

Co-occurrence of multiple sclerosis and myasthenia gravis: A case report and review of immunological theories

Sara Dehbashi

Thomas Jefferson University, USA.



Abstract

Autoimmune mechanisms are implicated in both myasthenia gravis (MG) and multiple sclerosis (MS), and hypothesis of a common immunological mechanism of pathogenesis is supported by the fact that this rare combination of the two diseases occurs more frequently than expected by random association. Although MS is primarily mediated by T lymphocytes and MG primarily involves the destruction of the neuromuscular junction by antibodies, there are evidences that support both cell-mediated and humoral immunity are involved in the pathogenesis of both diseases. Different studies have shown dysfunction of T cells as well as B cells involved in the pathogenesis of both disorders. Previous case reports, mainly present female patients who had a mild presentation of MG, either prior or after diagnosis of MS. In this article, in addition to presenting a unique male patient with a previous diagnosis of MS, who presented with MG crisis, we aimed to review the literature to find the common immunological mechanisms involved in the pathogenesis of MG and MS.



HOME OF SIDNEY KIMMEL MEDICAL COLLEGE

Biography

Sara Dehbashi obtained her medical degree in Shiraz, Iran. She started her medical experience in United States as a research fellow in Washington University in St. Louis working in an immunology lab. She completed her neurology residency training in University of Texas Medical Branch and MD Anderson Cancer center, and her Fellowship in Neuromuscular Medicine in Icahn School of medicine at Mount Sinai in New York. She is currently working as Assistant Professor of neurology in Thomas Jefferson University, and is enthusiastic about teaching medical students, residents, fellows, and research in addition to her clinical duties.

Publication

• Dehbashi S, Jin P, Edelschick D, Shin S. Clinical Reasoning: A 53-year-old woman with lower extremity paresthesias. Neurology. 2020 Jun 16; 94(24):1105-1108. PMID: 32461279.

• Dehbashi S, Hamouda D, Shanina E. Co-occurrence of multiple sclerosis and myasthenia gravis: A case report and review of immunological theories. Mult Scler Relat Disord. 2019 Jun 26; 34:135-136. PMID: 31260944.

• Taherian, S. Dehbashi, M. Baghban. Periurethral autologous fat injection in the treatment of female stress urinary incontinence. Journal of Research in Medical Sciences.

• Taherian, S. Dehbashi, M. Baghban. The Relationship between Random Urinary Protein-to-Creatinine Ratio and 24-hours Urine Protein in Diagnosis of Proteinuria in Mild Preeclampsia. Journal of Research in Medical Sciences

• S. Dehbashi, S. Dehbashi, T. Kazerooni, M. Robati, S. Alborzi, Arash Shadman. Comparison of the Effects of Letrozole and Clomiphene Citrate on Ovulation and Pregnancy Rate in Patients with Polycystic Ovary Syndrome. Iranian Journal of Medical Sciences.

10th Global Summit on Neuroscience and Neuroimmunology | Paris | February 19-20, 2020

Citation: Sara Dehbashi, Co-occurrence of multiple sclerosis and myasthenia gravis: A case report and review of immunological theories, Neuroimmunology 2020, Paris, February 19-20, 2020, PP.20