

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MYCOPHENOLATE MOFETIL TABLETS safely and effectively. See full prescribing information for MYCOPHENOLATE MOFETIL TABLETS.

MYCOPHENOLATE MOFETIL tablets, for oral use Initial U.S. Approval: 1995

WARNING: EMBRYOFETAL TOXICITY, MALFORMANCES AND SERIOUS INFECTIONS <i>See full prescribing information for complete boxed warning.</i>
• Use during pregnancy is associated with increased risks of first trimester pregnancy loss and congenital malformations. Avoid if safer treatment options are available. Females of reproductive potential must be counseled regarding pregnancy prevention and planning. <i>(See Warnings and Precautions (6.1), Use in Specific Populations (8.1, 8.3)).</i>
• Increased risk of development of lymphoma and other malignancies, particularly of the skin <i>(See Warnings and Precautions (6.2)).</i>
• Increased susceptibility to infections, including opportunistic infections and severe infections with fatal outcomes <i>(See Warnings and Precautions (6.3)).</i>

INDICATIONS AND USAGE
Mycophenolate mofetil tablets are indicated for the prophylaxis of organ rejection in adult and pediatric recipients 3 months of age and older of allogeneic kidney, heart or liver transplants, in combination with other immunosuppressants. (1)

DOSAGE AND ADMINISTRATION	
ADULTS	DOSAGE
Kidney Transplant	1 g twice daily, orally (2,2)
Heart Transplant	1.5 g twice daily orally (2,3)
Liver Transplant	1.5 g twice daily orally (2,4)
PEDIATRICS	
Kidney Transplant	600 mg/m ² orally twice daily (starting dose) up to a maximum of 2 g daily (2,2)
Heart Transplant	600 mg/m ² orally twice daily (starting dose) up to a maximum of 900 mg/m ² twice daily (3 g) (2,3)
Liver Transplant	600 mg/m ² orally twice daily (starting dose) up to a maximum of 900 mg/m ² twice daily (3 g) (2,4)

- Mycophenolate mofetil intravenous is an alternative when patients cannot tolerate oral medication. Administer within 24 hours following transplantation, until patients can tolerate oral medication, up to 14 days. (2,1)
- Reduce the interval dosing in the event of neutropenia. (2,5)
- See full prescribing information (PPI) for adjustments for renal impairment and neutropenia. (2,5)

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FULL PRESCRIBING INFORMATION

- WARNING: EMBRYOFETAL TOXICITY, MALFORMANCES AND SERIOUS INFECTIONS**
• Use during pregnancy is associated with increased risks of first trimester pregnancy loss and congenital malformations. Avoid if safer treatment options are available. Females of reproductive potential must be counseled regarding pregnancy prevention and planning. *(See Warnings and Precautions (6.1), Use in Specific Populations (8.1, 8.3)).*
- Increased risk of development of lymphoma and other malignancies, particularly of the skin *(See Warnings and Precautions (6.2)).*
- Increased susceptibility to infections, including opportunistic infections and severe infections with fatal outcomes *(See Warnings and Precautions (6.3)).*

1 **INDICATIONS AND USAGE**
Mycophenolate mofetil tablets are indicated for the prophylaxis of organ rejection, in adult and pediatric recipients 3 months of age and older of allogeneic kidney, heart or liver transplants (14.1), heart *(See Clinical Studies (14.2))* or liver transplants *(See Clinical Studies (14.3))*, in combination with other immunosuppressants.

2 DOSAGE AND ADMINISTRATION

- Important Administration Instructions
Mycophenolate mofetil should not be used without the supervision of a physician with experience in immunosuppressive therapy.

Mycophenolate Mofetil Tablets
Mycophenolate Mofetil tablets should not be used interchangeably with mycophenolic acid delayed-release tablets without supervision of a physician with experience in immunosuppressive therapy because the rates of absorption following the administration of mycophenolate mofetil tablets and mycophenolic acid delayed-release tablets are not equivalent.

Mycophenolate mofetil tablets should not be crushed.

The initial oral dose of mycophenolate mofetil tablets should be given as soon as possible following kidney, heart or liver transplant. It is recommended that mycophenolate mofetil tablets be administered on an empty stomach. In stable transplant patients, mycophenolate mofetil tablets may be administered with food if necessary *(See Clinical Pharmacology (12.3))*.

Patients should be instructed to take missed doses as soon as they remember, except if it is closer than 2 hours to the next scheduled dose; in this case, they should continue to take mycophenolate mofetil tablets at the usual times.

2.2 Dosage Recommendations for Kidney Transplant Patients

Adults
The recommended dosage for adult kidney transplant patients is 1 g orally, twice daily (total daily dose of 2 g).

Pediatrics (3 months and older)
Pediatric dosing is based on body surface area (BSA). Pediatric patients with BSA ≥ 1.25 m² may be dosed with tablets as follows:

Body Surface Area	Dosage
≥ 1.5 m ²	Mycophenolate mofetil tablets 1 g twice daily (2 g total daily dose)

2.3 Dosage Recommendations for Heart Transplant Patients

Adults
The recommended dosage of mycophenolate mofetil tablets for adult heart transplant patients is 1.5 g orally administered twice daily (total daily dose of 3 g).

Pediatrics (3 months and older)
Pediatric patients with BSA ≥ 1.25 m² may be started on therapy with tablets as follows:

Body Surface Area	Starting Dosage*
≥ 1.5 m ²	Mycophenolate mofetil tablets 1 g twice daily (2 g total daily dose)

*Maximum maintenance dose: 3 g total daily.

2.4 Dosage Recommendations for Liver Transplant Patients

Adults
The recommended dosage of mycophenolate mofetil tablets for adult liver transplant patients is 1.5 g administered orally twice daily (total daily dose of 3 g).

Pediatrics (3 months and older)
Pediatric patients with BSA ≥ 1.25 m² may be started on therapy with tablets as follows:

Body Surface Area	Starting Dosage*
≥ 1.5 m ²	Mycophenolate mofetil tablets 1 g twice daily (2 g total daily dose)

*Maximum maintenance dose: 3 g total daily.

2.5 Dosage Modifications: Patients with Renal Impairment, Neutropenia
Renal Impairment
No dosage modifications are needed in kidney transplant patients with delayed graft function postoperatively *(See Clinical Pharmacology (12.3))*. In kidney transplant patients with severe chronic renal impairment (a creatinine GFR <25 mL/min/1.73 m²), do not administer doses of mycophenolate mofetil tablets greater than 1 twice a day. These patients should be carefully monitored *(See Clinical Pharmacology (12.3))*.

Neutropenia
If neutropenia develops (ANC $<1.3 \times 10^9$ /L), using with mycophenolate mofetil tablets should be interrupted or reduced, appropriate diagnostic tests performed, and the patient managed appropriately *(See Warnings and Precautions (6.4) and Adverse Reactions (6.1))*.

3 DOSAGE FORMS AND STRENGTHS

Mycophenolate mofetil is available in the following dosage form and strength:
Tablets: 500 mg mycophenolate mofetil, lavender color, capsule shaped, biscored, film-coated tablets, debossed with "M12" on one side and "H" on the other side.

4 CONTRAINDICATIONS

Allergic reactions to mycophenolate mofetil tablets have been observed. Mycophenolate mofetil tablet is contraindicated in patients with a hypersensitivity to mycophenolate mofetil (MPM), mycophenolic acid (MPA) or any component of the drug product.

5 WARNINGS AND PRECAUTIONS

5.1 Embryofetal Toxicity

Use of MPM during pregnancy is associated with an increased risk of first trimester pregnancy loss and an increased risk of congenital malformations, especially external ear and other facial abnormalities including cleft lip and palate, and anomalies of the distal limbs, heart, esophagus, kidney and nervous system. Females of reproductive potential must be made aware of these risks and must be counseled regarding pregnancy prevention and planning. Avoid use of MPM during pregnancy if safer treatment options are available *(See Use in Specific Populations (8.1, 8.3))*.

5.2 Lymphoma and Other Malignancies

Patients receiving immunosuppressants, including mycophenolate mofetil, are at an increased risk of developing lymphomas and other malignancies, particularly of the skin *(See Adverse Reactions (6.1))*. The risk appears to be related to the intensity and duration of immunosuppression rather than to the use of any single agent. For patients with increased risk for skin cancer, exposure to sunlight and UV light should be limited by wearing protective clothing and using a broad-spectrum sunscreen with a high protection factor.

Post-transplant lymphoproliferative disorder (PTLD) developed in 0.4% to 1% of patients receiving mycophenolate mofetil (2 g or 3 g) with other immunosuppressive agents in controlled clinical trials of kidney, heart and liver transplant patients *(See Adverse Reactions (6.1))*. The majority of PTLD cases appear to be related to Epstein Barr Virus (EBV) infection. The risk of PTLD appears greatest in those individuals who are EBV seronegative, a population which includes many young children. In pediatric patients, no other malignancies besides PTLD were observed in clinical trials *(See Adverse Reactions (6.1))*.

5.3 Serious Infections

Patients receiving immunosuppressants, including mycophenolate mofetil, are at an increased risk of developing bacterial, fungal, protozoal and/or reactivated viral infections, including opportunistic infections. The risk increases with the total immunosuppressive load. These infections may lead to serious outcomes, including hospitalizations and death *(See Adverse Reactions (6.1, 6.2))*.

Serious viral infections reported include:
• Polyomavirus-associated nephropathy (PVAN), especially due to BK virus infection
• JC virus-associated progressive multifocal leukoencephalopathy (PML), and
• Cytomegalovirus (CMV) infections: CMV seronegative transplant patients who receive an organ from a CMV seropositive donor are at highest risk of CMV viremia and CMV disease.

- Viral reactivation has been reported in patients infected with HIV or HSV. Monitoring infected patients for clinical and laboratory signs of active HIV or HSV infection is recommended.
- COVID-19

Consider dose reduction or discontinuation of mycophenolate mofetil in patients who develop new infections or reactivate viral infections, weighing the risk that reduced immunosuppression represents to the functioning allograft.

PVAN, especially due to BK virus infection, is associated with serious outcomes, including deteriorating renal function and renal graft loss *(See Adverse Reactions (6.2))*. Patient monitoring may help detect patients at risk for PVAN.

PML, which is sometimes fatal, commonly presents with hemiparesis, aphasia, confusion, cognitive deficits, and ataxia *(See Adverse Reactions (6.2))*. In immunosuppressed patients, physicians should consider PML at the time of diagnosis of patients reporting neurological symptoms.

The risk of CMV viremia and CMV disease is highest among transplant recipients seronegative for CMV at time of transplant who receive a graft from a CMV seropositive donor. Therapeutic approaches to limiting CMV disease exist and should be routinely provided. Patient monitoring may help detect patients at risk for CMV disease.

Viral reactivation has been reported in patients infected with HIV or HSV. Monitoring infected patients for clinical and laboratory signs of active HIV or HSV infection is recommended.

5.4 Blood Dyscrasias: Neutropenia and Pure Red Cell Aplasia (PRCA)

Severe neutropenia (absolute neutrophil count (ANC) $<0.5 \times 10^9$ /L) developed in transplant patients receiving mycophenolate mofetil 3 g daily *(See Adverse Reactions (6.1))*. Patients receiving mycophenolate mofetil should be monitored for neutropenia. Neutropenia has been observed most frequently in the period from 31 to 180 days post-transplant in patients treated for prevention of kidney, heart and liver rejection. The development of neutropenia may be related to mycophenolate mofetil itself, concomitant medications, viral infections, or a combination of these causes. If neutropenia develops (ANC $<1.3 \times 10^9$ /L), discontinue mycophenolate mofetil should be interrupted or the dose reduced, appropriate diagnostic tests performed, and the patient managed appropriately *(See Dosage and Administration (2.5))*.

Patients receiving mycophenolate mofetil should be instructed to report immediately any evidence of infection, unexpected bruising, bleeding or any other manifestation of bone marrow depression.

Consider monitoring with complete blood counts weekly for the first month, twice monthly for the second and third months, and monthly for the remainder of the first year.

Cases of pure red cell aplasia (PRCA) have been reported in patients treated with mycophenolate mofetil in combination with other immunosuppressive agents. In some cases, PRCA was found to be reversible with dose reduction or cessation of mycophenolate mofetil therapy. In transplant patients, however, reduced immunosuppression may place the graft at risk.

5.5 Gastrointestinal Complications

Gastrointestinal bleeding resulting from ulceration, laceration and perforations were observed in clinical trials. Physicians should be aware of these serious adverse effects particularly when administering mycophenolate mofetil to patients with a gastrointestinal disease.

5.6 Patients with Hypoxanthine-Guanine Phosphoribosyl-Transferase Deficiency (HGPRT)

Mycophenolate mofetil is an antineoplastic (phosphoribosyl dehydrogenase (HGPRT) inhibitor); therefore it should be avoided in patients with hereditary deficiencies of hypoxanthine-guanine phosphoribosyl-transferase (HGPRT) such as Lesch-Nyhan and other purine synthetase deficiencies because it may cause an exacerbation of disease symptoms characterized by the overproduction and accumulation of uric acid leading to symptoms associated with gout such as acute arthritis, gouty nephritis, or uricemia and renal disease including renal failure.

5.7 Acute Inflammatory Syndrome Associated with Mycophenolate Products

Acute inflammatory syndrome (AIS) has been reported with the use of MPM and mycophenolate products, and some cases have resulted in hospitalization. AIS is a paradoxical pro-inflammatory reaction characterized by fever, myalgia, arthritis, muscle pain and elevated inflammatory markers including C-reactive protein and erythrocyte sedimentation rate, without evidence of infection or underlying disease. Symptoms occur within weeks to months of initiation of treatment or a dose increase. After discontinuation, improvement of symptoms and inflammatory markers are usually observed within 24 to 48 hours.

Monitor patients for symptoms and laboratory parameters of AIS when starting treatment with mycophenolate products or when increasing the dosage. Discontinue treatment and consider other treatment alternatives based on the risk and benefit for the patient.

5.8 Immunizations

During treatment with mycophenolate mofetil, the use of live attenuated vaccines should be avoided (e.g., intranasal influenza, measles, mumps, rubella, oral polio, BCG, yellow fever, varicella, and Ty212 typhoid vaccines) and patients should be advised that vaccinations may be less effective. Active vaccine patients with the physician before seeking any immunizations.

5.11 Blood Donation

Mycophenolate mofetil should not donate blood during therapy and for at least 6 weeks following discontinuation of mycophenolate mofetil because their blood or blood products might be administered to a female of reproductive potential or a pregnant woman.

5.12 Semen Donation

Based on animal data, men should not donate semen during therapy and for 90 days following discontinuation of mycophenolate mofetil *(See Use in Specific Populations (8.3))*.

5.13 Effect of Concomitant Medications on Mycophenolic Acid Concentrations

A variety of drugs have potential to alter systemic MPA exposure when co-administered with mycophenolate mofetil. Therefore, determination of MPA concentrations in plasma before and after making any changes to immunosuppressive therapy, or when adding or discontinuing concomitant medications, may be appropriate to ensure MPA concentrations remain stable.

5.14 Potential Impairment of Ability to Drive or Operate Machinery

Mycophenolate mofetil may affect the ability to drive or use machines. Patients should avoid driving or using machines if they experience malaise, confusion, dizziness, tremor, or hypertension during treatment with mycophenolate mofetil *(See Adverse Reactions (6.1))*.

DOSAGE FORMS AND STRENGTHS

- Tablets: 500 mg

CONTRAINDICATIONS

- Hypersensitivity to mycophenolate mofetil, mycophenolic acid or any component of the drug product (4)

WARNINGS AND PRECAUTIONS

- Blood Dyscrasias (Neutropenia and Pure Red Cell Aplasia): Monitor with blood tests, consider treatment interruption or dose reduction. (5,4)
- Gastrointestinal Complications: Monitor for complications such as bleeding, ulceration and perforations, especially in patients with underlying gastrointestinal disorders. (5,3)
- Hypoxanthine-Guanine Phosphoribosyl-Transferase Deficiency: Avoid use of mycophenolate mofetil. (5,6)
- Acute Inflammatory Syndrome Associated with Mycophenolate Products: Monitor for the paradoxical pro-inflammatory reaction. (5,7)
- Immunizations: Avoid live attenuated vaccines. (5,8)
- Blood Donation: Avoid living therapy and for 90 weeks thereafter. (5,11)
- Semen Donation: Avoid during therapy and for 90 days thereafter. (5,12)
- Potential Impairment on Driving and Use of Machinery: Mycophenolate mofetil may affect ability to drive or operate machinery. (5,14)

ADVERSE REACTIONS

The most common adverse reactions in clinical trials (20 % or greater) include headache, opportunistic infection, and there is evidence of a higher frequency of certain types of infections (e.g., opportunistic infection). (6,1)

To report SUSPECTED ADVERSE REACTIONS, contact Helsir Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- See PPI for drugs that may interfere with systemic exposures and reduce mycophenolate mofetil efficacy: Antibiotics with magnesium or aluminum hydroxide, proton pump inhibitors, drugs that interfere with enterogastric recirculation, tetracycline, calcium-free phosphate binders. (7,1)
- Gastrointestinal Complications: Avoid use of oral contraceptives. Use of additional barrier contraceptive methods is recommended. (7,2)
- See PPI for other important drug interactions. (7,3)

USE IN SPECIFIC POPULATIONS

- Male Patients: Sexual health and fertility outcomes are recommended to use effective contraception during treatment of the male patient and for at least 90 days after cessation of treatment. (8,3)

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*Sections or subsections omitted from the full prescribing information are not listed.

- ADVERSE REACTIONS**
The following adverse reactions are discussed in greater detail in other sections of the label:
• Embryofetal Toxicity *(See Warnings and Precautions (6.1))*
• Lymphomas and Other Malignancies *(See Warnings and Precautions (6.2))*
• Serious Infections *(See Warnings and Precautions (6.3))*
• Blood Dyscrasias: Neutropenia, Pure Red Cell Aplasia *(See Warnings and Precautions (6.4))*
• Gastrointestinal Complications *(See Warnings and Precautions (6.5))*
• Acute Inflammatory Syndrome Associated with Mycophenolate Products *(See Warnings and Precautions (6.7))*

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to the rates in the clinical trials of another drug and may not reflect the rates observed in practice.

An estimated total of 1557 adult patients received mycophenolate mofetil during pivotal clinical trials in the prevention of acute organ rejection. Of these, 991 were included in the three renal studies, 277 were included in one hepatic study, and 289 were included in one cardiac study. Patients in all study arms also received cyclosporine and corticosteroids.

The data described below primarily derive from five randomized, active-controlled double-blind 12-month trials of mycophenolate mofetil in de novo kidney (3 heart (1) and liver (1) transplant patients *(See Clinical Studies (14.1, 14.2, and 14.3))*.

Mycophenolate Mofetil Oral
The incidence of adverse reactions for mycophenolate mofetil was determined in five randomized, comparative, double-blind trials in the prevention of rejection in kidney, heart and liver transplant patients (two active and one placebo-controlled trials, one active-controlled trial, and one active-controlled trial, respectively) *(See Clinical Studies (14.1, 14.2 and 14.3))*.

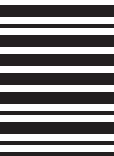
The three de novo kidney studies with 12-month duration compared two dose levels of oral mycophenolate mofetil (1 g twice daily and 1.5 g twice daily with azathioprine (2 studies) or placebo (1 study) when administered in combination with cyclosporine (Sandimmune®) and corticosteroids to prevent acute rejection episodes. One study also included oral thymoglobulin (Prolekin®) in combination with cyclosporine and corticosteroids.

In the de novo heart transplantation study with 12-month duration, patients received mycophenolate mofetil 1.5 g twice daily (intravenously) or azathioprine 1.5 to 3 mg/kg/day (n=289). In combination with cyclosporine (Sandimmune® or Neoral®) and corticosteroids as maintenance immunosuppressive therapy. The total number of patients enrolled was 565.

Approximately 53% of the kidney transplant patients, 65% of the heart transplant patients, and 49% of the liver transplant patients were treated for more than 1 year. Adverse reactions reported in ≥20% of patients in the mycophenolate mofetil treatment groups are presented below. The safety data of three kidney transplantation studies are pooled together below.

5.4 Adverse Reactions in Controlled Studies of De Novo Kidney, Heart or Liver Transplantation Reported in ≥20% of Patients in the Mycophenolate Mofetil Group

Table 5: Adverse Reactions in Controlled Studies of De Novo Kidney, Heart or Liver Transplantation Reports in ≥20% of Patients in the Mycophenolate Model Group							
Adverse drug reaction System Organ Class	Kidney Studies			Heart Study		Liver Study	
	Mycophenolate mofetil 250 mg b.i.d. (n=591)	AZA 1 to 2 mg/kg day or 100 to or 3 g/day 150 mg day (n=490)	Placebo 250 mg b.i.d. (n=166)	Mycophenolate mofetil 5 g/day (n=289)	AZA 1.5 to 3 mg/kg day (n=289)	Mycophenolate mofetil 3 g/day (n=277)	AZA 1 to 2 mg/kg day (n=287)
	(n=591)	(n=490)	(n=166)	(n=289)	(n=289)	(n=277)	(n=287)
Infections and Infestations							
Bacterial infections	39.9	33.7	37.3	-	-	27.4	26.5
Viral infections	-	-	-	31.1	24.9	-	-
Blood and lymphatic system disorders							
Anemia	20.0	23.6	2.4	45.0	47.1	43.0	53.0
Eosinophilia	-	-	-	20.1	9.1	-	-
Leukopenia	-	-	-	42.6	37.4	22.4	21.3
Leukopenia	28.6	24.8	4.2	34.3	43.3	45.8	39.0
Thrombocytopenia	-	-	24.2	28.0	38.3	42.2	
Metabolism and nutrition disorders							
Hyperchloremia	-	-	-	46.0	43.9	-	-
Hypokalemia	-	-	-	48.4	53.3	43.7	48.8
Hyperkalemia	-	-	-	-	-	22.0	23.7
Hypocalcemia	-	-	-	-	-	30.0	30.0
Hypomagnesemia	-	-	-	32.5	26.3	37.2	41.1
Hypomagnesemia	-	-	-	20.1	14.2	39.0	37.6



- Take mycophenolate mofetil tablets on an empty stomach, unless your doctor tells you otherwise. **Do not** crush mycophenolate mofetil tablets.
- If you are not able to swallow mycophenolate mofetil tablets, your doctor may prescribe mycophenolate mofetil oral suspension.
- If you take too much mycophenolate mofetil, call your doctor or the poison control center right away.

What should I avoid while taking mycophenolate mofetil tablets?

- Avoid becoming pregnant. (See “**What is the most important information I should know about mycophenolate mofetil tablets?**”).

- Limit the amount of time you spend in sunlight. Avoid using tanning beds or sunlamps. People who take mycophenolate mofetil tablets have a higher risk of getting skin cancer. (See “**What is the most important information I should know about mycophenolate mofetil tablets?**”). Wear protective clothing when you are in the sun and use a broad-spectrum sunscreen with a high protection factor. This is especially important if your skin is very fair or if you have a family history of skin cancer.
- You should not donate blood while taking mycophenolate mofetil tablets and for at least 6 weeks after stopping mycophenolate mofetil tablets.
- You should not donate sperm while taking mycophenolate mofetil tablets and for 90 days after stopping mycophenolate mofetil tablets.
- Mycophenolate mofetil tablets may influence your ability to drive and use machines (See “**What are the possible side effects of mycophenolate mofetil tablets?**”). If you experience drowsiness, confusion, dizziness, tremor, or low blood pressure during treatment with mycophenolate mofetil tablets, you should be cautious about driving or using heavy machines.

What are the possible side effects of mycophenolate mofetil tablets?

Mycophenolate mofetil tablets may cause serious side effects, including:

- See “**What is the most important information I should know about mycophenolate mofetil tablets?**”
- Low blood cell counts.** People taking high doses of mycophenolate mofetil tablets each day may have a decrease in blood counts, including:
 - white blood cells, especially neutrophils.** Neutrophils fight against bacterial infections. You have a higher chance of getting an infection when your white blood cell count is low. This is most common from 1 month to 6 months after your transplant.
 - red blood cells.** Red blood cells carry oxygen to your body tissues. You have a higher chance of getting severe anemia when your red blood cell count is low.
 - platelets.** Platelets help with blood clotting.Your doctor will do blood tests before you start taking mycophenolate mofetil tablets and during treatment with mycophenolate mofetil tablets to check your blood cell counts. Tell your doctor right away if you have any signs of infection (See “**What is the most important information I should know about mycophenolate mofetil tablets?**”), including any unexpected bruising or bleeding. Also, tell your doctor if you have unusual tiredness, lack of energy, dizziness or fainting.
- Stomach problems.** Stomach problems including intestinal bleeding, a tear in your intestinal wall (perforation) or stomach ulcers can happen in people who take mycophenolate mofetil tablets. Bleeding can be severe and you may have to be hospitalized for treatment. Call your doctor right away if you have sudden or severe stomach-area pain or stomach-area pain that does not go away, or if you have diarrhea.
- Inflammatory reactions.** Some people taking mycophenolate mofetil tablets may have an inflammatory reaction with fever, joint stiffness, joint pain, and muscle pain. Some of these reactions may require hospitalization. This reaction could happen within weeks to months after your treatment with mycophenolate mofetil tablets starts or if your dose is increased. Call your doctor right away if you experience these symptoms.

The most common side effects of mycophenolate mofetil tablets include:

- diarrhea
- blood problems including low white and red blood cell counts
- infections
- blood pressure problems
- fast heartbeat
- swelling of the lower legs, ankles and feet
- changes in laboratory blood levels, including high levels of blood sugar (hyperglycemia)
- stomach problems including diarrhea, constipation, nausea and vomiting
- rash
- nervous system problems such as headache, dizziness and tremor

Side effects that can happen more often in children than in adults taking mycophenolate mofetil tablets include:

- stomach area pain
- vomiting
- fever
- colds (respiratory tract infections)
- infection
- high blood pressure
- pain
- low white blood cell count
- blood infection (sepsis)
- low red blood cell count
- diarrhea
- low red blood cell count

These are not all of the possible side effects of mycophenolate mofetil tablets. Tell your doctor about any side effect that bothers you or that does not go away.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Hetero Labs Limited at 1-866-495-1995.

How should I store mycophenolate mofetil tablets?

- Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Dispense in light-resistant containers.
- Keep mycophenolate mofetil tablets in the light resistant container that it comes in.

Keep mycophenolate mofetil tablets and all medicines out of the reach of children.

General information about the safe and effective use of mycophenolate mofetil tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use mycophenolate mofetil tablets for a condition for which it was not prescribed. Do not give mycophenolate mofetil tablets to other people, even if they have the same symptoms that you have. They may harm them.

This Medication Guide summarizes the most important information about mycophenolate mofetil tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist about mycophenolate mofetil tablets that is written for health professionals.

What are the ingredients in mycophenolate mofetil tablets?

Active ingredient: mycophenolate mofetil USP

Inactive ingredients:

croscarmellose sodium, magnesium stearate, microcrystalline cellulose and povidone. The tablets are coated with opadry purple which contains FD&C blue #2, hydroxypropyl cellulose, hypromellose, polyethylene glycol, red iron oxide and titanium dioxide.

Medication Guide available at <http://camberpharma.com/medication-guides>



Manufactured for:
Camber Pharmaceuticals, Inc.,
Piscataway, NJ 08854

Manufactured by:
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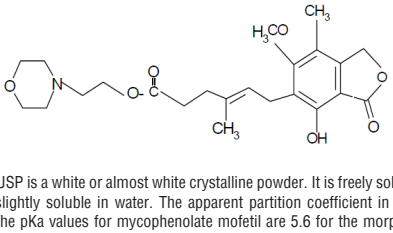
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For more information, call 1-866-495-1995.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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The chemical name for mycophenolate mofetil USP (MMF) is 2-Morpholinophenyl (E)-6-(1,3-dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-sobenzotrianylamino)-4-methyl-4-hexenoate. It has an molecular formula of C₂₄H₃₄N₄O₈, a molecular weight of 433.5, and the following structural formula:



Mycophenolate mofetil USP is a white or almost white crystalline powder. It is freely soluble in acetone; sparingly soluble in ethanol and slightly soluble in water. The apparent partition coefficient in 1-octanol/water (pH 7.4) butyl acetate is 228. The pKa values for mycophenolate mofetil are 5.8 for the morpholino group and 8.5 for the phenolic group.

Mycophenolate mofetil USP is available for oral administration as tablets containing 500 mg of mycophenolate mofetil USP.

Inactive ingredients in mycophenolate mofetil tablets USP, 500 mg include croscarmellose sodium, magnesium stearate, microcrystalline cellulose and povidone. The tablets are coated with opadry purple which contains FD&C blue #2, hydroxypropyl cellulose, hypromellose, polyethylene glycol, red iron oxide and titanium dioxide.

Mycophenolate mofetil Tablets USP, 500 mg comply with USP dissolution test 2.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Mycophenolate mofetil (MMF) is absorbed following oral administration and hydrolyzed to mycophenolic acid (MPA), the active metabolite. MPA is a selective uncompetitive inhibitor of the two isoforms (type I and type II) of inosine monophosphate dehydrogenase (IMPDH) leading to inhibition of the *de novo* pathway of guanosine nucleotide synthesis and blocks DNA synthesis. The mechanism of action of MPA is multifaceted and includes effects on cellular checkpoints responsible for metabolic programming of lymphocytes. MPA shifts transcriptional activities in lymphocytes from a proliferative state to apoptotic processes. In vitro studies suggest that MPA modulates transcriptional activities in human CD4 T-lymphocytes by suppressing the Akt/mTOR and STAT5 pathways that are relevant to metabolism and survival, leading to an in vitro state of T-cells whereby the cytokines stimulate responsive lymphocyte proliferation and survival. MPA also inhibits the expression of co-stimulators such as CD70, PD-1, CTLA-4, and transcription factor FoxP3 as well as decreased the expression of positive co-stimulators CD27 and CD28.

MPA decreases proliferative responses of T and B-lymphocytes to both mitogenic and allo-antigen stimulation, antibody responses, as well as the production of cytokines from lymphocytes and monocytes such as GM-CSF, IFN-γ, IL-17, and TNF-α. Additionally, MPA prevents the glycosylation of lymphocyte and monocyte glycoproteins that are involved in intercellular adhesion to endothelial cells and may inhibit recruitment of leukocytes into sites of inflammation and graft rejection.

Overall, the effect of MPA is cytostatic and reversible.

12.2 Pharmacodynamics

There is a lack of information regarding the pharmacodynamic effects of MMF.

12.3 Pharmacokinetics

Absorption

Following oral and intravenous administration, MMF undergoes complete conversion to MPA, the active metabolite. In 12 healthy volunteers, the mean absolute bioavailability of oral MMF relative to intravenous MMF was 94%. Two 500 mg mycophenolate mofetil tablets have been shown to be bioequivalent to four 250 mg mycophenolate mofetil capsules. Five mL of the 200 mg/mL constituted mycophenolate mofetil oral suspension have been shown to be bioequivalent to four 250 mg capsules.

The mean (±SD) pharmacokinetic parameters estimates for MPA following the administration of MMF given as single doses to healthy volunteers, and multiple doses to kidney, heart, and liver transplant patients, are shown in Table 10. The area under the plasma-concentration time curve (AUC) for MPA appears to increase in a dose-proportional fashion in kidney transplant patients receiving multiple oral doses of MMF up to a daily dose of 3 g (1.5g twice daily) (see Table 10).

Table 10 Pharmacokinetic Parameters for MPA (mean (±SD)) Following Administration of MMF to Healthy Volunteers (Single Dose), and Kidney, Heart, and Liver Transplant Patients (Multiple Doses)

Healthy Volunteers	Dose/Route	T _{max} (h)		C _{max} (mg/mL)		Total AUC (mg·h/mL)
		T _{max} (h)	(n)	C _{max} (mg/mL)	(n)	
Single dose	1 g/oral	0.80	(n=30)	24.5	(n=30)	63.9
		(±0.46)	(n=30)	(±9.30)	(n=30)	(±16.2)
			(n=31)		(n=31)	(n=31)
Kidney Transplant Patients (twice daily dosing Time After Transplantation)						
	Dose/Route	T _{max} (h)	(n)	C _{max} (mg/mL)	(n)	Interfering Interval AUC (0 to 12h) (mg·h/mL)
5 days	1 g/iv	1.58	(n=31)	12.0	(n=31)	40.8
		(±0.46)	(n=31)	(±3.02)	(n=31)	(±9.2)
6 days	1 g/oral	1.33	(n=31)	10.7	(n=31)	32.9
		(±1.55)	(n=31)	(±4.31)	(n=31)	(±15.0)
Early (Less than 40 days)	1 g/oral	1.31	(n=29)	8.16	(n=29)	27.3
		(±0.78)	(n=29)	(±4.50)	(n=29)	(±8.8)
Early (Less than 40 days)	1.5 g/oral	1.21	(n=29)	13.5	(n=29)	31.9
		(±0.81)	(n=29)	(±5.18)	(n=29)	(±15.4)
Late (Greater than 3 months)	1.5 g/oral	0.90	(n=23)	14.1	(n=23)	45.3
		(±0.24)	(n=23)	(±12.1)	(n=23)	(±2.4)
Heart transplant Patients (twice daily dosing Time After Transplantation)						
	Dose/Route	T _{max} (h)	(n)	C _{max} (mg/mL)	(n)	Interfering Interval AUC (0 to 12h) (mg·h/mL)
Early (Day before discharge)	1.5 g/oral	1.8	(n=13)	11.5	(n=13)	43.3
		(±1.3)	(n=13)	(±6.8)	(n=13)	(±20.8)
Late (Greater than 6 months)	1.5 g/oral	1.1	(n=7)	20.0	(n=7)	54.1*
		(±0.7)	(n=7)	(±9.4)	(n=7)	(±20.4)
Liver transplant Patients (twice daily dosing Time After Transplantation)						
	Dose/Route	T _{max} (h)	(n)	C _{max} (mg/mL)	(n)	Interfering Interval AUC (0 to 12h) (mg·h/mL)
4 to 9 days	1 g/iv	1.50	(n=17)	17.0	(n=17)	34.0
		(±0.517)	(n=17)	(±12.7)	(n=17)	(±17.4)
Early (5 to 6 days)	1.5 g/oral	1.15	(n=43)	13.1	(n=43)	29.2
		(±0.432)	(n=43)	(±7.6)	(n=43)	(±11.9)
Late (Greater than 6 months)	1.5 g/oral	1.54	(n=6)	19.5	(n=6)	49.5
		(±0.51)	(n=6)	(±11.7)	(n=6)	(±14.8)

* AUC(0 to 12h) values quoted are extrapolated from data from samples collected over 4 hours.

In the early post-transplant period (less than 40 days post-transplant), kidney, heart, and liver transplant patients had mean MPA AUCs approximately 20% to 41% lower than C_{max} or approximately 26% to 44% compared to the late transplant period (i.e., 3 to 6 months post-transplant) (non-steady-state in MPA pharmacokinetics).

Mean MPA AUC values following administration of 1 twice daily intravenous mycophenolate mofetil over 2 hours to kidney transplant patients for 5 days were about 24% higher than those observed after oral administration of a similar dose in the immediate post-transplant phase.

In liver transplant patients, administration of 1 g twice daily intravenous mycophenolate mofetil followed by 1.5 g twice daily oral mycophenolate mofetil resulted in mean MPA AUC estimates similar to those found in kidney transplant patients administered 1 g mycophenolate mofetil twice daily.

Effect of Food (Food 207 g, 650 calories) had no effect on the extent of absorption (MPA AUC) of MMF when administered at doses of 1.5 g twice daily to kidney transplant patients. However, MPA C_{max} was decreased by 40% in the presence of food (See *Dosage and Administration* (2.1)).

Distribution

The mean (±SD) apparent volume of distribution of MPA in 12 healthy volunteers was approximately 3.6 (±1.5) L/kg. At clinically relevant concentrations, MPA is 97% bound to plasma albumin. The phenolic glucuronide metabolite of MPA (MPAG) is 82% bound to plasma albumin at MPAG concentration ranges that are normally seen in stable kidney transplant patients; however, at higher MPAG concentrations (observed in patients with kidney impairment or delayed kidney graft function), the binding of MPA may be reduced as a result of competition between MPAG and MPA for protein binding. Mean blood to plasma ratio of radioactively concentrations was approximately 0.8 indicating that MPA and MPAG do not extensively distribute into the cellular fractions of blood.

In vitro studies to evaluate the effect of other agents on the binding of MPA to human serum albumin (HSA) or plasma proteins showed that salicylate (at 25 mg/mL with human serum albumin) and MPAG (at ≥240 mg/mL with plasma proteins) increased the free fraction of MPA. MPA at concentrations as high as 100 mg/mL had little effect on the binding of warfarin, digoxin or propranolol, but decreased the binding of theophylline from 53% to 45% and phenytoin from 90% to 87%.

Elimination

Mean (±SD) apparent half-life and plasma clearance of MPA are 17.9 (±6.5) hours and 193 (±48) mL/min following oral administration and 16.6 (±5.8) hours and 177 (±31) mL/min following intravenous administration, respectively.

Metabolism

The parent drug, MMF, can be measured systemically during the intravenous infusion; however, approximately 5 minutes after the infusion is stopped or after oral administration, MMF concentrations are below the limit of quantitation (0.4 mg/mL).

Metabolism to MPA occurs pre-systemically after oral dosing. MPA is metabolized principally by glucuronidation to form MPAG, which is not pharmacologically active. In vivo, MPAG is converted to MPA during enterhepatic recirculation. The following metabolites of the 2-hydroxyethyl-morpholino moiety are also recovered in the urine following oral administration of MMF to healthy subjects: 1-(2-carboxymethyl)- morpholine, N-(2-hydroxyethyl)-morpholine, and the N-oxide of N-(2-hydroxyethyl)-morpholine.

Due to the enterhepatic recirculation of MPAG/MPA, secondary peaks in the plasma MPA concentration-time profile are usually observed 6 to 12 hours post-dose. Bioequivalents, such as cholestyramine, reduce MPA AUC by interfering with this enterhepatic recirculation of the drug (see *Overdosage* (10) and *Drug Interaction Studies* below).

Excretion

Negligible amount of drug is excreted as MPA (less than 1% of dose) in the urine. Orally administered radiolabeled MMF resulted in complete recovery of the administered dose, with 82% of the administered dose recovered in the urine and 6% recovered in feces. Most (about 87% of the administered dose is excreted in the urine as MPA. At clinically encountered concentrations, MPA and MPAG are usually not removed by hemodialysis. However, at plasma MPAG plasma concentrations of 100 mg/mL, small amounts of MPAG are removed.

Increased plasma concentrations of MMF metabolites MPA 50% increase and MPAG about a 3-fold to 6-fold increase) are observed in patients with renal insufficiency (see *Specific Populations*).

Specific Populations

Patients with Renal Impairment

The mean (±SD) pharmacokinetic parameters for MPA following the administration of oral MMF given as single doses to non-transplant subjects with renal impairment are presented in Table 11.

In a single-dose study, MMF was administered as a capsule or as an intravenous infusion over 40 minutes. Plasma MPA AUC observed after oral dosing to volunteers with severe chronic renal impairment (GFR < 25 mL/min/1.73 m²) was about 75% higher relative to that observed in healthy volunteers (GFR > 100 mL/min/1.73 m²). In addition, single-dose plasma MPAG AUC was 2-fold to 5-fold higher in volunteers with severe renal impairment than in volunteers with mild renal impairment or healthy volunteers, consistent with the known renal elimination of MPAG. No data are available on the safety of long-term exposure to this level of MPAG.

Plasma MPA AUC observed after single-dose (1 g) intravenous dosing to volunteers (n=4) with severe chronic renal impairment (GFR < 25 mL/min/1.73 m²) was 82.4 mg·h/mL (±19.3). Multiple dosing of MMF in patients with severe chronic renal impairment has not been studied.

Patients with Delayed Graft Function or Nonfunction

In patients with delayed renal graft function post-transplant, mean MPA AUC(0 to 12h) was comparable to that seen in post-transplant patients without delayed renal graft function. There is a potential for a transient increase in the free fraction and concentration of plasma MPA in patients with delayed renal graft function. However, dose adjustment does not appear to be necessary in patients with delayed renal graft function. Mean plasma MPAG AUC(0 to 12h) was 2-fold to 3-fold higher than in post-transplant patients without delayed renal graft function (see *Dosage and Administration* (2.5)).

In eight patients with primary graft non-function following kidney transplantation, plasma concentrations of MPAG accumulated about 6-fold to 8-fold after multiple dosing for 28 days. Accumulation of MPA was about 1-fold to 2-fold.

The pharmacokinetics of MMF are not altered by hemodialysis. Hemodialysis usually does not remove MPA or MPAG. At high concentrations of MPAG (> 100 mg/mL), hemodialysis removes only small amounts of MPAG.

Patients with Hepatic Impairment

The mean (±SD) pharmacokinetic parameters for MPA following the administration of oral MMF given as single doses to non-transplant subjects with hepatic impairment is presented in Table 11.

In a single-dose (1 g oral) study of 18 volunteers with alcoholic cirrhosis and 6 healthy volunteers, hepatic MPA glucuronidation proceeds apparently to be relatively unaffected by hepatic parenchymal disease when pharmacokinetic parameters of healthy volunteers and alcoholic cirrhosis patients within this study were compared. However, it should be noted that for unexplained reasons, the healthy volunteers in this study had about a 50% lower AUC as compared to healthy volunteers in other studies, thus making comparisons between volunteers with alcoholic cirrhosis and healthy volunteers difficult. In a single-dose (1 g intravenous) study of 6 volunteers with severe hepatic impairment (aminotransferase blood test less than 2% of dose) due to alcoholic cirrhosis, MMF was rapidly converted to MPA. MPA AUC was 44.1 mg·h/mL (±15.5).

Table 11 Pharmacokinetic Parameters for MPA (mean (±SD)) Following Single Doses of MMF Capsules in Chronic Renal and Hepatic Impairment

Pharmacokinetic Parameters for Renal Impairment					
Dose	T _{max} (h)	C _{max} (mg/mL)	AUC (0 to 12h) (mg·h/mL)		
Healthy Volunteers	1 g	0.75	25.3	45.0	
GFR greater than 80 mL/min/1.73 m ² (n=6)		(±0.27)	(±7.99)	(±22.6)	
Mild Renal Impairment	1 g	0.75	26.0	59.9	
GFR 50 to 80 mL/min/1.73 m ² (n=6)		(±0.27)	(±3.82)	(±12.9)	
Moderate Renal Impairment	1 g	0.75	19.0	52.9	
GFR 25 to 49 mL/min/1.73 m ² (n=6)		(±0.27)	(±13.2)	(±25.5)	
Severe Renal Impairment	1 g	1.00	16.3	78.6	
GFR less than 25 mL/min/1.73 m ² (n=7)		(±0.41)	(±10.8)	(±46.4)	

Pharmacokinetic Parameters for Hepatic Impairment

Dose	T _{max} (h)	C _{max} (mg/mL)	AUC (0 to 48h) (mg·h/mL)
Healthy Volunteers (n=6)	1 g	0.63	24.3
Alcoholic Cirrhosis	(n=6)	(±0.14)	(±5.73)
	1 g	0.85	22.4
		(±0.58)	(±10.1)

Pediatric Patients

The pharmacokinetic parameters of MPA and MPAG have been evaluated in 55 pediatric patients (ranging from 1 year to 18 years of age) receiving mycophenolate mofetil oral suspension at a dose of 600 mg/m² twice daily (up to a maximum of 1 g twice daily) after allogeneic kidney transplantation. The pharmacokinetic data for MPA is provided in Table 12.

Table 12 Mean (±SD) Computed Pharmacokinetic Parameters for MPA by Age and Time after Allogeneic Kidney Transplantation

Age Group (n)	Time	T _{max} (h)	Dose Adjusted* AUC _{0-12h} (mg·h/mL)	Dose Adjusted* AUC _{0-48h} (mg·h/mL)
1 to less than 2 yr (6) [†]	Early (Day 7)	3.03 (4.70)	10.3 (5.80)	22.5 (8.66)
1 to less than 6 yr (17)		1.63 (2.85)	13.2 (7.16)	27.4 (9.54)
6 to less than 12 yr (16)		0.940 (0.546)	13.1 (6.30)	33.2 (12.1)
12 to 18 yr (21)		1.16 (0.850)	11.7 (10.7)	26.3 (8.14) [‡]
1 to less than 2 yr (4) [†]	Late (Month 3)	0.722 (0.276)	26.8 (13.4)	47.4 (14.7)
1 to less than 6 yr (15)		0.989 (0.511)	22.7 (10.1)	49.7 (18.2)
6 to less than 12 yr (14)		1.21 (0.462)	27.8 (14.3)	61.9 (19.6)
12 to 18 yr (17)		1.09 (0.518)	18.9 (8.57)	53.6 (20.3) [‡]
1 to less than 2 yr (4) [†]	Late (Month 9)	0.604 (0.208)	25.6 (4.25)	55.8 (11.6)
1 to less than 6 yr (12)		0.869 (0.479)	30.4 (8.16)	61.0 (10.7)
6 to less than 12 yr (11)		1.12 (0.462)	22.2 (12.6)	66.5 (21.2)
12 to 18 yr (14)		1.09 (0.518)	18.1 (7.29)	56.7 (14.0)

* adjusted to a dose of 600 mg/m²

[†] n=20

[‡] n=16

[§] a subset of 1 to <3 yr

The mycophenolate mofetil oral suspension dose of 600 mg/m² twice daily (up to a maximum of 1 g twice daily) achieved mean MPA AUC values in pediatric patients similar to those seen in adult kidney transplant patients receiving mycophenolate mofetil capsules at a dose of 1 g twice daily in the early post-transplant period. There was wide variability in the data. As observed in adults, early post-transplant MPA AUC values were approximately 45% to 55% lower than those observed in the later post-transplant period (3-6 months). MPA AUC values were similar in the early and late post-transplant period across the 1 to 18-year age range.

A comparison of dose-normalized (> 600 mg/m²) MPA AUC values in 12 pediatric kidney transplant patients less than 6 years of age at 3 months post-transplant with those values in 7 pediatric liver transplant patients (median age 17 months (range: 10 to 60 months)) and at 6 months and beyond post-transplant revealed that, at the same dose, there were on average 23% lower AUC values in the pediatric liver compared to pediatric kidney patients. This is consistent with the need for higher dosing in adult liver transplant patients compared to kidney transplant patients to achieve the same exposure.

In adult transplant patients administered the same dosage of mycophenolate mofetil, there is similar MPA exposure among kidney transplant and heart transplant patients. Based on the established similarity in MPA exposure between pediatric kidney transplant and adult kidney transplant patients at their respective approved doses, it is expected that MPA exposure at the recommended dosage will be similar in pediatric heart transplant and adult heart transplant