

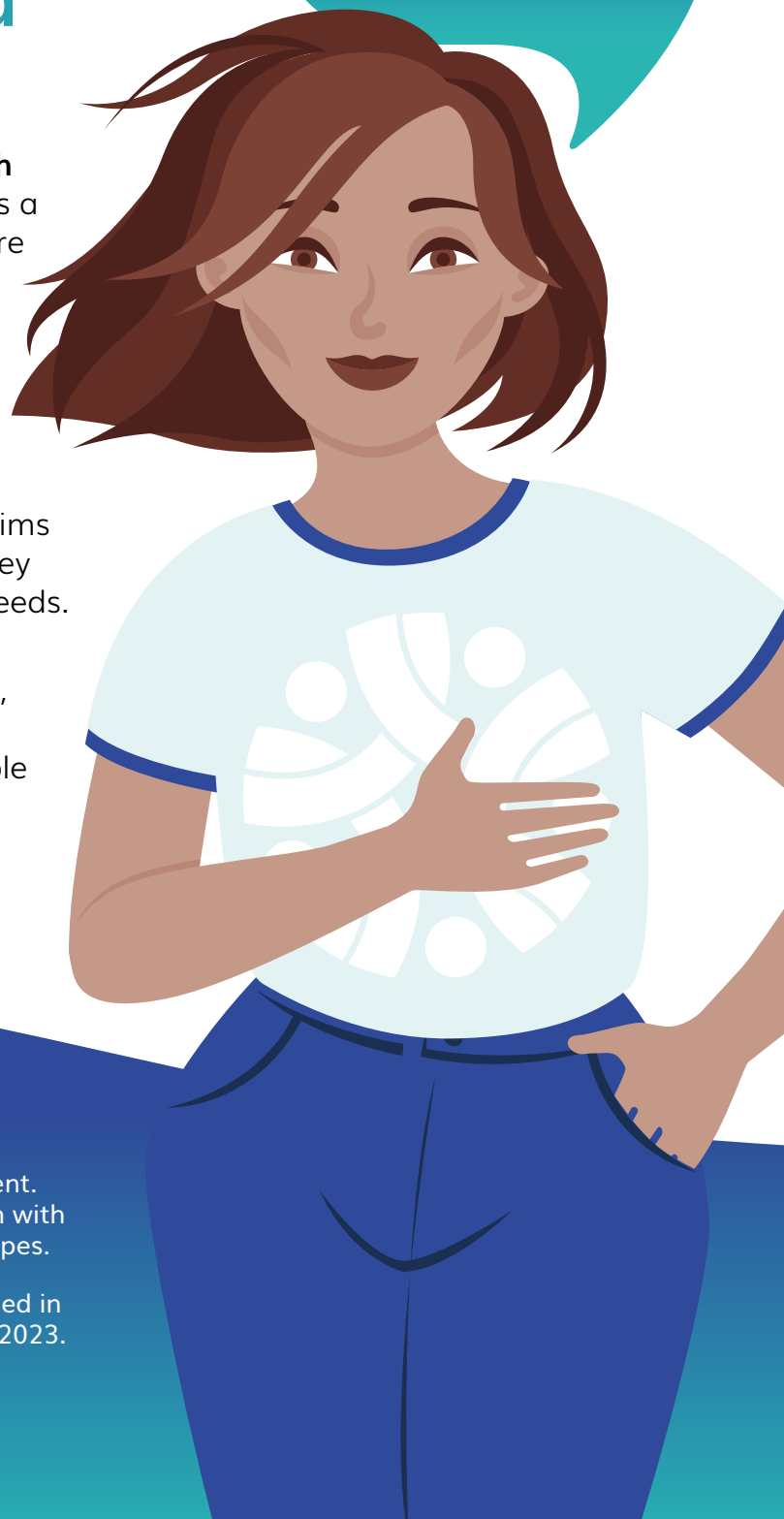
Impact of Multiple Sclerosis Symptoms (IMSS) in Slovenia

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.

Maja'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.



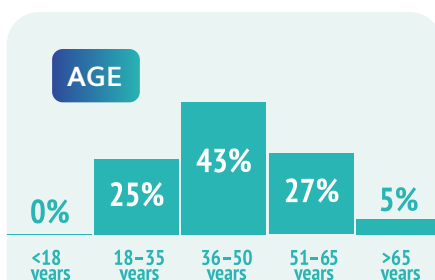
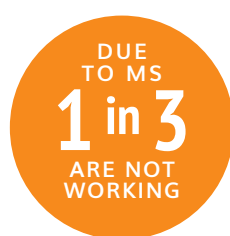
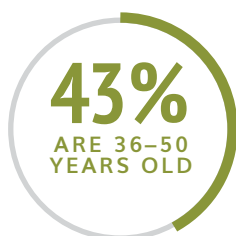
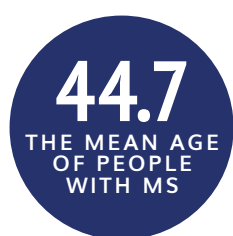
In Slovenia, 618¹ people with MS participated in the IMSS survey from May 5 to August 31, 2023.

A Life Changed by MS

Maja had always been full of energy — a pharmacist and a passionate runner in her free time. But at 29, 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 and a half years, Maja lived with uncertainty, her daily life becoming a patchwork of pain, confusion, and questions without answers.



Participant demographics

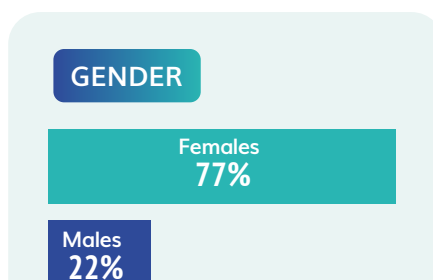


People between **18-35** reported low presence of all symptoms.

Individuals aged **36-50** experienced the lowest sleep disturbances.

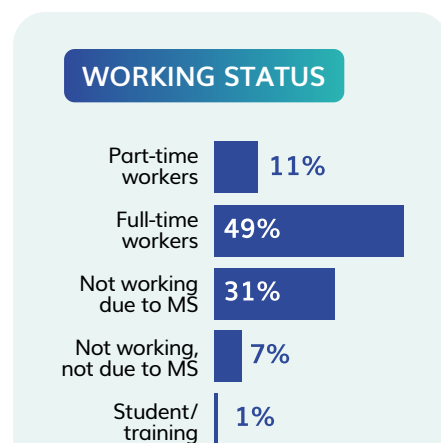
Between **51-65**, the lowest anxiety while all symptoms start to emerge significantly.

Over 65, most of the problems reported between 51 and 65 continue, with the highest for all symptom.



Females reported significantly fewer mobility impairment, sexual problems and tremors, but *more sensory problems, dizziness, vision problems, and anxiety* compared to males.

Males reported significantly fewer sensory problems, but *more mobility impairment, sexual problems and tremors* than females.



Part-time workers experienced the highest sensory problems and spasticity/muscle spasms.

Full-time workers reported significantly less symptoms.

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

People not working not due to MS reported more pain, mobility impairment and trouble swallowing.

Understanding MS Across Europe

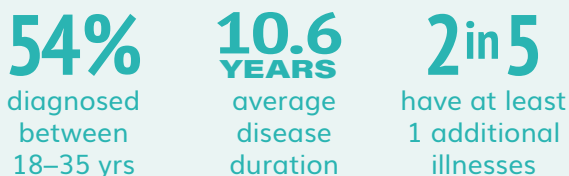
IMSS aims at uncovering the truths behind the symptoms, struggles, and stories of MS. How do people across Europe experience the condition? How do healthcare systems respond to their needs? And most importantly, where are they falling short?

For Maja, these questions resonate deeply. Her diagnosis eventually came at age 34, but the journey didn't end there. Her symptoms — fatigue, cold sensitivity, balance problems, and sensory problems — 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.

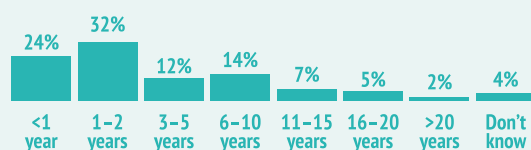
Maja's experience reflects a broader reality revealed through the IMSS survey. Thousands of respondents shared their stories, offering insight into the challenges of living with MS: delays in diagnosis, inconsistent care pathways, and limited support for symptom management. Despite these challenges,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

Clinical situation

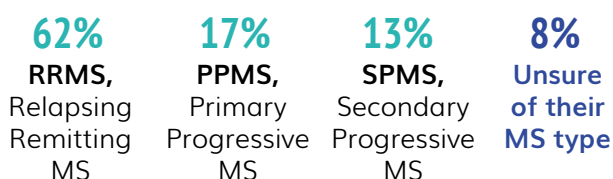
DIAGNOSIS AND SYMPTOM ONSET



Delay from symptom onset to diagnosis



TYPES OF MS



DISABILITY LEVELS

Overall, 14% of the respondents had mild disability while 39% had moderate disability and 21% had severe disability. People living with PPMS reported the most moderate (49%) disability and severe disability (46%) compared to RRMS while people with SPMS reported the most severe disability (71%)².

QUALITY OF LIFE

The majority of respondents had no or slight problems, while 11% were experiencing moderate or severe problems affecting their quality of life. The quality of life deteriorated more among people with PPMS (19%) and people with SPMS (34%)³.

USE OF DMDs

82% of respondents have used **Disease Modifying Drugs** (DMDs), with 64% currently using them. 52% reported less than a 1-year delay to start DMDs, while 10% experienced delays of 6 years or more. Among non-users, the main reasons were:

- 24% concerns about use
- 42% never being offered
- 12% physicians advising against them.

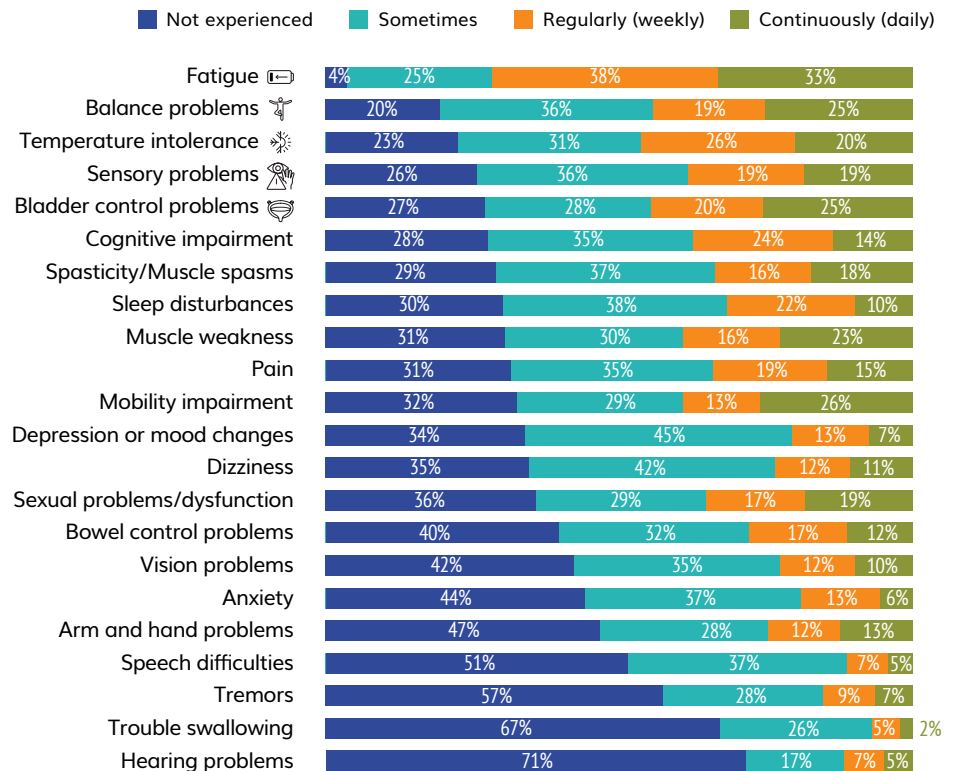


Symptoms

PRESENCE AND PREVALENCE

The symptoms reported the *most* were **fatigue, balance problems, heat or cold intolerance, sensory problems, and bladder control problems**.

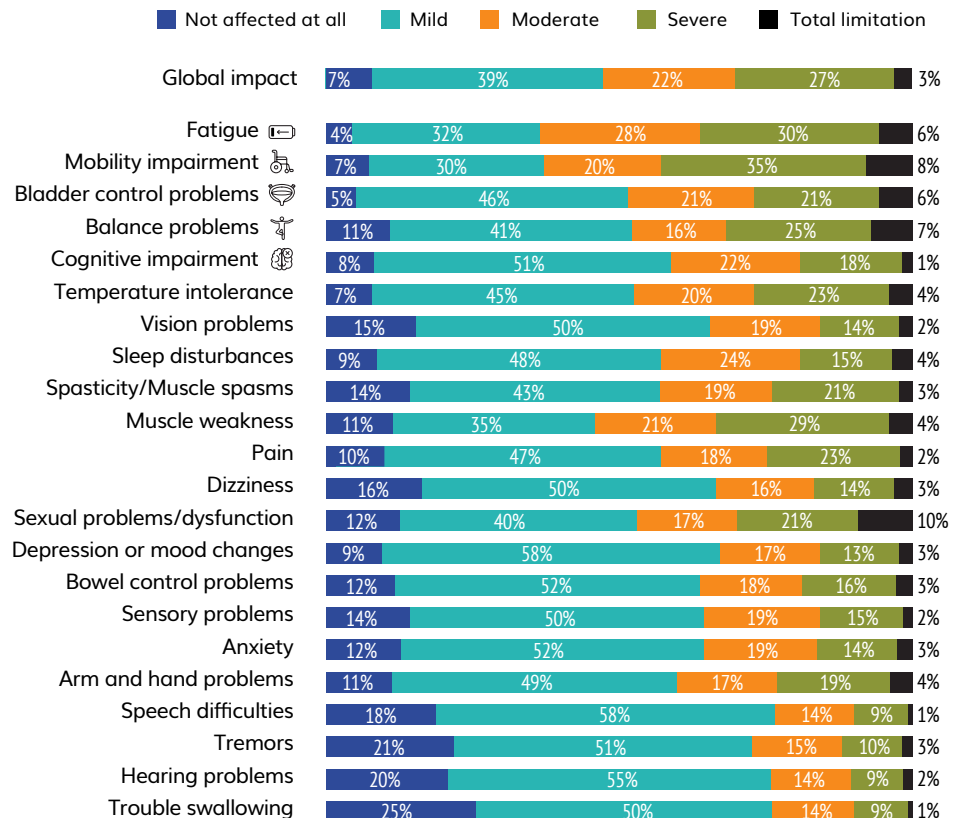
The symptoms *least* reported were **hearing problems, trouble swallowing, tremors, speech difficulties, and arms and hand problems**.



SEVERITY AND IMPACT

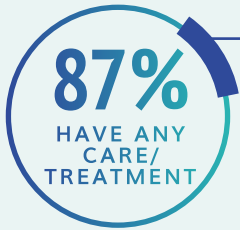
The symptoms that were affecting the daily lives of people with MS were **fatigue, bladder control problems, mobility impairment, heat or cold intolerance and cognitive impairment**⁴.

The top 3 most debilitating symptoms were **fatigue, mobility impairment, and bladder control problems**⁵.



Treatment and care

CARE FOR SYMPTOMS



13% don't use any care /treatment. The top reasons for not using a specific treatment were having no need, they cannot afford this treatment, or treatment was not offered to them.



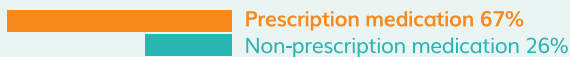
People with MS reported using 6.5 treatments or care on average for their symptoms.

The most used treatments were*: **prescription medication, physical activity, social support: friends and family, and personal life modifications.**

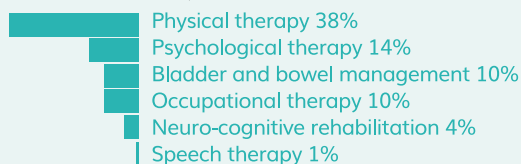
Lifestyle changes



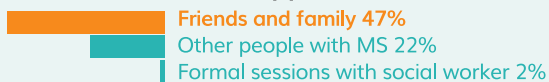
Medication for symptom management



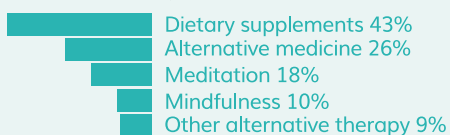
Therapy/treatments



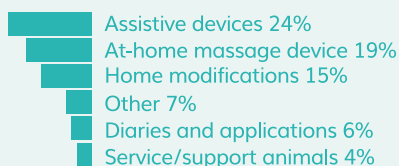
Social support



Complementary and alternative therapies



Other



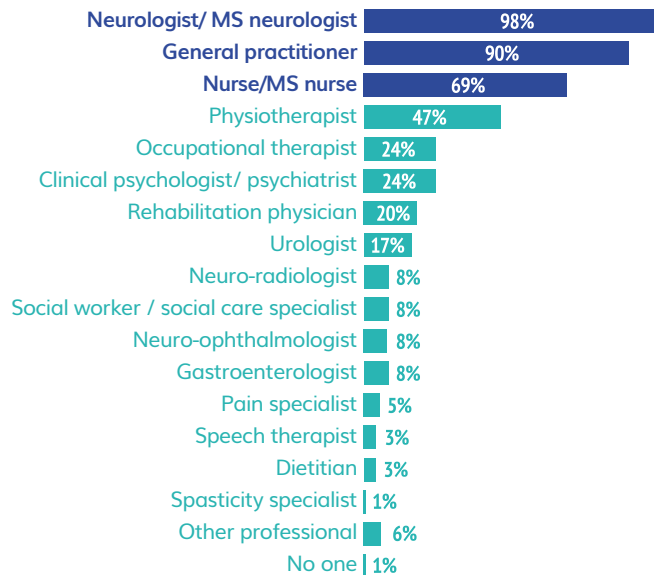
Surgery 2%

INVOLVEMENT OF PROFESSIONALS



People with MS had 4.4 healthcare professionals on average taking care of their MS. 67% reported that their healthcare professionals are coordinating together.

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



CAREGIVER PRESENCE AND ASSISTANCE



71% have no need for assistance

18% do not have caregivers but need assistance

10% have caregivers

Of those caregivers, **63%** were a family, partner, or friend. **49%** were paid professionals*.



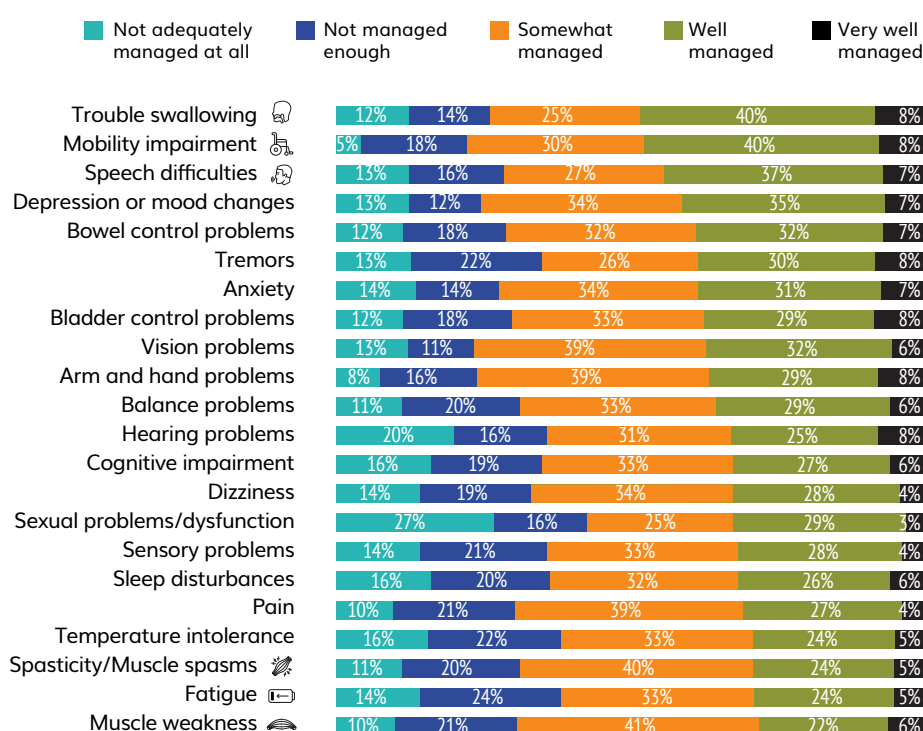
The caregivers supported people with MS for 53.5 hours per week on average. **94%** of respondents mentioned that the carer was of **great or good** help to them.

People living with SPMS reported having a caregiver (33%) or needing one (41%) while people with RRMS reported the most not having and not needing a caregiver (85%).

Satisfaction with management of symptoms

The *most* well managed symptoms were **trouble swallowing, mobility impairment, and speech difficulties**.

The *least* well managed symptoms were **muscle weakness, fatigue, and spasticity / muscle spasms**.



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 Maja, 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: 0.1%, prefer not to say: 0.4%

References: ¹Among respondents, 93.3% were MS society members, 3.3% were linked but not members, and 3.4% 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.

Acknowledgement: EMSP thanks people with MS and their caregivers across Europe for participating in this IMSS survey experience. EMSP thanks the Scientific Working Group which included MS experts and the national MS societies for their support. EMSP thanks the young people with MS who supported the development of the survey part of the Young People's Network, the MS International Federation, and GfK Spain (expert in Healthcare Market Research).

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