

## Sympathetic Nervous Systems Cheat Sheet by David Pollack (Davidpol) via cheatography.com/2754/cs/10002/

## Introduction

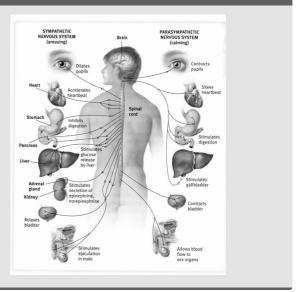
The sympathetic nervous system (SNS) is one of the two main divisions of the autonomic nervous system, the other being the parasympathetic nervous system.

The autonomic nervous system functions to regulate the body's unconscious actions. The sympathetic nervous system's primary process is to stimulate the body's fight-or-flight response. It is, however, constantly active at a basic level to maintain homeostasis. The sympathetic nervous system is described as being complementary to the parasympathetic nervous system which stimulates the body to "Rest-and-Digest" or "Feed-and-Breed".

Credit: https://en.wikipedia.org/wiki/Sympathetic\_nervous\_system

| Autonomic nervous supply to organs |  |  |
|------------------------------------|--|--|
| Organ                              | Nerves   | Spinal column                                  |
| stomach                            | PS: anterior & posterior vagal trunks S: greater splanchnic nerves       | T6-T9, sometimes<br>T10                        |
| duodenum                           | PS: vagus nerves<br>S: greater splanchnic nerves                         | T5-T9, sometimes<br>T10                        |
| pancreatic<br>head                 | PS: vagus nerves<br>S: thoracic splanchnic nerves                        | T8-T9  |
| jejunum &<br>ileum                 | PS: posterior vagal trunks S: greater splanchnic nerves                  | T5-T9  |
| colon                              | PS: vagus nerves & pelvic splanchnic nerves S: greater splanchnic nerves | T10-T12 (proximal colon) L1-L3, (distal colon) |
| spleen                             | S: greater splanchnic nerves   | T6-T8  |
| vermiform appendix                 | nerves to superior mesenteric plexus                                     | T10  |
| gallbladder & liver                | PS: vagus nerve S: celiac plexus right phrenic nerve                     | T6-T9  |
| Kidneys &<br>Ureters               | PS: vagus nerve<br>S: thoracic & lumbar splanchnic                       | T11-T12  |





| Organ & Effect  |  |  |
|-----------------|--|--|
| Organ           | Effect   |  |
| Eye             | Dilates pupil  |  |
| Heart           | Increases rate & force of contraction                              |  |
| Lungs           | Dilates bronchioles via circulating adrenaline                     |  |
| Blood Vessels   | Dilate in skeletal muscle<br>Constricts in gastrointestinal organs |  |
| Sweat Glands    | Activates sweat secretion  |  |
| Digestive tract | Inhibits peristalsis   |  |
| Kidney          | Increases renin secretion  |  |
| Penis           | Inhibits Tumescence  |  |
| Ductus deferens | ctus deferens Promotes emission prior to ejaculation               |  |



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nerves

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