

EDUCATION GRAM™
Updated Guidelines: Disease Modifying Therapies In Multiple Sclerosis
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Definitions & Symptoms

Multiple Sclerosis (MS) is a recurrent, inflammatory disorder of the CNS that is chronic in nature that attacks the myelin sheaths surrounding nerve fibers, oligodendrocytes, as well as nerve cells and their respective axons. Common symptomology of the disease includes: sensory disturbances of the limbs, dysfunction of the optic nerve, bladder/bowel dysfunction, pyramidal tract dysfunction, diplopia, and ataxia.

Clinical Course	Description	Treatment Options
Relapsing-Remitting MS (RRMS)	<ul style="list-style-type: none"> - Self-limited, acute attacks of neurological dysfunction that evolve over days to weeks - Recovery of function (not always complete) - Neurologic and symptomatic stability between attacks 	<ul style="list-style-type: none"> - Glucocorticoids (acute attacks): Methylprednisolone 500-100 mg IV QD, 3-7 days - Interferon beta (Betaseron®) 250 mcg SC QOD - Glatiramer acetate (Copaxone®) 20 mg SC QD
Secondary Progressive MS (SPMS)	<ul style="list-style-type: none"> - Begins as RRMS - Acute, attack rate is reduced - Steady deterioration of function (not related to acute attacks) 	<ul style="list-style-type: none"> - Glucocorticoids (acute attacks): Methylprednisolone 500-100 mg IV QD, 3-7 days - Cladribine (Leustatin®) 0.07mg/kg/day x 5 days Q4wks - Interferon beta (Betaseron®) 250 mcg SC QOD -
Primary Progressive MS (PPMS)	<ul style="list-style-type: none"> - Steady deterioration of function from the beginning - No acute attacks 	<ul style="list-style-type: none"> - Cladribine (Leustatin®) 0.07mg/kg/day x 5 days Q4wks
Progressive-Relapsing MS (PRMS)	<ul style="list-style-type: none"> - Begins with a progressive nature - Experience occasional, acute attacks 	<ul style="list-style-type: none"> - Glucocorticoids (acute attacks): Methylprednisolone 500-100 mg IV QD, 3-7 days - Interferon beta (Betaseron®) 250 mcg SC QOD

Drug Pricing (based on AWP – Actual Wholesale Price)

Methylprednisolone	\$10 (1 mL)
Interferon beta (Betaseron®)	\$460 (0.3 mg)
Glatiramer acetate (Copaxone®)	\$245 (20 mg/mL), \$500 (40 mg/mL)
Cladribine (Leustatin®)	\$420 (1 mg/mL)

Source:
Goodin, D. S. "To: Disease Modifying Therapies in Multiple Sclerosis." Neurology 59.3 (2002): 480. (Current guideline. Reaffirmed October 17, 2003 and July 19, 2008.)