# FDA-Approved Infusion Disease-Modifying Therapies for MS and the Recommended Laboratory Courses for Pretreatment Testing and Treatment Monitoring

Detailed prescribing information can be found on the FDA’s website at: [accessdata.fda.gov/scripts/cder/daf/index.cfm](http://accessdata.fda.gov/scripts/cder/daf/index.cfm).

<table>
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<tr>
<th>Medication</th>
<th>Pretreatment Testing</th>
<th>Recommended Laboratory Monitoring</th>
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| Lemtrada (alemtuzumab) | CBC with differential  
IgG antibodies to VZVa  
Serum creatinine  
Serum transaminases  
Total bilirubin  
TSH  
Tuberculin skin test OR blood test for mycobacterium  
Urinalysis with urine cell counts  
Urine protein-to-creatinine ratio | CBC with differential (monthly)  
HPV screening (annually)  
Serum creatinine (monthly)  
Serum transaminases (periodically)  
Total bilirubin (periodically)  
TSH (every 3 mos)  
Urinalysis with urine cell counts (monthly)  
Urine protein-to-creatinine ratio |
| Novantrone (mitoxantrone) | CBC  
hCG (if pregnancy is possible)  
Liver function tests | CBC (before each dose)  
hCG before each dose (if pregnancy is possible)  
Liver function tests (before each dose) |
| Ocrevus (ocrelizumab) | HBsAg  
HBV core antibodies (total)  
Quantitative serum immunoglobins | Quantitative serum immunoglobins (before each dose) |
| Tysabri (natalizumab) | JCV testing (conducted via TOUCHb)  
CMP | Liver function tests (every 6 mos)  
Platelet count (if clinically indicated)  
Neutralizing antibodies (if clinically indicated) |

*Testing for VZV is not required in cases with a professionally confirmed history of chickenpox or documentation of a full course of VZV vaccination.

*bMore information about the TOUCH program can be found at [www.touchprogram.com](http://www.touchprogram.com).

CMP, comprehensive metabolic panel; FDA, U.S. Food and Drug Administration; HBsAg, hepatitis B surface antigen; HBV, hepatitis B virus; hCG, human chorionic gonadotropin; HPV, human papillomavirus; IgG, immunoglobin G; JCV, JC virus; MS, multiple sclerosis; TOUCH, TYSABRI Outreach: Unified Commitment to Health; TSH, thyroid stimulating hormone; VZV, varicella-zoster virus

Source: U.S. Department of Health and Human Services, U.S. Food and Drug Administration. Drugs@FDA: FDA-approved drugs. [Updated: Mar 2018; Accessed: Dec 2022]