Appendix 1. Questionnaire used in this study and its rating considering the agreement, recommendation and applicability scales.

Questions/statements	Agree (%)	Recommend (%)	Medium/long term applicability (%)	Short term applicability (%)	Not applied in clinical practice, but useful (%)	Already applied in clinical practice (%)
	Fun	ctional assessm	ent			
1. In patients with clinical and radiological stability receiving disease modifying therapies, clinical monitoring:						
1.1. Is recommended every 3 months	18.2%	18.2%	6.4%	9.1%	45.5%	9.1%
1.2. Is recommended every 6 months	100%	100%	0	0	0	100%
1.3. Will be determined by the physician on a case-by-case basis	100%	90.9%	0	0	18.2%	81.8%
2. In patients with clinical and radiological instability receiving disease modifying therapies, clinical monitoring:						
2.1. Is recommended every 3 months	90.9%	90.9%	9.1%	0	36.4%	54.5%
2.2. Is recommended every 6 months	27.3%	36.4%	18.2%	27.3%	18.2%	36.4%
2.3. Will be determined by the physician on a case-by-case basis	100%	100%	0	0	27.3%	72.7%
3. The EDSS score is the best measure available in clinical practice to define progression	81.8%	90.9%	0	18.2%	0	81.8%
4. Progression can be defined:						
4.1. By a minimal value of 4 in the EDSS score, a pyramidal function system of ≥ 2 and confirmation of progression for a minimum of 3 months, an increase of 1 point in the EDSS score if the initial score was ≤ 5.5 or an increase of 0.5 points if the initial score was ≥ 6 .	63.6%	72.7%	0	45.5%	18.2%	36.4%
4.2. As an increase in confirmed disability (at 3, 6 or 12 months), measured by EDSS, regardless of the existence of relapses.	90.9%	90.9%	0	18.2%	18.2%	63.6%
5. If progression is suspected , the patient should be evaluated:						
5.1. Every 3 months	54.5%	54.5%	27.3%	18.2%	36.4%	18.2%

5.2. Every 6 months	54.5%	54.5%	18.2%	9.1%	18.2%	54.5%
5.3. Will be determined by the physician on a case-by-case basis	100%	100%	0	9.1%	18.2%	72.7%
6. A confirmed worsening of 2-points in any functional system (except the visual system), even without changes in EDSS, allows the suspicion of a progression diagnosis:						
6.1. Regardless of disease duration	54.5%	54.5%	27.3%	0	54.5%	18.2%
6.2. If disease duration < 10 years	63.6%	72.7%	18.2%	9.1%	45.5%	27.3%
6.3. If disease duration between 10 and 20 years	81.8%	72.7%	18.2%	9.1%	36.4%	36.4%
6.4. If disease duration > 20 years	63.6%	63.6%	27.3%	0	45.5%	27.3%
6.5. If the patient is <35 years old	72.7%	72.7%	18.2%	9.1%	36.4%	36.4%
6.6. If the patient is between 25 and 45 years old	72.7%	72.7%	18.2%	0	45.5%	36.4%
6.7. If the patient is > 45 years old	81.8%	81.8%	18.2%	9.1%	36.4%	36.4%
7. The physician should suspect of progression diagnosis when there is a confirmed 20% increase in:						
7.1. Only on the 25FTW	45.5%	45.5%	18.2%	36.4%	27.3%	18.2%
7.2. Only on the 9HPT	45.5%	45.5%	18.2%	36.4%	27.3%	18.2%
7.3. In 25FTW and in 9HPT	90.9%	90.9%	18.2%	18.2%	45.5%	18.2%
7.4. In EDSS Plus (25FTW, 9HPT and EDSS)	90.9%	90.9%	0	18.2%	45.5%	36.4%
8. If a patient experiences repeated falls, reflecting a clear loss of physical endurance, even without changes in the EDSS score or other evaluation tools, disability progression should be suspected , after excluding other causes.	81.8%	81.8%	18.2%	9.1%	36.4%	36.4%
9. In a patient capable of walking 500 meters or more, without help or rest, a confirmed reduction from 500 to 300 meters indicates that more accurate progression diagnostic tools should be used.	100%	100%	9.1%	18.2%	27.3%	45.5%
	100%	100%	9.1%	9.1%	18.2%	63.6%

10. Transition from walking independently to needing any kind of support or help to walk, indicates that more precise progression diagnosis tools should be used.						
11. Regardless of the variable used, the minimum time to confirm the diagnosis of disability progression not associated with relapses is:						
11.1. 3 months	45.5%	45.5%	18.2%	18.2%	45.5%	18.2%
11.2. 6 months	72.7%	72.7%	0	27.3%	36.4%	36.4%
11.3. 12 months	81.8%	90.9%	9.1%	0	27.3%	63.6%
11.4. 18 months	45.5%	45.5%	27.3%	9.1%	9.1%	54.5%
11.5. Will be determined by the physician on a case-by-case basis	45.5%	45.5%	18.2%	0	18.2%	63.6%
12. The progression diagnosis can be confirmed when there is a 20% increase in:						
12.1. Only on the 25FTW	36.4%	36.4%	27.3%	27.3%	18.2%	27.3%
12.2. Only on the 9HPT	36.4%	36.4%	27.3%	27.3%	18.2%	27.3%
12.3. In 25FTW and in 9HPT	81.8%	81.8%	27.3%	0	27.3%	45.5%
12.4. In EDSS Plus (25FTW, 9HPT and EDSS)	90.9%	90.9%	9.1%	9.1%	54.5%	27.3%
13. A confirmed worsening of 2-points in any functional system (except the visual system), even without changes in EDSS, allows the confirmation of the progression diagnosis:						
13.1. Regardless of disease duration	54.5%	54.5%	9.1%	18.2%	54.5%	18.2%
13.2. If disease duration < 10 years	63.6%	63.6%	18.2%	0	54.5%	27.3%
13.3. If disease duration between 10 and 20 years	81.8%	81.8%	18.2%	9.1%	45.5%	27.3%
13.4. If disease duration > 20 years	72.7%	72.7%	18.2%	0	63.6%	18.2%
13.5. If the patient is <35 years old	63.6%	63.6%	18.2%	9.1%	54.5%	18.2%
13.6. If the patient is between 25 and 45 years old	72.7%	72.7%	18.2%	0	63.6%	18.2%
13.7. If the patient is > 45 years old	81.8%	81.8%	18.2%	9.1%	45.5%	27.3%
14. If a patient experiences repeated falls, reflecting a clear loss of physical endurance, even without changes in the EDSS score or other	54.5%	54.5%	18.2%	0	45.5%	36.4%

evaluation tools, disability progression can be **confirmed**, after excluding other causes.

	Cogr	nitive assessme	nt			
15. Since the diagnosis of the disease, a patient should have at least one cognitive assessment:						
15.1. Semiannually	36.4%	36.4%	45.5%	9.1%	36.4%	9.1%
15.2. Annually	90.9%	90.9%	9.1%	27.3%	45.5%	18.2%
16. The cognitive assessment frequency may vary depending on the linical situation of the patient and on the recommendation of the neurologist.	81.8%	90.9%	0	18.2%	45.5%	36.4%
7. The cognitive assessment should include the largest number of omains possible, so it is recommended to apply at least one ntermediate duration battery of tests such as BRB-N.	81.8%	90.9%	18.2%	9.1%	54.5%	18.2%
8. If it is not possible to apply an intermediate duration battery of tests, a short battery such as BICAMS should be applied.	100%	100%	18.2%	18.2%	45.5%	18.2%
9. To obtain a reliable cognitive assessment using a battery of tests, such as BICAMS, this battery needs to be applied by a neuropsychologist.	63.6%	63.6%	27.3%	27.3%	27.3%	18.2%
20. If it is not possible to apply a short duration battery of tests, a test such as the SDMT should be applied.	100%	100%	0	0	45.5%	54.5%
21. If, after applying a short or intermediate battery of tests, progression of cognitive decline is suspected, a comprehensive neuropsychological study by a neuropsychologist is recommended.	90.9%	90.9%	0	9.1%	45.5%	45.5%
22. A confirmed worsening of 20% in at least two subtests of the BRB- N or BICAMS battery of tests, after excluding other factors, allows the suspicion of progression diagnosis.	90.9%	81.8%	27.3%	9.1%	63.6%	0
23. A confirmed reduction of 20% in SDMT allows the suspicion of progression diagnosis.	81.8%	81.8%	9.1%	18.2%	45.5%	27.3%

24. An isolated worsening of cognitive function allows the suspicion of progression diagnosis.	72.7%	72.7%	27.3%	18.2%	36.4%	18.2%
25. An isolated worsening of cognitive function is not enough to diagnose progression; it is also necessary that other functional systems worsen.	45.5%	54.5%	27.3%	27.3%	18.2%	27.3%
26. A confirmed worsening of 20% in at least two subtests of the BRB- N or BICAMS battery of tests, after excluding other factors, is enough to confirm the progression diagnosis.	81.8%	81.8%	9.1%	45.5%	27.3%	18.2%
27. A confirmed reduction of 20% in SDMT is enough to confirm the progression diagnosis.	36.4%	36.4%	9.1%	36.4%	27.3%	27.3%
	Imagio	logical assessm	ent			
28. A change in the degree of brain atrophy, that is maintained and/or confirmed over time, should lead to the suspicion of disease progression.	90.9%	90.9%	27.3%	0	63.6%	9.1%
29. A change in the degree of spinal cord atrophy, that is maintained and/or confirmed over time, should lead to the suspicion of disease progression.	90.9%	90.9%	27.3%	9.1%	54.5%	9.1%
30. The presence of diffuse hyperintensity in the brain white matter or confluence of lesions that are maintained and/or confirmed over time, should lead to the suspicion of disease progression.	72.7%	72.7%	27.3%	18.2%	27.3%	27.3%
		Biomarkers				
31. The presence of increased levels of serum neurofilament light chain (sNfL) can be an important biomarker to detect disease progression.	90.9%	90.9%	27.3%	27.3%	45.5%	0
32. Changes in OCT measurements could be an important biomarker to detect disease progression.	90.9%	81.8%	36.4%	18.2%	36.4%	9.1%
33. Digital devices, could be relevant tools for the early identification of disease progression.	90.9%	90.9%	27.3%	36.4%	36.4%	0
	Addit	ional assessmer	its			

34. Since the diagnosis of the disease, patients must complete, at least once per year, a scale/questionnaire that assesses:

34.1. Only fatigue	18.2%	18.2%	18.2%	0	63.6%	18.2%
34.2. Only depression	18.2%	18.2%	18.2%	0	54.5%	27.3%
34.3. Only quality of life	36.4%	36.4%	27.3%	9.1%	54.5%	9.1%
34.4. Depression and fatigue	54.5%	45.5%	27.3%	0	63.6%	9.1%
34.5. Depression, fatigue and quality of life	100%	100%	9.1%	27.3%	54.5%	9.1%
35. Since the diagnosis of the disease, in case of alterations in the pyramidal functional system, patients must complete a scale that assesses spasticity, at least once per year.	90.9%	90.9%	9.1%	9.1%	63.6%	18.2%
36. Changes in scales that measure fatigue and depression hardly confirm the diagnosis of progression	100%	72.7%	9.1%	9.1%	45.5%	36.4%
37. Changes in questionnaires that measure quality of life should indicate that more accurate diagnostic tools for progression should be used.	81.8%	81.8%	27.3%	18.2%	54.5%	0
38. A worsening of spasticity should indicate that more accurate diagnostic tools for progression should be used.	90.9%	90.9%	9.1%	9.1%	63.6%	18.2%
39. The patients should be asked proactively and in a structured manner if they are experiencing any deterioration or changes in their symptoms that may be considered suspicion of disease progression.	90.9%	90.9%	9.1%	9.1%	45.5%	36.4%

25FTW: 25-foot walk test; 9HPT: 9-Hole Peg Test; BICAMS: Brief International Cognitive Assessment for Multiple Sclerosis; BRB-N: Brief Repeatable Battery of Neuropsychological tests; EDSS: Extended Disability Status Scale; OCT: Optical Coherence Tomography; SDMT: Symbol Digit Modalities Test; sNfL: serum neurofilament light chain.