



ParadigMS Foundation

Activities

→ 2023-24



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ParadigMS Foundation

Activities → 2023-24



Prof. Celia Oreja-Guevara,

President of ParadigMS Foundation

Dedicated to improving Multiple Sclerosis, NMO-SD and MOGAD patient care by translating science into clinically relevant continued medical education (CME) for neurologists and residents in Europe, the Middle East and North Africa.



SYMPOSIA,
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JOURNAL ARTICLES

Managing multiple sclerosis in individuals aged 55 and above: a comprehensive review

Óscar Fernández*, Per Sörensen, Giancarlo Comi, Patrick Vermersch, Hans-Peter Hartung, Letizia Leocani, Thomas Berger, Celia Oreja-Guevara*

Managing Multiple Sclerosis (MS) in individuals aged 55 and above poses distinct challenges due to the intricate interplay of aging, comorbidities, immunosenescence, and MS pathophysiology. This review delves into the evolving landscape of MS in older adults, addressing increased incidence and prevalence rates, transitions in disease phenotypes, and complexities related to multimorbidity and polypharmacy.

*Both equally work.
Frontiers in Immunology,
2024 (15) DOI=10.3389/fimmu.2024.1379538



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TO READ PUBLICATION



The current state of knowledge on the role of microglia in health and disease: implications for the management of multiple sclerosis

Patrick Vermersch*, Laura Airas, Thomas Berger, Florian Deisenhammer, Nikolaos Grigoriadis, Hans- Peter Hartung, Melinda Magyari, Maura Pugliati, Veronica Popescu, Carlo Pozzilli, Bart Van Wijmeersch, Magd Zakaria, Celia Oreja-Guevara*

The pathophysiology of MS, especially its progressive forms, involves various cellular components, including microglia, the primary resident immune cells of the CNS. This review discusses the role of microglia in neuroinflammation, tissue repair and neural homeostasis, as well as their involvement in MS and explores potential therapeutic strategies targeting microglial function.

*Both equally work.
This publication has been submitted for
publication in February 2024.



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LIVE EDUCATIONAL SESSIONS

Pre-MENACTRIMS Symposium in Abu Dhabi (7th Dec. 2023)

Attendees explored advancements in detecting MS progression. **Prof. Thomas Berger** (AUT) delved into immunological factors shaping MS pathogenesis, while **Prof. Celia Oreja-Guevara** (ESP) shared updates on neuroimaging techniques, including novel markers for chronic inflammation. **Prof. Tjalf Ziemssen** (DEU) provided an overview of innovative examination methods uncovering disability accumulation in MS. This event fostered collaboration and knowledge sharing to advance clinical decision-making in MS research.



9th Belgian Symposium in La Hulpe (Mar. 7th 2024) and Gent (28th Mar. 2024)

The evening focused on the important topic of differential diagnosis in MS, NMOSD and MOGAD. Given the nature of the disease course of NMO-SD and MOGAD, it is essential to quickly and accurately diagnose a patient.

The participants benefited from lectures by **Prof. Romain Marignier** (FRA) and **Dr. Laurence Lutteri** (BEL) and **Dr. Matthijs Oyaert** (BEL) on Differential Diagnosis in MS, NMO-SD, MOGAD, and Advances in Clinical Techniques for CNS Inflammatory Diseases respectively. Moreover, the session saw lively discussions centered around real-life clinical cases, fostering an environment of interactive learning and collaborative exploration.



VISIT OUR WEBSITE

TO ACCESS RECORDINGS OF THESE TALKS AND DELVE DEEPER INTO THE INSIGHTS SHARED.

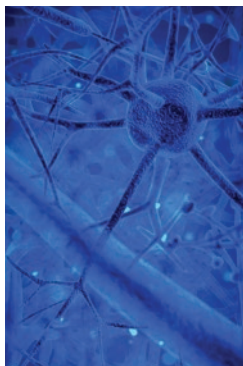


EACCME® ACCREDITED E-LEARNINGS

ParadigMS offers EACCME® Accredited self-paced courses through its educational platform.

1 How to Uncover Subtle Progression in Multiple Sclerosis

ParadigMS experts **Prof. Carlo Pozzilli** (ITA) and **Prof. Bart Van Wijmeersch** (BEL) offer insights into the nuanced progression of multiple sclerosis (MS). By the module's end, participants can distinguish between MS progression types, grasp underlying mechanisms, recognize symptoms, and review MRI markers for identifying progression independent of relapse activity (PIRA).

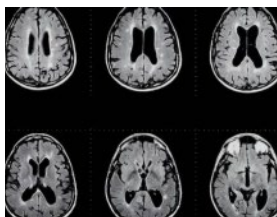


2 Innate immune system in the central nervous system

This e-learning explores the role of microglia, a type of innate immune cells in the central nervous system (CNS). You learn about the protective and damaging effects of microglia as a consequence of their capacity to assume homeostatic and neuroinflammatory roles in the brain. In this way, you learn how microglia interact with and impact on other cell types in the brain, and their involvement in promoting neurodegeneration in MS. Lead author of this e-learning is **Prof. Ralf Linker** (DEU).

3 MRI in MS

The focus of this course is the magnetic resonance imaging (MRI) which plays a fundamental role in the diagnosis and management of the multiple sclerosis (MS) patient. It includes examples of MRI and exercises for participants to learn how to differentiate MS from other neurological diseases mimicking the outward signs of MS. The experts featuring in this course are **Prof Roula Hourani** (LBN) and **Prof Jens Würfel** (DEU).

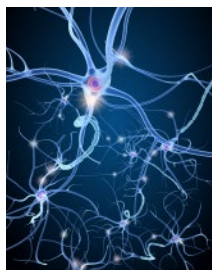


4 Prognostication, high efficacy treatments and virtual care in MS

This e-learning course features three lectures by prominent neurologists specializing in multiple sclerosis, **Prof. Bart Van Wijmeersch** (BEL), **Prof. Patrick Vermersch** (FRA) and **Prof. Mona AlKhawajah** (KSA). The course content covers MS prognostication, including the use of a prognostication tool in clinical practice, cases demonstrating high efficacy pharmacological treatments based on various factors, and the potential of virtual care and digital tools to complement patient data for neurologists.

5 Role of microglia in neuroprotection and remyelination processes in MS

This e-learning, led by **Prof. Nikolaos Grigoriadis** (GRC), explores remyelination's role in MS neuroprotection. It discusses how aberrant microglial activation can hinder remyelination, and future therapies targeting microglial responses may promote it. Participants gain insight into remyelination's significance, microglial regulation, and therapy impacts.



6 Clinical progression and the relation with innate immune cells

This e-learning, led by **Prof. Carlo Pozzilli** (ITA), digs down into the pathophysiology of MS to explain the MS continuum, showing how acute inflammation is caused by adaptive immune system cells entering the central nervous system from the periphery, while chronic neuroinflammation can be explained by the presence of compartmentalized immune cells trapped behind the blood-brain barrier.

7 Microglia as a target for the treatment of MS

This e-learning, led by **Prof. Patrick Vermersch** (FRA), underscores microglia's role in multiple sclerosis (MS) progression. The e-learning discusses how current MS treatments reduce MS relapse activity and acute inflammation, but how the activation of innate immune cells (i.e. microglia) in the brain contributes to ongoing disability progression that is not related to relapses. This facet of MS represents an unmet treatment need and is the focus of much clinical research.



COMPLETE E-LEARNINGS

ON CLINICAL RELEVANT TOPICS ON **MULTIPLE SCLEROSIS, NMO-SD**
AND **MOGAD** AND GET YOUR **EACMME CME CREDITS**.

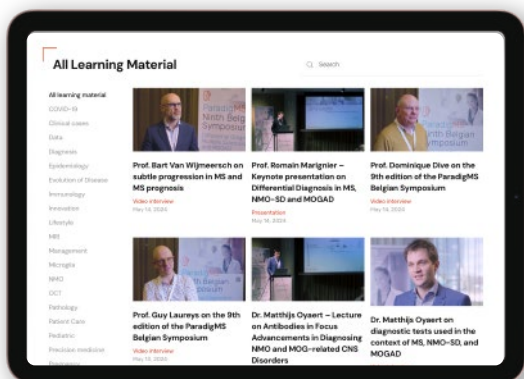


E-CONTENT PLATFORM

ParadigMS distributes all its material via paradigms.foundation, an educational platform that makes learning easy and accessible. Learners can subscribe, track their learning progress and navigate clinically relevant content easily. The e-platform is free for healthcare practitioners active in clinical practice.

ParadigMS learning platform offers:

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"HOW TO UNCOVER SUBTLE PROGRESSION
IN MULTIPLE SCLEROSIS".



WHAT OUR STUDENTS SAY

ParadigMS is committed to delivering educational content and experiences that are clinically relevant. Here are some quotes directly from our students!

→ *Very useful in daily practice.*

(Neurologist, ParadigMS Symposium 2024)

→ *The material was great.*

(Neurologist, e-learning "Part 1/5 on Microglia: innate immune system in the central nervous system")

→ *The e-learning are excellent!*

(Neurologist, e-learning "Prognostication, high efficacy treatment and virtual care in multiple sclerosis")



OUR VALUES



Independent

Independent in the educational programs we elaborate and the opinion our experts express.



Not-for-profit

ParadigMS' deliverables and objectives are not for profit and all funds are dedicated to the realisation of our mission.



International

ParadigMS' board members come from Europe, the Middle East and North Africa.



Multiple Sclerosis experts

Our experts are active clinicians and have published in peer reviewed journals on Multiple Sclerosis.



Improving patient care

ParadigMS' activities contribute to an increased knowledge of MS, NMO-SD and MOGAD care by general neurologists and other care-givers (nurses, general practitioners,...).

OUR EXPERTS



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Member Executive Committee



Nikolaos Grigoriadis, GRC
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Celia Oreja-Guevara, ESP
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MS INITIATIVES

ParadigMS is an active member of the Multi-Stakeholder Initiatives, a project initiated and led by the European Charcot Foundation.

It promotes a joint approach to coordinate existing Multiple Sclerosis initiatives aiming to avoid overlap in the actions and to increase the power of representation of the MS world at institutional level in Europe with the ultimate goal of improving MS patients' lives.

OUR EXPERTS

Where are our experts coming from?

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PARADIGMS FOUNDATION

ParadigMS Foundation is an independent and non-profit international group of expert neurologists. It is dedicated to improving Multiple Sclerosis, NMO-SD and MOGAD patient care by translating science into clinically relevant continued medical education (CME) for neurologists and residents in Europe, the Middle East and North Africa.

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SUPPORT PARADIGMS FOUNDATION TODAY!

Donate to make a significant difference in advancing our mission to empower neurologists for better patient care in Multiple Sclerosis, NMO-SD, and MOGAD. We accept donations from individuals and legal entities as from 25 euro.



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