YOU ARE INVITED

VUMERITY® (diroximel fumarate): A Branded Oral Therapy for Your RRMS Patients

THIS PROGRAM WILL COVER

Data from MAIC Efficacy Studies of VUMERITY vs Other Oral DMTs[1]

Real-World Persistence and Refill Adherence Data With VUMERITY[2]

And

Overview of Key Clinical Data and 13 Years of Long-Term Efficacy and Safety with DMF[3,4*]

And

Patient Considerations When Starting VUMERITY[3]

*The efficacy of VUMERITY is based upon bioavailability studies comparing VUMERITY to DMF in patients with relapsing forms of MS and healthy patients. In Study 1 and Study 2 pivotal trials, DMF demonstrated a 53% and 44% relative reduction in ARR vs placebo, respectively (0.172 vs 0.364; $p<0.0001$), (0.224 vs 0.401; $p<0.0001$).

FEATURING:

Speaker Name:
Melissa Bloch MD

Speaker Practice:
Renown Neuroscience Institute

Program Date: Tuesday, July 14, 2026
Program Time: 6:00 PM PST
Please Register By: Tuesday, July 07, 2026
Event Type: Live Event
Location: Bricks Restaurant
1695 South Virginia Street
Reno, NV 89502

Complimentary food and non-alcoholic beverages will be provided by Biogen.

Please RSVP to Gary Bhan at 916-952-5739 or gary.bhan@biogen.com

Indication

VUMERITY® (diroximel fumarate) is indicated for the treatment of relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults.

Important Safety Information

CONTRAINDICATIONS

VUMERITY is contraindicated in patients

- With known hypersensitivity to diroximel fumarate, dimethyl fumarate, or to any of the excipients of VUMERITY. Reactions may include anaphylaxis and angioedema
- Taking dimethyl fumarate

ARR=annualized relapse rate; DMT=disease-modifying therapy; MAIC=matching-adjusted indirect comparison; RRMS=relapsing-remitting multiple sclerosis.

Please see Important Safety Information continued on the following pages and accompanying full Prescribing Information.

VUMERITY®
(diroximel fumarate) delayed-release capsules 231 mg

Important Safety Information (cont'd)

WARNINGS AND PRECAUTIONS

Anaphylaxis and Angioedema

- VUMERITY can cause anaphylaxis and angioedema after the first dose or at any time during treatment. Signs and symptoms in patients taking dimethyl fumarate (which has the same active metabolite as VUMERITY) have included difficulty breathing, urticaria, and swelling of the throat and tongue. Patients should be instructed to discontinue VUMERITY and seek immediate medical care should they experience signs and symptoms of anaphylaxis or angioedema

Progressive Multifocal Leukoencephalopathy

- Progressive multifocal leukoencephalopathy (PML) has occurred in patients with MS treated with dimethyl fumarate (which has the same active metabolite as VUMERITY). PML is an opportunistic viral infection of the brain caused by the JC virus (JCV) that typically only occurs in patients who are immunocompromised, and that usually leads to death or severe disability. A fatal case of PML occurred in a patient who received dimethyl fumarate for 4 years while enrolled in a clinical trial
- PML has occurred in patients taking dimethyl fumarate in the postmarketing setting in the presence of lymphopenia ($<0.9 \times 10^9$/L). While the role of lymphopenia in these cases is uncertain, the PML cases have occurred predominantly in patients with lymphocyte counts $<0.8 \times 10^9$/L persisting for more than 6 months
- At the first sign or symptom suggestive of PML, withhold VUMERITY and perform an appropriate diagnostic evaluation. Typical symptoms associated with PML are diverse, progress over days to weeks, and include progressive weakness on one side of the body or clumsiness of limbs, disturbance of vision, and changes in thinking, memory, and orientation leading to confusion and personality changes
- Magnetic resonance imaging (MRI) findings may be apparent before clinical signs or symptoms. Monitoring with MRI for signs consistent with PML may be useful, and any suspicious findings should lead to further investigation to allow for an early diagnosis of PML, if present

Herpes Zoster and Other Serious Opportunistic Infections

- Serious cases of herpes zoster have occurred in patients treated with dimethyl fumarate (which has the same active metabolite as VUMERITY), including disseminated herpes zoster, herpes zoster ophthalmicus, herpes zoster meningoencephalitis, and herpes zoster meningomyelitis. These events may occur at any time during treatment. Monitor patients on VUMERITY for signs and symptoms of herpes zoster. If herpes zoster occurs, appropriate treatment for herpes zoster should be administered
- Other serious opportunistic infections have occurred with dimethyl fumarate, including cases of serious viral (herpes simplex virus, West Nile virus, cytomegalovirus), fungal (Candida and Aspergillus), and bacterial (Nocardia, Listeria monocytogenes, Mycobacterium tuberculosis) infections. These infections have been reported in patients with reduced absolute lymphocyte counts (ALC) as well as in patients with normal ALC. These infections have affected the brain, meninges, spinal cord, gastrointestinal tract, lungs, skin, eye, and ear. Patients with symptoms and signs consistent with any of these infections should undergo prompt diagnostic evaluation and receive appropriate treatment
- Consider withholding VUMERITY treatment in patients with herpes zoster or other serious infections until the infection has resolved

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Important Safety Information (cont'd)

WARNINGS AND PRECAUTIONS (cont'd)

Lymphopenia

- VUMERITY may decrease lymphocyte counts. In the MS placebo-controlled trials with dimethyl fumarate (which has the same active metabolite as VUMERITY), mean lymphocyte counts decreased by approximately 30% during the first year of treatment with dimethyl fumarate and then remained stable. Four weeks after stopping dimethyl fumarate, mean lymphocyte counts increased but did not return to baseline. The incidence of infections and serious infections was similar in patients treated with dimethyl fumarate or placebo. There was no increased incidence of serious infections observed in patients with lymphocyte counts <0.8 x 10^9/L or ≤0.5 x 10^9/L in controlled trials, although one patient in an extension study developed PML in the setting of prolonged lymphopenia (lymphocyte counts predominantly <0.5 x 10^9/L for 3.5 years)
- In controlled and uncontrolled clinical trials with dimethyl fumarate, 2% of patients experienced prolonged, severe lymphopenia (defined as lymphocyte counts <0.5 x 10^9/L for at least six months); in this group of patients, the majority of lymphocyte counts remained <0.5 x 10^9/L with continued therapy. In these patients with prolonged, severe lymphopenia, the median time for lymphocyte counts to return to normal after discontinuing dimethyl fumarate was 96.0 weeks
- In these controlled and uncontrolled clinical studies, among patients who did not experience prolonged, severe lymphopenia during treatment, the median times for lymphocyte counts to return to normal after discontinuing dimethyl fumarate were as follows:
  - 4.3 weeks in patients with mild lymphopenia (lymphocyte count ≥0.8 x 10^9/L) at discontinuation,
  - 10.0 weeks in patients with moderate lymphopenia (lymphocyte count 0.5 to <0.8 x 10^9/L) at discontinuation, and
  - 16.7 weeks in patients with severe lymphopenia (lymphocyte count <0.5 x 10^9/L) at discontinuation.
- Neither VUMERITY nor dimethyl fumarate have been studied in patients with preexisting low lymphocyte counts
- Obtain a complete blood count (CBC), including lymphocyte count, before initiating treatment with VUMERITY, 6 months after starting treatment, and then every 6 to 12 months thereafter, and as clinically indicated. Consider interruption of VUMERITY in patients with lymphocyte counts less than 0.5 x 10^9/L persisting for more than six months. Given the potential for delayed recovery of lymphocyte counts, continue to obtain lymphocyte counts until their recovery if VUMERITY is discontinued or interrupted because of lymphopenia. Consider withholding treatment from patients with serious infections until resolution

Liver Injury

- Clinically significant cases of liver injury have been reported in patients treated with dimethyl fumarate (which has the same active metabolite as VUMERITY) in the postmarketing setting. The onset has ranged from a few days to several months after initiation of treatment with dimethyl fumarate. Signs and symptoms of liver injury, including elevation of serum aminotransferases to greater than 5-fold the upper limit of normal and elevation of total bilirubin to greater than 2-fold the upper limit of normal have been observed. These abnormalities resolved upon treatment discontinuation. Some cases required hospitalization. None of the reported cases resulted in liver failure, liver transplant, or death. However, the combination of new serum aminotransferase elevations with increased levels of bilirubin caused by drug-induced hepatocellular injury is an important predictor of serious liver injury that may lead to acute liver failure, liver transplant, or death in some patients
- Elevations of hepatic transaminases (most no greater than 3 times the upper limit of normal) were observed during controlled trials with dimethyl fumarate
- Obtain serum aminotransferase, alkaline phosphatase (ALP), and total bilirubin levels prior to treatment with VUMERITY and during treatment as clinically indicated. Discontinue VUMERITY if clinically significant liver injury induced by VUMERITY is suspected

Flushing

- VUMERITY may cause flushing (e.g., warmth, redness, itching, and/or burning sensation). In clinical trials of dimethyl fumarate (which has the same active metabolite as VUMERITY), 40% of dimethyl fumarate-treated patients experienced flushing. Flushing symptoms generally began soon after initiating dimethyl fumarate and usually improved or resolved over time. In the majority of patients who experienced flushing, it was mild or moderate in severity. Three percent (3%) of patients discontinued dimethyl fumarate for flushing and <1% had serious flushing symptoms that were not life-threatening but led to hospitalization

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Important Safety Information (cont'd)

WARNINGS AND PRECAUTIONS (cont'd)

Serious Gastrointestinal Reactions

- Serious gastrointestinal (GI) reactions, including perforation, ulceration, hemorrhage, and obstruction, some with fatal outcomes, have been reported in the postmarketing setting with the use of fumaric acid esters, including VUMERITY, with or without concomitant aspirin use. The majority of these events have occurred within 6 months of fumaric acid ester treatment initiation. In controlled clinical trials, the incidence of serious gastrointestinal adverse reactions was 1% in patients treated with dimethyl fumarate; these events, none of which were fatal, included vomiting (0.3%) and abdominal pain (0.3%)
- Monitor patients, promptly evaluate, and discontinue VUMERITY for new or worsening severe gastrointestinal signs and symptoms

ADVERSE REACTIONS

- The most common adverse reactions (incidence ≥10% and ≥2% more than placebo) for dimethyl fumarate (which has the same active metabolite as VUMERITY) were flushing, abdominal pain, diarrhea, and nausea
- Gastrointestinal adverse reactions: Dimethyl fumarate caused GI events (e.g., nausea, vomiting, diarrhea, abdominal pain, and dyspepsia). The incidence of GI events was higher early in the course of treatment (primarily in month 1) and usually decreased over time in patients treated with dimethyl fumarate compared with placebo. Four percent (4%) of patients treated with dimethyl fumarate and less than 1% of placebo patients discontinued due to gastrointestinal events. The incidence of serious GI events was 1% in patients treated with dimethyl fumarate
- Hepatic transaminases: An increased incidence of elevations of hepatic transaminases in patients treated with dimethyl fumarate was seen primarily during the first six months of treatment and most patients with elevations had levels <3 times the upper limit of normal (ULN) during controlled trials. There were no elevations in transaminases ≥3 times the ULN with concomitant elevations in total bilirubin >2 times the ULN. Discontinuations due to elevated hepatic transaminases were <1% and were similar in patients treated with dimethyl fumarate or placebo
- Eosinophilia adverse reactions: A transient increase in mean eosinophil counts was seen during the first 2 months of therapy

USE IN SPECIFIC POPULATIONS

Pregnancy

- There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to VUMERITY during pregnancy. Encourage patients to enroll by calling **1-833-569-2635** or visiting **www.blossomspregnancyregistry.com**

Renal Impairment

- No dosage adjustment is necessary in patients with mild renal impairment. Because of an increase in the exposure of a major metabolite, use of VUMERITY is not recommended in patients with moderate or severe renal impairment

Please see accompanying full Prescribing Information.

References:

1. Jiang T, Božin I, Lewin JB, Shen C, Söderbärg K, Arnold DL. Matching-adjusted indirect comparisons of diroximel fumarate, ozanimod, and interferon beta-1a for relapsing MS. Poster presented at: *European Academy of Neurology* 9th Congress; July 1-4, 2023; Budapest, Hungary. Poster EPO-158. **2.** Lager B, Liseno J, Božin I, et al. Real-world analysis affirms the high persistence and adherence observed with diroximel fumarate in patients with multiple sclerosis. *Neurol Ther*. 2023;12(1):145-159. doi:10.1007/s40120-022-00413-0 **3.** VUMERITY® Prescribing Information. Cambridge, MA: Biogen. **4.** Gold R, Arnold DL, Bar-Or A, et al. Long-term safety and efficacy of dimethyl fumarate for up to 13 years in patients with relapsing-remitting multiple sclerosis: final ENDORSE study results. *Mult Scler*. 2022;28(5):801-816. doi:10.1177/13524585211037909

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