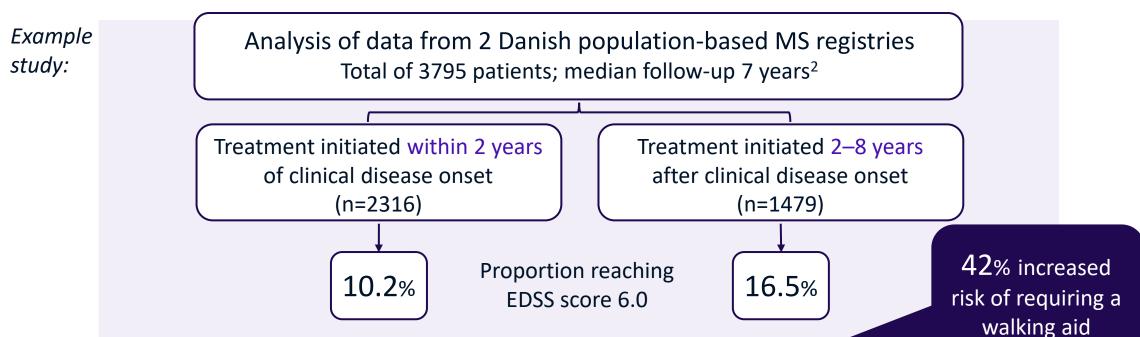
Evidence Supports Early Intervention with Disease-Modifying Therapy (DMT)



Compared with earlier initiation, delayed initiation of treatment is associated with poorer response to DMT and accumulation of more neurological disability¹



Hazard ratio (95% CI): 1.42 (1.18–1.70); *P*<0.001

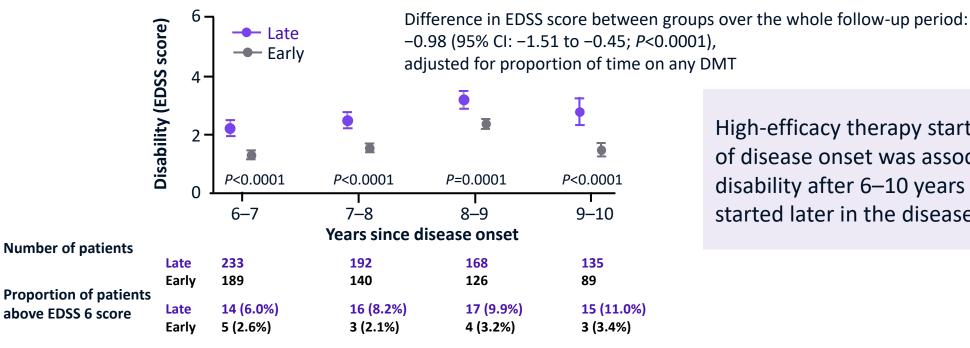
EDSS=Expanded Disability Status.

1. Noyes K, Weinstock-Guttman B. Am J Manag Care. 2013;19:s321-s331; 2. Chalmer TA et al. Eur J Neurol. 2018;25:1262-e110.

Effect of Timing of High-Efficacy DMT on Disability

Matched analysis of patients in the MSBase and Swedish MS registries

- 213 initiated high-efficacy DMT^a 0–2 years (early) after clinical disease onset (mean EDSS score: 2.2)
- 253 initiated high-efficacy DMT^a 4–6 years (late) after clinical disease onset (mean EDSS score: 2.1)
- Median follow-up time: 7.8 years

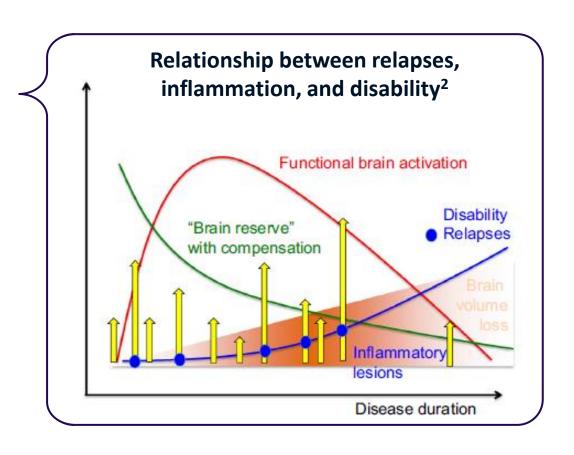


High-efficacy therapy started within 2 years of disease onset was associated with less disability after 6–10 years than when started later in the disease course

[a] High-efficacy DMTs included alemtuzumab, mitoxantrone, natalizumab, ocrelizumab, and rituximab; EDSS, Expanded Disability Status Scale. He A et al. Lancet Neurol. 2020;19:307-316.

DMT Counseling for Newly Diagnosed MS Patients

- Explain rationale for early treatment^{1,2}
 - MS causes irreversible damage to the CNS
 - Over time, compensatory mechanisms can become exhausted
 - Goal is to preserve brain tissue and maximize lifelong brain health
- Assess readiness for DMT
- Engage in open and ongoing dialogue
- Manage expectations
 - Not a cure; not to improve symptoms
 - Time for effect of therapy after initiation



CNS, central nervous system.

1. Giovannoni G et al. Mult Scler Relat Disord. 2016;9 Suppl 1:S5-S48; 2. Ziemssen T et al. J Neurol. 2016;263:1053-1065; 3. Rae-Grant A et al. Neurology. 2018;90:777-788. Figure reproduced from Ziemssen T et al. J Neurol. 2016;263:1053-1065 (CC BY 4.0).