

1500 Owens Street, Suite 320  
 San Francisco, CA 94158  
 Tel: (415) 353-2069  
 Fax: (415) 353-2633

Steven Merrill, PharmD, MSCS

**Cladribine  
 (Mavenclad®)**

**Patient Information**

Updated: 10.2019

USED FOR	<ul style="list-style-type: none"> <li>Relapsing and active secondary progressive forms of multiple sclerosis (MS).</li> <li>Cladribine will not cure MS or treat MS symptoms. It may reduce risk of flare-ups and slow the development of disability.</li> </ul>
HOW IT WORKS	<ul style="list-style-type: none"> <li>Cladribine works by reducing the immune system's white blood cells, primarily B and T cells, so they don't travel to the brain or spinal column and cause injury to the central nervous system.</li> </ul>
BEFORE STARTING CLADRIBINE	<ul style="list-style-type: none"> <li>You will need a complete blood count with lymphocyte count (B cell &amp; T cell levels), kidney &amp; liver function tests, testing for viral hepatitis, HIV and tuberculosis.</li> <li>Those of child-bearing potential should have a negative pregnancy test prior to starting cladribine.</li> <li>You will need blood tests to ensure that you have immunity to chickenpox. If you don't have immunity to chickenpox, it is advised that you get the Varicella (chickenpox) vaccine at least 4 weeks before starting fingolimod.</li> <li>Those over 50 should consider the shingles vaccine (Shingrix®) if they have a history of chickenpox or as recommended by your provider.</li> <li>Tell your doctor about any personal or family history of cancer.</li> </ul>
DOSE	<ul style="list-style-type: none"> <li>Your <u>dose is individualized based on your weight</u> and divided between 4 treatment courses given over a ~1 year period.</li> <li>Your total dose over ~1 year (in milligrams) = 3.5 x (Your weight in kilograms).</li> <li>This total dose is evenly divided over 4 courses.</li> </ul>



\*1 OR 2 PILLS A DAY DEPENDING ON WEIGHT

DOSING SCHEDULE

Number of 10 mg tablets per cycle

WEIGHT RANGE, kg (~lb)	FIRST CYCLE (MONTH 1)						SECOND CYCLE (MONTH 2)					
	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	TOTAL # OF TABLETS IN FIRST CYCLE	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	TOTAL # OF TABLETS IN SECOND CYCLE
40 <sup>†</sup> to <50 (88 <sup>†</sup> to <110 lb)	●	●	●	●	—	4 (40 mg)	●	●	●	●	—	4 (40 mg)
50 to <60 (110 to <132 lb)	●	●	●	●	●	5 (50 mg)	●	●	●	●	●	5 (50 mg)
60 to <70 (132 to <154 lb)	●●	●	●	●	●	6 (60 mg)	●●	●	●	●	●	6 (60 mg)
70 to <80 (154 to <176 lb)	●●	●●	●	●	●	7 (70 mg)	●●	●●	●	●	●	7 (70 mg)
80 to <90 (176 to <198 lb)	●●	●●	●●	●	●	8 (80 mg)	●●	●●	●	●	●	7 (70 mg)
90 to <100 (198 to <220 lb)	●●	●●	●●	●●	●	9 (90 mg)	●●	●●	●●	●	●	8 (80 mg)
100 to <110 (220 to <242 lb)	●●	●●	●●	●●	●●	10 (100 mg)	●●	●●	●●	●●	●	9 (90 mg)
≥110 (≥242 lb)	●●	●●	●●	●●	●●	10 (100 mg)	●●	●●	●●	●●	●●	10 (100 mg)

○ = 1 tablet  
 ○○ = 2 tablets

<sup>†</sup>The use of MAVENCLAD in patients weighing <40 kg (<88 lb) has not been investigated. Weight ranges in pounds are calculated from kilogram values and have been rounded to the nearest whole number.

- This is repeated in one year if your labs show appropriate recovery of your immune system.
- No treatment is recommended for the next 3 years. Talk to your doctor if you develop new clinical symptoms at any time during treatment.

HOW IT IS GIVEN	<ul style="list-style-type: none"> <li>• Take orally daily for 4 or 5 days on week 1 and week 5. Repeat same treatment course 1 year later.</li> <li>• May take with or without food.</li> <li>• Separate from all other medications by 3 hours.</li> </ul>
WHAT HAPPENS IF YOU MISS DOSES?	<ul style="list-style-type: none"> <li>• If you miss any doses, simply add an additional day(s) onto your treatment course.</li> <li>• Do not take a double dose to make up for a missed dose.</li> </ul>
HOW IT IS SUPPLIED	<ul style="list-style-type: none"> <li>• Cladribine 10 mg tablets</li> </ul> 

This information is for educational purposes only and is not intended to replace the advice of your doctor or health care provider. We encourage you to discuss with your doctor any questions or concerns you may have.

STORAGE & HANDLING	<ul style="list-style-type: none"> <li>• Cladribine may be kept at room temperature. Keep the medication away from direct sunlight, extreme heat, or cold.</li> <li>• Cladribine is a cytotoxic drug. Please use care when handling tablets, limit direct skin contact, and wash hands well before and after use.</li> </ul>
PREGNANCY WARNINGS	<ul style="list-style-type: none"> <li>• If you are a woman and able to become pregnant: You should <u>use effective birth control during your cladribine treatment and for 6 months after your last dose.</u></li> <li>• If you are a man: You and your female partner should <u>use effective birth control during your cladribine treatment and for 6 months after your last dose.</u></li> </ul>
COMMON SIDE EFFECTS	<ul style="list-style-type: none"> <li>• Upper respiratory tract infection</li> <li>• Headache</li> <li>• Low white blood cells</li> <li>• Nausea</li> </ul>
RARE BUT SERIOUS SIDE EFFECTS	<ul style="list-style-type: none"> <li>• Hypersensitivity</li> <li>• Infection, including viruses like chicken pox, shingles, herpes reactivation, hepatitis B/C reactivation</li> <li>• Progressive multifocal leukoencephalopathy (PML), a rare brain infection that can occur and usually leads to death or severe disability <ul style="list-style-type: none"> <li>⇒ Call your doctor right away if you have new or worsening medical problems that last several days or problems with thinking, eye sight, strength, balance, weakness on 1 side of the body, or using your arms and legs</li> </ul> </li> <li>• Liver damage</li> <li>• Heart failure - talk to your doctor if you experience: shortness of breath, rapid or irregular heartbeat, swelling in feet/ankles</li> <li>• Cladribine may carry an increased risk of malignancy and cancer</li> </ul>
DRUG INTERACTIONS	<ul style="list-style-type: none"> <li>• <u>Live or live-attenuated vaccines should be avoided</u> during treatment with cladribine as their safety for MS is unclear. Cladribine may decrease the effectiveness of vaccines.</li> </ul>
MONITORING	<ul style="list-style-type: none"> <li>• You will need a repeat complete blood count with differential at 2 months and 6 months after each dose or more frequently if indicated.</li> <li>• Repeat liver &amp; kidney function tests prior to each treatment course.</li> <li>• You will need a brain MRI with and without contrast at 6 months.</li> <li>• Talk to your primary care provider about standard cancer screening guidelines.</li> </ul>
MORE INFORMATION	<ul style="list-style-type: none"> <li>• Websites: <a href="http://www.nationalmssociety.org">www.nationalmssociety.org</a>, <a href="http://www.mavenclad.com">www.mavenclad.com</a></li> <li>• Clinical Trials: <ul style="list-style-type: none"> <li>• Giovannoni G, et al. NEJM. 2010; 362(5):416-26.</li> <li>• Giovannoni G, et al. MSJ. 2018; 24(12): 1594-1604.</li> </ul> </li> </ul>