



The first & second Pan-European Multi-Stakeholder Colloquia

Brussels, Belgium, May 2014 & 2015



Exploring opportunities and challenges for improving Multiple Sclerosis management – Calls to Action

Prof. Patrick Vermersch

Chair of the scientific committee of the Multi-Stakeholder Colloquia on MS



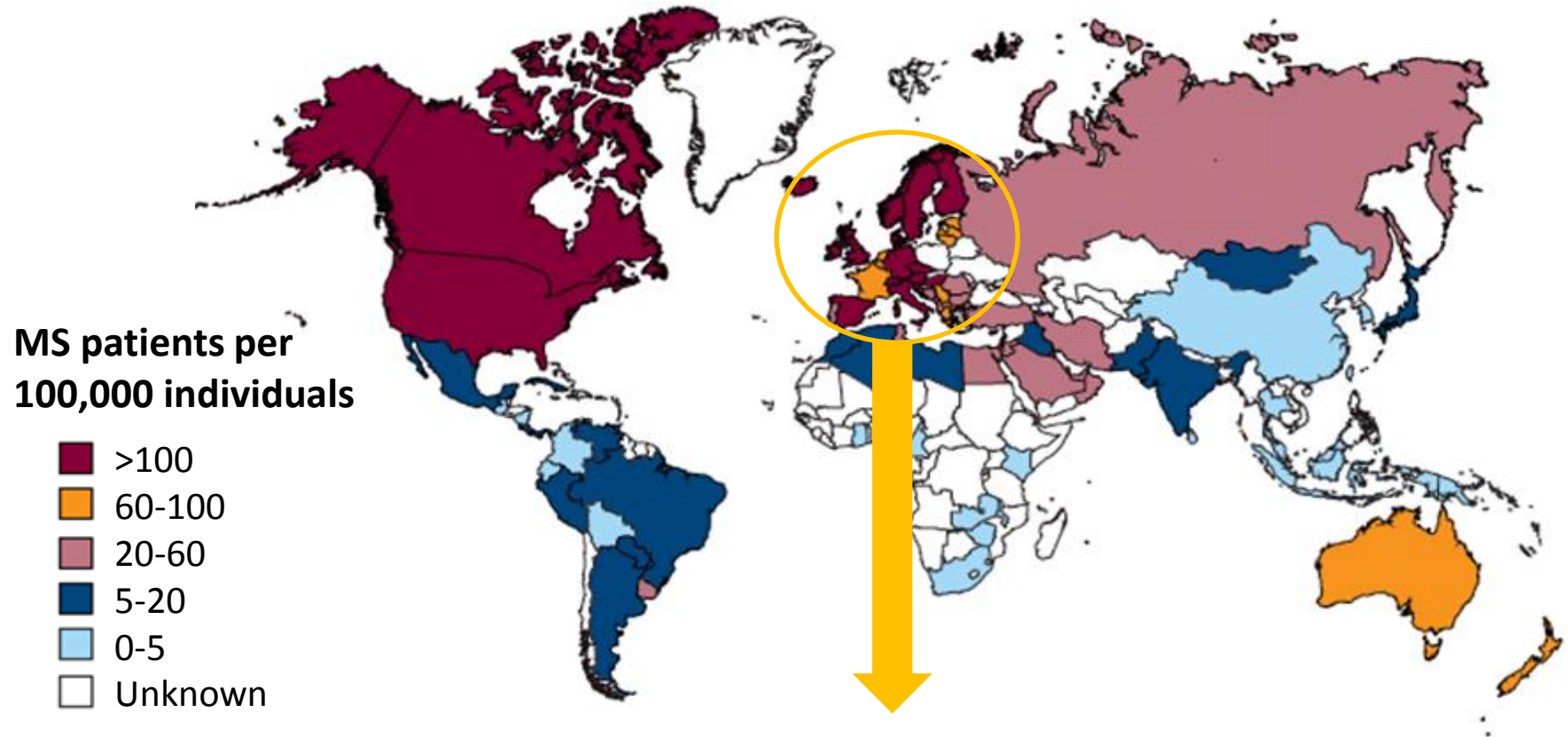
Conflicts of interests/financial support

- ✿ Consulting fees and honoraria from Bayer Schering, Biogen Idec, Merck-Serono, Novartis, Teva, Genzyme-Sanofi and Almirall
- ✿ Research support from Bayer Schering, Biogen Idec, Merck-Serono, and Teva





Prevalence of Multiple Sclerosis (MS)



- ✿ Leading cause of non-traumatic disability in young adults
 - Europe: 600,000 MS patients and 1,000,000 caregivers
- ✿ Diagnosed in the peak of their productive life, with >50% becoming unemployed within 3 years



Different stakeholders...different platforms

Pharmaceutical industry



Patients

- EMSP

Healthcare professionals

- Neurologists: ECTRIMS, ECP...
- Radiologists: MAGNIMS
- Rehabilitation therapists: RIMS
- MS nurses, psychotherapists,...



Payers

- Responsible for funding of approved medicines (National)
- Advised by national HTA



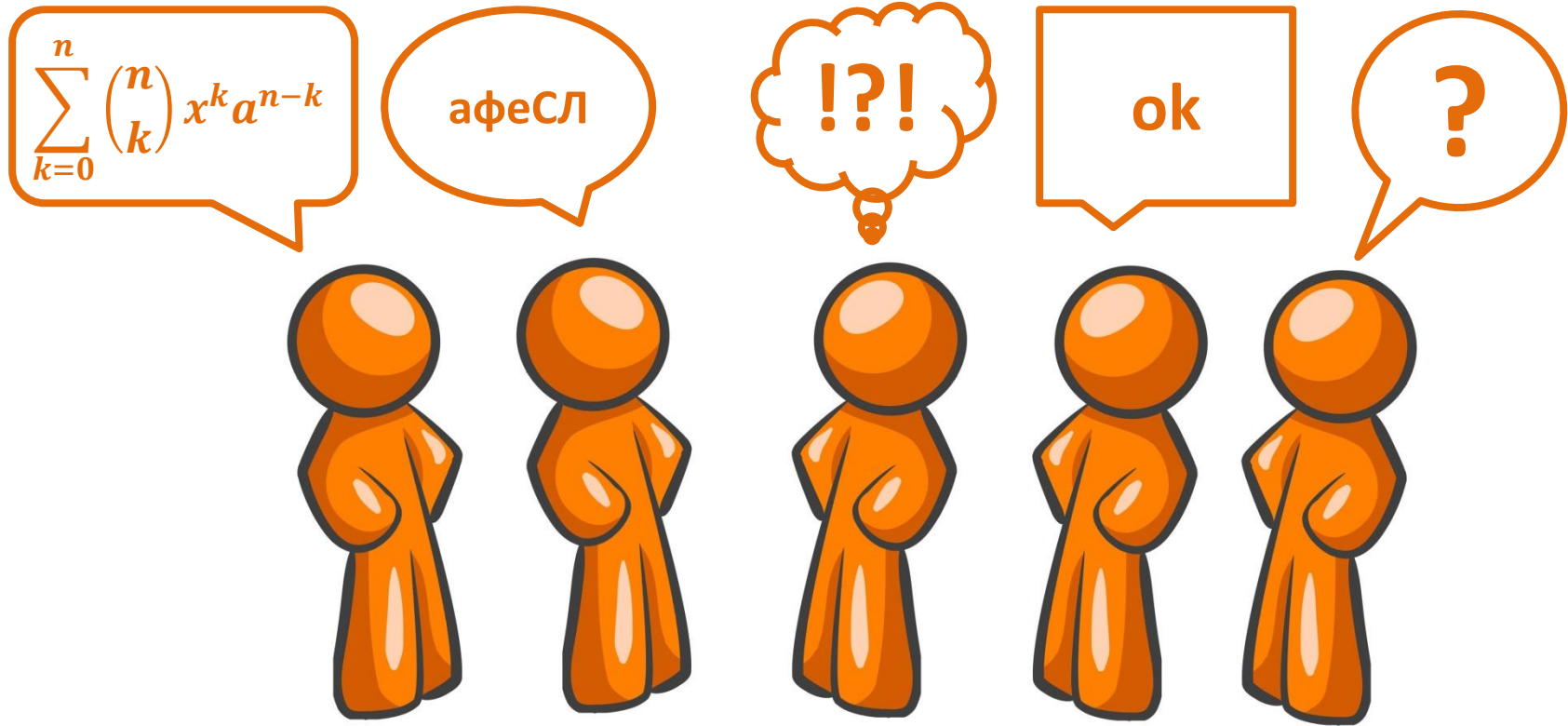
Stakeholders

Regulators

- EU: EMA with CHMP
- National



Different stakeholders...different language?



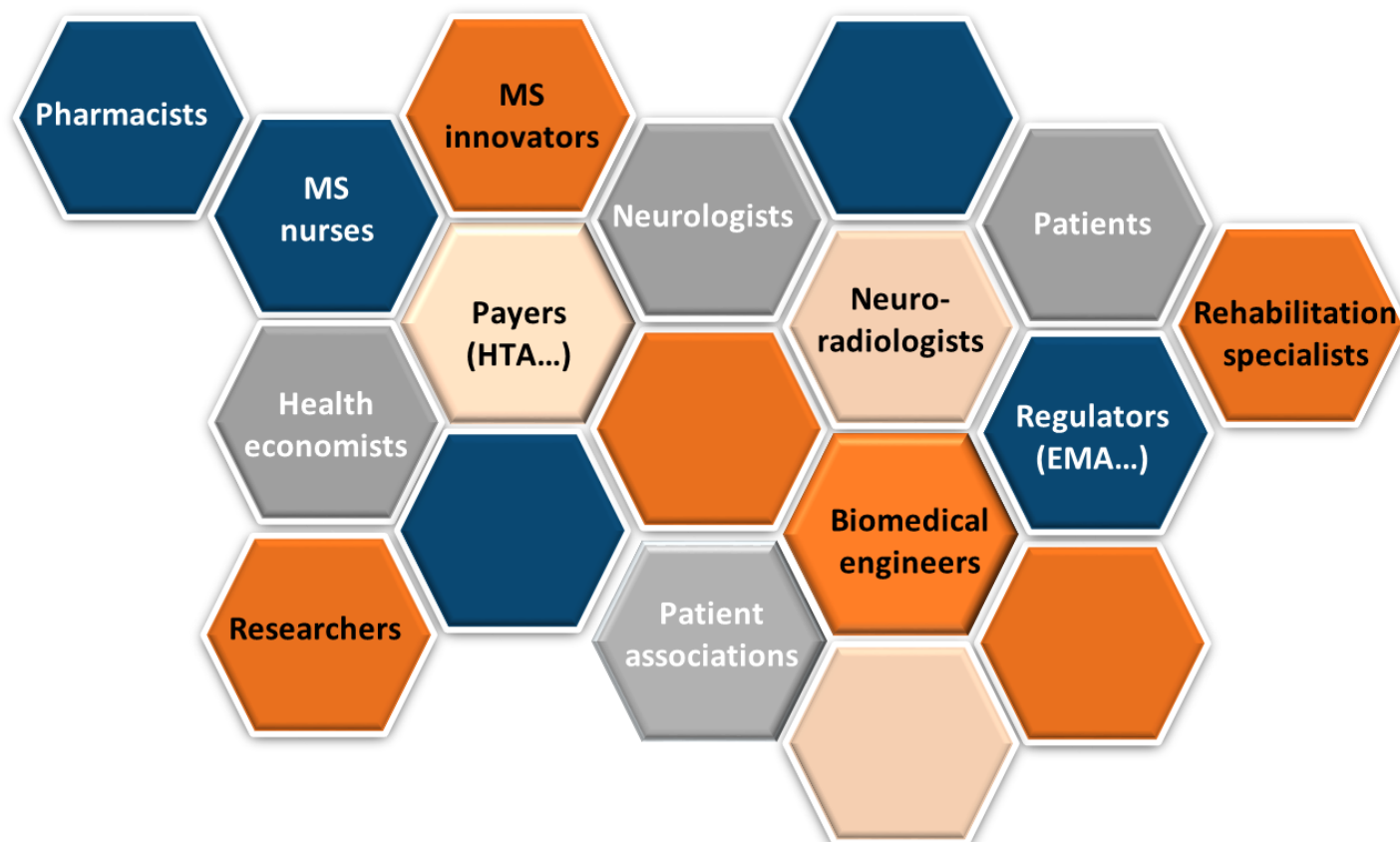
Multiple voices towards Commission



Goal of the Multi-Stakeholder Colloquia

Improve cross-talk

Explore and provide **integrated solutions for better care** of MS, by bridging the viewpoints of different stakeholders



EMA= European Medicines Agency; HTA= health technology assessment



Key faculty of the Multi-Stakeholder Colloquia (1)

Participation from:





Key faculty of the Multi-Stakeholder Colloquia (2)

Leo Ayerakwa

George C. Ebers

Carsten Lukas

Conor Devine

Yoram Baram

Piet Eelen

Stine Lykke Andersen

Mondher Toumi

Thomas Berger

Andre Elferink

Jana Lizrova Preiningeroova

Maria Trojano

Karl Broich

Andreas Faller

Jacqueline Palace

Frauke Zipp

Diego Centonze

Peter Feys

Jean-Louis Prugnaud

Gisela Kobelt

Declan Chard

Emer Fogarty

Alex Rovira

Wim Van Hecke

Manuel Comabella

Gavin Giovannoni

M. Beatriz Silva-Lima

Patrick Vermersch

Daan JA Crommelin

Ralf Gold

Christoph Thalheim

Wil Toenders

Josep Darbà

Chris Holleway

Susan Tilley

Matthijs Versteegh

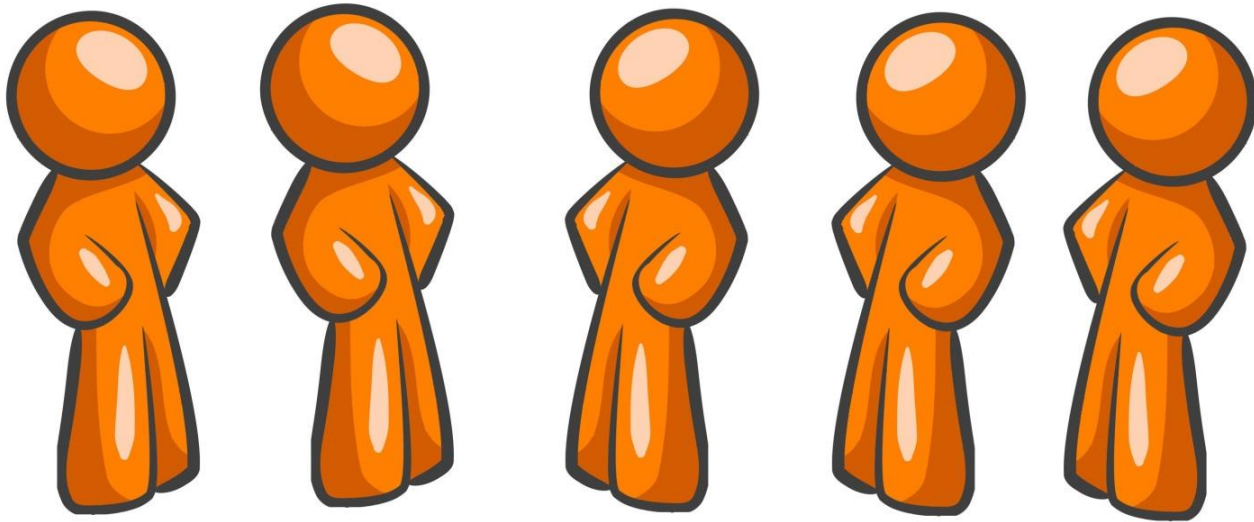
Luiza Wieckzynska

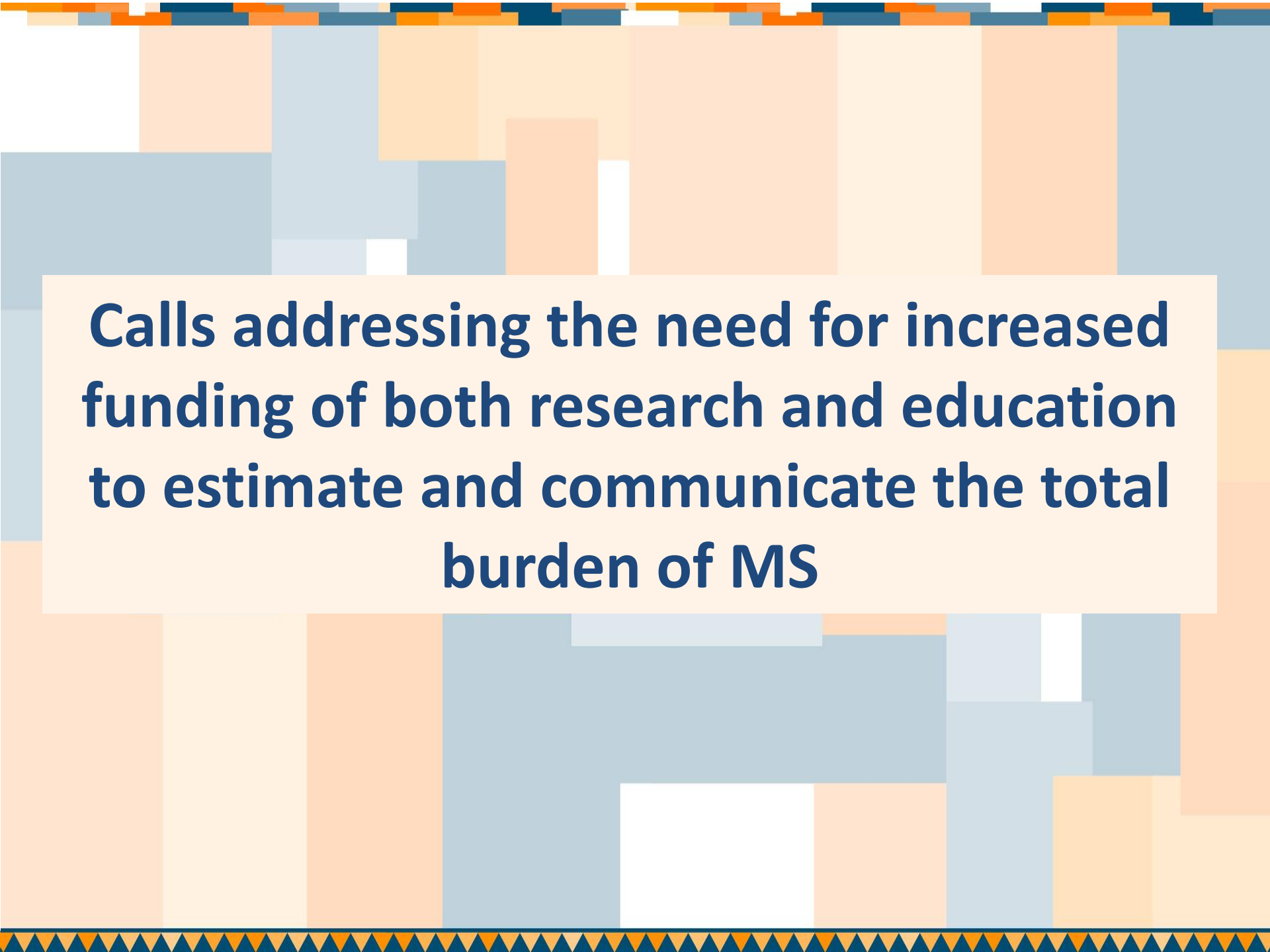




Outcomes of the Multi-Stakeholder Colloquia

10 Calls to Action
for improving MS management in Europe





**Calls addressing the need for increased
funding of both research and education
to estimate and communicate the total
burden of MS**




Call 1: Increase awareness/understanding about the burden of MS, from the patient & caregiver perspective



Wheelchair-bound
at older age

A blue stick figure is shown from the back, with its hands clasped. Above its head is a thought bubble containing the text "Wheelchair-bound at older age".

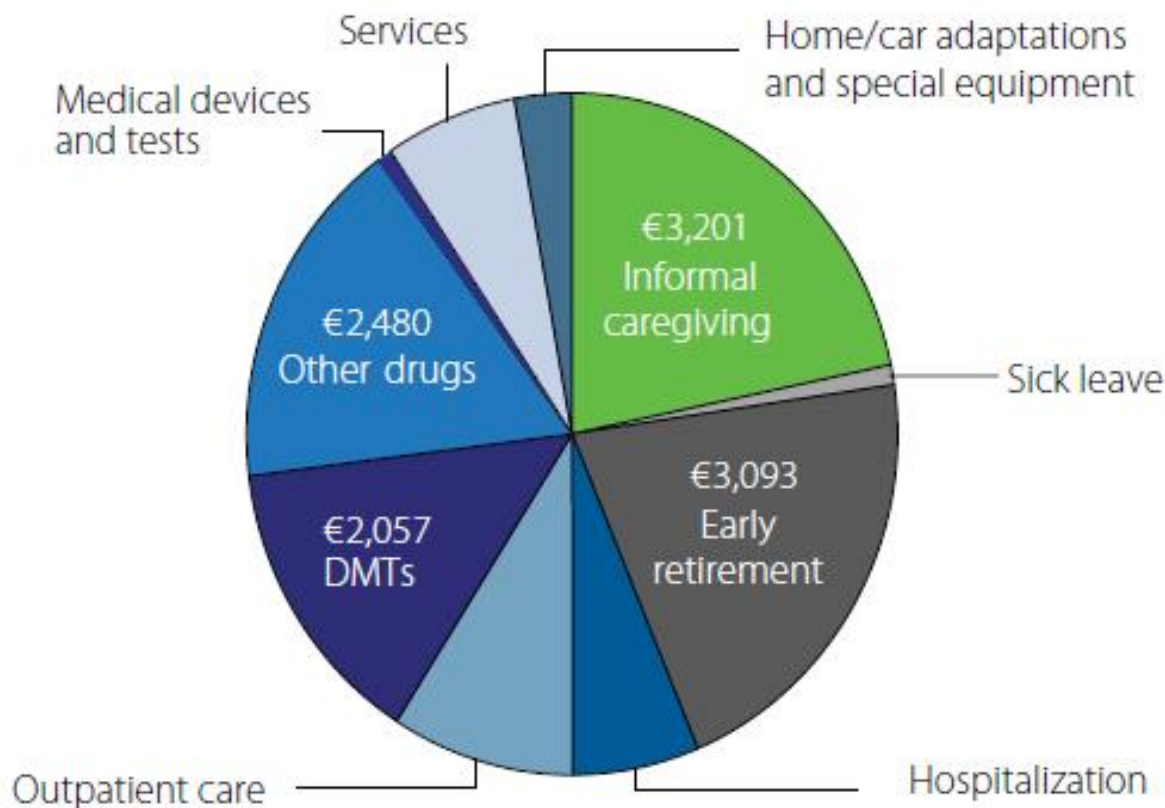
Most European citizens

- 
- Young people
 - Afraid of their future
 - Loss of mobility
 - Loss of energy
 - Decrease in cognitive function
 - Dependency on caregivers
 - Unemployment
 - Social isolation
 - Reduced quality of life
- An orange stick figure is shown from the back, with its hands clasped. A large orange-bordered box containing a list of nine bullet points is positioned to its left. A line connects the bottom of the box to the figure's head area.

Patients with MS and caregivers



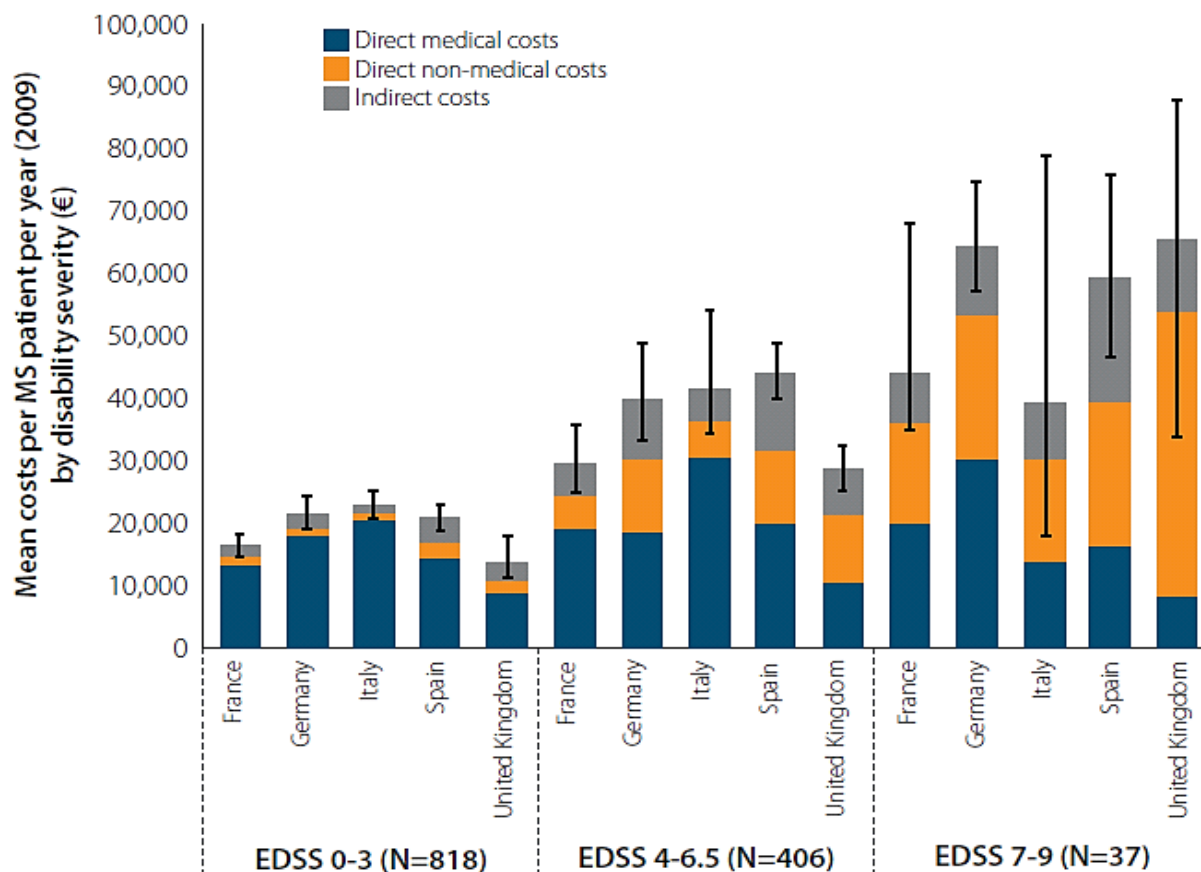
Call 2: Improve communication towards the European community on the cost burden of MS



In Europe, total direct and indirect costs are estimated at
€31,000 per MS patient per year



Call 2: Improve communication towards the European community on the cost burden of MS

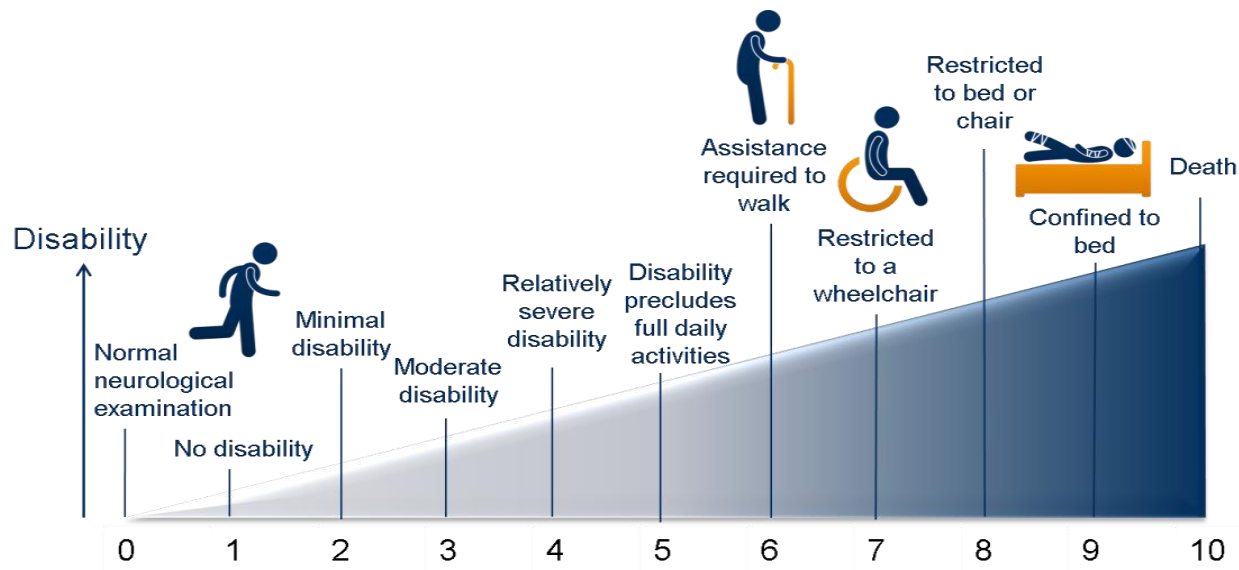


Direct AND indirect costs increase significantly with higher disability levels. It is important to take this information into account when evaluating drug costs.

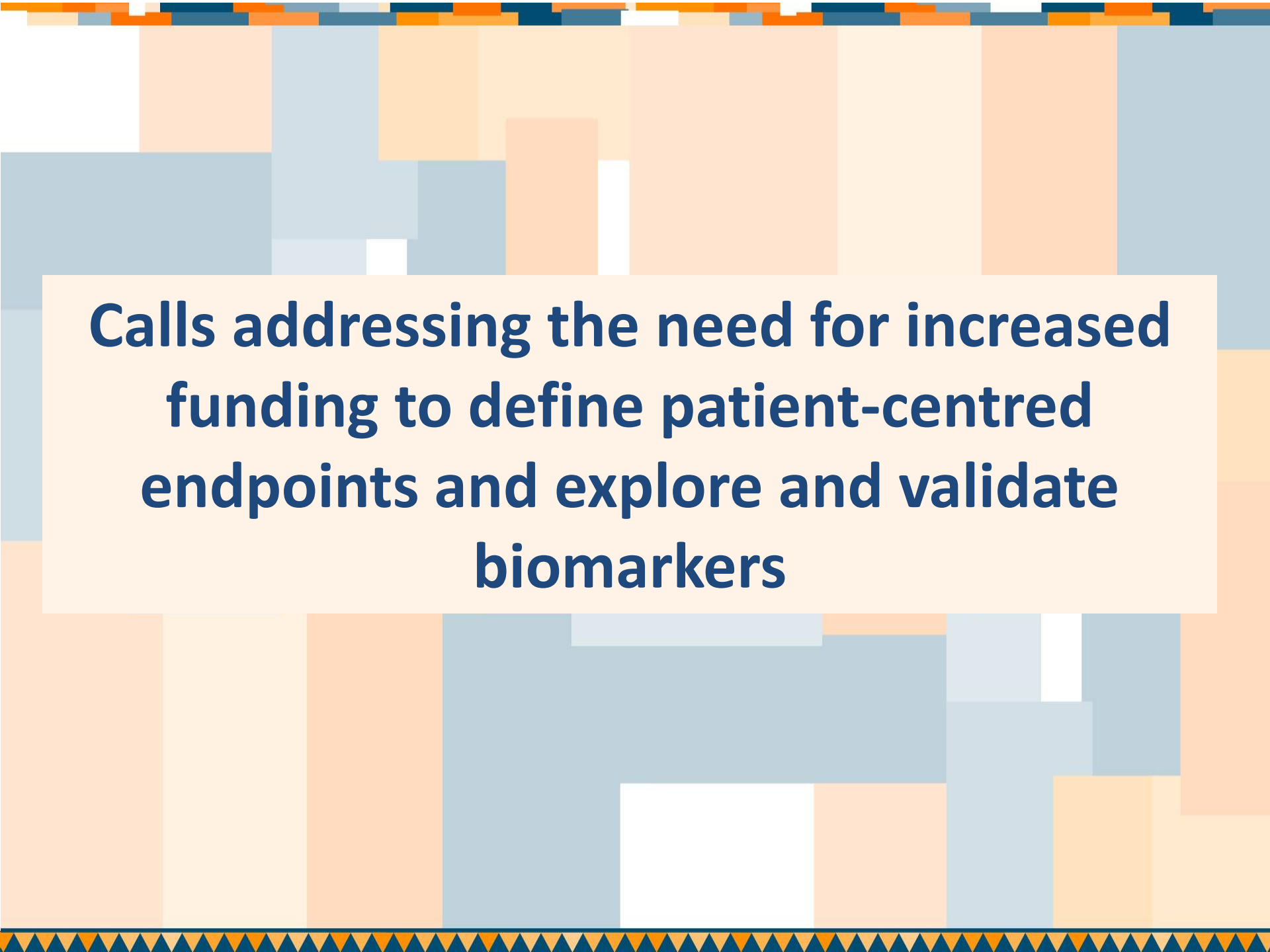


Call 4: Educate and develop new tools to better capture the total clinical burden of MS

- ✿ The EDSS is the most frequently used tool to monitor disability progression in MS but has **several limitations** such as:
 - Poor inter- and intra-rater reliability
 - Too much focus on capturing physical disability/mobility



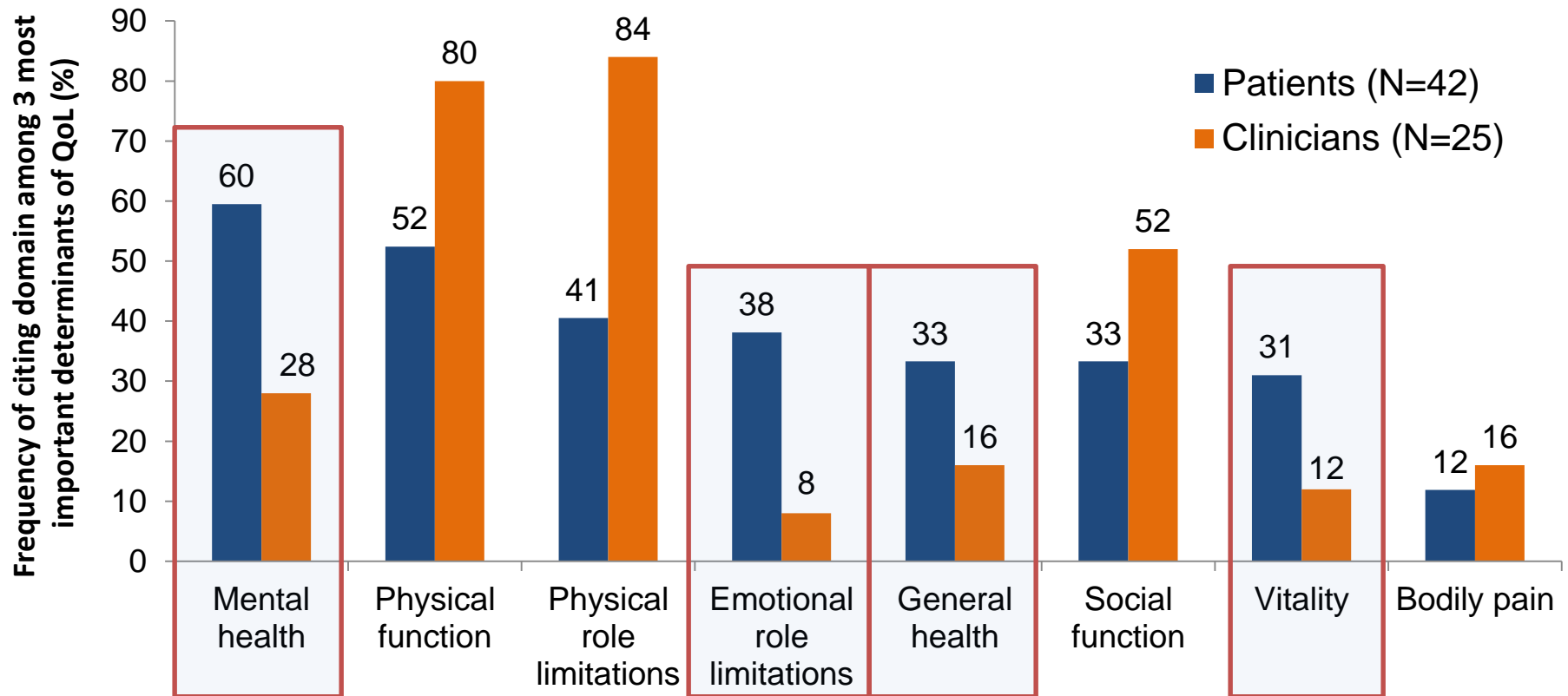
More effort/research should be undertaken to develop a tool which captures less visible but bothersome symptoms



**Calls addressing the need for increased
funding to define patient-centred
endpoints and explore and validate
biomarkers**



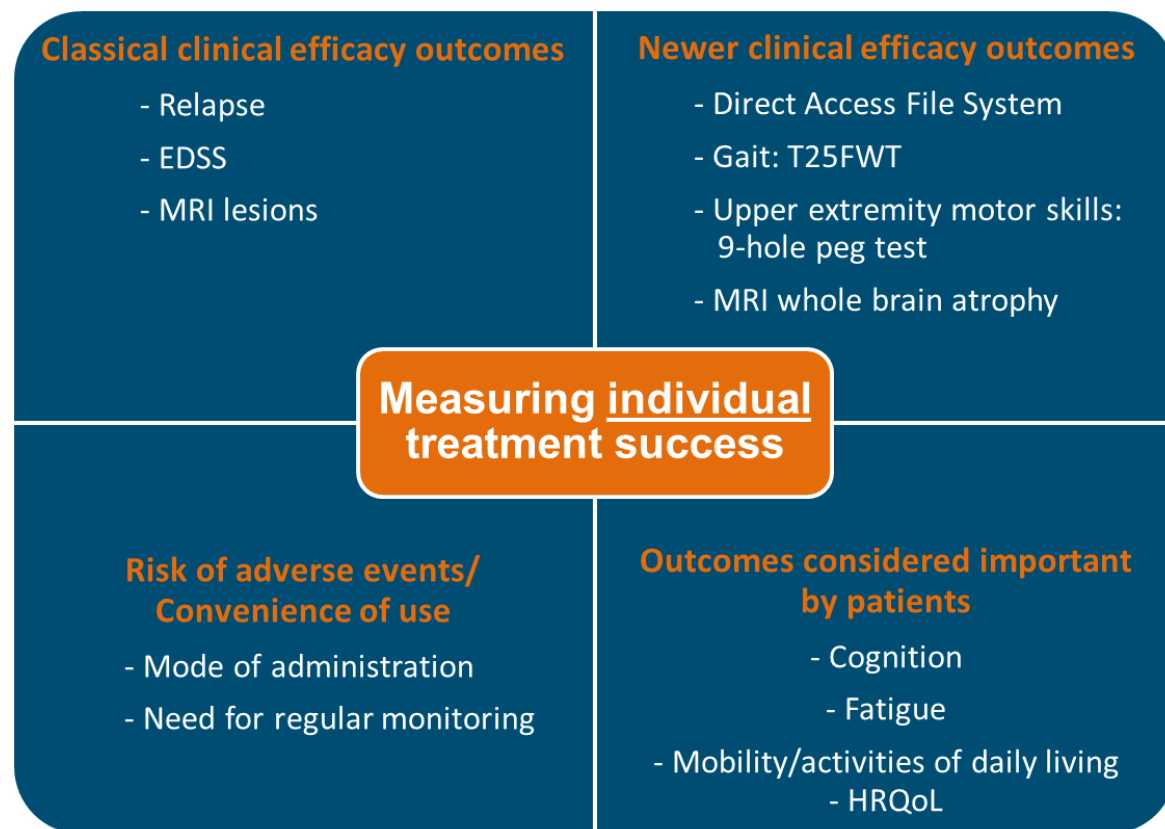
Call 3: Perform patient research to (re)define treatment goals and clinical study endpoints



Patient perspectives differ from physician perspectives, with patients giving high value to not only physical but also mental /emotional health



Call 3: Perform patient research to (re)define treatment goals and clinical study endpoints



Patient's perspectives/expectations should be taken into account when evaluating "value for money" during drug approval & HTA decision making

EDSS= Kurtzke Expanded Disability Status Scale; MRI= magnetic resonance imaging; T25FWT= time 25-foot walk test;
HRQoL= health-related quality of life ; HTA= health technology assessment



Call 5: Develop a protocol for standardisation of MRI in MS to optimise its use as a marker of disability progression

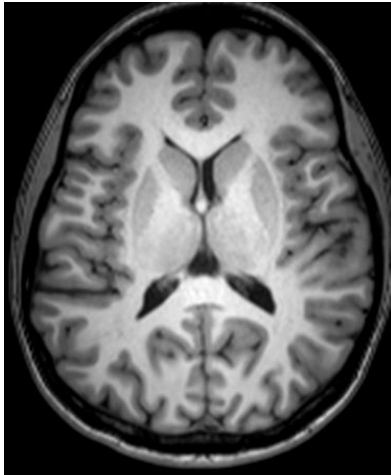
- ✿ Clinical indicators of a higher risk of disability progression are
 - Later age at onset
 - Male gender
 - High number of relapses in the first 2 years from onset
 - Incomplete recovery from the first relapse
 - High number of abnormal lesions at the MRI scan
- ✿ The rate of disability progression in MS is variable
 - It is currently not possible to predict the disease course in an individual person with MS at onset
 - It is difficult to capture clinically relevant disability progression in clinical trials with disease-modifying drugs of 2 years duration

Research should focus on finding markers, preferably surrogate endpoints, for long-term disability progression

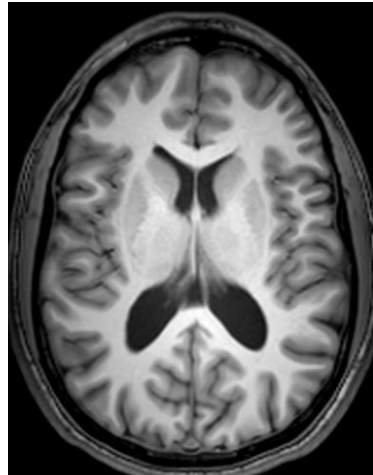


Call 5: Develop a protocol for standardisation of MRI in MS to optimise its use as a marker of disability progression

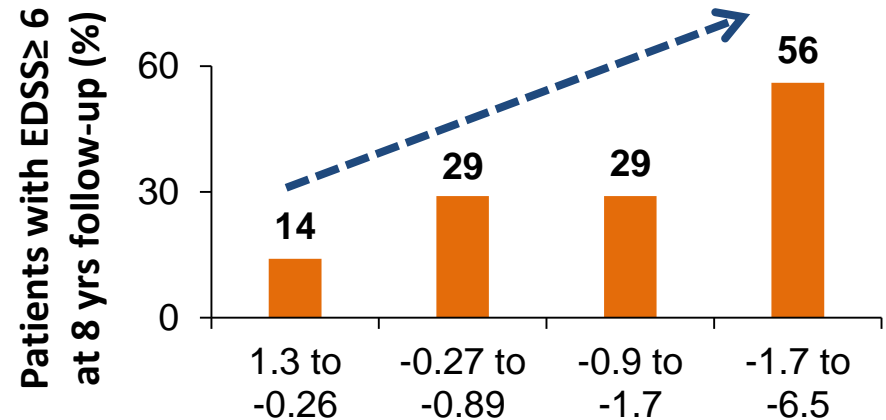
Healthy person



Person with MS



Percentage of brain volume change from baseline to year 2 (N=138)



- ✧ Whole brain atrophy is higher in MS patients than healthy controls
- ✧ Whole brain atrophy is higher in patients progressing to an EDSS ≥ 6 after 8 years of follow-up

In order to make MRI markers applicable as markers of disability progression in daily clinical practice, it is essential to develop/use a **standardised MRI protocol**. Certification of centres/neuro-radiologists implementing this standardised protocol may help acceleration.



Call 6: Support research to find molecular biomarkers which can predict disability progression & treatment response


✿ There is a need for non-imaging biomarkers to:

- Predict & monitor disease progression:
 - CIS → RRMS → SPMS
 - Disability
- Stratification for treatment
- Monitoring of treatment efficacy & risks

✿ Validation processes can best be performed by European consortia engaged in biomarker research

- Best candidates in the cerebrospinal fluid:
Immunoglobulin G index/oligoclonal bands, Chitinase-3-like-1 protein
- Best candidates in blood: vitamin D

Patient's perspectives/expectations should be taken into account when evaluating “value for money” during drug approval & HTA decision making

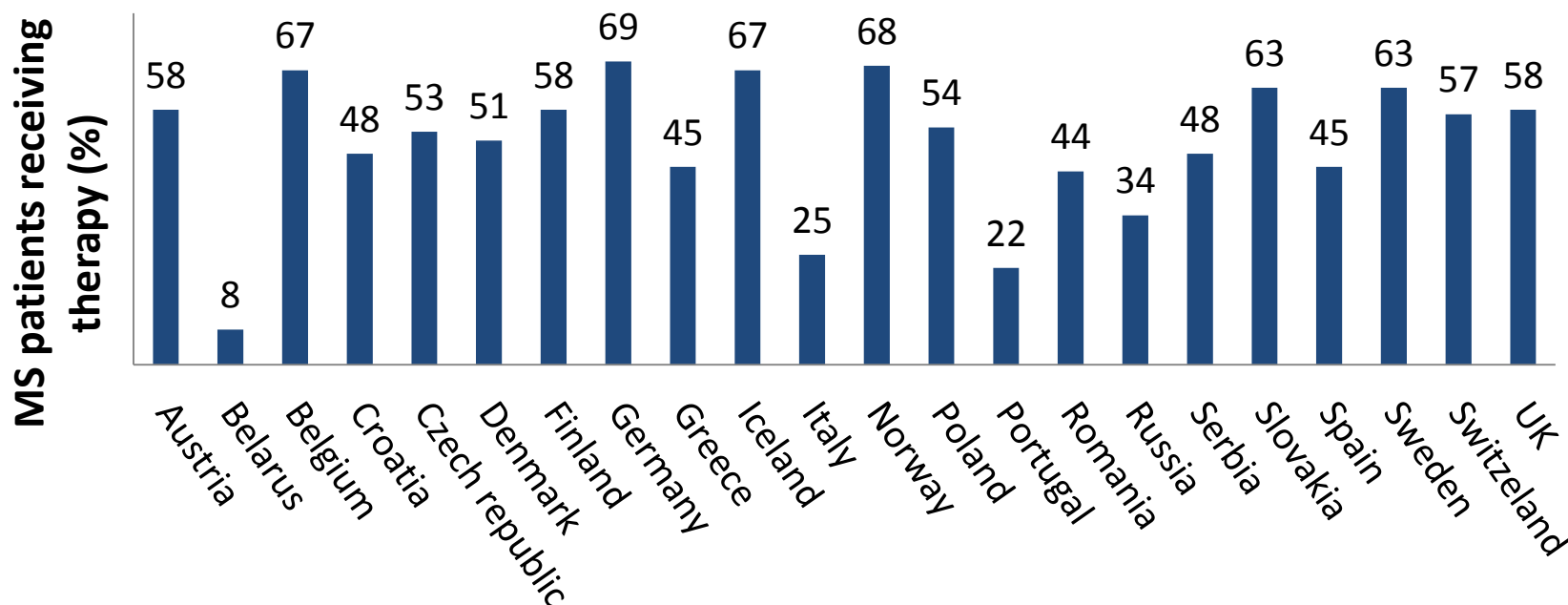


**Calls addressing the need to align the
market authorisation decision-making
process with the health technology
assessment process**



Call 7: Align CHMP & health technology assessment decision making processes

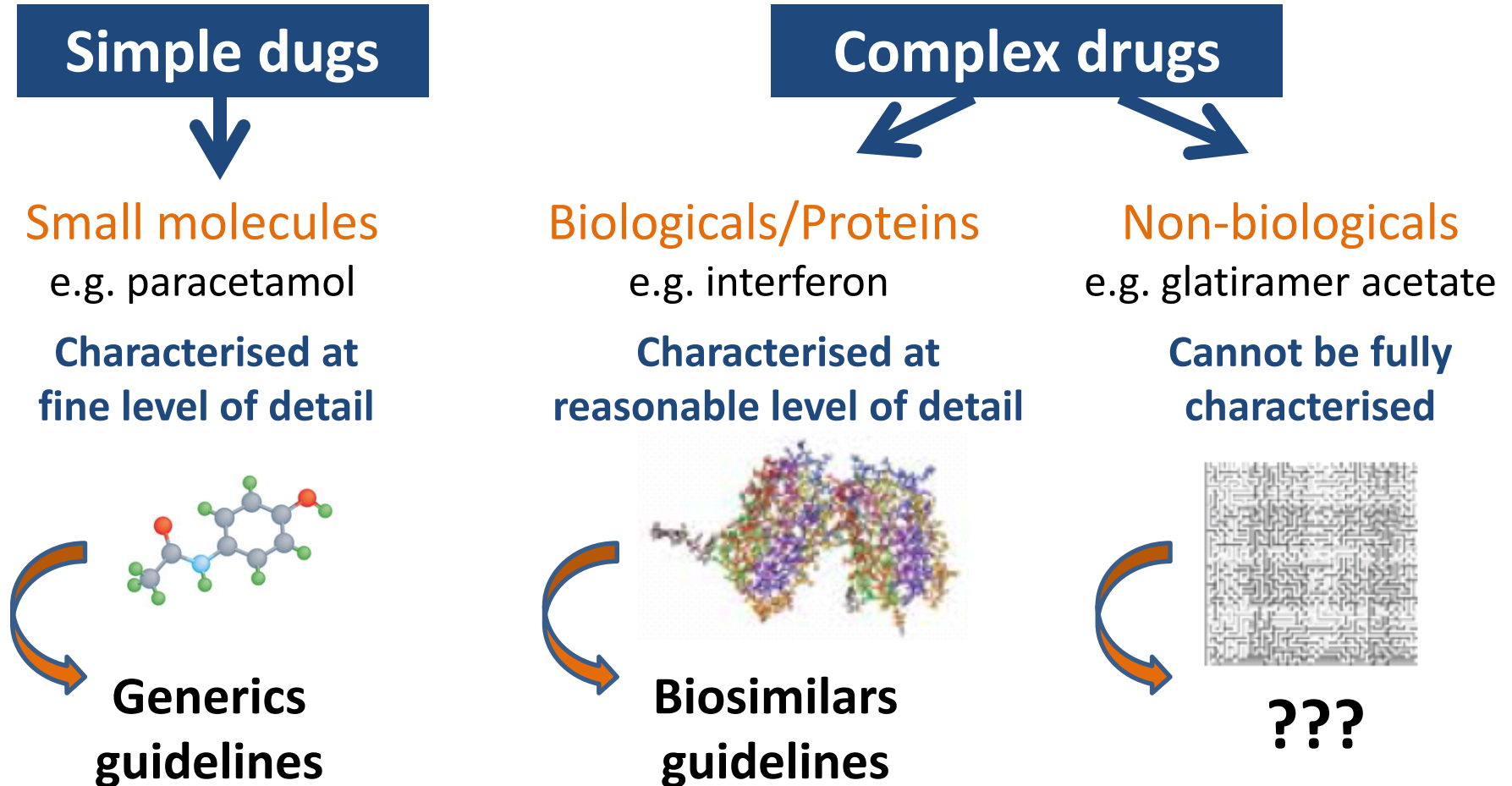
- ✿ There are widespread **inequalities** in access to MS therapy across Europe




Integration of the CHMP/EMA and HTA decision processes may decrease inequality. In addition, patient perspective should also be taken into account.



Call 8: Develop separate EMA guidelines for evaluating follow-on products of non-biological complex drugs



It is essential that EMA develops clearly defined guidelines for demonstrating similarity of follow-on NCBDs in order to guard the safety of MS patients.



Calls addressing the need to keep MS patients active and working, as long as possible



Call 9: Stimulate the implementation of specialised care centres and support MS patients in being active & working



Activity stimulates muscle function

- ✿ Keeps them mobile & out of a wheelchair
- ✿ They can continue to work & socialise
 - Positive impact on their mental quality of life
 - Their family members can continue to live their own life & perform their own job



Reduces indirect costs and improves the quality of life (intangible costs)

Exercise-related activities for MS patients should be supported and incentive for employers to retain/employ MS patients should be provided.



Call 10: Support the continuation of the multi-stakeholder colloquia to stimulate innovation

