Pharmacy Prior Authorization
Multiple Sclerosis – Clinical Guideline

Copaxone® (glatiramer acetate)  Extavia® (interferon beta-1b)  Zinbryta™ (daclizumab)
Betaseron® (interferon beta-1b)  Plegridy® (peginterferon beta-1a)  Rebif/Rebif® (interferon beta-1a)
Avonex® (interferon beta-1a)  Aubagio® (teriflunomide)  Gilenya® (fingolimod)
Tecfidera® (dimethyl fumarate)  Tysabri® (natalizumab)  Lemtrada® (alemtuzumab)
Mitoxantrone

Preferred Product:
Copaxone, Rebif, Avonex, Betaseron, Aubagio, Tecfidera, Gilenya and Extavia are the preferred MS agents. Non-preferred products will be considered if patient has had an inadequate response, intolerable side effects, or a contraindication to 2 formulary agents, one of which must be an interferon or glatiramer acetate.

General Authorization Criteria for ALL Agents:
- Patient is 18 years of age or older (except for Lemtrada)
- Medication is prescribed by a Neurologist
- Other disease modifying MS therapies (not including Ampyra) will be, or have been discontinued

Additional Criteria For Specific Medications:
- **INJECTABLE Agents**
  - **Copaxone** (glatiramer acetate), **Betaseron** (Interferon-beta1b), **Avonex** (interferon-beta1a)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis OR
    - Patient has Clinically Isolated Syndrome suggestive of MS (e.g., persons who have experienced a first clinical episode and have magnetic resonance imaging (MRI) features consistent with MS)
  - **Rebif/Rebif®** (interferon-beta1a)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
  - **Plegridy** (peg-interferon-beta1a) and **Zinbryta** (daclizumab)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
    - Patient has had an inadequate response, intolerable side effects, or a contraindication to 2 formulary agents, one of which must be an interferon or glatiramer acetate
  - **Extavia** (Interferon-beta1b)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis OR
    - Patient has Clinically Isolated Syndrome suggestive of MS (e.g., persons who have experienced a first clinical episode and have magnetic resonance imaging (MRI) features consistent with MS)
- **ORAL Agents**
  - **Aubagio** (teriflunomide)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
    - All of the following labs have been completed within the last 6 months
      - CBC
      - LFT’s and bilirubin levels
      - Negative pregnancy if female
      - Tuberculin skin test
  - **Gilenya** (fingolimod)
    - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
    - All of the following labs have been completed within the last 6 months

Last Update: 10/2016; Effective 8/1/2017
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- CBC
- LFT’s and bilirubin levels
- Negative pregnancy if female
- EKG evaluation [i.e., QTc ≥500 msec, Mobitz type II (2nd or 3rd degree AV block)]
- Ophthalmic examination
  - Patient has documented history of chicken pox OR has had the varicella zoster vaccination OR has evidence of immunity (positive antibodies)
  - There is no history of MI, unstable angina, stroke, or TIA within the past 6 months
- **Teccidera** (dimethyl fumarate)
  - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
  - CBC was completed within the past 6 months

**INFUSIONS**
- **Lemtrada** (alemtuzumab)
  - Patient is 17 years of age and older
  - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
  - Will not exceed 5 days of treatment the first year and 3 days of treatment the 2nd year
  - Patient is not infected with HIV
  - Patient has had an inadequate response, intolerable side effects, or a contraindication to 2 formulary agents, one of which must be an interferon or glatiramer acetate
- **Tysabri** (natalizumab)
  - Patient has a diagnosis of Relapsing Remitting Multiple Sclerosis
  - Anti-JCV antibody test (ELISA) has been completed [those with positive anti-JCV antibody have a higher risk for developing progressive multifocal leukoencephalopathy (PML)].
  - Patient has had an inadequate response, intolerable side effects, or a contraindication to 2 formulary agents, one of which must be an interferon or glatiramer acetate
- **Mitoxantrone**
  - Patient has ONE of the following diagnoses:
    - Secondary (chronic) progressive (SPMS)
    - Progressive relapsing (PRMS)
    - Worsening relapsing-remitting multiple sclerosis to reduce neurologic disability and/or frequency of clinical relapse
  - Cumulative lifetime dose is less than 140 mg/m²
  - Patient has had an inadequate response, intolerable side effects, or a contraindication to 2 formulary agents, one of which must be an interferon or glatiramer acetate
  - All of the following labs were completed within the last 6 months:
    - LVEF (left ventricular ejection fraction) > 50% (not below the lower limit of normal)
    - ANC > 1500 cells/mm³

**Initial Approval Duration:**
All injections: Indefinite
All orals: 6 months
Tysabri and mitoxantrone: 3 months
Lemtrada: 12 months (2 years maximum allowed)
Renewals:
Requires documentation and lab results to support response to treatment (i.e., LVEF, CBC, ANC, ECG, etc.)
All orals: Indefinite
Lemtrada: 12 months (2 year maximum allowed)
Mitoxantrone: 3 months
Tysabri: 6 months

Additional information:
* Dosing Table serves as a guidance and not always updated. Please confirm details in Clinical Pharmacology or the PI.

<table>
<thead>
<tr>
<th>MS Agent</th>
<th>Max Dose</th>
<th>Strength</th>
<th>Frequency and Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aubagio</td>
<td>14 mg/day</td>
<td>7mg; 14mg</td>
<td>Daily: Up to 30 tablets in 30 days</td>
</tr>
<tr>
<td>Gilenya</td>
<td>0.5 mg/day</td>
<td>0.5mg</td>
<td>Daily: Up to 30 capsules in 30 days</td>
</tr>
<tr>
<td>Tecfidera</td>
<td>480 mg/day</td>
<td>120 mg</td>
<td>Up to 14 delayed release capsules or 1 starter pack in 30 days (for taper)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>240 mg</td>
<td>Up to 60 delayed release capsules in 30 days</td>
</tr>
<tr>
<td>Avonex</td>
<td>30mcg/week</td>
<td>30 mcg/0.5ml</td>
<td>Once weekly (IM): up to 30 mcg</td>
</tr>
<tr>
<td>Betaseron</td>
<td>250 mcg/QOD</td>
<td>0.3mg</td>
<td>Every other day (SQ): 250 mcg</td>
</tr>
<tr>
<td>Copaxone/Glatopa</td>
<td>20mg/day</td>
<td>20-40mg/ml</td>
<td>Daily (SQ): 20 mg 3x week (SQ): 40 mg</td>
</tr>
<tr>
<td>Extavia</td>
<td>250 mcg/QOD</td>
<td>0.3mg</td>
<td>Every other day (SQ): 250mcg</td>
</tr>
<tr>
<td>Plegridy</td>
<td>125mcg/q14 days</td>
<td>125 mcg/0.5ml</td>
<td>Every 14 days (SQ): 125 mcg</td>
</tr>
<tr>
<td>Rebif</td>
<td>44 mcg/q48 hrs</td>
<td>22mcg-44mcg/0.5ml</td>
<td>Three times a week (SQ):22mcg-44 mcg.</td>
</tr>
<tr>
<td>Lemtrada</td>
<td>12mg/day x 5 days</td>
<td>12mg/1.2ml</td>
<td>(IV) Year 1: 5 days of 60mg Year 2: 3 days of 36mg</td>
</tr>
<tr>
<td>Tysabri</td>
<td>300mg/q 4 weeks</td>
<td>See CP</td>
<td>Every four weeks by (IV)- 300 mg.</td>
</tr>
<tr>
<td>Mitoxantrone</td>
<td>Lifetime cumulative dose limit of approximately 8–12 doses over 2–3 years (140 mg/m2)</td>
<td>12 mg/m²</td>
<td>Every 3 months (IV):12 mg/m²</td>
</tr>
<tr>
<td>Zinbryta</td>
<td>150mg/month</td>
<td>150mg/ml</td>
<td>monthly (SQ) inj 150mg</td>
</tr>
</tbody>
</table>

Forms of MS:

<table>
<thead>
<tr>
<th>Form</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRMS</td>
<td>the most common disease course — is characterized by clearly defined attacks of worsening neurologic function. These attacks — also called relapses, flare-ups or exacerbations — are followed by partial or complete recovery periods (remissions), during which symptoms improve partially or completely and there is no apparent progression of disease. Approximately 85 percent of people with MS are initially diagnosed with relapsing-remitting MS.</td>
</tr>
<tr>
<td>SPMS</td>
<td>The name for this course comes from the fact that it follows after the relapsing-remitting course. Most people who are initially diagnosed with RRMS will eventually transition to SPMS, which means that the disease will begin to progress more steadily (although not necessarily more quickly), with or without relapses.</td>
</tr>
<tr>
<td>PPMS</td>
<td>PPMS is characterized by steadily worsening neurologic function from the beginning. Although the rate of progression may vary over time with occasional plateaus and temporary, minor improvements, there are no distinct relapses or remissions. About 10 percent of people with MS are diagnosed with PPMS.</td>
</tr>
<tr>
<td>PRMS</td>
<td>the least common of the four disease courses — is characterized by steadily progressing disease from the beginning and occasional exacerbations along the way. People with this form of MS may or may not experience some recovery</td>
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</tbody>
</table>
following these attacks; the disease continues to progress without remissions.

References:


