

HUMAN PHYSIOLOGY MODULE 4

CUTANEOUS SENSES

- The somatic senses are the nervous mechanisms that collect sensory information from all over the body.
- The somatosensory system, the sensation of the body and its movements, is not one sense but many, including discriminative touch (which identifies the shape of an object), deep pressure, cold, warmth, pain, itch, tickle, and the position and movement of joints.
- The somatosensory system is comprised of sensory (efferent) receptors and sensory (afferent) neurons that are distributed in the periphery up to the central nervous system.

Classification of Somatic Senses

The somatic senses can be classified into 3 physiologic types:

1. The mechanoreceptive somatic senses, which include both tactile and position sensations that are stimulated by mechanical displacement of some tissues of the body.
2. The thermoreceptive senses, which detect heat and cold.
3. The pain sense, which is activated by Factors that damage the tissues.

Other Classifications of Somatic Sensations:

- Exteroceptive sensations are those from the surface of the body.
- Proprioceptive sensations are those relating to the physical state of the body, including position sensations, tendon and muscle sensations, pressure sensations from the bottom of the feet, and even the sensation of equilibrium (which is often considered a "special" sensation rather than a somatic sensation).
- Visceral sensations are those from the viscera of the body.
- Deep sensations are those that come from deep tissues, such as from fasciae, muscles, and bone. These include mainly "deep" pressure, pain, and vibration.

Types of Receptors

Meissner's Corpuscles:

- Elongated encapsulated nerve ending of a large myelinated sensory nerve fiber
- Present in the non - hairy parts of the skin and are particularly abundant in the fingertips, lips etc.
- Sensitive to movement of objects over the surface of the skin, as well as to low frequency vibration
- Meissner's corpuscles adapt in a fraction of a second after they are stimulated

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