

Autonomic Dysfunction and its Complete Correction in Spinal Cord Injury, M. Parkinson, Cerebellar Atrophy typ C and Aging

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Abstract

Autonomic dysfunction (AD), also known as dysautonomia, refers to a group of conditions that result from damage to the nerves that manage everyday body processes. (Fig.1) These nerves are part of our autonomic nervous system, which controls unconscious or involuntary actions and impaired sensations.

Autonomic dysfunction can have many causes (4), including degenerative neurological diseases like Spinal Cord Injury (SCI), Parkinson's Disease (PD), Multiple System Atrophy (MSA) or e.g. Aging.

Symptoms can be widespread and might include: -

- 1.- Anosmia – Lost of smell
- 2.- Salivary gland dysfunction, hypersalivation
- 3.- Vision problems: This might include sensitivity to light, blurry vision, or failure of the pupils to react appropriately to light
- 4.- Temperature control issues: People cannot sweat, do not differentiate between cold and warm.
- 5.- Impaired sensation: This might include numbness, tingling, weakness, pain, remapping and can lead to injury and balance problems.
- 6.- Dysphagia, pharyngoesophageal dysfunction
- 7.- Problems with heart rate and blood pressure: These can lead to dizziness, fainting, and falls.
- 8.- Digestive problems: These can include abdominal bloating, nausea, constipation, or diarrhea;
- 9.- Urinary issues: This might involve frequent urination, urinary incontinence, or difficulty starting to urinate.
- 10.- Anorectal dysfunction, constipation
- 11.- Sexual problems: In men, this might be erectile dysfunction. In women, this might be vaginal dryness or difficulty achieving orgasm.

Autonomic dysfunction (AD) is a prevalent health problem that remains underdiagnosed, undertreated, underappreciated and underrated across healthcare systems (5). The reason of this is failing of complete correction of AD. Treatment for AD typically involves only managing symptoms.

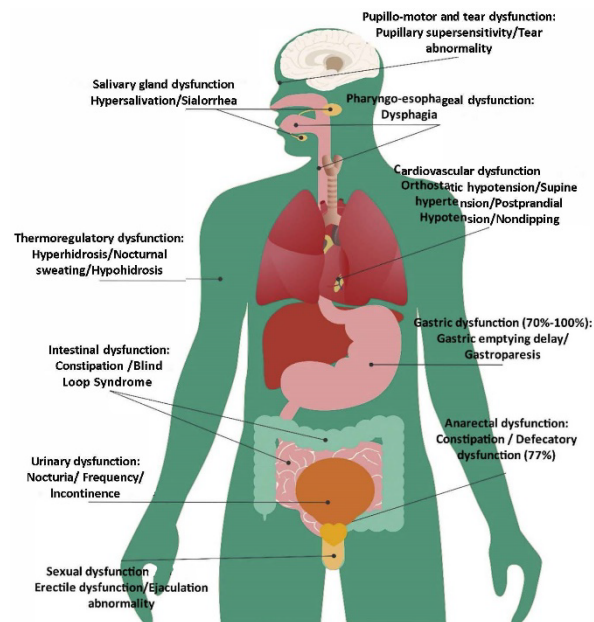
It would be presented a new therapy method with use of specially activated (Patent Pending) intrathecal autologous BMC (Bone Marrow Concentrate) with about 10% stem cells + Movement Therapy + Neuromodulation which can completely correct Autonomic Dysfunction (1,2,3).

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Fig. 1 Autonomic dysfunction



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