

TOPIC: VISCERAL REFLEX ARCS

- Visceral reflex arcs are similar to somatic reflex arcs. There are _____ key differences:
 - Visceral reflex arcs have _____ consecutive neurons in their motor component.
 - Afferent fibers are _____ sensory neurons.
 - Effectors are smooth muscle, cardiac muscle, and _____.
- Visceral reflex arcs have 5 steps:

1. Receptor: A sensory receptor in _____.

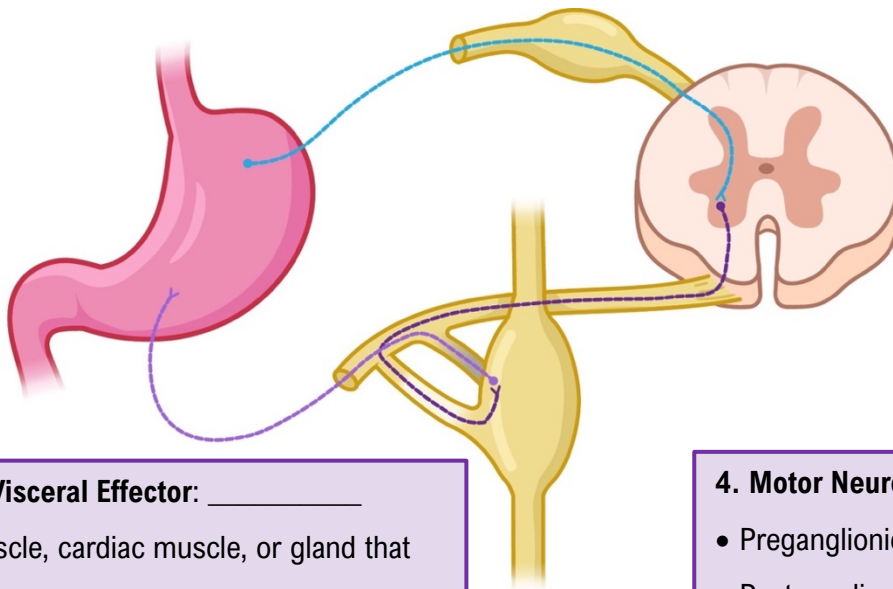
2. Visceral Sensory Neuron: Transmits impulse from _____ to central nervous system.

3. Integration Center: Consists of interneuron (or a single _____) between sensory & motor neurons.

5. Visceral Effector: _____ muscle, cardiac muscle, or gland that responds to stimulus.

4. Motor Neuron: _____ neuron chain:

- Preganglionic neuron
- Postganglionic neuron



EXAMPLE: The integration step of a visceral reflex arc might include which of the following (circle all that apply)

- a) Direct synapse with a preganglionic neuron.
- b) Cardiac muscle.
- c) Walls of the gastrointestinal tract.
- d) An interneuron in the dorsal horn.

PRACTICE: Visceral effectors include:

- a) Smooth muscle, skeletal muscle, glands.
- b) Smooth muscle and glands.
- c) Skeletal muscle, smooth muscle, cardiac muscle.
- d) Smooth muscle, cardiac muscle, glands.