

2D Matrix to be printed with serial number on each leaflet. The number should not be repeated

Note: Position of the pharma code and product name will change as per the folding machine feasibility



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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: EMBRYOFETAL TOXICITY, MALIGNANCIES AND SERIOUS INFECTIONS

See full prescribing information for complete boxed warning

- Use during pregnancy is associated with increased risks of first trimester pregnancy loss and congenital malformations. Avoid if safe treatment options are available. Females of reproductive potential must be counseled regarding pregnancy prevention and planning (see Warnings and Precautions (5.1)).
- Increased risk of development of lymphoma and other malignancies, particularly of the skin (see Warnings and Precautions (5.2)).
- Increased susceptibility to opportunistic infections and severe infections with fatal outcomes (see Warnings and Precautions (5.3)).

RECENT MAJOR CHANGES

Warnings and Precautions (5.3).....05/2025

INDICATIONS AND USAGE

Mycophenolate mofetil tablets are an antimitabolic immunosuppressant indicated for the prophylaxis of organ rejection in adult with end-organ transplant, and age and older of allogeneic kidney, heart or liver transplants, in combination with other immunosuppressants. (1)

DOSEAGE AND ADMINISTRATION

ADULTS	DOSEAGE
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, 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 or interrupt dosing in the event of neutropenia. (2.5)
- See full prescribing information (FPI) for: adjustments for renal impairment and neutropenia. (2.5)

DOSEAGE FORMS AND STRENGTHS

- Tablets: 500 mg

FULL PRESCRIBING INFORMATION: CONTENTS

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FULL PRESCRIBING INFORMATION

WARNING: EMBRYOFETAL TOXICITY, MALIGNANCIES AND SERIOUS INFECTIONS

- Use during pregnancy is associated with increased risks of first trimester pregnancy loss and congenital malformations. Avoid if safe treatment options are available. Females of reproductive potential must be counseled regarding pregnancy prevention and planning (see Warnings and Precautions (5.1)).
- Increased risk of development of lymphoma and other malignancies, particularly of the skin (see Warnings and Precautions (5.2)).
- 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 (5.3)).

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 (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 DOSEAGE 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 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 (see Clinical Studies (12.3)).

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, however, 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

The recommended dosage for adult kidney transplant patients is 1 g orally, twice daily (total daily dose of 2 g). Patients should be instructed to take mycophenolate mofetil tablets with food (see Clinical Studies (14.1)).

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

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).

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	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

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).

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	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 increase the dose of mycophenolate mofetil tablets greater than 1 g twice a day. These patients should be carefully monitored (see Warnings and Precautions (12.3)).

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 (5.4) and Adverse Reactions (6.1)).

3 DOSEAGE FORMS AND STRENGTHS

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

Tablets	500 mg mycophenolate mofetil, lavender-colored, capsule shaped, biconvex, film-coated tablets with serial numbers debossed with "MTC" on one side and "H" on the other side.
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4 CONTRAINDICATIONS

Mycophenolate mofetil tablet is contraindicated in patients with a history of hypersensitivity, including anaphylaxis, to mycophenolate mofetil (MMF), mycophenolic acid (MPA) or any component of the drug product (see Warnings and Precautions (5.2)).

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 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 MMF during pregnancy if safe 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 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 specific 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 seropositive, a population which includes many young children. In pediatric patients, or 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 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 serious outcomes, including hospitalizations and death (see Adverse Reactions (6.1, 6.2)).

Serious viral infections reported include:

- Polymovirus-associated nephropathy (PVAN), especially due to BK virus infection
- JC virus-associated progressive multifocal leukoencephalopathy (PML), and
- Cytomegalovirus (CMV) infections. CMV seropositive 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.

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 factors for PVAN.

PML, which is sometimes fatal, commonly presents with hemiparesis, aphasia, confusion, cognitive deficiencies, and ataxia (see Adverse Reactions (6.2)). In immunosuppressed patients, physicians should consider PML in the differential diagnosis in 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 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 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 tablets, concomitant medications, viral infections, or a combination of these causes. If neutropenia develops (ANC $< 1.3 \times 10^9/L$), dosing with 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 count 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 treated patients, however, reduced immunosuppression may place the graft 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.

CONTRAINDICATIONS

- History of hypersensitivity, including anaphylaxis, 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 interruption or dose reduction. (5.4)
- Gastrointestinal Complications: Monitor for complications such as bleeding, ulceration and perforations, particularly in patients with underlying gastrointestinal disorders. (5.5)
- Hypoxanthine-Guanine Phosphoribosyl-Transferase Deficiency: Avoid use of mycophenolate mofetil. (5.6)
- Acute Inflammatory Syndrome Associated with Mycophenolate Products: Monitor for this paradoxical inflammatory reaction. (5.7)
- Hypersensitivity Reactions: Discontinue mycophenolate mofetil; treat and monitor until signs and symptoms resolve. (5.8)
- Immunizations: Avoid live attenuated vaccines. (5.9)
- Blood Donation: Avoid during therapy and for 6 weeks thereafter. (5.12)
- Semen Donation: Avoid during therapy and for 90 days thereafter. (5.13)
- Potential Impairment on Driving and Use of Machinery: Mycophenolate mofetil may affect ability to drive or operate machinery. (5.15)

ADVERSE REACTIONS

The most common adverse reactions in clinical trials (20% or greater) include diarrhea, leukopenia, infection, vomiting, 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 Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- See FPI for drugs that may interfere with systemic exposure and reduce mycophenolate mofetil efficacy: antacids with magnesium or aluminum hydroxide, proton pump inhibitors, drugs that alter with enteropathic recirculation: telmisartan, calcium-free phosphate binders. (7.1)
- Mycophenolate mofetil may reduce effectiveness of oral contraceptives. Use of additional barrier contraceptive methods is recommended. (7.2)
- See FPI for other important drug interactions. (7)

USE IN SPECIFIC POPULATIONS

- Male Patients: Sexually active male patients and/or their female partners are recommended to use effective contraception during treatment of the male patient and for at least 90 days after cessation of treatment (8.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

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- Blood Dyscrasias
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- Hypersensitivity Reactions
- Immunizations
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- Blood Donation
- Semen Donation
- Potential to Impair Driving and Use of Machinery

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

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 such as acute arthritis, tophi, nephrolithiasis or urolithiasis and renal disease including renal failure.

5.7 Acute Inflammatory Syndrome Associated with Mycophenolate Products

Acute inflammatory syndrome (AIS) has been reported in patients receiving mycophenolate products, and some cases have resulted in hospitalization. AIS is a paradoxical pro-inflammatory reaction characterized by fever, arthralgias, arthritis, muscle pain and elevated inflammatory markers including C-reactive protein and erythrocyte sedimentation rate, without evidence of infection or underlying disease recurrence. 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 Hypersensitivity Reactions

Postmarketing cases of hypersensitivity reactions, including angioedema and anaphylaxis, have been reported with mycophenolate mofetil. These reactions generally occurred within hours to the next day after initiating mycophenolate mofetil. If signs or symptoms of hypersensitivity reaction occur, discontinue mycophenolate mofetil; treat and monitor until symptoms resolve (see Contraindications (4)).

5.9 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 Y271A typhoid vaccines) and patients should be advised that vaccinations may be less effective. Advise patients to discuss with the physician before seeking any immunizations.

5.12 Blood Donation

Patients 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.

5.13 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)).

5.14 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 mycophenolate mofetil, or when adding or discontinuing concomitant medications, may be appropriate to ensure MPA concentrations remain stable.

5.15 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, dizziness, tremor, or hypotension during treatment with mycophenolate mofetil (see Adverse Reactions (6.1)).

6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the label:

- Embryofetal Toxicity (see Warnings and Precautions (5.1))
- Lymphomas and Other Malignancies (see Warnings and Precautions (5.2))
- Serious Infections (see Warnings and Precautions (5.3))
- Blood Dyscrasias: Neutropenia, Pure Red Cell Aplasia (see Warnings and Precautions (5.4))
- Gastrointestinal Complications (see Warnings and Precautions (5.5))
- Acute Inflammatory Syndrome Associated with Mycophenolate Products (see Warnings and Precautions (5.7))
- Hypersensitivity Reactions (see Warnings and Precautions (5.8))

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 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 incidence of de novo kidney rejection 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 anti-thymocyte globulin (ATGAM®) induction therapy.

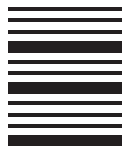
In the de novo heart transplantation study with 12-month duration, patients received mycophenolate mofetil 1.5 g twice daily (n=289) or azathioprine 1.5 to 3 mg/kg/day (n=289), in combination with cyclosporine (Sandimmune® or Neoral®) and corticosteroids as maintenance immunosuppressive therapy.

In the de novo liver transplantation study with 12-month duration, patients received mycophenolate mofetil 1 g twice daily intravenously for up to 14 days followed by mycophenolate mofetil 1.5 g twice daily orally or azathioprine 1 to 2 mg/kg/day intravenously followed by azathioprine 1 to 2 mg/kg/day orally, in combination with cyclosporine (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 46% of the liver transplant patients were treated for more than 1 year. Adverse reactions reported in $\geq 20\%$ of patients in the mycophenolate mofetil treatment groups are presented below. The safety data of three kidney transplantation studies are pooled together.

Table 5 Adverse Reactions in Controlled Studies of De Novo Kidney, Heart or Liver Transplantation Reported in $\geq 20\%$ of Patients in the Mycophenolate Mofetil Group

The de novo liver transplantation study followed with 12-month duration, patients received mycophenolate mofetil 1.5 g twice daily intravenously for up to 14 days followed by mycophenolate mofetil 1.5 g twice daily orally or azathioprine 1 to 2 mg/kg/day intravenously followed by azathioprine 1 to 2 mg/kg/day orally, in combination with cyclosporine (Neoral [®]) and corticosteroids as maintenance immunosuppressive therapy. The total number of patients enrolled was 565.												
Approximately 52% of the kidney transplant patients, 65% of the heart transplant patients, and 45% 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.												
Table 5 Adverse Reactions in Controlled Studies of De Novo Kidney, Heart or Liver Transplantation Reported in ≥20% of Patients in the Mycophenolate Mofetil Group												
Adverse drug reaction System Organ Class	Kidney Studies				Heart Study		Liver Study					
	Mycophenolate mofetil 2g/day (n=501) or 3g/day (n=499)	AZA 1 to 2 mg/kg/day or 150 to 100 mg/day	Placebo (n=166)	%	Mycophenolate mofetil 3g/day (n=289)	AZA 1.5 to 3 mg/kg/day (n=289)	Mycophenolate mofetil 3g/day (n=277)	AZA 1 to 2 mg/kg/day (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					
Echymosis	-	-	-	20.1	9.7	-	-					
Leukocytosis	-	-	-	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												
Hypercholesterolemia	-	-	-	46.0	43.3	-	-					
Hyperglycemia	-	-	-	48.4	53.9	43.7	48.8					
Hyperkalemia	-	-	-	-	-	22.0	23.7					
Hypercalcemia	-	-	-	-	-	30.0	30.0					
Hyperkalemia	-	-	-	32.5	26.3	37.2	41.1					
Hypernatremia	-	-	-	20.1	14.2	39.0	37.6					
Psychiatric disorders												
Depression	-	-	-	20.1	15.2	-	-					
Insomnia	-	-	-	43.3	39.8	52.3	47.0					
Nervous system disorders												
Dizziness	-	-	-	34.3	33.9	-	-					
Headache	-	-	-	58.5	55.4	53.8	49.1					
Tremor	-	-	-	26.3	25.6	33.9	35.5					
Cardiac disorders												
Tachycardia	-	-	-	22.8	21.8	22.0	15.7					
Vascular disorders												
Hypertension	27.5	32.2	19.3	73.9	74.0	62.1	59.6					
Hypotension	-	-	-	34.3	40.1	-	-					
Respiratory, thoracic and mediastinal disorders												
Cough	-	-	-	40.5	32.2	-	-					
Dyspnea	-	-	-	44.3	44.3	31.0	30.3					
Pleural effusion	-	-	-	-	-	34.3	35.9					
Gastrointestinal disorders												
Abdominal pain	22.4	23.0	11.4	41.9	39.4	62.5	51.2					
Constipation	-	-	-	43.6	38.8	37.9	38.3					
Decreased appetite	-	-	-	-	-	25.3	17.7					
Diarrhea	30.4	20.9	13.9	52.6	39.4	51.3	49.8					
Dyspepsia	-	-	-	22.1	22.1	22.4	20.9					
Nausea	-	-	-	56.1	60.2	54.5	51.2					
Vomiting	-	-	-	39.1	34.6	32.9	33.4					
Hepatobiliary disorders												



How should I take mycophenolate mofetil tablets?

- Take mycophenolate mofetil tablets exactly as prescribed.
- Do not stop** taking mycophenolate mofetil tablets or change the dose unless your doctor tells you to.
- If you miss a dose of mycophenolate mofetil tablets, or you are not sure when you took your last dose, take your prescribed dose of mycophenolate mofetil tablets as soon as you remember. If your next dose is less than 2 hours away, skip the missed dose and take your next dose at your normal scheduled time. **Do not** take 2 doses at the same time. Call your doctor if you are not sure what to do.
- 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.
- Allergic (hypersensitivity) reactions.** Allergic reactions, including a severe allergic reaction called anaphylaxis, can happen after taking mycophenolate mofetil tablets. Stop taking mycophenolate mofetil tablets and get emergency medical help right away if you have any of the following symptoms of an allergic reaction:
 - swelling of the face, lips, tongue, or throat
 - rash, hives, or itching
 - fainting, dizziness, feeling lightheaded
 - trouble breathing or swallowing
 - fast heartbeat
 - chest pain

The most common side effects of mycophenolate mofetil tablets include:

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

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 1-866-495-1995.

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:
HETERO™
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Mahabubnagar - 509 301, India.

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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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8.2 Lactation

Risk Summary

There are no data on the presence of mycophenolate in human milk, or the effects on milk production. There are limited data in the National Transplantation Pregnancy Registry on the effects of mycophenolate on a breastfed child [See Data]. Studies in rats treated with MMF have shown mycophenolate acid (MPA) to be present in milk. Because available data are limited, it is not possible to exclude potential risks to a breastfeeding infant.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for mycophenolate mofetil and any potential adverse effects on the breastfed infant from mycophenolate mofetil or from the underlying maternal condition.

Data

Limited information is available from the National Transplantation Pregnancy Registry. Of seven infants treated by the National Transplantation Pregnancy Registry to have been breastfed while the mother was taking mycophenolate, all were born at 34 to 46 weeks gestation, and breastfed for up to 14 months. No adverse events were reported.

8.3 Females and Males of Reproductive Potential

Females of reproductive potential must be made aware of the increased risk of first trimester pregnancy loss and congenital malformations and must be counseled regarding pregnancy prevention and planning.

Pregnancy Planning

For patients who are considering pregnancy, consider alternative immunosuppressants with less potential for embryofetal toxicity whenever possible. Risks and benefits of mycophenolate mofetil should be discussed with the patient.

Pregnancy Testing

To prevent unintended exposure during pregnancy, all females of reproductive potential should have a serum or urine pregnancy test with a sensitivity of at least 25 mIU/mL immediately before starting mycophenolate mofetil. Another pregnancy test with the same sensitivity should be done 8 to 10 days later. Repeat pregnancy tests should be performed at the end of each reproductive cycle. Results of all pregnancy tests should be discussed with the patient. In the event of a positive pregnancy test, consider alternative immunosuppressants with less potential for embryofetal toxicity whenever possible.

Contraception

Female Patients

Females of reproductive potential taking mycophenolate mofetil must receive contraceptive counseling and use acceptable contraception (see Table 9 for acceptable contraceptive methods). Patients must use acceptable birth control during the entire mycophenolate mofetil therapy, and for 6 weeks after stopping mycophenolate mofetil, unless the patient chooses otherwise.

Patients should be aware that mycophenolate mofetil reduces blood levels of the hormones from the oral contraceptive pill and could theoretically reduce its effectiveness [See Drug Interactions (7.2)].

Table 9 Acceptable Contraceptive Methods for Females of Reproductive Potential

Pick from the following birth control options:

Option 1 Methods to Use Alone	Options 2 and 3 Hormone Methods Choose one Hormone Method AND one Barrier Method	Barrier Methods Choose one
- Intrauterine devices (IUDs) - Tubal sterilization - Permanent vasectomy - Permanent vasectomy	- Estrogen and Progestone - Oral Contraceptive Pill - Contraceptive patch - Vaginal ring - Progestone-only - Injectable - Implant	- Diaphragm with spermicide - Cervical cap with spermicide - Contraceptive sponge - Male condom - Female condom

OR

Option 2 Choose One Hormone Method AND One Barrier Method	Hormone Methods Choose one	Barrier Methods Choose one
- Estrogen and Progestone - Oral Contraceptive Pill - Contraceptive patch - Vaginal ring - Progestone-only - Injectable - Implant	- Diaphragm with spermicide - Cervical cap with spermicide - Contraceptive sponge - Male condom - Female condom	- Male condom - Female condom

OR

Option 3 Choose One Barrier Method from the column (must choose two methods)	Barrier Methods Choose one	Barrier Methods Choose one
- Diaphragm with spermicide - Cervical cap with spermicide - Contraceptive sponge	- Diaphragm with spermicide - Cervical cap with spermicide - Contraceptive sponge	- Male condom - Female condom

Male Patients

Genotoxic effects have been observed in animal studies at exposures exceeding the human therapeutic exposures by approximately 1.25 times. Thus, the risk of genotoxic effects on sperm cells cannot be excluded. Based on this potential risk, sexually active male patients and/or their female partners are recommended to use effective contraception during treatment of the male patient and for at least 90 days after cessation of treatment. Also, based on the potential risk of genotoxic effects, male patients should not donate sperm during treatment with mycophenolate mofetil and for at least 90 days after cessation of treatment [See Use in Special Populations (8.1), Nonclinical Toxicology (13.1), Patient Counseling Information (17.9)].

8.4 Pediatric Use

Safety and effectiveness have been established in pediatric patients 3 months and older for the prophylaxis of organ rejection of allogeneic kidney, heart or liver transplants.

Kidney Transplant

Use of mycophenolate mofetil in this population is supported by evidence from adequate and well-controlled studies of mycophenolate mofetil and pharmacokinetic data in adult heart transplant and liver transplant patients. Additional supportive data include pharmacokinetic data in pediatric kidney transplant and pediatric liver transplant patients (8 liver transplant patients, 9 months to 5 years of age, in an open-label, pharmacokinetic and safety study) and published safety data in pediatric heart transplant and pediatric liver transplant patients (see Dosage and Administration (2.2), Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.1)).

Heart Transplant and Liver Transplant

Use of mycophenolate mofetil in pediatric heart transplant and liver transplant patients is supported by adequate and well-controlled studies and pharmacokinetic data in adult heart transplant and liver transplant patients. Additional supportive data include pharmacokinetic data in pediatric kidney transplant and pediatric liver transplant patients (8 liver transplant patients, 9 months to 5 years of age, in an open-label, pharmacokinetic and safety study) and published safety data in pediatric heart transplant and pediatric liver transplant patients (see Dosage and Administration (2.2), Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.1)).

8.5 Geriatric Use

Genotoxic effects have been observed in animal studies at exposures exceeding the human therapeutic exposures by approximately 1.25 times. Thus, the risk of genotoxic effects on sperm cells cannot be excluded. Based on this potential risk, sexually active male patients and/or their female partners are recommended to use effective contraception during treatment of the male patient and for at least 90 days after cessation of treatment. Also, based on the potential risk of genotoxic effects, male patients should not donate sperm during treatment with mycophenolate mofetil and for at least 90 days after cessation of treatment [See Use in Special Populations (8.1), Nonclinical Toxicology (13.1), Patient Counseling Information (17.9)].

8.6 Patients with Renal Impairment

Patients with Kidney Transplant

No dosage adjustments are needed in kidney transplant patients experiencing delayed graft function postoperatively but patients should be carefully monitored [see Clinical Pharmacology (12.3)]. In kidney transplant patients with severe chronic impairment of the graft (GFR <25 mL/min/1.73 m²), no dose adjustments are necessary; however, doses greater than 1 g administered twice a day should be avoided.

Patients with Heart and Liver Transplant

No data are available for heart or liver transplant patients with severe chronic renal impairment. Mycophenolate mofetil may be used for heart or liver transplant patients with severe chronic renal impairment if the potential benefits outweigh the potential risks.

8.7 Patients with Hepatic Impairment

Patients with Kidney Transplant

No dosage adjustments are recommended for kidney transplant patients with severe hepatic parenchymal disease. However, it is not known whether dosage adjustments are needed for hepatic disease with other etiologies [see Clinical Pharmacology (12.3)].

Patients with Heart Transplant

No data are available for heart transplant patients with severe hepatic parenchymal disease.

10 OVERDOSAGE

Possible signs and symptoms of acute overdose include hematological abnormalities such as leukopenia and neutropenia, and gastrointestinal symptoms such as abdominal pain, diarrhea, nausea, vomiting, and dyspepsia. The experience with overdose of mycophenolate mofetil in humans is limited. The reported effects associated with overdose fall within the known safety profile of the drug. The highest dose administered to kidney transplant patients in clinical trials has been 4 g/day. In limited experience with heart and liver transplant patients in clinical trials, the highest doses were 4 g/day or 5 g/day. At doses of 4 g/day or 5 g/day, there appears to be a higher rate, compared to the use of 3 g/day or less, of gastrointestinal intolerance (nausea, vomiting, and/or diarrhea), and occasional hematologic abnormalities, particularly neutropenia [see Warnings and Precautions (5.4)].

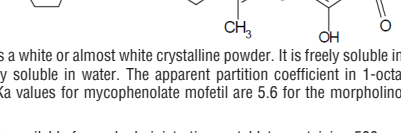
Treatment and Management

Mycophenolate mofetil tablets and the phenolic glucuronide metabolite of MPA (MPAG) are usually not removed by hemodialysis. However, MPA and the phenolic glucuronide metabolite of MPA (MPAG) are small amounts of MPAG are removed. By increasing excretion of the drug, MPA can be removed by bile acid sequestrants, such as cholestyramine [see Clinical Pharmacology (12.3)].

11 DESCRIPTION

Mycophenolate mofetil (MPF) is an antimetabolite immunosuppressant. It is the 2-morpholinoethyl ester of mycophenolic acid (MPA), an immunosuppressive agent, inosine monophosphate dehydrogenase (IMPDH) inhibitor.

The chemical name for mycophenolate mofetil (MPF) is 2-Morpholinoethyl (E)-6-[1,3,4-dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-sulfonamoyl-4-methyl-4-hexenoate]. It has the molecular formula of C₂₄H₃₈O₁₀, a molecular weight of 433.5, and the following structural formula:



Mycophenolate mofetil 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 (log P) is approximately 1.74; buffer solution is 238. The pKa values for mycophenolate mofetil are 5.6 for the morpholino group and 7.0 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.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Mycophenolate mofetil (MPF) is absorbed following oral administration and hydrolyzed to mycophenolic acid (MPA), the active metabolite. MPA is a selective noncompetitive inhibitor of the two isoforms (type I and type II) of inosine monophosphate dehydrogenase (IMPDH) resulting in inhibition of the de novo pathway of purine 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 catabolic processes. In vitro studies suggest that MPA modulates transcriptional activities in human CD4⁺T-lymphocytes by suppressing the Akt/mTOR and STAT pathways that are relevant to metabolism and survival, leading to an anergic state of T-cells whereby the cells become less responsive to antigenic stimulation. Additionally, MPA inhibits the expression of co-stimulators such as CD27, 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-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 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 (1.5 g 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)

Single dose	1 g/oral	0.80 (±0.36) (n=129)	24.5 (±9.5) (n=129)	63.9 (±16.2) (n=117)
Kidney Transplant Patients (twice daily dosing) Time After Transplantation	Dose/Route	T _{max} (h)	C _{max} (mcg/mL)	Interfering Interval AUC (0 to 12h) (mcg·h/mL)
5 days	1 g/iv	1.58 (±0.46) (n=31)	12.0 (±3.82) (n=31)	40.8 (±11.4) (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 (±0.76) (n=25)	8.16 (±4.50) (n=25)	27.3 (±10.9) (n=25)
Early (Less than 40 days)	1.5 g/oral	1.21 (±0.81) (n=27)	13.5 (±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} (mcg/mL)	Interfering Interval AUC (0 to 12h) (mcg·h/mL)
Early (Day before discharge)	1.5 g/oral	1.8 (±1.3) (n=11)	11.5 (±6.8) (n=11)	43.3 (±20.8) (n=9)
Late (Greater than 6 months)	1.5 g/oral	1.1 (±0.7) (n=52)	20.0 (±9.4) (n=52)	54.1 (±20.4) (n=49)
Liver transplant Patients (twice daily dosing) Time After Transplantation	Dose/Route	T _{max} (h)	C _{max} (mcg/mL)	Interfering Interval AUC (0 to 12h) (mcg·h/mL)
4 to 9 days	1 g/iv	1.50 (±0.57) (n=22)	17.0 (±12.7) (n=22)	34.0 (±17.4) (n=22)
Early (5 to 8 days)	1.5 g/oral	1.15 (±0.42) (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 22% to 44% lower compared to the late transplant period (i.e., 3 to 6 months post-transplant) (non-stationarity in MPA pharmacokinetics).

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 (27.5 kcal, 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 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 MPAG 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 differentially distribute to extravascular tissues. *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 ≥400 mcg/mL with plasma proteins) increased the free fraction of MPA. MPA concentrations as high as 100 mcg/mL, had no 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 16.8 (±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 mcg/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 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: N-(2-carboxymethyl)-morpholine, N-(2-hydroxymethyl)-morpholine, and N-(2-hydroxyethyl)-morpholine. Metabolism within the liver 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. Bile sequestrants, such as cholestyramine, reduce MPA AUC by interfering with this enterhepatic recirculation of the drug [See Overdosage (10) and Drug Interaction Studies (16.1)].

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 58% 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 MPAG. At clinically encountered concentrations, MPA and MPAG are usually not removed by hemodialysis. However, at high MPA plasma concentrations (> 100 mcg/mL), small amounts of MPA are removed.

Increased plasma concentrations of MMF metabolites (MPA 50% increase and MPAG about a three- to six-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 (