





Impact of Multiple Sclerosis Symptoms (IMSS) in The Netherlands

Despite progress in multiple sclerosis (MS) care, healthcare systems across Europe still lack a **coordinated and prioritised approach** to managing MS symptoms effectively. MS is a lifelong neurological condition affecting more than 1.2 million people in Europe, yet many continue to face gaps in care and support.

The European Multiple Sclerosis Platform (EMSP) is spearheading research to understand how people with MS experience and manage their symptoms across the continent. By **identifying disparities** EMSP aims to promote stronger collaboration among key stakeholders to effectively address unmet needs.

The Impact of Multiple Sclerosis Symptoms (IMSS) initiative seeks to drive policy change, improve care pathways, and enhance rehabilitation outcomes, ensuring that people with MS receive the **comprehensive support** they deserve.

Emma's story is just one example of how MS reshapes lives — and why understanding these experiences is crucial for improving care.



EMSP and 24 national MS societies across 22 European countries collected real-life evidence on MS symptoms and management. Behind these findings are real people, each with their own challenges, uncertainties, and hopes.



In the Netherlands, **1,037**¹ people with MS participated in the IMSS survey from May 5 to August 31, 2023.

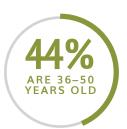
A Life Changed by MS

Emma had always been full of energy — a professor and a passionate gardener in her free time. But at 30, her life took an unexpected turn. She started noticing strange sensations in her legs, followed by bouts of overwhelming fatigue. Over time, these symptoms grew harder to ignore. Tasks she once did effortlessly became a struggle. Her doctor ran tests, but the results were inconclusive. For four long years, Emma lived with uncertainty, her daily life becoming a patchwork of pain, confusion, and questions without answers.



Participant demographics

44.9
THE MEAN AGE OF PEOPLE WITH MS











People between **18-35** reported the least of symptoms in general.

Individuals aged **36–50** experienced low mobility impairment and arm/hand problems.

Between **51-65**, low cognitive impairment and low anxiety, while the rest of the symptoms start to emerge significantly.

Over 65, most of the problems continue, but the lowest cognitive impairment and anxiety were reported.

GENDER

Females 85%

Males **15%**

Females reported significantly fewer sexual problems and tremors.

Males reported significantly fewer anxiety but more spasticity problems, sexual problems, arm and hand problems and tremors than females.

WORKING STATUS

Part-time workers 32%

Full-time workers 17%

Not working due to MS

Not working, not due to MS

Student/ training 2%

Part-time workers and full-time workers reported significantly less presence of all symptoms.

People not working due to MS reported the most presence of all symptoms.

Understanding MS Across Europe

IMSS aims at uncovering the truths behind the symptoms, struggles, and stories of MS. How do people across Europe experience the condition? How do healthcare systems respond to their needs? And most importantly, where are they falling short?

For Emma, these questions resonate deeply. Her diagnosis eventually came at age 34, but the journey didn't end there. Her symptoms — fatigue, walking difficulties, bladder problems, and pain — continued to affect her daily life. Navigating the healthcare system felt like an uphill battle, and she often wondered if there was more that could be done.

Emma's experience reflects a broader reality revealed through the IMSS survey. Thousands of respondents shared their stories, offering insight into the challenges of living with MS: delays in diagnosis, inconsistent care pathways, and limited support for symptom management. Despite these challenges, EMSP saw an opportunity to drive change. By amplifying these voices, EMSP could push for policies that prioritise comprehensive, equitable care for people like Emma across the continent.

Clinical situation

DIAGNOSIS AND SYMPTOM ONSET

diaanosed

between 18-35 yrs

average disease duration have at least 1 additional illnesses

Delay from symptom onset to diagnosis



symptom onset age

AVERAGE DELAY OF 4.1 YEARS

average diagnosis age

TYPES OF MS

68% RRMS, Relapsing Remitting MS

15% PPMS, Primary

MS

12% SPMS, Secondary Progressive Progressive MS

5% **Unsure** of their MS type

DISABILITY LEVELS

17% of the respondents had mild disability

while 52% had moderate disability and 19% had severe disability. People living with PPMS reported more moderate (49%) and severe disability (49%) compared to RRMS. People with SPMS reported the most severe disability (58%)².

QUALITY OF LIFE

The majority of respondents had no or

slight problems, while 9% were experiencing moderate or severe problems affecting their quality of life. The quality of life deteriorated more among people with PPMS (20%) and people with SPMS (17%)³.

USE OF DMDs

79% of respondents have used **Disease Modifying**

Drugs (DMDs), with 62% currently using them. 55% reported less than a 1-year delay to start DMDs, while 14% experienced delays of 6 years or more. Among non-users,

the main reasons were:

- 29% concerns about use
- 36% never being offered
- 18% physicians advising against them.

AVERAGE DIAGNOSIS AND

Symptoms

PRESENCE AND PREVALENCE

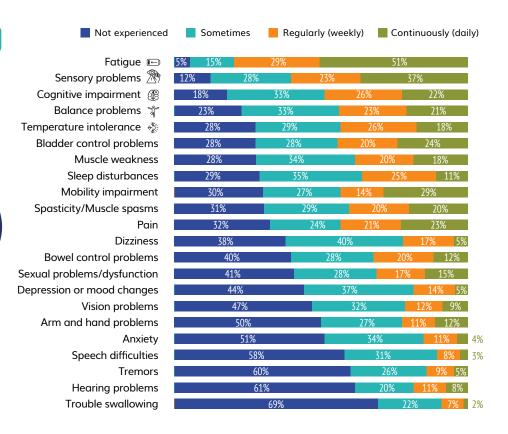
The symptoms reported the most were fatigue, sensory problems, cognitive impairment, balance problems and heat/cold sensitivity.

99%
EXPERIENCED
AT LEAST ONE
SYMPTOM

AVERAGE

13.8

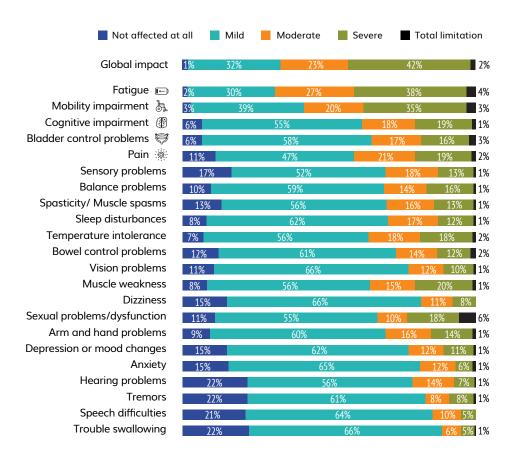
SYMPTOMS
EXPERIENCED
TOGETHER



SEVERITY AND IMPACT

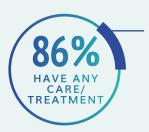
The symptoms that were affecting the daily lives of people with MS were fatigue, mobility impairment, cognitive impairment, bladder control problems, and heat/cold insensitivity⁴.

The top 3 most debilitating symptoms were **fatigue**, **mobility impairment**, and **cognitive impairment**⁵.



Treatment and care

CARE FOR SYMPTOMS



14% don't use any care /treatment. The top reasons for not using a specific treatment were having no need, treatment was not offered to them, or they cannot afford this treatment.



People with MS reported using 5.9 treatments or care on average for their symptoms.

The most used treatments were*: prescription medication, personal life modifications, physical therapy, and physical activity.

Lifestyle changes



Medication for symptom management

Prescription medication 61%
Non-prescription medication 22%

Therapy/treatments



Social support



Complementary and alternative therapies



Other



Surgery 1%

INVOLVEMENT OF PROFESSIONALS

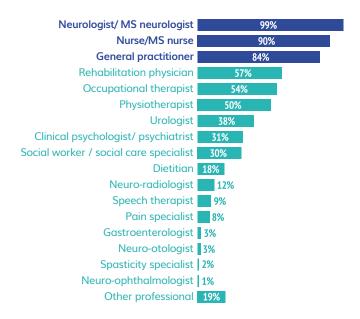
AVERAGE

6.1

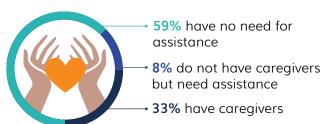
HEALTHCARE PROFESSIONALS

People with MS had 6.1 healthcare professionals on average taking care of their MS. 76% reported that their healthcare professionals are coordinating together.

The most involved professionals were neurologist, general practitioner, and nurse/ MS nurse*.



CAREGIVER PRESENCE AND ASSISTANCE



Of those caregivers, **76%** were a family, partner, or friend. **38%** were paid professionals*.





The caregivers supported people with MS for 12.1 hours per week on average. **67%** of respondents mentioned that the carer was of **great or good** help to them.

People living with SPMS reported having a caregiver (61%) while people with RRMS reported the most not having and not needing a caregiver (66%).

Satisfaction with management of symptoms

The most well managed symptoms were mobility impairment, bladder control problems, and muscle weakness.

The *least* well managed symptoms were **sexual problems/dysfunction**, **sleep disturbances** and **dizziness**.



Not adequately managed at all	Not managed enough		newhat naged	Well managed	Very well managed
Mobility impairment 💄	7% 7%	32%		46%	7%
Bladder control problems	12% 10%		29%	36%	13%
Muscle weakness	13% 129	%	30%	38%	6%
Spasticity/Muscle spasms	15% 1	1%	33%	35%	6%
Arm and hand problems	15% 1	2%	34%	32%	7%
Depression or mood changes	16%	14%	32%	29%	9%
Bowel control problems	15%	.4%	33%	30%	8%
Balance problems	17%	13%	32%	32%	6%
Anxiety	17%	14%	33%	309	6 7%
Pain	17%	15%	32%	29	% 7%
Vision problems	21%	15%	31%	28	% 6%
Tremors	22%	14%	32%	27	1 % 6%
Trouble swallowing	22%	13%	33%	2	7% 6%
Fatigue	17%	19%	32%	2	6% 6%
Sensory problems	21%	14%	34	% 2	16% 5%
Hearing problems	28%	15%	6 26	%	27% 4%
Cognitive impairment	20%	21%	30)%	24% 5%
Temperature intolerance	27%	13%	33		22% 5%
Speech difficulties	25%	14%	37	3%	21% 7%
Dizziness *	23%	15%		54%	22% 5%
Sleep disturbances (%	22%	20%		32%	23% 4%
Sexual problems/dysfunction 🌣	32%	2070	17%	28%	18% 6%

The promise of change

As the IMSS initiative brings together people with MS, researchers, policymakers, and healthcare providers, we hope to have a future where no one has to face their symptoms alone. A future where MS care isn't just about managing symptoms but empowering people to lead fulfilling lives.

The story of MS isn't just about the condition; it's about the people living with it. And for Emma, it's a story that continues, now with **the promise of a brighter tomorrow.**



Note: Percentages are rounded for simplicity and may not sum to 100% or match exactly.

*Participants were allowed to give more than one answer (multiple choice), hence the total can be more than 100%. *Gender: Non-binary: 0.2%

References: ¹Among respondents, 63.5% were MS society members, 16.6% were linked but not members, and 19.9% had no society affiliation. ²Measured by the PDDS: Patient-Determined Disease Steps, provided for use by the NARCOMS Registry: www.narcoms.org/pdds. NARCOMS is supported in part by the Consortium of Multiple Sclerosis Centres (CMSC) and the CMSC Foundation. ³Measured by EuroQOL Research Foundation: EQ-5D-5L. ⁴The tool used to measure the severity of symptoms is SymptoMScreen: https://www.symptomscreen.org, categorised into 5 groups: Not affected at all (0); Mild (1 and 2), Moderate (3), Severe (4 and 5), Total limitation (6). ⁵The 'Severity and Impact' chart is organized from the most to the least debilitating symptoms.

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