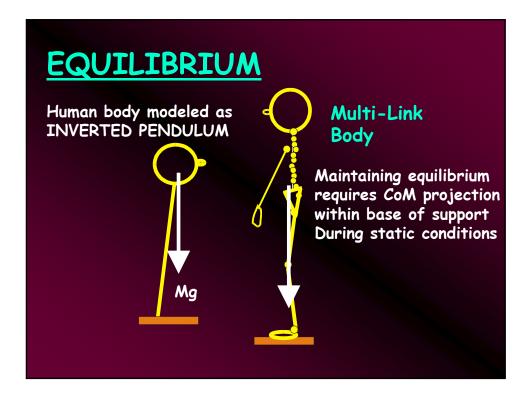
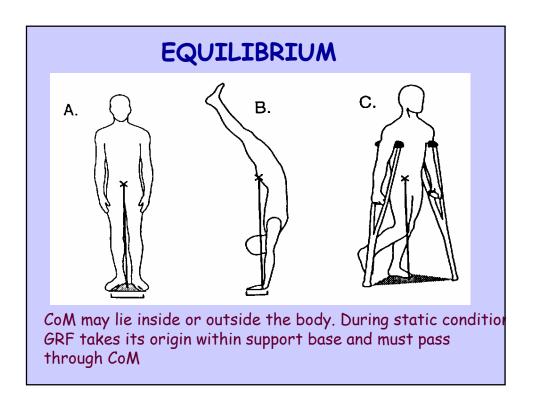




CNS organizes sensory information to accomplish the task.
CNS seems to rely on different combinations of sensory information "reweighting" senses
depending on their usefulness





POSTURE

Is a dynamic interaction among a complex set of organisms organized around the control of functional goals such as the orientation of the trunk and head to various frames of reference

(Horak and Macpherson, Handbook of Physiology Vol.12, 1996)

<u>POSTURE CONTROL</u> makes use of <u>ADAPTIVE-</u> <u>CONTROL</u> = a control process capable of estimating and modifying output variables on the basis of

<u>INTERNAL MODELS</u> of expected behavior (evidence from microgravity studies)

Sensory disorder / CNS must have an accurate picture of where the body is in space (integration of sensory input)

Disruption - prevents development of accurate internal models-

•effects orientation of body with respect to gravity and the environment

 $\boldsymbol{\cdot}$ influences a patients ability to adapt to changes in task and environmental demands

disrupt motor learning

•influences ability to anticipate

causes compensatory modifications

Misrepresentation of stability limits Sensory problems affect postural movement strategies.

