

# Thermal dysautoregulation

Clinical feature of [pituitary apoplexy](#) from hypothalamic involvement

Thermal dysautoregulation refers to a dysfunction in the body's ability to regulate its temperature in response to changes in the environment. The body has a complex system of thermoregulation, which involves the integration of signals from the central and peripheral nervous systems, as well as the endocrine and immune systems. Dysfunction in any of these systems can lead to thermal dysautoregulation.

There are several potential causes of thermal dysautoregulation, including:

**Autonomic dysfunction:** The autonomic nervous system plays a critical role in thermoregulation, and dysfunction in this system can lead to thermal dysautoregulation. This can be seen in conditions such as autonomic neuropathy, which is common in patients with diabetes.

**Hormonal imbalances:** Hormones such as thyroid hormone and cortisol play a role in thermoregulation, and imbalances in these hormones can lead to thermal dysautoregulation. For example, hypothyroidism can cause intolerance to cold temperatures.

**Medications:** Certain medications can interfere with thermoregulation, leading to thermal dysautoregulation. For example, beta-blockers can impair the body's ability to sweat, which can lead to overheating.

**Environmental factors:** Exposure to extreme temperatures, such as prolonged exposure to cold or heat, can also lead to thermal dysautoregulation.

Symptoms of thermal dysautoregulation can vary depending on the underlying cause, but may include cold intolerance, heat intolerance, excessive sweating, and skin changes (such as flushing or paleness). Treatment will depend on the underlying cause and may involve medications, lifestyle changes, or other interventions.

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