

WR TestWorks Full Autonomic Lab

The full autonomic lab available from **WR-TestWorks** allows clinicians to perform a broad range of tests in the search for autonomic neuropathies and dysfunction. This lab includes the cardiac lab, the **Q-Sweat** quantitative sweat measurement system, and beat-to-beat blood pressure acquisition for testing of cardiovagal (parasympathetic) function, adrenergic (sympathetic) function, and sudomotor axon reflex function. With the inclusion of the optional **WR Tilt Table** even more functionality is added, which can be used to create a Composite Autonomic Severity Score (CASS).

All tests are non invasive, standardized, quantitative, and easy to perform. A full autonomic assessment can be performed in as little as one hour per patient.

Tests of sympathetic and parasympathetic function are necessary to differentiate between specific syndromes, treatable disorders, and conditions that warrant further investigation.



Tests and analyses available to assist in patient diagnosis include:

- Heart Rate Response to Deep Breathing (HRDB), using ECG or R-R interval
- Valsalva Maneuver, using ECG or R-R interval
- 30:15 Ratio, using ECG or R-R interval
- E:I Ratio
- Baroreflex sensitivity including cardiovagal and adrenergic analyses
- Head-up tilt analysis (requires optional tilt table)
- Quantitative sweat measurements of both resting and evoked sweat potential

A variety of complaints and conditions bring patients to the Autonomic Function Laboratory:

- Diabetes
- Orthostatic Hypotension
- Syncope
- Tachycardia
- Shy-Drager Syndrome
- Amyloidosis
- Peripheral Autonomic Neuropathy
- Multiple Sclerosis
- Chronic Hypotension
- Causalgia
- Hyperhidrosis