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VOCABULARY

GANGLION: In neurological contexts, ganglia are composed mainly of <u>somata</u> and <u>dendritic</u> <u>structures</u> which are bundled or connected together. Ganglia often interconnect with other ganglia to form a complex system of ganglia known as a <u>plexus</u>. Ganglia provide relay points and intermediary connections between different neurological structures in the body, such as the <u>peripheral</u> and <u>central</u> nervous systems.

There are two major groups of ganglia:

- <u>dorsal root ganglia</u> (also known as the spinal ganglia) contain the cell bodies of sensory (afferent) nerves
- <u>autonomic ganglia</u> contain the cell bodies of <u>autonomic</u> nerves.

In the autonomic nervous system, fibers from the <u>central nervous system</u> to the ganglia are known as <u>preganglionic fibers</u>, while those from the ganglia to the effector organ are called <u>postganglionic fibers</u>.

SPLANCHNIC NERVES (greater, lesser, lumbar, and sacral)

The splanchnic nerves are paired nerves that contribute to the <u>innervation of the viscera</u>, carrying fibers of the <u>autonomic nervous system</u> (visceral efferent fibers) as well as <u>sensory fibers</u> from the organs (which are also known as <u>visceral afferent fibers</u>) as <u>visceral afferent fibers</u>) as <u>visceral afferent fibers</u>) as <u>visceral afferent fibers</u>).

The term splanchnic nerves can refer to:

- Cardiopulmonary nerves
- Thoracic splanchric nerves (greater, Asse) and least)
- Lumbar Vilansinic nerves
- Sacral splanchnic nerves
- Pelvic splanchnic nerves

PREVERTEBRAL/COLLATERAL GANGLIA.

Any of the sympathetic ganglions lying in front of the vertebral column, including the celiac, aorticorenal, and the superior and inferior mesenteric ganglions.

prevertebral ganglia, collections of postgangionic sympathetic neuronal cell bodies in recognizable aggregations along the abdominal prevertebral plexus. They include the celiac, superior mesenteric, aorticorenal, and inferior mesenteric ganglia and play a critical role in the innervations of the abdominal viscera.

Prevertebral ganglia (or **collateral ganglia** or **preaortic ganglia**) are <u>sympathetic ganglia</u> which lie between the <u>sympathetic chain</u> and the <u>organ of supply</u>.

CILIARY GANGLION

The ciliary ganglion is a <u>parasympathetic ganglion</u> located in the posterior <u>orbit</u>. It measures 1-2 millimeters in diameter and contains approximately 2,500 <u>neurons</u>. *Preganglionic* <u>axons</u> from the <u>Edinger-Westphal nucleus</u> form <u>synapses</u> with these <u>cells</u>. The <u>postganglionic</u> axons run in the short ciliary nerves and innervate two <u>eye</u> muscles:

the <u>sphincter pupillae</u> constricts the <u>pupil</u>, know as <u>Miosis</u>. The opposite, <u>Mydriasis</u>, is the dilation of the pupil.

the <u>ciliaris muscle</u> contracts, releasing tension on the <u>Zonular Fibers</u>, making the <u>lens</u> more convex, also known as accommodation.

- Constriction of the blood vessels of the skin and viscera c.
- Increased activity of the digestive system d.
- 9. Components of a neuron include all of the following except:
 - soma
 - one or more dendrite b.
 - c. axon
 - d. one or more synaptic terminal
 - no exceptions; all of the above are included
- 10. The peripheral nervous system includes the following
 - somatic and autonomic nervous system
 - somatic nervous system and spinal cord b.
 - spinal cord and brain c.
 - brain, spinal cord, somatic and autonomic nervous system d.
- 11. In the ANS:
 - a. Preganglionic fibers innervate the peripheral organs
 - b. Preganglionic fibers are unmyelinated
 - c. Both are true
 - d. Neither are true
- Adrenal medullae
 All of the above will affect target organs in the abdominatery): cavity

 DICE PROVICE ANSWERS 12. Postganglionic neurons from which part of the sympathetic division will affect target organs only in the abdominopelvic cavity:
 - a. Collateral ganglia
 - b. Chain ganglia
 - c. Ciliary ganglion
 - d. Adrenal medullae

MULTIPLE-CHOICE PRANCE

- 4.
- 5.
- 6. a
- 7. a
- 8. d
- e
- 10. a 11. d
- 12. a