



# Meeting of the International Medical and Scientific Board of the MS International Federation

Monday 21 September Virtual teleconference

Chair: Professor Brenda Banwell



## Welcome

Professor Brenda Banwell





## **IMSB Executive Committee**

**CHAIR: Professor Brenda Banwell**, Children's Hospital of Philadelphia, Philadelphia, US

**DEPUTY CHAIR: Professor Jorge Correale**, Raul Carrea Institute for Neurological Research (FLENI), Buenos Aires, Argentina

**Professor Kazuo Fujihara**, Fukushima Medical University, Fukushima, Japan – returning member, PACTRIMS President

**Professor Jeffrey Cohen**, Cleveland Clinic, Ohio, US – returning member, ACTRIMS President

**Professor Bernhard Hemmer**, Technical University of Munich, Germany – ECTRIMS President

**Professor Fernando Hamuy Diaz de Bedoya**, Universidad Unida, Asunción, Paraguay - LACTRIMS President

**Professor Bassam Yamout**, American University of Beirut Medical Center, Lebanon – MENACTRIMS President

**Professor Daphne Kos**, KU Leuven, Leuven, Belgium – RIMS President

**Professor Olga Ciccarelli**, UCL Institute of Neurology, London, UK

**Dr Laura Musambayi**, National Spinal Injury Referral Hospital, Nairobi, Kenya

**Professor Frauke Zipp**, University Medical Centre Mainz, Mainz, Germany

**Professor Mohammed Sahraian**, Shiraz University of Medical Sciences, Iran



### Agenda

07:00 EDT	Chair's welcome	Brenda Banwell
07:05 EDT	Atlas of MS – 3 <sup>rd</sup> Edition	Clare Walton
07:20 EDT	MSIF's international work on access	Bassem Yamout
07:35 EDT	MSIF Research awards	Michael Thor
07:45 EDT	IMSB Chair's Annual Report	Brenda Banwell
08:00 EDT	Close	





## Atlas of MS – 3<sup>rd</sup> Edition

**Epidemiology of MS findings** 

**Clare Walton** 





## Background to the Atlas of MS 3<sup>rd</sup> edition



First published with the WHO in 2008, updated in 2013
Widely cited in research and used to underpin advocacy work

#### Goals of the 3rd edition:



Improve coverage by reaching more countries

Improve quality of data and accuracy of global estimates

Create more user friendly resources and reporting tools

Gather new evidence on availability and access to healthcare



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## Atlas 3<sup>rd</sup> edition methodology

- Recruit experts to act as country coordinators
- Neurologists, researchers, epidemiologists, and MS organisations
- Encouraged collaboration

Recruitment



- Country coordinators provided data via a survey in English/French/Spanish
- 115 countries of 138 enrolled (83%) returned the epidemiology survey

Data collection



- Discrepancies resolved with country coordinators
- Confidence coding of data sources
- Literature search & review of 2013 data to fill gaps

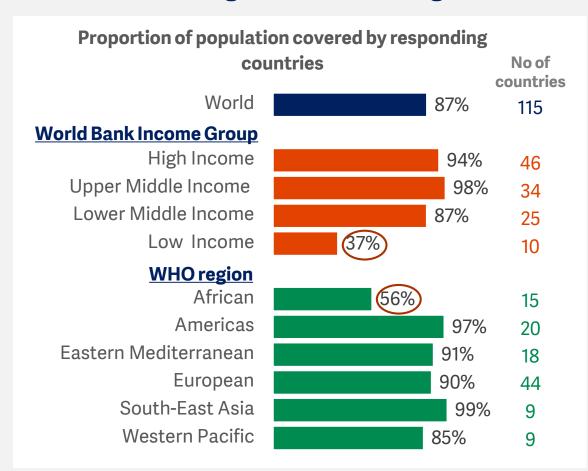
Data cleaning and validation

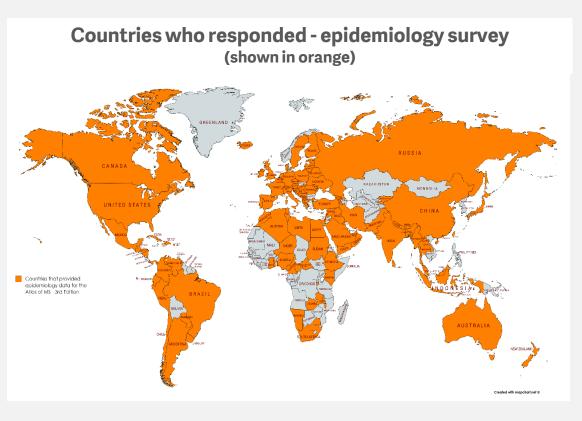




## **Epidemiology survey responses**

- Responding countries represent 87% of the world's population
- Weakest coverage in the African region and low income countries

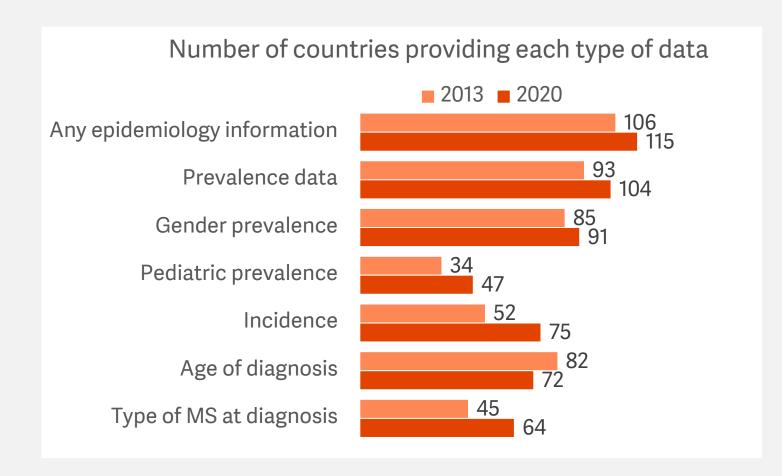








## Increase in data reporting in most areas since 2013



- Prevalence data from 104 countries covering 83% of worlds' population
- Greatest increases in the number of countries able to report incidence and type of MS at diagnosis
- Reduction in number of countries reporting mean age at diagnosis, likely due to 14 countries reporting for the first time

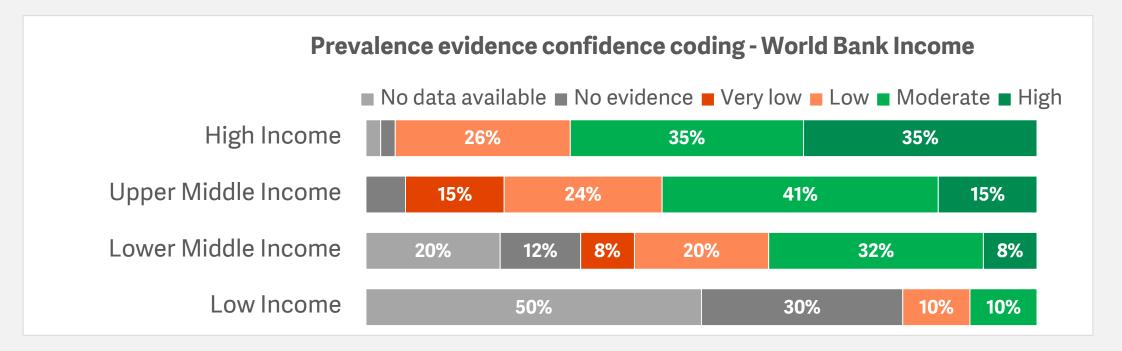
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### Prevalence data quality is improved

84% of countries cite a source for prevalence data (vs 71% in 2013)

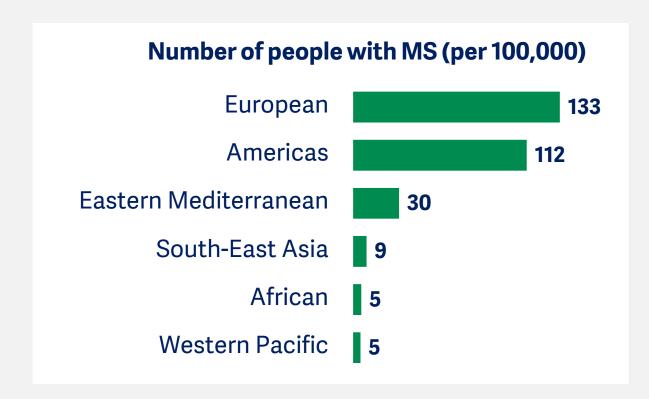
- 57% cite a peer-reviewed academic study (vs 51% in 2013)
- 27% cite electronic medical records or registries (vs 20% in 2013)







## 2020 MS Prevalence by WHO region



High geographic variability in prevalence

- Prevalence rates ranged from less than 1 up to 337 per 100,000 people
- Levels are highest in the European and Americas WHO regions

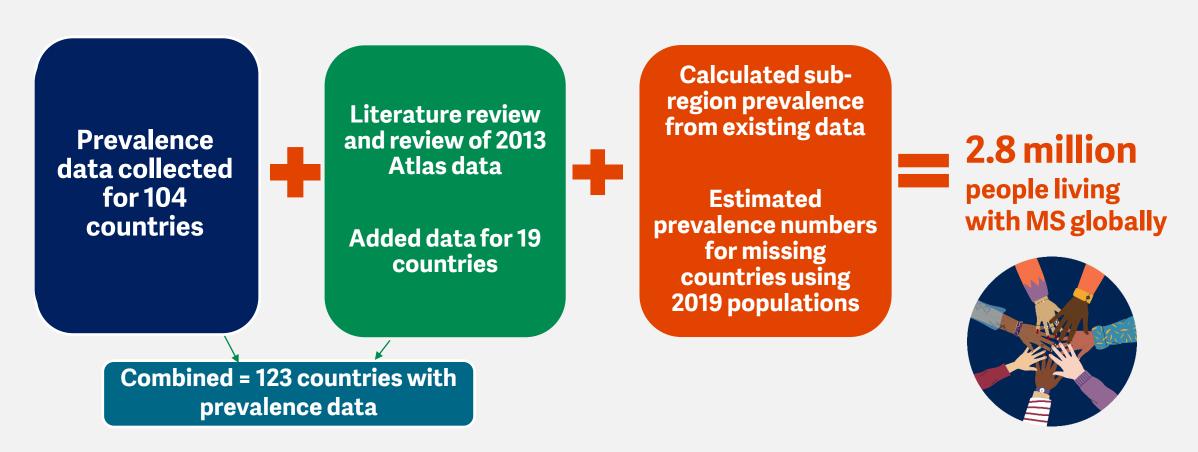
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Most countries that are missing prevalence data are from the lowest prevalence regions



## Estimating the number of people with MS worldwide

#### Our new calculation applies sub-region averages to fill the gaps





## Changes in regional prevalence since the 2013 Atlas

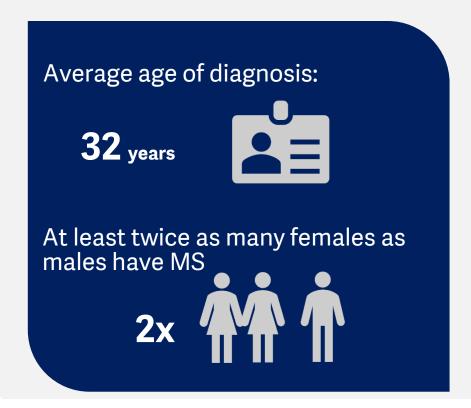
Based on 81 countries who provided prevalence data at both time points, we see increasing prevalence in all 6 WHO regions

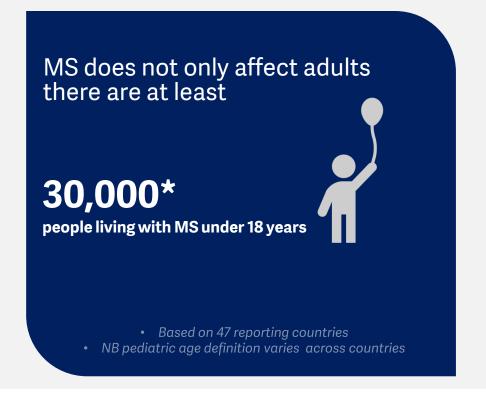
	Number of countries included	2013 prevalence per 100,000 (pooled)	2020 prevalence per 100,000 (pooled)	Absolute change since 2013 (%)
Global	81	29.3	44.0	14.7 (50%)
African	6	5.5	8.8	3.2 (59%)
Americas	15	62.9	117.5	54.6 (87%)
Eastern Mediterranean	14	23.9	33.0	9.1 (38%)
European	35	108.3	142.8	34.6 (32%)
South-East Asia	4	5.4	8.6	3.2 (58%)
Western Pacific	7	3.6	4.8	1.2 (32%)



## **Demographic results**

- Although the number of people with MS has increased, the global demographic and regional profiles remain similar to 2013
- Increasing recognition of pediatric MS 30,000 cases compared with 7,000 reported in 2013 likely due to an increase in reporting countries from 34 in 2013 to 47 in 2020





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## Access to Treatment: Off-label Guidance

Prof Bassem Yamout
Co-Chair of MSIF Off-Label Task force (MOLT)



Aim:

POSITIVE (HANGES IN ATTITUDES, POLICIES & PRACTICES



Aim:

IMPROVED ACCESS TO TREATMENT & HEALTH(ARE



Aim:

(ONFIDENT & INFORMED DECISION MAKING



TOGETHER WE'RE STRONGER THAN MS



Aim:

GREATER SCIENTIFIC UNDERSTANDING & MORE TREATMENTS

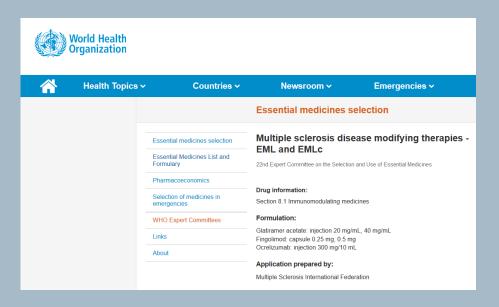


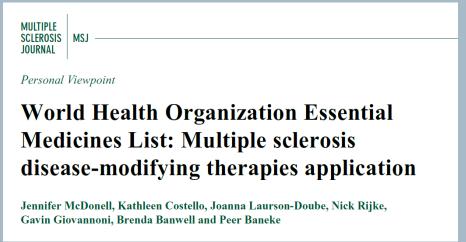
Aim:

A STRONGER, BROADER
MSIF MOVEMENT



#### World Health Organisation Essential Medicine List 2018-2019











#### Global access to treatment

July 2019
Access meeting
with IWGA and
global experts
identify actions



#### Time (not to scale)

2020 2022 2026 2030

Preparation (including off-label)

Revised application to WHO EML in 2022 Resource stratified treatment guidelines

Resource stratified diagnostic guidelines

Global summit on affordability



#### Off-label project

#### Context:

- Review required for WHO EML application
- Off-label DMTs are already widely used, guidance needed
- Where availability and/or affordability is stopping people to access a range of DMTs
- Recommendations can be **for** or **against**, consideration on evidence available and the panel discussion and judgements



#### Aims:

- 1. Create a robust and transparent process to review off-label DMTs
- 2. Review evidence for azathioprine and rituximab to provide guidance on their use



#### Off-label project plan and task force (MOLT)

2020 Q2	2020 Q3	2020 Q4	2021 Q1	2021 Q2	2021 Q3
Project planning and identifying task force and stakeholders	Define process for data review and associated documents	Data review for azathioprine and rituximab, associated doc	Data review for azathioprine and rituximab, associated docs	Evidence to Decision framework process	Communication and dissemination & EML

#### Co-Chairs:

- Bassem Yamout (MENACTRIMS, Lebanon)
- Bernhard Hemmer (ECTRIMS, Germany)

#### **Collaborators**:

- Cochrane MS and Rare Diseases of the CNS
- McMaster GRADE Centre, WHO Collaborating Centre for Infectious Diseases, Research Methods and Recommendations

#### Tier 1 stakeholders:

- IMSB Executive Committee
- International Working Group on Access (IWGA)
- Regional TRIMS
- WFN, AAN, EAN
- WHO Brain Health
- Experts Sweden, India





**MSIF** 



Off-label treatments for MS

#### Question list



Should azathioprine vs. other disease-modifying therapies be used for relapsing forms of multiple sclerosis as first choice treatment? Should azathioprine vs. other disease-modifying therapies be used for relapsing forms of multiple sclerosis when switching from another DMT? Should azathioprine vs. other disease-modifying therapies be used for active progressive forms of multiple sclerosis as first choice treatment? Should azathioprine vs. other disease-modifying therapies be used for active progressive forms of multiple sclerosis when switching from another DMT? 4 Should rituximab vs. other disease-modifying therapies be used for relapsing forms of multiple sclerosis as first choice treatment? Should rituximab vs. other disease-modifying therapies be used for relapsing forms of multiple sclerosis when switching from another DMT? Should rituximab vs. other disease-modifying therapies be used for active progressive forms of multiple sclerosis as first choice treatment? 8 Should rituximab vs. other disease-modifying therapies be used for active progressive forms of multiple sclerosis when switching from another DMT?

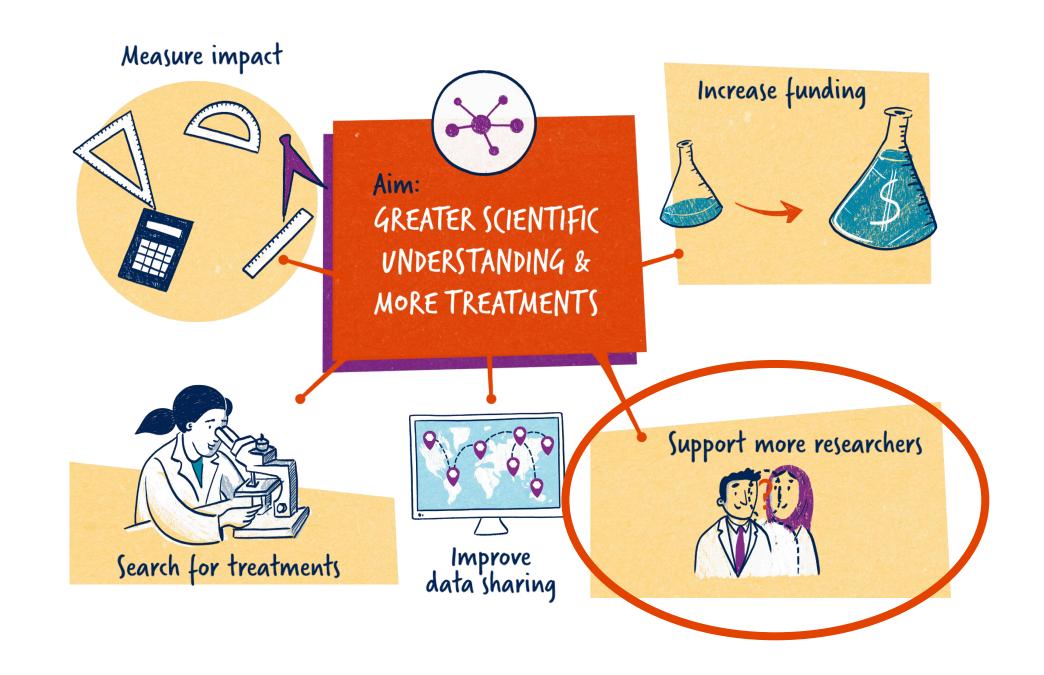


## Questions or Comments?



## **MSIF Research Awards**

Michael Thor





## Changes to the MSIF Awards in 2020

- 1) Extended deadline from June 30 to August 31
- 2) Involved people affected by MS in review process a pilot project
  - Three people affected by MS per panel, scoring three questions of the application:
    - Continued work in MS related work in low- and middle-income countries (LMICs)
    - Lay summary
    - Involvement with MS organisations
- 3) Broadened eligibility criteria due to COVID-19 travel restrictions

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## Broadened eligibility criteria due to COVID-19

Applicants could propose three types of projects:

- A) in a research institute/hospital abroad if travel permits (as in previous years)
- B) in a research institute/hospital in their home country
- C) a virtual project, either in full or in part with host institution mentoring

We will review the situation and outcomes in early 2021 and potentially keep the broader eligibility



## Increased number and diversity of applications in 2020 compared to 2019

30 applications in total – 10 more than last year Wider geographic representation:

2019 2020

• Du Pré: Brazil, India, Iran, Ecuador

• <u>Du Pré:</u> Algeria, Argentina, Brazil, India, Iran, Nigeria, South Africa, Turkey, and Zambia

• McDonald: Brazil, Colombia, Iran, Mexico

• <u>McDonald:</u> Algeria, Argentina, Egypt, India, Iran, Nigeria, and Turkey



## Thank you to the 2020 MSIF Award panel members

#### **McDonald Fellowship panel**

- Brenda Banwell (Chair)
- Jeffrey Cohen
- Kazuo Fujihara
- Olga Ciccarelli
- Frauke Zipp
- Fernando Hamuy Diaz De Bedoya
- Bassem Yamout
- Bernhard Hemmer
- Liudmila Gruba (person affected by MS)
- Rosa Juuti (person affected by MS)
- Graham Walker (person affected by MS)

#### Du Pré panel

- Jorge Correale (Chair)
- Daphne Kos
- Mohammad Ali Sahraian
- Laura Musambayi
- Hans Lassmann
- Amit Bar-Or
- Christiane Tihon (person affected by MS)
- Peter Nabil Habib (person affected by MS)
- Maureen Wood (person affected by MS)



## Young Investigator Award Panel

- Jaume Sastre-Garriga (Chair)
- Julia Morahan
- Kjell-Morten Myhr
- Tim Coetzee
- Emmanuelle Plassart
- Helen Tremlett
- Jan Meilof
- Liliana Patrucco
- Maria Zuluaga
- Claudia Cárcamo Rodríguez
- Mona M. Alkhawajah



## **IMSB Annual Report**

Brenda Banwell



## Global COVID-19 and MS activity

#### 1. Global COVID-19 advice for people affected by MS

- Consensus advice statement agreed with IMSB Executive committee, TRIMS Presidents and Research staff network in March, and updated twice: <a href="https://www.msif.org/covid19">www.msif.org/covid19</a>
- Translated into 12 languages and widely shared through members and TRIMS networks

#### 2. COVID-19 and MS global data sharing initiative

- Partnership with MS Data Alliance <u>www.msif.org/covid19data</u>
- To stimulate widespread collection and sharing of a core COVID-19 and MS data set clinician reported and patient reported information
- Aim: to generate rapid insights on the impact of disease-modifying therapies on COVID-19 outcomes during the pandemic.
- First results will be presented at MSVirtual2020 on 26 September



#### **International Progressive MS Alliance**

- Challenge Awards call for proposals just closed
- Implementation teams meeting Milan Feb 2020
- Fluid Biomarkers team:
  - New paper on neurofilament light in Neurology
  - Consensus meeting in preparation
  - Seeking letters of support for the biomarker from FDS and EMA





#### **Patient Reported Outcomes in MS**



Four working groups established

- 1. Research, development and validation: of PROs to capture the outcomes that are most important to people living with MS. Chaired by Maria Pia Amato, Giampaolo Brichetto and Bernard Uitdehaag.
- 2. Clinical management: Use of PROs to ensure that the symptoms, abilities and quality of life issues are appropriately addressed in care settings. Chaired by Gilles Edan, Jeremy Hobart, Robert McBurney, Gary Cutter and Iris-Katharina Penner
- 3. E-Health: enabling digital PRO measurement including the passive collection of data. Chaired by Robert Hyde and Letizia Leocani
- **4. Healthcare systems:** to increase the uptake of PROs at the level of healthcare systems. Chaired by Gavin Giovannoni and Fabio Pammolli

**Engagement coordination team** is currently being recruited to develop the patient engagement strategy across the whole PROMS initiative. Chaired by Emma Gray (UK MS Society) and a person with MS (TBC)



#### Funding our research and access work







## Thank you for joining us

We hope to see you in person next year!