

**MYFORTIC® 180/360 MG**

**Composition**  
Active substance  
Mycophenolic acid (as mycophenolate sodium)

Excipients  
Maize starch; povidone (K-30); croscopolone; lactose; col-loidal silicon dioxide; magnesium stearate.  
The gastro resistant tablet coating of Myfortic 180 mg consists of hypromellose phthalate/ hydroxypropylmethyl-cellulose phthalate; titanium dioxide; iron oxide yellow; indigotin.  
The gastro resistant tablet coating of Myfortic 360 mg consists of hypromellose phthalate/ hydroxypropylmethyl-cellulose phthalate; titanium dioxide; iron oxide yellow; iron oxide red.  
Information might differ in some countries.

**Pharmaceutical form and quantity of active substance per unit**  
Gastro-resistant film-coated tablets containing 180 mg (light green, round, imprinted "C") or 360 mg (orange, oval, imprinted "CT") mycophenolic acid, equivalent to 192.4 mg and 384.4 mg mycophenolate sodium.

**Indications / Potential uses**  
Myfortic is indicated in combination with ciclosporin and corticosteroids for the prophylaxis of acute transplant rejection in adult patients receiving allogeneic renal transplants.

**Dosage / Administration**  
*Usual dosage instructions*  
Treatment with Myfortic must be initiated and maintained by transplant specialists.  
Myfortic therapy should be initiated within 48 hours following transplantation. The recommended dose is 720 mg (light green) daily (total daily dose: 1440 mg).  
Myfortic can be taken with or without food. The film-coated tablets should not be crushed, in order to retain the integrity of the enteric coating.

*Special dosage instructions*  
**Children and adolescents**  
The safety and efficacy of Myfortic have not been investigated in children and adolescents. For this reason, its use in children and adolescents cannot be recommended.

*Elderly patients*  
No dose adjustment is required in this patient population.

*Renal impairment*  
No dose adjustments are needed in patients experiencing delayed renal graft function postoperatively. Patients with severe chronic renal impairment (creatinine clearance <10 mL/minute) should be carefully monitored.

*Hepatic impairment*  
No dose adjustments are needed in renal transplant patients with severe hepatic parenchymal disease.

**Contraindications**  
Hypersensitivity to mycophenolate sodium, mycophenolate mofetil, lactose, galactose or to any of the excipients.  
Pregnancy and breast-feeding.

**Warnings and precautions**  
Patients with rare hereditary deficiency of hypoxanthine-guanine phosphoribosyl-transferase (HGPRT) Myfortic is an IMPDH (inosine monophosphate dehydrogenase) inhibitor. It should therefore not be used in patients with hypoxanthine-guanine phosphoribosyl-transferase (HGPRT) deficiency, as is seen in the rare Lesch-Nyhan and Kelley-Seegmiller syndromes.

*Women of child-bearing potential, pregnancy and breast-feeding*  
Use of Myfortic is associated with an increased risk of congenital malformations. Myfortic therapy must not be initiated in women of child-bearing potential until a negative pregnancy test has been obtained (see "Pregnancy / Lactation").

*Malignancies*  
Patients being treated with immunosuppressive substances (including Myfortic) over long periods of time, especially at high doses, are at increased risk of developing lymphomas or other malignancies, particularly of the skin (see "Adverse effects"). For Myfortic, there is additional evidence of a genotoxic effect (see "Preclinical data"). Generally, to reduce the risk of skin cancer, exposure to sunlight and UV light should be limited as much as possible by wearing protective clothing and using a sunscreen with a high protection factor.

*Infections*  
Severe suppression of the immune system increases susceptibility to infection, including opportunistic infections, fatal infections and sepsis (see "Adverse effects").  
Cases of progressive multifocal leukoencephalopathy (PML), sometimes fatal, have been reported in patients treated with mycophenolic acid (MPA) derivatives. These include mycophenolate mofetil (MMF, CellCept®) and mycophenolate sodium (Myfortic), see "Adverse effects".  
Progressive multifocal leukoencephalopathy is an opportunistic infection of the CNS caused by the JC virus. The underlying disease, concurrent use of other immunosuppressants and the long latency period of encephalopathy make it difficult to assess the causal association, but a possible involvement of mycophenolic acid in the pathogenesis of this condition cannot be ruled out. In immunosuppressed patients with neurological symptoms, physicians should consider progressive multifocal leukoencephalopathy in the differential diagnosis.  
Polyomavirus-associated nephropathy (PVAN), especially due to BK virus infection, should be included in the differential diagnosis of immunosuppressed patients with deteriorating renal function (see "Adverse effects").

*Vaccinations*  
Patients should be advised that during treatment with MPA, vaccinations may be less effective and the use of live attenuated vaccines should be avoided. Influenza vaccination may be of value. Prescribers should follow national guidelines for influenza vaccination.

*Gastrointestinal disorders*  
As MPA has been associated with adverse effects on the gastrointestinal system, including rare cases of peptic ulcer, haemorrhage and perforation, Myfortic should be administered with caution in patients with severe, active gastrointestinal disease.

of Myfortic and must therefore be accompanied by close monitoring of MPA levels. No studies with antibiotics have been performed.

*Tacrolimus*: In a crossover study in maintenance renal transplant patients, the steady-state pharmacokinetics of MPA and MPAG (mycophenolic acid glucuronide) were measured during both ciclosporin and tacrolimus treatment. The mean AUC of MPA was 19% higher and C<sub>min</sub> about 20% lower on tacrolimus treatment compared to ciclosporin treatment. The mean AUC and C<sub>min</sub> of MPAG were about 30% lower on tacrolimus treatment compared to ciclosporin treatment. MPA levels should be monitored and the dose of Myfortic adjusted if necessary when switching from the combination of ciclosporin and Myfortic to tacrolimus and Myfortic (see "Warnings and precautions").

*Ciclosporin A*: The pharmacokinetics of ciclosporin for microemulsion are unaffected by steady-state dosing of Myfortic.

*Effect of other agents on the drug*  
*Aciclovir* and other drugs subject to active tubular secretion may compete with MPAG for tubular secretion. Patients receiving such combinations should be carefully monitored.  
*Ganciclovir*: MPA and MPAG pharmacokinetics are unaffected by concomitant administration of ganciclovir. Therapeutic MPA plasma concentrations do not have an effect on the clearance of ganciclovir. However, in patients with renal impairment in whom Myfortic and ganciclovir are co-administered, the dose recommendations for ganciclovir should be observed and patients monitored carefully.

*Oral contraceptives*: As the effect of Myfortic therapy on the pharmacokinetics of oral contraceptives is not known, it is possible that the efficacy of oral contraceptives may be adversely affected.

**Interactions**

*Effect of the drug on other agents*  
Myfortic has been administered in combination with the following agents in clinical trials: antithymocyte globulin, basiliximab, ciclosporin for microemulsion and corticosteroids. The efficacy and safety of Myfortic in combination with other immunosuppressive agents, such as azathioprine and tacrolimus, have not been studied. It is recommended not to administer Myfortic concomitantly with azathioprine because both drugs may cause bone marrow aplasia. For Tacrolimus, see "Interactions".

*Gastroprotective agents*  
*Antacids containing magnesium and aluminium hydroxide*  
Concomitant administration of Myfortic and antacids containing magnesium and aluminium hydroxide resulted in a 37% decrease in the AUC of MPA and a 25% decrease in peak concentrations of MPA. Concomitant administration of antacids (containing magnesium and aluminium hydroxide) should therefore be avoided.

*Proton-pump inhibitors*  
In healthy volunteers, no changes in the pharmacokinetics of MPA were observed following concomitant administration of Myfortic and pantoprazole (40 mg twice daily for the four preceding days).

*Colestyramine and other drugs that affect enterohepatic circulation*: Due to its capacity to block the primary absorption and enterohepatic circulation of drugs, colestyramine may decrease the bioavailability of MPA. Co-administration of colestyramine or other drugs that affect the enterohepatic circulation, e.g. antibiotics, may reduce the efficacy

serum or urine testing with a sensitivity of at least 50 mL/ml) within the week preceding the start of Myfortic therapy. The doctor should only initiate Myfortic therapy once a negative pregnancy test result is available.

*Effective contraception must be used before and during treatment, and for six weeks following discontinuation of Myfortic therapy, even in women with a history of infertility, unless this is due to hysterectomy or sterilization (bilateral tubal ligation). Two reliable forms of contraception must be used simultaneously, unless abstinence from sexual relations is the chosen method. Female patients should be instructed to consult their doctor immediately if they become pregnant. If a woman becomes pregnant during treatment, she and her doctor should discuss the desirability of continuing the pregnancy (see "Interactions"). Sexually active men are advised to use condoms during treatment and for a total of 13 weeks after their last dose of Myfortic. In addition, their female partners are advised to use a reliable method of contraception during treatment and for a total of 13 weeks after the last dose of Myfortic.*

*Lactation*  
It is not known whether MPA is excreted in human milk. Myfortic should not be used during breast-feeding (see "Warnings and precautions").

*Because many drugs are excreted in human milk and may give rise to serious adverse effects in breastfed newborns/infants, a decision should be made whether to abstain from breast-feeding while on treatment and during 6 months after stopping the therapy, or to abstain from using the drug, taking into account the necessity of treatment.*

*Neoplasms benign and malignant*  
*Uncommon*: Lymphoproliferative disorders.  
Isolated cases of skin papilloma, basal cell carcinoma, Kaposi's sarcoma and squamous cell carcinoma were reported.

*Blood and lymphatic system disorders*  
*Very common*: Leukopenia (19.2%).  
*Common*: Anaemia, thrombocytopenia.  
Isolated cases of lymphocele, lymphopenia and neutropenia were reported.

*Psychiatric disorders*  
Isolated cases of delusional perception were reported.

*Metabolism and nutrition disorders*  
*Uncommon*: Loss of appetite, hyperlipidaemia, hypophosphataemia.  
Isolated cases of diabetes mellitus and hypercholesterolaemia were reported.

*Nervous system disorders*  
*Common*: Headache.  
*Uncommon*: Tremor.  
An isolated case of insomnia was reported.

*Eye disorders*  
Isolated cases of conjunctivitis and blurred vision were reported.

*Cardiac disorders*  
*Uncommon*: Tachycardia.  
Isolated cases of pulmonary oedema and ventricular extrasystoles were reported.

*Respiratory disorders*  
*Common*: Cough.  
Isolated cases of pulmonary congestion and wheezing were reported.

*Gastrointestinal disorders*  
*Very common*: Diarrhoea (23.5%).  
*Common*: Abdominal distension, abdominal pain, constipa-

tion, dyspepsia, flatulence, gastritis, loose stools, nausea, vomiting.  
*Uncommon*: Abdominal tenderness, pancreatitis, eruption, gastrointestinal haemorrhage.  
Isolated cases of halitosis, reflux, oesophagitis, peptic ulcer, subileus, dry mouth, lip ulceration, parotid obstruction, gastro-oesophageal reflux disease, gingival hyperplasia and peritonitis were reported.

*Hepatobiliary disorders*  
*Common*: Hepatic function tests abnormal.  
*Skin and subcutaneous tissue disorders*  
*Uncommon*: Alopecia, contusion.  
*Rare*: Rash.

*Musculoskeletal disorders*  
*Uncommon*: Muscle cramps.  
Isolated cases of arthritis and back pain were reported.

*Renal and urinary disorders*  
*Common*: Increased blood creatinine.  
*Uncommon*: Urethral stricture.  
Isolated cases of haematuria and renal tubular necrosis were reported.

*General reactions*  
*Common*: Fatigue, pyrexia.  
*Uncommon*: Influenza-like illness, pain.  
Isolated cases of lower limb oedema, rigors and weakness were reported.

The following adverse effects have been associated with a class effect of mycophenolic acid derivatives:  
Colitis and oesophagitis (including CMV colitis and oesophagitis), CMV gastritis, pancreatitis, intestinal perforation, gastrointestinal haemorrhage, gastric ulcers, duodenal ulcers, ileus, severe and sometimes life-threatening infections including meningitis, infectious endocarditis, tuberculosis and atypical mycobacterial infection, polyomavirus-associated nephropathy (PVAN), especially due to BK virus infection, cases (sometimes fatal) of progressive multifocal leukoencephalopathy (PML), neutropenia, pancytopenia. Cases of pure red cell aplasia (PRCA) have been reported in patients treated with MPA derivatives in combination with other immunosuppressive agents (see "Warnings and precautions").

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*Overall safety*  
The following adverse effects were observed in two controlled clinical trials with Myfortic versus mycophenolate mofetil (randomized 1:1) in combination with ciclosporin for microemulsion and corticosteroids in 423 *de novo* transplant patients and 322 maintenance patients (those with > 6 months since transplantation). The incidence of adverse events was similar for both treatments in each population.

The most common adverse effects are leukopenia (19.2%) and diarrhoea (23.5%).  
Elderly patients are generally at increased risk of adverse effects due to immunosuppression.

**Malignancies**: Patients receiving immunosuppressive therapy with combinations of drugs, including MPA, are at increased risk of lymphoma and other malignancies, particularly of the skin (see "Warnings and precautions"). Lymphoproliferative disease or lymphoma were reported in 2 *de novo* transplant patients (0.9%) and in 2 maintenance patients (1.3%). Non-melanoma skin carcinomas occurred in 0.9% of *de novo* and 1.8% of maintenance patients. Other types of malignancy were reported in 0.5% of *de novo* and 0.6% of maintenance patients.

**Opportunistic infections**: All transplant patients are at increased risk of opportunistic infections. This risk rises as immunosuppression increases (see "Warnings and precautions"). In *de novo* renal transplant patients treated with Myfortic in combination with other immunosuppressants

in controlled studies, and followed up for one year, infections with CMV, candida and herpes simplex occurred most frequently. CMV infections (serology, viraemia or disease) were reported in 21.6% of *de novo* transplant patients and in 1.9% of maintenance patients.

*Adverse effects that may be related to Myfortic (reported in phase III trial)*  
Adverse effects suspected to be related to MPA, and reported in ≥10% or 1 to <10% of renal transplant patients who received Myfortic in combination with ciclosporin and corticosteroids in one of the controlled clinical trials, are listed below.

*Frequencies*:  
*Very common* (≥1/10); *common* (≥1/100 to <1/10); *uncommon* (≥1/1000 to <1/100); *rare* (≥1/10 000 to <1/1000); *very rare* (<1/10 000).

*Infections and infestations*  
*Very common*: Viral, bacterial and fungal infections (up to 22.1%), such as urinary tract infection, herpes zoster infection, oral candidiasis, sinusitis, gastroenteritis, herpes simplex infection, nasopharyngitis.  
*Common*: Upper respiratory tract infections, pneumonia.  
*Uncommon*: Wound infection.  
Isolated cases of sepsis and osteomyelitis were reported.

*Neoplasms benign and malignant*  
*Uncommon*: Lymphoproliferative disorders.  
Isolated cases of skin papilloma, basal cell carcinoma, Kaposi's sarcoma and squamous cell carcinoma were reported.

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*Uncommon*: Loss of appetite, hyperlipidaemia, hypophosphataemia.  
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An isolated case of insomnia was reported.

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*Lactation*  
It is not known whether MPA is excreted in human milk. Myfortic should not be used during breast-feeding (see "Warnings and precautions").

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