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Inclusion body myositis: Update on the diagnostic and therapeutic landscape

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Inclusion body myositis (IBM) is a progressive muscle disease affecting patients over the age of 40, with distinctive clinical and histopathological features. The typical clinical phenotype is characterized by prominent involvement of deep finger flexors and quadriceps muscles. Less common presentations include isolated dysphagia, asymptomatic hyper-CKemia, and axial or limb weakness beyond the typical pattern. IBM is associated with marked morbidity as majority of patients eventually become wheelchair dependent with limited use of their hands and marked dysphagia. Furthermore, IBM mildly affects longevity with aspiration pneumonia and respiratory complications being the most common cause of death. On muscle biopsy, IBM is characterized by a peculiar combination of endomysial inflammation, rimmed vacuoles, and protein aggregation. These histopathological features are reflective of the complexity of underlying disease mechanisms. No pharmacological treatment is yet available for IBM. Monitoring for swallowing and respiratory complications, exercise, and addressing mobility issues are the mainstay of management. Further research is needed to better understand disease pathogenesis and identify novel therapeutic targets.

KEYWORDS

inclusion body myositis, idiopathic inflammatory myopathies, neurodegenerative diseases, aging, individualized medicine

Introduction

Inclusion body myositis (IBM) is a sporadic muscle disease of aging, almost exclusively affecting individuals over the age of 40 (1). Traditionally, IBM is classified as an idiopathic inflammatory myopathy. However, the unique clinical phenotype, the peculiar combination of various histopathological findings, and the slowly progressive, treatment-refractory course, made IBM a hot debate topic regarding its pathogenesis and the best way to treat it. As the clinical and histopathological features are not universally present in all IBM patients, patients are often misdiagnosed, especially earlier in the disease course (2, 3). Depending on the prominent clinical and/or histopathological features in a particular patient, common misdiagnoses include polymyositis or other myositides, hereditary myopathy with rimmed vacuoles or other inherited myopathies, compressive mononeuropathies (especially ulnar neuropathy at the elbow or median neuropathy at the wrist) or radiculopathies (especially L3/4 radiculopathy), or a motor neuron disorder. Hereditary myopathies with rimmed vacuoles, associated with a systemic proteinopathy, are sometimes called hereditary IBM (hIBM). However, the term

The Official Patients Sourcebook On Inclusion Body Myositis Pb

Snjolaug Arnardottir



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Inclusion Body Myositis William Tillier, 2022 **Inclusion-Body Myositis and Myopathies** Valerie Askanas, Georges Serratrice, W. King Engel, 1998-04-13 Inclusion body myositis IBM is now understood to be an important degenerative muscle disease The sporadic type s IBM is probably the most common muscle disease among those ailments that strike first in adulthood particularly people over 50 The hereditary type h IBM affects younger patients This book is devoted entirely to s IBM and h IBM Contributors discuss what is understood about the basic scientific foundations of IBMs the varied aspects of the pathology of IBMs and the application of clinical treatments One particular emphasis of the book is on the hereditary aspects of IBM and genetic predispositions to the disease *Inclusion Body Myositis* , 2014 **Inclusion-body myositis: clinical and pathologic aspects, and basic research potentially relevant to treatment** American Academy of Neurology, 2006 **Coping with a Myositis Disease** James R. Kilpatrick, 2000-09-01 Patients with dermatomyositis DM polymyositis PM inclusion body myositis IBM and juvenile dermatomyositis JDM present a personal look at life with these diseases *Inclusion Body Myositis* Umesh Arvind Badrising, 2006 **Inclusion Body Myositis** Marinos C. Dalakas, W. King Engel, 2006 Managing Myositis Rohit Aggarwal, Chester V. Oddis, 2019-12-14 This comprehensive book serves as a guide in the day to day management of patients with idiopathic inflammatory myopathies IIM with a particular emphasis on adult dermatomyositis DM polymyositis PM juvenile dermatomyositis necrotizing myositis and inclusion body myositis Practical in nature it presents IIM concepts in a straightforward fashion with high quality figures algorithms and flowcharts supplementing each of the expertly authored chapters The book begins with an introduction to myositis providing an overview of the myositis basics and what type of patient is affected Subsequent chapters are organized by the sequence in which a physician often manages myositis from initial presentation and workup to diagnosis treatment and finally prognostic and long term outcome factors The key differentials in various diagnostic studies are thoroughly examined including electromyography muscle biopsy and MRI Managing Myositis A Practical Guide is an easy to read indispensable resource for internists rheumatologists dermatologists pulmonologists and neurologists *Myoclear Breakdown in Sporadic Inclusion Body Myositis* Satoshi Nakano, 2011 *Myoclear Breakdown in Sporadic Inclusion Body Myositis* *Inclusion Body Myositis* Christopher Lindberg, 1994 **Development of New Therapeutic Strategies for Sporadic Inclusion Body Myositis** A. D. Miller, 2015 *Development of New Therapeutic Strategies for Sporadic Inclusion Body Myositis* Adrian Dimitri Miller, 2015 *Investigating Novel Therapeutic Approaches for Sporadic Inclusion Body Myositis (sIBM)* Mhoriam Ahmed, 2012 Sporadic Inclusion Body Myositis Jana Ivanidze, 2011 **The Official Patient's Sourcebook on Transverse Myelitis** Icon Health Publications, 2002-10-01 This sourcebook has been created for patients who have decided to make education and Internet based research an integral part of the treatment process Although it gives information useful to doctors caregivers and other health professionals it also tells patients where and how to look for information covering

virtually all topics related to transverse myelitis from the essentials to the most advanced areas of research The title of this book includes the word official This reflects the fact that the sourcebook draws from public academic government and peer reviewed research Selected readings from various agencies are reproduced to give you some of the latest official information available to date on transverse myelitis Following an introductory chapter the sourcebook is organized into three parts PART I THE ESSENTIALS Chapter 1 The Essentials on Transverse Myelitis Guidelines Chapter 2 Seeking Guidance Chapter 3 Clinical Trials and Transverse Myelitis PART II ADDITIONAL RESOURCES AND ADVANCED MATERIAL Chapter 4 Studies on Transverse Myelitis Chapter 5 Books on Transverse Myelitis Chapter 6 Multimedia on Transverse Myelitis Chapter 7 Physician Guidelines and Databases PART III APPENDICES Appendix A Researching Your Medications Appendix B Researching Alternative Medicine Appendix C Researching Nutrition Appendix D Finding Medical Libraries Appendix E Your Rights and Insurance ONLINE GLOSSARIES TRANSVERSE MYELITIS GLOSSARY INDEX Related topics include Transverse Myelitis *Studies in Sporadic Inclusion Body Myositis* Snjolaug Arnardottir,2003

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