

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all of 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: EMBRYO/FETAL 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 prevention and planning. (See Warnings and Precautions (8.1), (8.3), (8.5))
- Increased risk of development of lymphoma and other malignancies, particularly of the skin (See Warnings and Precautions (8.2))
- Increased susceptibility to infections, including opportunistic infections and severe infections with fatal outcomes (See Warnings and Precautions (8.3))

INDICATIONS AND USAGE

Mycophenolate mofetil tablets are an antineoplastic immunosuppressant indicated for the prophylaxis of organ rejection in adult and pediatric heart transplant patients 3 months and older of allogeneic kidney, heart or liver transplants, in combination with other immunosuppressants. (1)

DOSSAGE AND ADMINISTRATION

ADULTS	DOSSAGE
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	DOSSAGE
Kidney Transplant	600 mg/m ² orally twice daily, up to 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 (3.0) (2.3)
Liver Transplant	600 mg/m ² orally twice daily (starting dose) up to a maximum of 900 mg/m ² twice daily (3.0) (2.4)

- Mycophenolate mofetil intravenous is an alternative when patients cannot tolerate oral medication, up to 14 days, (2.1)
- Reduce or interrupt 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: EMBRYO/FETAL 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 prevention and planning. (See Warnings and Precautions (8.1), (8.3), (8.5))
- Increased risk of development of lymphoma and other malignancies, particularly of the skin (See Warnings and Precautions (8.2))
- Increased susceptibility to bacterial, viral, fungal and protozoal infections, including opportunistic infections and viral reactivation of hepatitis B and C, which may lead to hospitalizations and fatal outcomes (See Warnings and Precautions (8.3))

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 (see Clinical Studies (14.1)), heart (see Clinical Studies (14.2)) or liver transplants (see Clinical Studies (14.3)), in combination with other immunosuppressants.

2 DOSSAGE AND ADMINISTRATION

2.1 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 experience of a physician with experience in immunosuppressive therapy (due to the risks of infection 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 with adequate renal function, mycophenolate mofetil tablets may be administered with food if necessary (see Clinical Pharmacology (12.3)).

Patients should be instructed to take a missed dose 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 impairment of the graft (GFR ≤ 25 mL/min/1.73 m²), do not administer doses of mycophenolate mofetil tablets greater than 1 g twice a day. These patients should be carefully monitored (see Adverse Reactions (6.1)).

Neutropenia
If neutropenia develops (ANC $<1.3 \times 10^9/L$), dosing with mycophenolate mofetil tablets should be interrupted or reduced, appropriate diagnostic tests performed, and the patient managed appropriately (see Warnings and Precautions (8.4) and Adverse Reactions (6.1)).

3 DOSSAGE FORMS AND STRENGTHS

Mycophenolate mofetil is available in the following dosage form and strength:

Tablets	500 mg mycophenolate mofetil, lavender-colored, capsule shaped, bisected, film-coated tablets, debossed with "M12" on one side and "H" on the other side
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4 CONTRAINDICATIONS

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

5 WARNINGS AND PRECAUTIONS

5.1 Embryofetal Toxicity

Use of MMF during pregnancy is associated with an increased risk of first trimester pregnancy loss and an increased risk of congenital malformations, especially external and/or 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 MMF during pregnancy if safer treatment options are available (see Use in Specific Populations (8.1), (8.3)).

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)).

5.2 Serious Infections

Patients receiving immunosuppressants, including mycophenolate mofetil, are at increased risk of developing bacterial, fungal, protozoal and new or reactivated viral infections, including opportunistic infections. The risk increases with the total immunosuppressive load. These infections may lead to severe 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 in patients infected with Hepatitis B and C

- COVID-19

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

PAIN, especially due to BK virus infection, is associated with serious outcomes, including deteriorating renal function and renal graft loss (see Adverse Reactions (6.1)). Patient monitoring may help detect patients at risk for PVAN.

PML, which is sometimes fatal, commonly presents with hemiparesis, apathy, confusion, cognitive deficits, and ataxia (see Adverse Reactions (6.1)). In patients with PML, the clinical picture may be similar to that seen in the differential 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 the disease symptoms characterized by the overproduction and accumulation of viral acid leading to symptoms associated with post-transplant lymphoproliferative disorder (PTLD), including fever, malaise, weight loss, and diarrhea, include:

- Discontinuation of immunosuppressive therapy, or
- Reduction of immunosuppressive therapy, or
- Combination of the above.

Viral reactivation has been reported in patients infected with HBV or HCV. Monitoring infected patients for clinical and laboratory signs of active HBV or HCV 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 30 to 180 days post-transplant in patients being 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 usually observed in patients receiving mycophenolate mofetil tablets 2 g to 4 g daily. Consider dose reduction or discontinuation of mycophenolate mofetil tablets if neutropenia is observed, and the patient managed appropriately (see Adverse Reactions (6.1), (6.2)).

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 patient at risk.

5.5 Gastrointestinal Complications

Gastrointestinal bleeding requiring hospitalization, ulceration 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 inosine monophosphate dehydrogenase (IMPDH) inhibitor; therefore it should be avoided in patients with hereditary deficiencies of hypoxanthine-guanine phosphoribosyl-transferase (HGPRT), such as Lesch-Nyhan and Kelley-Seegmiller syndromes 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 uric acid arthritis, kidney stones, and/or gouty arthritis, including renal failure.

5.7 Acute Inflammatory Syndrome Associated with Mycophenolate Products
Acute inflammatory syndrome (AIS) has been reported with the use of MMF and mycophenolate products, and some cases have resulted in hospitalization. AIS is a paraneoplastic pro-inflammatory reaction characterized by fever, arthralgias, arthritis, muscle pain and elevated inflammatory markers including C-reactive protein, leukocytosis, eosinophilia, sedimentation rate, without evidence of infection or underlying disease recurrence. Symptoms occur within weeks to months of initiation of treatment or dose increase. After discontinuation, improvement of symptoms and inflammatory markers was 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 dose. 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 Ty21a typhoid vaccine) and patients should be advised that immunizations may be less effective. Advise patients to discuss with the physician before seeking any immunizations.

5.11 Blood Donation

Patients should not donate blood by blood 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 (8.1)).

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 impact the ability to drive and use machines. Patients should avoid driving or using machines if they experience somnolence, confusion, dizziness, tremor, or hypotension during treatment with mycophenolate mofetil (see Adverse Reactions (6.1)).

DOSSAGE 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, Red Blood Cell Aplasia): Monitor with blood tests; consider treatment (transfusion of platelets (2.5.1), platelets (2.5.2), platelets (2.5.3), platelets (2.5.4), platelets (2.5.5), platelets (2.5.6), platelets (2.5.7), platelets (2.5.8), platelets (2.5.9), platelets (2.5.10), platelets (2.5.11), platelets (2.5.12), platelets (2.5.13), platelets (2.5.14), platelets (2.5.15), platelets (2.5.16), platelets (2.5.17), platelets (2.5.18), platelets (2.5.19), platelets (2.5.20), platelets (2.5.21), platelets (2.5.22), platelets (2.5.23), platelets (2.5.24), platelets (2.5.25), platelets (2.5.26), platelets (2.5.27), platelets (2.5.28), platelets (2.5.29), platelets (2.5.30), platelets (2.5.31), platelets (2.5.32), platelets (2.5.33), platelets (2.5.34), platelets (2.5.35), platelets (2.5.36), platelets (2.5.37), platelets (2.5.38), platelets (2.5.39), platelets (2.5.40), platelets (2.5.41), platelets (2.5.42), platelets (2.5.43), platelets (2.5.44), platelets 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- 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
- sore throat
- infection
- colds (respiratory tract infections)
- pain
- high blood pressure
- blood infection (sepsis)
- low white 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 1-866-495-1955.

- 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:
HETERO™
Hetero Labs Limited
Jeedimetla, Hyderabad - 500 055,
India.

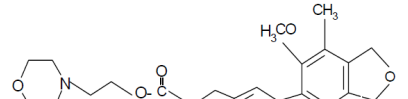
* The brands listed are trademarks of their respective owners and are not trademarks of Hetero Labs Limited.

For more information, call 1-866-495-1955.

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

Revised: 07/2024

The chemical name for mycophenolate mofetil, USP is 2-Morpholinoethyl (E)-6-[1-(2-hydroxy-4-hydroxy-6-methoxyphenyl)-5-oxo-5H-tetrazol-4-yl]hexanoate. It has a molecular formula of C₁₈H₂₂N₄O₈, 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) buffer solution is 238. The pKa values for mycophenolate mofetil are 5.6 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 blockade of DNA synthesis. The mechanism of action of MPA is well established and includes effects on cellular checkpoints responsible for metabolic programming of lymphocytes. MPA shifts transcriptional activities in lymphocytes from a proliferative state to catabolic 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 energetic state of T-cells whereby the their subsequent response to antigenic stimulation is impaired. The approximate MPA doses in pediatric solid-organ co-stimulators such as CD28, PD-1, CTLA-4, and transcription factor Foxp3 as well as decreased the expression of positive co-stimulators CD27 and CD28.

Mycophenolate mofetil is a potent inhibitor of type I and B-lymphocytes with both mitogenic and allo-antigenic 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 intracellular adhesion to endothelial cells and may inhibit recruitment of leukocyte 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%. The 500 mg mycophenolate mofetil tablets have been shown to be bioequivalent to 500 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 increases to a degree 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)
Single dose	1 g/oral	0.80 (±0.36) (n=129)	24.5 (±8.5) (n=129)	63.9 (±16.2) (n=129)
Kidney Transplant Patients (twice daily dosing) Time After Transplantation	Dose/Route	T _{max} (h)	C _{max} (mg/mL)	Interpolating Interval AUC (0 to 12h) (mg·h/mL)
5 days	1 g/oral	1.58 (±0.46) (n=31)	12.0 (±3.82) (n=31)	40.8 (±14) (n=31)
6 days	1 g/oral	1.33 (±1.05) (n=31)	10.7 (±4.83) (n=31)	32.9 (±15.0) (n=31)
Early (Less than 40 days)	1 g/oral	1.31 (±0.78) (n=25)	8.16 (±4.50) (n=25)	27.9 (±10.9) (n=25)
Early (Less than 40 days)	1.5 g/oral	1.21 (±0.81) (n=27)	13.1 (±8.18) (n=27)	38.4 (±15.4) (n=27)
Late (Greater than 3 months)	1.5 g/oral	0.90 (±0.24) (n=23)	24.1 (±12.1) (n=23)	65.3 (±35.4) (n=23)
Heart Transplant Patients (twice daily dosing) Time After Transplantation	Dose/Route	T _{max} (h)	C _{max} (mg/mL)	Interpolating Interval AUC (0 to 12h) (mg·h/mL)
Early (Day before discharge)	1.5 g/oral	1.8 (±1.3) (n=11)	11.5 (±6.8) (n=11)	34.9 (±17.7) (n=11)
Late (Greater than 6 months)	1.5 g/oral	20.1 (±0.7) (n=52)	18.1 (±8.4) (n=52)	54.1 (±24.4) (n=49)
Liver transplant Patients (twice daily dosing) Time After Transplantation	Dose/Route	T _{max} (h)	C _{max} (mg/mL)	Interpolating Interval AUC (0 to 12h) (mg·h/mL)
4 to 9 days	1 g/oral	1.50 (±0.517) (n=22)	17.0 (±12.7) (n=22)	34.9 (±17.4) (n=22)
Early (5 to 8 days)	1.5 g/oral	1.15 (±0.432) (n=20)	13.1 (±6.78) (n=20)	29.2 (±11.9) (n=20)
Late (Greater than 6 months)	1.5 g/oral	1.54 (±0.51) (n=6)	19.3 (±11.7) (n=6)	49.3 (±14.8) (n=6)

* 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 and mean C_{max} approximately 32% to 44% lower compared to the mean MPA AUCs and C_{max} values in patients receiving the same doses of MMF in MPA pharmacokinetic studies.

Mean MPA AUC values following administration of 1 g 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 (20% to 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 albumin at MPAG concentrations range that are normally seen in stable kidney transplant patients; however, at higher MPA 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 0.6 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 > 460 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 80% to 87%.

Elimination
Mean (±SD) apparent half-life and plasma clearance of MPA are 17.8 (±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 systematically 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 glucuronyl transferase to form MPAG, which is not pharmacologically active. *In vivo*, MPAG is converted to MPA during the post-hepatic recirculation. The following metabolites of the 2-hydroxyethyl-morpholino moiety are also recovered in the urine following oral administration of MMF to healthy subjects: N-(2-carboxymethyl)-morpholine, N-(2-hydroxyethyl)-morpholine, and the N-oxide of N-(2-hydroxyethyl)-morpholine.

Due to the enterohepatic recirculation of MPAG/MPA, secondary peaks in the plasma MPA concentration-time profile are usually observed 6 to 12 hours post-dose. Bile sequentstrans, such as cholestyramine, reduce MPA AUC by interfering with this enterohepatic 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 93% of the administered dose recovered in the urine and 6% recovered in feces. Most (about 87%) of the administered dose is secreted in the urine as MPAG. At clinically encountered concentrations, MPA and MPAG are usually not removed by hemodialysis. However, at high MPA plasma concentrations (> 100 mg/mL), oral administration 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 > 80 mL/min/1.73 m²). In addition, the single-dose plasma MPA AUC was 3-fold to 6-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 62.4 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
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 MPA 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 82 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 processes appeared to be relatively unaffected by hepatic parenchymal disease when pharmacokinetic parameters of healthy volunteers and alcoholic cirrhotic 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 (aminopyrine breath test less than 0.2% of dose) due to alcoholic cirrhosis, MMF was rapidly converted to MPA. MPA AUC was 4.1 (mean) (±1.5).

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 GFR greater than 80 mL/min/1.73 m ² (n=6)	1 g	0.75 (±0.27)	25.3 (±7.99)	45.0 (±22.6)
Mild Renal Impairment GFR 50 to 80 mL/min/1.73 m ² (n=6)	1 g	0.75 (±0.27)	26.0 (±3.82)	59.9 (±12.9)
Moderate Renal Impairment GFR 25 to 49 mL/min/1.73 m ² (n=6)	1 g	0.75 (±0.27)	19.0 (±13.2)	52.9 (±25.5)
Severe Renal Impairment GFR less than 25 mL/min/1.73 m ² (n=7)	1 g	1.00 (±0.41)	16.3 (±10.8)	78.6 (±45.4)
Pharmacokinetic Parameters for Hepatic Impairment				
Dose	T _{max} (h)	C _{max} (mg/mL)	AUC (0 to 4h) (mg·h/mL)	
Healthy Volunteers (n=6)	1 g	0.63 (±0.14)	24.3 (±5.23)	29.0 (±7.8)
Alcoholic Cirrhosis (n=18)	1 g	0.85 (±0.58)	22.4 (±10.1)	29.8 (±10.7)

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* C _{max} (mg/mL)	Dose Adjusted* AUC _{0-12h} (mg·h/mL)
1 to less than 2 yr ^a (6) ^b	Early (Day 7)	3.00 (±0.63)	10.3 (±3.80)	22.5 (±6.86)
2 to less than 6 yr (17)		2.1 (±0.94)	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)		1.1 (±0.78)	17.8 (±10.73)	36.3 (±14.4)
1 to less than 2 yr (4) ^c	Late (Month 3)	0.725 (±0.111)	23.8 (±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)		0.7 (±0.532)	27.8 (±14.3)	61.9 (±19.8)
12 to 18 yr (17)		0.578 (±0.484)	17.8 (±10.73)	35.8 (±12.9)
1 to less than 2 yr (4) ^c	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 (±16)	61.0 (±10.7)
6 to less than 12 yr (11)		1.12 (±0.482)	29.2 (±12.6)	68.8 (±21.2)
12 to 18 yr (14)		1.09 (±0.518)	18.1 (±7.29)	36.7 (±14.0)

* adjusted to a dose of 600 mg/m²

^a n=16

^b a subset of 1 to <6 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 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 6 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 liver transplant 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 AUC values in kidney transplant and heart transplant patients. Based on the data collected similarly 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 patients.

Male and Female Patients

Data obtained from several studies were pooled to look at any gender-related differences in the pharmacokinetics of MPA. Data were adjusted to 1 g oral dose. Mean (±SD) MPA AUC (0 to 12h) for males (n=79) was 32.0 (±14.5) and for females (n=41) was 36.5 (±15.8) mg·h/mL, while mean (±SD) MPA C_{max} was 9.86 (±4.8) in the males and 10.6 (±5.64) mg/mL in the females. These differences are not of clinical significance.

Geriatric Patients

Twelve geriatric patients of mycophenolate mofetil and its metabolites have not been found to be altered in geriatric transplant patients when compared to younger transplant patients.

Drug Interaction Studies

Acylovir

Coadministration of MMF (1 g) and acyclovir (800 mg) to 12 healthy volunteers resulted in no significant change in MPA AUC and C_{max}. However, MMF and acyclovir plasma AUCs were increased 16% and 21.9%, respectively. Attacks with Magnesium and Aluminum Hydroxides

Absorption of a single dose of MMF (2 g) was decreased when administered to 10 rheumatoid arthritis patients also taking Maalox™ TC (10 mL qid). The C_{max} and AUC (0 to 24h) for MPA were 53% and 17% lower, respectively, than when MMF was administered alone under fasting conditions.

Proton Pump Inhibitors (PPIs)

Coadministration of PPIs (e.g., lansoprazole, pantoprazole) in single doses to healthy volunteers and multiple doses to transplant patients receiving mycophenolate mofetil has been reported to reduce the exposure to MPA. An approximate reduction of 30 to 70% in the C_{max} and 25% to 35% in the AUC of MPA has been observed, possibly due to a decrease in MPA solubility at an increased gastric pH.

Cholestyramine

Following single-dose administration of 1.5 g MPA to 12 healthy volunteers pretreated with 4 g three times a day of cholestyramine for 4 days, MPA AUC decreased approximately 40%. This decrease is consistent with interruption of enterohepatic recirculation which may be due to binding of recirculating MPAG with cholestyramine in the intestine.

Cyclosporine