

Autonomic Nervous System (Lecture 4)

- Can be divided into: Anatomical and Physiological
- **Anatomical**
 - is the structure itself
- **Physiological**
 - Focuses on the function of the specific structure
- **Nervous system**
 - Regulates the body as a whole

2 Divisions of Autonomic Nervous Systems:

1. Sympathetic Nervous System
2. Parasympathetic Nervous System

Overall diagram of ANS – check notes

Nervous System has 2 Structural Division:
Central Nervous System (CNS) and Peripheral Nervous System (PNS)

- **Central Nervous System** – gives rise to brain and spinal cord
 - **Brain** – receives and processes sensory information, initiates responses, stores memories, generates thoughts and emotions
 - **Spinal Cord** – conducts signals to and from the brain, controls reflex activities
- **Peripheral Nervous System** – gives rise to motor neurons and sensory neurons
 - **Sensory neurons** – sensory organs to Central Nervous System (CNS). *It carries impulses from the peripheral organ to the center*
 - **Motor neurons** – Central Nervous System to muscle and glands. *These are neurons that carry impulses from the center going to the effector organ*

- It has 2 functional classification:
Somatic Nervous System and Autonomic Nervous System
 - **Somatic Nervous System** – controls voluntary movements
 - **Autonomic Nervous System** – controls involuntary movements. It has 2 divisions: Sympathetic and Parasympathetic
 - **Sympathetic Division** – Fight or Flight
 - **Parasympathetic** – Rest or Digest
- ❖ Skeletal Nervous System are the effector organ for the somatic nervous (controlled voluntarily)
- ❖ Cardiac and Smooth muscle are the effector organ for autonomic nervous system (controlled involuntarily)

Autonomic Nervous System – is also called as “Visceral Motor System” as it controls the visceral muscles such as the cardiac and smooth muscle.

- Motor or Sensory? = **MOTOR**
- Afferent or Efferent? = **EFFERENT (MESA)**
 - **Afferent** – nerve fibers that carry impulses from the peripheral to center
 - **Efferent** – nerve fibers that carry impulses from the center going to the peripheral
- Voluntary or Involuntary? = **INVOLUNTARY**
- Somatic or Non-Somatic? = **NON-SOMATIC**

Somatic and Autonomic Efferent Pathways

- **Somatic motor neuron**
 - there is **NO AUTONOMIC GANGLION**. Therefore, the efferent pathways or

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Marshal Schlafer, Richard A. Lehne



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