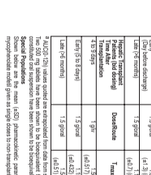
Front Side
770 x 420 (mm) - Total Size with 4 Medication Guides
210 x 232.5 (mm) - Size of each Medication Guide
Colour : Pantone Black
Date : 23/10/09

Mycophenolate Mofetil Capsules 250 mg
Mycophenolate Mofetil Tablets 500 mg
Rx only

Boxed Warning

Lymphoma and other malignancies: Patients receiving the drug should be monitored for the development of lymphomas and other malignancies, particularly of the skin. The potential risk should be considered before prescribing CellCept to patients with a history of malignancy. Increased susceptibility to infection and possible development of lymphoid malignancies may lead to increased susceptibility to infection and possible development of lymphoid malignancies when immunosuppressive therapy is administered, including exposure to CellCept. Avoid excessive exposure to sunlight and ultraviolet (UV) light. Patients receiving the drug should be protected from exposure to sunlight and should not receive PUVA or UVB light therapy without adequate protection. Warn patients to report immediately any evidence of bruising, infection, fever or other symptoms that may be due to immunosuppression. Also, the combined immunosuppressive effects of CellCept and antilymphocyte antibodies administered for prophylaxis or treatment of rejection episodes have been shown to increase the risk of infections, including opportunistic infections, sepsis and viral infections with potential outcomes of fatal hepatitis, leukopenia and hemophagocytic syndrome. Cases of progressive multifocal leukoencephalopathy (PML), sometimes fatal, have been reported in patients treated with CellCept. The most common serious infections observed were sepsis, opportunistic infections and hepatitis. Mortality in the CellCept-treated patients was also higher than in patients receiving Azathioprine. Pediatric patients may be at increased risk for opportunistic infections, including development of lymphoma, and the risk should be considered before administration of any immunosuppressive regimen to these patients. Lymphoproliferative disease or lymphoma developed in patients receiving immunosuppressants, including CellCept. Patients receiving immunosuppressants, including CellCept, are at increased risk for developing lymphomas, other malignancies, particularly of the skin (see **ADVERSE REACTIONS**). The risk appears to be related to the intensity and duration of immunosuppression rather than to the use of any specific agent. Because of the potential for fetal harm, two forms of contraception should be used by female patients and female partners of male patients during CellCept therapy and for six weeks after stopping CellCept therapy, unless abstinence is the chosen method of contraception. Additional forms of contraception may be necessary to counsel effectively female patients who become pregnant while taking CellCept. Patients should be informed of the potential risks and benefits of CellCept if alternative immunosuppressive therapy is being considered during pregnancy. CellCept should be prescribed during pregnancy only if the potential benefit justifies the potential risk to the fetus. Women using mycophenolate mofetil are strongly encouraged to enroll in the pregnancy registry. Physicians should encourage their female patients to enroll in the registry. Enrollment can occur by telephone by calling the toll-free number 1-800-617-8191. Enrollment can occur by the patient herself or by her physician or other health care provider. Information should be provided to patients who develop evidence of fetal exposure to CellCept during pregnancy.

DESCRIPTION
Mycophenolate mofetil is the morpholinoethyl ester of mycophenolic acid (MPA), an immunosuppressive agent. Mycophenolate mofetil is chemically described as 2-morpholinoethyl (E)-6-(1,3-dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methylhex-4-enoate. It has an empirical formula of $C_{23}H_{31}NO_7$, a molecular weight of 433.50, and the following chemical structure:



Mycophenolate mofetil is a white to off-white powder that is slightly soluble in water (50 µg/mL at pH 7.4) the solubility increases in acidic medium (4.27 mg/mL at pH 1.8). It is freely soluble in acetone, soluble in methanol, and sparingly soluble in anhydrous ethanol. Mycophenolate mofetil is supplied as capsules containing 250 mg of mycophenolate mofetil, tablets containing 500 mg of mycophenolate mofetil.
Inactive ingredients in the capsules are croscarmellose sodium, povidone, magnesium stearate, pregelatinized starch (corn), and talc. Inactive ingredients in the tablets are croscarmellose sodium, povidone, magnesium stearate, silicon dioxide, and yellow iron oxide. Each 250 mg capsule shell contains gelatin, titanium dioxide, and yellow iron oxide. Each 500 mg film-coated tablet contains FD&C blue #2 aluminum lake, hydroxypropyl cellulose, hypromellose, magnesium stearate, polyethylene glycol, polysorbate 80, pregelatinized starch (corn), talc, titanium dioxide, and yellow iron oxide.

CLINICAL PHARMACOLOGY
Mycophenolate mofetil has been demonstrated to suppress some humoral immune responses and to prolong the survival of allogeneic tissue and organ transplants in animals. Mycophenolate mofetil inhibits the de novo pathway of synthesis of guanosine nucleotides without incorporation into DNA. Because T- and B-lymphocytes are dependent for proliferation on de novo pathways for nucleotide synthesis, whereas other cell types can utilize salvage pathways, mycophenolate mofetil has more potent cytostatic effects on lymphocytes than on other cells. In addition, activation of guanosine or deoxyguanosine reverses the cytostatic effects of MPA on lymphocytes. MPA inhibits proliferative responses of both T- and B-lymphocytes to activation by mitogenic or allogeneic stimulation. MPA also suppresses antibody formation by B-lymphocytes. Mycophenolate mofetil prevents the glycosylation of lymphocyte and monocyte glycoproteins binding to endothelial cells. In animal models, mycophenolate mofetil inhibits cell-mediated inflammatory responses in animal models and to inhibit tumor development and metastasis in certain tumor models.
Mycophenolate mofetil is rapidly absorbed following oral administration and undergoes complete metabolism to MPA, which is the active immunosuppressant. Following oral administration of mycophenolate mofetil, no unchanged mycophenolate mofetil is detected in urine. The pharmacokinetics of MPA have been characterized following intravenous administration of mycophenolate mofetil and following oral administration of mycophenolate mofetil. The bioavailability of MPA has not been studied following administration of mycophenolate mofetil by other routes of administration.
Pharmacokinetics in Healthy Volunteers, Renal Cardiac, and Hepatic Transplant Patients
Pharmacokinetic parameters for MPA following single dose administration of mycophenolate mofetil to healthy volunteers are presented in Table 1. Pharmacokinetic parameters following multiple dosing of mycophenolate mofetil to healthy volunteers are presented in Table 2. Pharmacokinetic parameters following multiple dosing of mycophenolate mofetil to renal transplant patients receiving multiple doses of mycophenolate mofetil are presented in Table 3. Pharmacokinetic parameters following multiple dosing of mycophenolate mofetil to hepatic transplant patients receiving multiple doses of mycophenolate mofetil are presented in Table 4. Pharmacokinetic parameters following multiple dosing of mycophenolate mofetil to cardiac transplant patients receiving multiple doses of mycophenolate mofetil are presented in Table 5.
Following oral and intravenous dosing, mycophenolate mofetil undergoes complete metabolism to MPA, the active immunosuppressant. Following administration of mycophenolate mofetil to healthy volunteers, the mean absolute bioavailability of MPA, based on AUC, was 94%. Based on the recovery of MPA following intravenous administration of mycophenolate mofetil, the apparent oral clearance of MPA is calculated to be 193 mL/min. Following oral administration of mycophenolate mofetil, no unchanged mycophenolate mofetil is detected in urine. The terminal half-life of MPA is approximately 17.9 hours. However, MPA $t_{1/2}$ was decreased to 6–8 h in the presence of oral (see **DOSAGE AND ADMINISTRATION**).
Pharmacokinetics in Pediatric Renal Transplant Patients
Following oral and intravenous dosing, mycophenolate mofetil undergoes complete metabolism to MPA, the active immunosuppressant. The pharmacokinetics of MPA following administration of mycophenolate mofetil oral suspension and intravenous solution were evaluated in 49 pediatric patients (3 months to 18 years of age) receiving allogeneic renal transplants. Patients were administered mycophenolate mofetil oral suspension (n=24) or intravenous solution (n=25) twice daily at approximately 600 mg/m²/dose (dose not to exceed 1 g per dose). Blood samples were collected predose and at 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, and 12 hours post-dose on day 1 and day 5 of the study. Mean MPA AUC and C_{max} values were similar on day 1 and day 5 of the study. Mean MPA AUC and C_{max} values were similar following administration of mycophenolate mofetil oral suspension and intravenous solution. Pharmacokinetic parameters following administration of mycophenolate mofetil oral suspension and intravenous solution are presented in Table 6.
Pharmacokinetics in Pediatric Patients with Stable Renal Transplants
The pharmacokinetics of MPA following administration of mycophenolate mofetil oral suspension were evaluated in 26 pediatric patients (3 months to 18 years of age) with stable renal transplants. Patients were administered mycophenolate mofetil oral suspension twice daily at approximately 600 mg/m²/dose (dose not to exceed 1 g per dose). Blood samples were collected predose and at 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, and 12 hours post-dose on day 1 and day 5 of the study. Mean MPA AUC and C_{max} values were similar on day 1 and day 5 of the study. Pharmacokinetic parameters following administration of mycophenolate mofetil oral suspension are presented in Table 7.
Pharmacokinetics in Elderly Patients
Following oral administration of mycophenolate mofetil, the mean apparent oral clearance of MPA was decreased by approximately 20% in elderly patients (65–74 years old, n=9) compared to healthy subjects (18–40 years old, n=10). However, there was no apparent correlation between age and MPA clearance within the elderly subject group. Systemic exposure (AUC) to MPA was similar between elderly and young subjects following multiple oral dosing. Therefore, no dosage adjustment is necessary for elderly patients (see **DOSAGE AND ADMINISTRATION**).
Pharmacokinetics in Patients with Renal Impairment
Following single dose administration of mycophenolate mofetil to subjects with renal impairment (GFR <25 ml/min/1.73m²) the apparent oral clearance of MPA was decreased relative to healthy subjects or to patients with less severe renal impairment (GFR >25 ml/min/1.73m²) (see **CLINICAL PHARMACOLOGY Special Populations**). Similar findings were observed following multiple dosing of mycophenolate mofetil. Systemic exposure (AUC) to MPA following single dose administration of mycophenolate mofetil to subjects with severe chronic renal impairment (GFR <25 ml/min/1.73m²) was 28–75% greater than in healthy subjects or patients with less severe renal impairment. However, following multiple dosing of mycophenolate mofetil, systemic exposure to MPA in subjects with severe chronic renal impairment was similar to that observed in healthy subjects (see **DOSAGE AND ADMINISTRATION**).
Pharmacokinetics in Patients with Delayed Graft Function Following Renal Transplantation
In renal transplant patients who require dialysis post-transplant, mean MPA AUC (0-12h) was comparable, but MPA C_{max} was approximately 40% higher than in renal transplant patients with immediate graft function. The pharmacokinetics of MPA in patients with delayed renal graft function have a higher incidence of cardiac adverse events.

Table 1 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 2 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 3 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 4 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 5 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 6 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 7 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 8 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 9 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 10 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 11 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

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Table 12 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 13 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
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		Late	0.599 (0.511)	8.74 (2.96)
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		Late	0.378 (0.242)	6.13 (2.47)
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		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
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		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 14 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early	1.16 (0.826)	11.7 (10.2)
		Late	0.378 (0.242)	6.13 (2.47)
12 to <17 yr	(14)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
17 to <21 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
21 to <65 yr	(10)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
65 to 74 yr	(1)	Early	0.904 (0.236)	9.55 (1.19)
		Late	0.378 (0.242)	6.13 (2.47)
Adults	(Mean 9)	Early	1.39 (0.918)	14.2 (7.26)
		Late	0.582 (0.384)	9.42 (3.04)
Adults	(Mean 9)	Early	1.81 (1.26)	18.5 (11.2)
		Late	0.757 (0.499)	12.2 (3.95)

* Normalized to 1 g BID dose
† Number of patients with evaluable data

Table 15 Mean (SD) Compound Pharmacokinetic Parameters for MPA by Age and Time After Allogeneic Bone Marrow Transplantation

Age Group	(n)	Time	Dose Adjusted *	Dose Adjusted *
			C_{max} (µg/mL)	AUC (µg•h/mL)
1 to <2 yr	(6)†	Early	3.01 (4.70)	23.1 (36.1)
		Late	0.604 (0.208)	9.55 (1.19)
2 to <6 yr	(10)	Early	1.63 (2.69)	13.2 (7.16)
		Late	0.599 (0.511)	8.74 (2.96)
6 to <12 yr	(20)	Early

Back Side
770 x 420 (mm) - Total Size with 4 Medication Guides
210 x 232.5 (mm) - Size of each Medication Guide

Colour : Pantone Black

Date : 23/10/09

- sevelamer (Renagel®, Renvela®). These products should be taken 2 hours after
- acyclovir (Zovirax®), valacyclovir (Valtrex®), ganciclovir (Cytovene®-IV, Vitrasert®),
- valganciclovir, (Valcyte®)
- rifampin (Rifater®, Rifamate®, Rimactane®, Rifadin®)
- sulfamethoxazole/trimethoprim (Bactrim™, Bactrim DS™)
- norfloxacin (Noroxin®) and metronidazole (Flagyl®, Flagyl® ER, Flagyl® IV, Metro IV,
- ciprofloxacin (Cipro®, Cipro® XR, Ciloxan®, Proquin® XR) and amoxicillin plus
- clavulanic acid (Augmentin®, Augmentin XR™)
- azathioprine (Azasan®, Imuran®)
- cholestyramine (Questran Light®, Questran®, Lochol est Light, Lochol est, Prevalite®)

Know the medicines you take. Keep a list of them to show to your healthcare provider and pharmacist when you get a new medicine. Do not take any new medicine without talking with your healthcare provider.

How should I take mycophenolate mofetil capsules and tablets?

- If you miss a dose of mycophenolate mofetil, or are not sure when you took your last dose, take the regular amount of mycophenolate mofetil prescribed as soon as you remember. If it is time for your next dose, skip the missed dose. Do not take 2 doses at the same time. Call your healthcare provider if you are not sure what to do
- Take mycophenolate mofetil capsules, tablets and oral suspension on an empty stomach either 1 hour before or 2 hours after a meal, unless your healthcare provider tells you to do something different. Mycophenolate mofetil can be taken with food if necessary
- Most people take mycophenolate mofetil by mouth either as light blue and peach capsules or purple tablets. Some people may get mycophenolate mofetil soon after a transplant.
- Do not crush mycophenolate mofetil tablets. Do not open or crush mycophenolate mofetil capsules
- If you are not able to swallow mycophenolate mofetil tablets or capsules, your healthcare provider may prescribe mycophenolate mofetil oral suspension. This is a liquid form of mycophenolate mofetil. Your pharmacist will mix the medicine before giving it to you
- Do not mix mycophenolate mofetil oral suspension with any other medicine
- If you take too much mycophenolate mofetil, call your healthcare provider or the nearest hospital emergency room right away

What should I avoid while taking mycophenolate mofetil capsules and tablets?

- **Avoid pregnancy.** See **"What is the most important information I should know about mycophenolate mofetil capsules and tablets?"**
- **Limit the amount of time you spend in sunlight.** Avoid using tanning beds or sunlamps. People who take mycophenolate mofetil have a higher risk of getting skin cancer. (See **"What is the most important information I should know about mycophenolate mofetil capsules and tablets?"**) Wear protective clothing when you are in the sun and use a sunscreen with a high protection factor (SPF 30 and above).
- **Low blood cell counts.** People taking high doses of mycophenolate mofetil 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 3 months 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 healthcare provider will do blood tests before you start taking mycophenolate mofetil and during treatment with mycophenolate mofetil to check your blood cell counts. Tell your healthcare provider right away if you have any signs of infection (see **"What is the most important information I should know about mycophenolate mofetil capsules and tablets?"**) Wear protective clothing when you are in the sun and use a sunscreen with a high protection factor (SPF 30 and above). Tell your healthcare provider right away if you have unusual tiredness, lack of energy, dizziness or fainting.

- **Stomach problems.** Stomach and intestinal bleeding can happen in people who take high doses of mycophenolate mofetil. Bleeding can be severe and you may have to be hospitalized.

Common side effects include:

- diarrhea. Call your healthcare provider right away if you have diarrhea. Do not stop taking mycophenolate mofetil without first talking with your healthcare provider.
- vomiting
- pain
- stomach area pain

Side effects that happen more often in children than in adults taking mycophenolate mofetil capsules and tablets:

- sore throat
- colds (respiratory tract infections)
- high blood pressure
- low white blood cell count
- low red blood cell count
- fever
- infection
- pain
- blood infection (sepsis)
- dizziness
- vomiting
- nausea
- stomach area pain
- rash

These are not all of the possible side effects of mycophenolate mofetil. Tell your healthcare provider 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 the FDA at 1-800-FDA-1088.

How should I store mycophenolate mofetil capsules and tablets?

- Store mycophenolate mofetil capsules and tablets at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F). Keep the container closed tightly.

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

General Information about mycophenolate mofetil capsules and tablets

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

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

What are the ingredients in mycophenolate mofetil capsules and tablets?

Active ingredient: mycophenolate mofetil

Inactive ingredients

Mycophenolate mofetil capsules 250 mg: croscarmellose sodium, magnesium stearate, povidone (K-90), microcrystalline cellulose, hydroxypropyl cellulose and talc. The capsule shells contain FeErite® SW-3008 black ink, FD&C blue #2, gelatin, red iron oxide, sodium lauryl sulfate, titanium dioxide, and yellow iron oxide.

Mycophenolate mofetil capsules 500 mg: croscarmellose sodium, FD&C blue #2 aluminum lake, hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol 400, povidone (K-30), iron oxide red, talc, and titanium dioxide.

Mycophenolate mofetil tablets 500 mg: croscarmellose sodium, FD&C blue #2 aluminum lake, hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol 400, povidone (K-30), iron oxide red, talc, and titanium dioxide.

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1009, Slater Road,
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NC 27703, USA.

Manufactured For:
Intas Pharmaceuticals Limited.
Plot No.: 457-458, Village-Matoda,
Bavla Road, Ta.-Sanand,
Dist.: Ahmedabad-382 210, India.

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Issued November, 2009.

- sevelamer (Renagel®, Renvela®). These products should be taken 2 hours after
- acyclovir (Zovirax®), valacyclovir (Valtrex®), ganciclovir (Cytovene®-IV, Vitrasert®),
- valganciclovir, (Valcyte®)
- rifampin (Rifater®, Rifamate®, Rimactane®, Rifadin®)
- sulfamethoxazole/trimethoprim (Bactrim™, Bactrim DS™)
- norfloxacin (Noroxin®) and metronidazole (Flagyl®, Flagyl® ER, Flagyl® IV, Metro IV,
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- Do not crush mycophenolate mofetil tablets. Do not open or crush mycophenolate mofetil capsules
- If you are not able to swallow mycophenolate mofetil tablets or capsules, your healthcare provider may prescribe mycophenolate mofetil oral suspension. This is a liquid form of mycophenolate mofetil. Your pharmacist will mix the medicine before giving it to you
- Do not mix mycophenolate mofetil oral suspension with any other medicine
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- valganciclovir, (Valcyte®)
- rifampin (Rifater®, Rifamate®, Rimactane®, Rifadin®)
- sulfamethoxazole/trimethoprim (Bactrim™, Bactrim DS™)
- norfloxacin (Noroxin®) and metronidazole (Flagyl®, Flagyl® ER, Flagyl® IV, Metro IV,
- ciprofloxacin (Cipro®, Cipro® XR, Ciloxan®, Proquin® XR) and amoxicillin plus
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- Do not crush mycophenolate mofetil tablets. Do not open or crush mycophenolate mofetil capsules
- If you are not able to swallow mycophenolate mofetil tablets or capsules, your healthcare provider may prescribe mycophenolate mofetil oral suspension. This is a liquid form of mycophenolate mofetil. Your pharmacist will mix the medicine before giving it to you
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- **Low blood cell counts.** People taking high doses of mycophenolate mofetil 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 3 months 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 healthcare provider will do blood tests before you start taking mycophenolate mofetil and during treatment with mycophenolate mofetil to check your blood cell counts. Tell your healthcare provider right away if you have any signs of infection (see **"What is the most important information I should know about mycophenolate mofetil capsules and tablets?"**) Wear protective clothing when you are in the sun and use a sunscreen with a high protection factor (SPF 30 and above). Tell your healthcare provider right away if you have unusual tiredness, lack of energy, dizziness or fainting.

- **Stomach problems.** Stomach and intestinal bleeding can happen in people who take high doses of mycophenolate mofetil. Bleeding can be severe and you may have to be hospitalized.

Common side effects include:

- diarrhea. Call your healthcare provider right away if you have diarrhea. Do not stop taking mycophenolate mofetil without first talking with your healthcare provider.
- vomiting
- pain
- stomach area pain

Side effects that happen more often in children than in adults taking mycophenolate mofetil capsules and tablets:

- sore throat
- colds (respiratory tract infections)
- high blood pressure
- low white blood cell count
- low red blood cell count
- fever
- infection
- pain
- blood infection (sepsis)
- dizziness
- vomiting
- nausea
- stomach area pain
- rash

These are not all of the possible side effects of mycophenolate mofetil. Tell your healthcare provider 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 the FDA at 1-800-FDA-1088.

How should I store mycophenolate mofetil capsules and tablets?

- Store mycophenolate mofetil capsules and tablets at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F). Keep the container closed tightly.

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

General Information about mycophenolate mofetil capsules and tablets

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

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

What are the ingredients in mycophenolate mofetil capsules and tablets?

Active ingredient: mycophenolate mofetil

Inactive ingredients

Mycophenolate mofetil capsules 250 mg: croscarmellose sodium, magnesium stearate, povidone (K-90), microcrystalline cellulose, hydroxypropyl cellulose and talc. The capsule shells contain FeErite® SW-3008 black ink, FD&C blue #2, gelatin, red iron oxide, sodium lauryl sulfate, titanium dioxide, and yellow iron oxide.

Mycophenolate mofetil capsules 500 mg: croscarmellose sodium, FD&C blue #2 aluminum lake, hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol 400, povidone (K-30), iron oxide red, talc, and titanium dioxide.

Mycophenolate mofetil tablets 500 mg: croscarmellose sodium, FD&C blue #2 aluminum lake, hydroxypropyl cellulose, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol 400, povidone (K-30), iron oxide red, talc, and titanium dioxide.

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

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(anemia), thrombocytopenia), leukopenia), neutropenia), pancytopenia), bone marrow depression), diarrhea), vomiting), nausea), abdominal pain), constipation), stomatitis), ulcerative), colitis), hemorrhage), gastrointestinal), hemorrhage), infection), sepsis), opportunistic), infection), fever), headache), dizziness), tremor), paresthesia), hypotonia), somnolence), insomnia), confusion), depression), anxiety), abnormal), thinking), hallucinations), psychosis), agitation), tachycardia), vasodilation), hypotension), postural), hypotension), dyspnea), pleural), effusion), pulmonary), edema), respiratory), disorder), rash), pruritus), alopecia), acne), hypertrophy), hirsutism), asthenia), malaise), pain), chest), pain), peripheral), edema), hypertension), hypercholesterolemia), hyperglycemia), hypokalemia), hypomagnesemia), hypophosphatemia), hypocalcemia), hypocholesterolemia), hypercalcemia), hyperkalemia), hyperuricemia), hypomagnesemia), hypophosphatemia), hypocalcemia), hypocholesterolemia), hypercalcemia), hyperkalemia), hyperuricemia), metabolic), acidosis), alkalosis), hypoglycemia), hyperglycemia), diabetes), mellitus), exacerbation), of), diabetes), mellitus), hypertonia), increased), lactate), dehydrogenase), increased), blood), urea), increased), blood), creatinine), increased), weight), decreased), weight), arthralgia), myalgia), back), pain), pain), abdominal), pain), upper), pain), lower), urinary), tract), infection), hematuria), proteinuria), urinary), abnormality), kidney), failure), acute), renal), failure), chronic), renal), failure), renal), tubular), necrosis), renal), tubular), disorder), renal), disorder), urinary), retention), urinary), frequency), urinary), incontinence), urinary), tract), disorder), hydronephrosis), renal), pain), dysuria), pyelonephritis), renal), cyst), renal), calculus), renal), colic), renal), impairment