**TABLE 10:** Symptom-specific assessment and management considerations for autonomic dysfunction in patients with Long COVID

Assessment Element	Assessment Details
History	<ul> <li>Current diet, fluid, and salt intake</li> <li>Medication use that may impact symptoms, HR, or BP (e.g., antihypertensives, anticholinergics, stimulants)</li> <li>Previous/current substance use</li> <li>History of multifocal joint pain, subluxations, and/or dislocations (suggestive of joint hypermobility syndrome)</li> </ul>
Physical exam	<ul> <li>Sensory exam (especially pinprick and temperature), to evaluate for small fiber neuropathy</li> <li>Beighton Hypermobility Scale</li> </ul>
Treatment Element	Treatment Details
Non-pharmacologic management	<ul> <li>Increase oral intake to 2.5-3.5L of fluid and 2.8-4g of sodium (i.e., 7-10g of salt) daily</li> <li>Compression garments (waist-high stockings and/or abdominal binder)</li> <li>Physical counterpressure maneuvers to mitigate orthostatic intolerance (e.g., stand with legs crossed, sit in knee-chest position)<sup>91</sup></li> <li>Personalized autonomic rehabilitation program         <ul> <li>May start with supine core strengthening or recumbent activities (e.g., recumbent biking, swimming)</li> <li>Dysautonomia International: Exercises for Dysautonomia Patients:</li></ul></li></ul>
Pharmacologic management	<ul> <li>Consider weaning/de-prescribing medications or substances that can worsen orthostatic intolerance, tachycardia, and hypotension</li> <li>See Table 5 for commonly used medications for Long COVID         <ul> <li>See the autonomic dysfunction consensus guidance statement for additional medication options</li> </ul> </li> <li>Medication management should be strongly and promptly considered if symptoms are severe or persistent after a trial of non-pharmacologic measures</li> <li>Consider IV fluids during symptom flare, sparingly and as needed</li> </ul>
Referral, as needed	To autonomic specialist, if:  o Non-pharmacologic and first-line pharmacologic management does not ameliorate symptoms  o Frequent syncope  o Additional autonomic function assessment is warranted (e.g., Valsalva maneuver, deep breathing test, QSART, skin biopsy for evaluation of small fiber neuropathy)  Directories of autonomic specialists:  o https://americanautonomicsociety.org/physician-directory/ o http://dysautonomiainternational.org/page.php?ID=14  To general cardiologist, if autonomic specialist is unavailable and management is outside the scope of the treating clinician

Abbreviations: HR (heartrate), BP (blood pressure), IV (intravenous), QSART (quantitative sudomotor axon reflex test).



