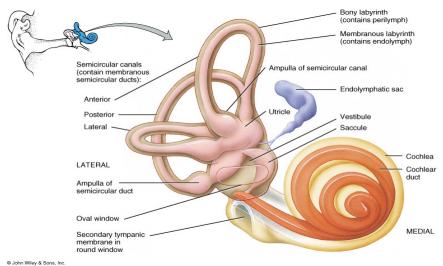
A&P Unit 4 Lecture 6B



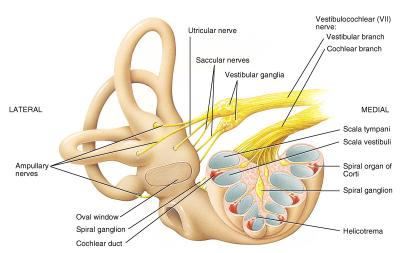
Two Kinds of Equilibrium

- 1. Static equilibrium: Refers to the maintenance of body (head) position relative to the force of gravity.
- 2. Dynamic equilibrium: Refers to the maintenance of the body (head) in response to sudden movements such as rotation, acceleration, and deceleration

Gross Anatomy of the Vestibular apparatus



Components of the Vestibular Nerve

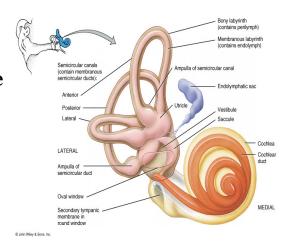


(b) Components of the vestibulocochlear (VIII) nerve

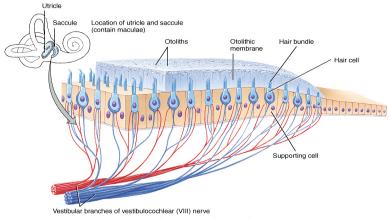
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Static Equilibrium

 The receptors for static equilibrium are the Utricle and the Saccule



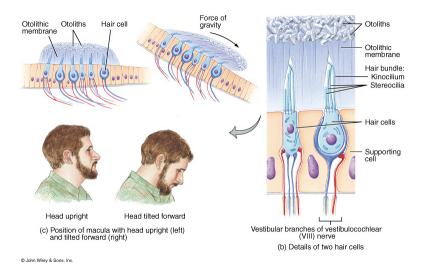
Location and structure of the receptors in the macula for static equilibrium



(a) Overall structure of a section of the macula

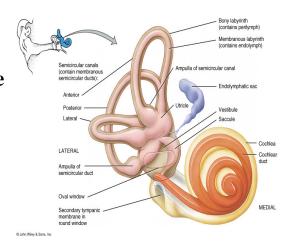
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How the macula functions in relation to gravity

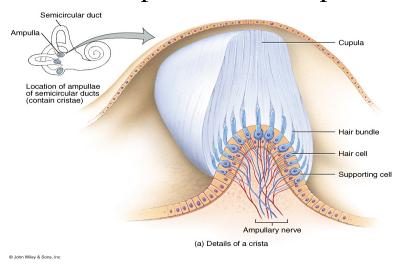


Dynamic Equilibrium

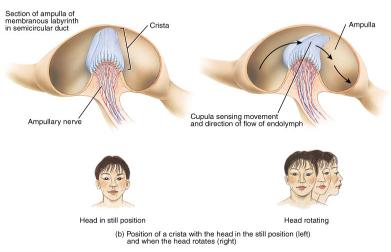
• The receptors for dynamic equilibrium are the semicircular canals



Anatomy of the Semicircular canal receptors called ampulla



How the Ampulla function to produce dynamic equilibrium sensations



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Pathway for Vestibular System

YESTIBULAR SYSTEM

