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| **Structure** | **Effect of sympathetic NS** | **Effect of parasympathetic** |
| Neurotransmitter | Noradrenaline | Acetylcholine |
| Heart | Increases rate and strength of contraction | Decreases rate and strength of contraction |
| Lungs | Dilates bronchioles | Constricts bronchioles |
| Stomach | Decreases movement | Increases movement |
| Liver | Increases breakdown of glycogen and released as glucose | Increases uptake of glucose and synthesis of glycogen |
| Iris of the eye | Dilates pupils | Constricts pupils |
| Sweat glands | Increase sweat secretion | No effect |
| Salivary glands | Decreases saliva secretion | Increases saliva secretion |
| Blood vessels of:  Skin  Skeletal muscles  Internal organs | Vasoconstriction  Vasodilation  Vasoconstriction (except heart and lungs) | Little effect  No effect  Little effect |
| Urinary bladder | Relaxes muscles of wall | Constricts muscles of wall |
| Adrenal medulla | Stimulates hormone secretion | No effect |