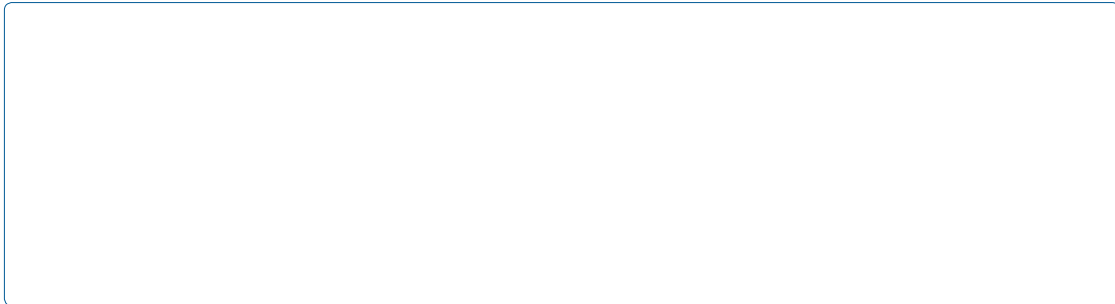


Binocular Vision of Covid-19 Vaccination: A Case Report

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Introduction

Myasthenia gravis (MG) is an autoimmune disease characterized by fluctuating muscle weakness and fatigue. It is caused by autoantibodies against acetylcholine receptors (AChR) or muscle-specific tyrosine phosphatases (MuSK) at the neuromuscular junction. MG can be associated with various autoimmune diseases, including thyroid disease, rheumatoid arthritis, and systemic lupus erythematosus. The pathogenesis of MG is complex and involves both genetic and environmental factors. The disease is typically diagnosed based on clinical history, physical examination, and laboratory tests, including serological tests for AChR and MuSK antibodies. Treatment options include acetylcholinesterase inhibitors, immunosuppressive agents, and thymectomy. In this case report, we describe a patient with MG who developed binocular vision after receiving a COVID-19 vaccine. The patient's symptoms improved significantly after treatment with an ice pack, suggesting a possible link between the vaccine and the onset of MG. This case highlights the importance of considering MG in the differential diagnosis of binocular vision and the potential for vaccine-induced MG.

The patient is a 65-year-old male who presented with binocular vision and diplopia. The symptoms were intermittent and worsened with fatigue. He had a long history of MG, which was diagnosed 10 years ago. He was currently on treatment with pyridostigmine and prednisone. The binocular vision was associated with horizontal diplopia and was relieved by closing either eye. There were no other neurological symptoms. The patient's medical history was significant for hypertension, diabetes mellitus, and chronic kidney disease. He had received two doses of a COVID-19 vaccine 10 days before the onset of symptoms. The patient's symptoms improved significantly after treatment with an ice pack for two minutes. This case report describes a rare incidence of MG complication of ChAdOx1 nCoV-19 vaccination.

Case Report

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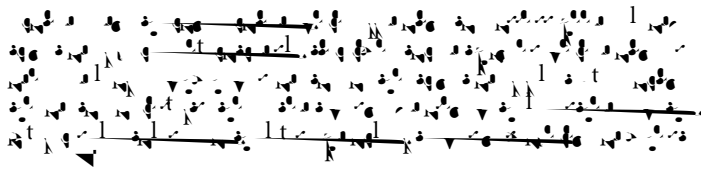
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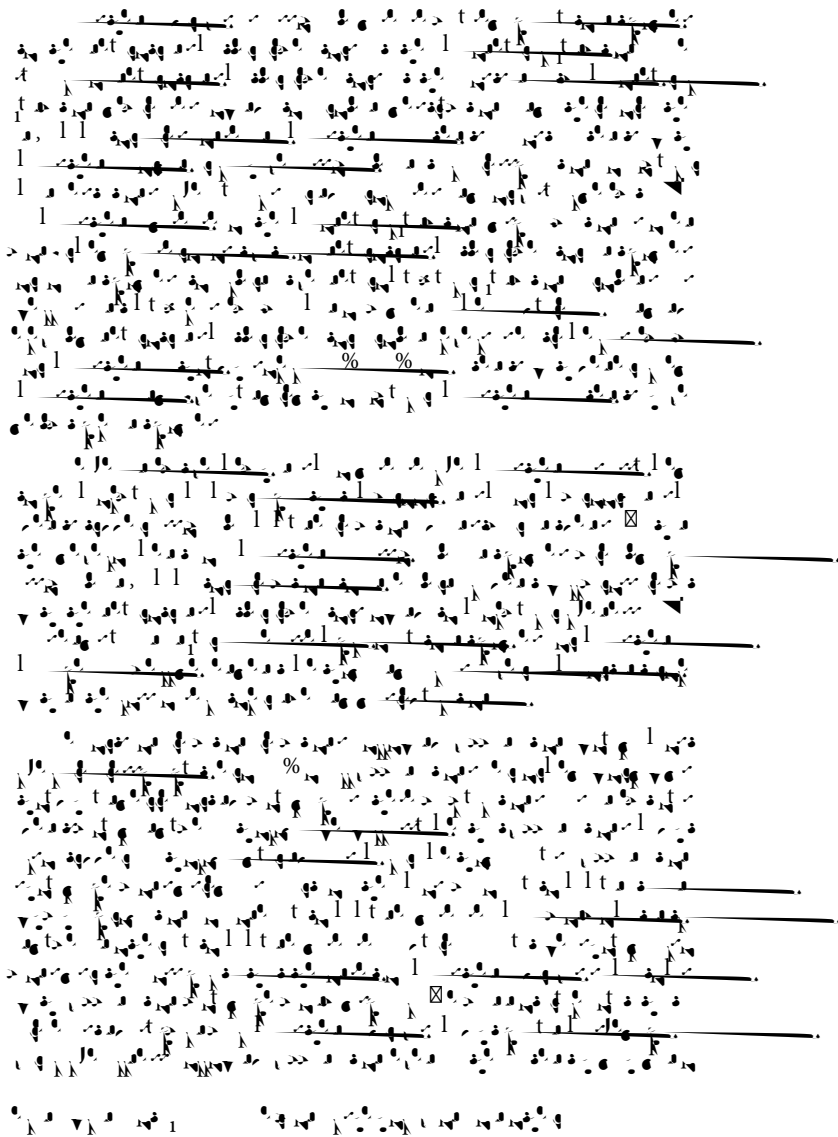
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Conclusions: This case report describes a rare incidence of myasthenia complication of ChAdOx1 nCoV-19 vaccination.



Discussion



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