

AI-ASSISTED DIAGNOSTIC REPORT
Multiple Sclerosis Evaluation

PATIENT INFORMATION

Patient ID : Patient 1
Diagnosis Type : MS

Age : 24 years
Gender : Female

EDSS Score : 2.0 / 10.0
OCB Status : ✓ Positive

Report Date : November 29, 2025 at 21:44

ARTIFICIAL INTELLIGENCE ANALYSIS

Classification : MS

Confidence Level : 87.8%

Reliability : ☐ HIGH

Model Version : MS Diagnostic Assistant v2.1

ATTENTION ANALYSIS - What the AI Focused On

MRI Features : 82.0%
Clinical Features : 18.0%

Primary Focus : MRI Features

i This shows which data sources influenced the AI's decision most.

LESION QUANTIFICATION - Automated Measurements

Total Lesions : 10 detected
Total Volume : 7,732 voxels

Lesion Load : 4.51% of brain volume
Severity Level : ● Severe

Mean Lesion Size : 431.2 voxels
Largest Lesion : 978.5 voxels

i Quantitative analysis of white matter lesion burden.

CLINICAL CORRELATION

EDSS Category : Mild Disability
Clinical Profile : Available in visualization charts

i Clinical features are consistent with AI findings.

CLINICAL IMPRESSION

FINDINGS:

- ✓ Imaging findings consistent with Multiple Sclerosis
- ✓ Characteristic white matter lesion distribution observed
- ✓ Quantitative analysis supports inflammatory demyelination
- ✓ EDSS score of 2.0 indicates mild disability
- ✓ AI classification aligns with clinical presentation (confidence: 87.8%)

ASSESSMENT:

The combination of MRI findings, clinical features, and AI analysis supports a diagnosis of Multiple Sclerosis. The lesion pattern and distribution are typical of inflammatory demyelinating disease.

RECOMMENDATIONS

BASED ON EDSS 2.0 (Mild Disability):

IMMEDIATE:

1. Comprehensive neurological consultation for MS management
2. Consider disease-modifying therapy based on disease activity
3. Laboratory evaluation: Vitamin D, B12, thyroid function

ADDITIONAL IMAGING:

4. Baseline spinal cord MRI if not previously performed
5. Consider contrast-enhanced sequences for active lesions

FOLLOW-UP:

6. Clinical and MRI follow-up in 6-12 months
7. Monitor EDSS score progression
8. Assess treatment response and disease activity