FRONT

Mofecon™

DESCRIPTION

Mofecon[™] 250: White to off white granular powder filled in size '1' hard gelatin capsule with opaque blue cap imprinted 'C3 250' and opaque brown body.

Mofecon¹¹⁴ 500: Lavender-colored, caplet-shaped, film-coated tablet, debossed with "C4" on one side and plain on the other side.

COMPOSITION Mofecon™ 250: each capsule contains mycophenolate Morecon¹⁴ 250: each capsule contains mycophenolate mofetil 250 mg. *Excipients:* Microcrystalline cellulose, hydroxypropyl cellulose, povidone, croscarmellose sodium, talc, magnesium stearate. Mofecon[™] 500: Each tablet contains mycophenolate mofetil

500 mg Excipie 500 mg. Excipients: Microcrystalline cellulose, croscarmellose sodium, povidone, magnesium stearate, hypromellose, titanium dioxide, polyethylene glycol, iron oxide red, indigo carmine aluminium lake, black iron oxide.

Capsule shell (FD & C Blue 2, titanium dioxide, iron oxide red iron oxide yellow, gelatin, water, SLS (sodium lauryl sulphate)).

PHARMACODYNAMICS

PHARMACODYNAMICS Mycophenolate mofetil is an immunosuppressive agents. Mycophenolate mofetil is the 2-morpholinoethyl ester of MPA. MPA is a potent, selective, uncompetitive and reversible inhibitor of inosine monophosphate dehydrogenase, and therefore inhibits the *de novo* pattway of guanosine nucleotide synthesis without incorporation into DNA. Because 7 - and B-lymphocytes are critically dependent for their proliferation on *de novo* synthesis of purines whereas other cell byses can utilise salvage pathways. MPA has more potent cytostatic effects on lymphocytes than on other cells.

PHARMACOKINETICS The pharmacokinetics of MMF have been studied in renal, cardiac and hepatic transplant patients. In general, the pharmacokinetic profile of MPA is similar in renal and in cardiac transplant patients. In the early transplant period, hepatic transplant patients receiving a 1.5g oral MMF dose or 1g i.v. MMF dose have similar MPA levels compared to renal transplant patients receiving 1g cord or i.v. MMF.

dose or 1g i.v. MMF dose have similar MPA levels compared to renal transplant patients receiving 1g oral or i.v. MMF. **Absorption** Following oral and intravenous administration, mycophenolate moletil undergoes rapid and extensive absorption and complete pre-systemic metabolism to the active metabolism. MPA, The mean bloavalability of oral mycophenolate moletil moletil. Mycophenolate mofetil, can be measured systemically body the limit of quantification (0.4 mg/mL). Immediately moder in the systemic administration in the beau ransplant period (30 days), renal, cardiac and hepatic transplant period (30 days), transl, cardiac and hepatic transplant period (36 months post-transplant). MPA AUCs opati-transplant period (36 months post-transplant). MPA AUC values obtained following administration of 1g twice daily intravenous mycophenolate mofetil at the recommended post-transplant period (30 months post-transplant). MPA AUC values obtained following administration of 1g twice daily intravenous mycophenolate mofetil at the recommended post-transplant platens administration to the tate transplant patients administration to the set of a days and dosing. In hepatic transplant patients, administration of 1g twice daily. Oral mycophenolate mofetil resulted in MPA AUC values similar to those found in renal transplant platents administred 1g mycophenolate mofetil transplant platents administred at dasorption (MPA AUC) of mycophenolate mofetil at the set of absorption (MPA AUC) of mycophenolate mofetil mediate mofetil twice daily. Food had no effect on the extent of absorption (MPA AUC) of mycophenolate mofetil at the set of absorption (MPA AUC) of mycophenolate mofetil at the set of two Case was decreased by 40% in the presence of food. **Distribution**

Distribution Secondary increases in plasma MPA concentrations are usually observed at approximately 6-12 hours post-dose, consistent with enterohepatic recirculation. A reduction of approximately 40% in the AUC of MPA is associated with co-administration of cholestyramine (4 g three times daily), consistent with interruption of enterohepatic recirculation. At clinically relevant concentrations, MPA is 97% bound to plasma albumin.

Metabolism MPA is metabolized principally by glucuronyl transferase (isoforn UGT1A9) to form the inactive phenolic glucoronide of MPA (MPAG). In vivo, MPAG is converted back to free MPA via enterohepatic recirculation. A minor acytglucuronide (AcMPAG) is also formed. AcMPAG is pharmacologically active and is suspected to be responsible for some of MMF's side effects (diarrhoea, leucopenia).

Elimination Oral adminis

Elimination Oral administration of radio-labelled mycophenolate mofetil resulted in complete recovery of the administered dose, with 93% of the administered dose recovered in the urine and 6% recovered in the feces. Most (About 87%) of the administered dose is excreted in the urine as MPAG. A negligible amount of trug (<1% of dose) is excreted as MPA in the urine. At clinically encountered concentrations, MPA and MPAG oncentrations (>100µg/mL), small amounts of MPAG concentrations (>100µg/mL), small amounts of MPAG and sequestrants, such as cholestyramine, reduce MPA AUC. (MPAS disposition depends on several (CATPS) and multidrug resistance-associated protein 1 (MPP2) and multidrug resistance-associated protein 2 excretion. Multidrug resistance protein 1 (MDR1) is also able to transport MPA, but its contribution seems to be confined to the absorption process. In the kidney MPA and its metabolites potently interact with renal organic anion transporters. Pharmacokinetics in special populations

Pharmacokinetics in special populations Patients with severe renal impairment In a single-dose study (6 subjects per group), mean plasma MPA AUCs observed atter oral dosing in subjects with severe chronic renal impairment (glomerular filtration rate <25 mL/min1.73m2) were 28-75% higher than those <25 mL/min1.73m2) were 28-75% higher than those observed in normal healthy subjects or with lesser degrees of renal impairment. However, the mean single-dose MPAG AUC was 3- to 6-fold higher in subjects with severe renal impairment than in subjects with mild renal impairment or normal healthy subjects, consistent with the known renal elimination of MPAG. Multiple dosing of mycophenolate mofell in patients with severe chronic renal impairment has sofell in patients with severe chronic renal impairment has not been studied

prophylaxis of acute organ rejection and increased graft and patient survival in patients receiving allogeneic cardiac transplants. prophylaxis of acute organ rejection in patients receiving allogeneic hepatic transplants.

Mofecon should be used concomitantly with cyclosporin and

CONTRAINDICATIONS

- Molecon should not be given to:
 Patients with hypersensitivity to mycophenolate mofetil,
 mycophenolic acid or to any of the excipients shown above.
 Women of childbearing potential who are not using highly
 effective contraception.
 Women of child bearing potential without providing a
 pregnancy test result to rule out unintended use in
 pregnancy.
 During pregnancy due to its mutagenic and teratogenic
 potential.

- Women who are breastfeeding.

WARNING AND PRECAUTIONS

WARNING AND PHECAUTIONS Neoplasm Patients receiving immunosuppressive regimens involving combinations of medicinal products, including mycophenolate mofetil, are at increased risk of developing lymphomas and other malignancies, particularly of the skin. As general advice to minimise the risk for skin cancer, exposure to sunlight and UV light should be limited by wearing protective clothing and using a sunscreen with a high protection factor.

UV light should be limited by wearing protective clothing and using a surscreen with a high protection factor. **Intection** Oversuppression of the immune system can also increase susceptibility to indection including opportunistic infections, tatal infectionation, such as by spotialitie 8 or longattis C reactivation or reactivation of hegatitis B or hepatitis C have been reported in munosuppression. Lexikoencephalopathy (PML) associated with the JC virus, sometimes fatal, have been reported in mycophenolate mofelli treated patients. The reported cases of progressive Multifocal Lexikoencephalopathy (PML) associated with the JC virus, sometimes fatal, have been reported in mycophenolate mofelli treated patients. The reported cases generally had risk factors for PML, including immunosuppressant therapies and impairment of immune eurological symptoms and consultation with a Neurologist should be considered as clinically indicated. BK virus-associated ephropathy has been bestred during the use of mycophenolate mofelli in patients post renal transplant. This relations to the associated with serious culcromes, sometimes leading to renal graft loss. Patient monitoring may help detect on the associated with serious culcromes, sometimes leading to renal graft loss. Patient monitoring mycophenolate mofell in combination with other immunosuppressants. In some of these cases switching mycophenolate mofell to an alternative immunosuppression should be considered for patients who for the current inflections in patients receiving mycophenolate mofell in cases of business end unitically relevant hypogammaglobulinaemia, appropriate clinical action should be considered the mofell in patients meriting mycophenolate moreal in cases of outber immunosuppressants. In some of these cases switching mycophenolate mofell is on alternative immunosuppressants. In some of these cases witching mycophenolate mofell in conther immunosuppression are with other immunosuppressants. In some of these cases witching m

persistent pulmonary symptoms, such as cough and dysphotea, are investigated. Elocd and immune system Cases of pure red cell aplasia (PRCA) have been reported in patients treated with mycophenolate modell in combination with other immunosuppressive agents. The mechanism for mycophenolate modell induced PRCA is unknown; the relative contribution of other immunosuppressants and their combinations in an immunosuppressant and their combinations or cessation of mycophenolate modell therapy. In transplant patients however reduced immunosuppression any place the graft at risk. Patients receiving mycophenolate modell should be instructed to report immediately any evidence of infection, unexpected bruising, bleeding or any other manifestation of bone marrow depression. Patients con-weekly during the first month of treatment, twice monthly for the particular, patients receiving mycophenolate modell should be instructed to mycophenolate modell should be interrupted or neutropenia. The development of neutropenia my be related to mycophenolate modell should be interrupted or the dose should have compitation of these causes. If neutropenia develops (absolute neutrophil court <1.3 x 103/mL) dosing with mycophenolate modell should be interrupted or the dose should be indeputed and the patient mycophenolate modell hacting should be interrupted or the dase should be devised that during treatefully observed. Patients should be divised that during threapy and for at least 6 weeks following discontinuation of threapy and for at least 6 weeks following discontinuation. Bavotided. Influenza vaccinations may be of value. Prescribers should refer to relation agained in the sade intervacines should be avoided. Influenza vaccination may be of value. Prescribers should refer to relation gained in the sade intervacines to the should refer to relation gained in the sade intervacines to relation. **Bavotioned to relation gained should be avoid be avoided.** Influenza vaccination may be of value. Prescribers

Gastro-intestinai Mycophenolate mofetil has been associated with an increased incidence of digestive system adverse events, including infrequent cases of gastrointestinai tract ulceration, haemorrhage and perforation. Mycophenolate mofetil should be administered with caution in patients with active serious digestive system disea

Mycophenolate mofetil is an IMPDH (inosine monophosphate dehydrogenase) inhibitor. Therefore, it should be avoided in

VIMOF01-var (SIN)

Effects on ability to drive and use machines Mycophenolate mofetil may have a moderate influence on the ability to drive and use machines.

Patients should be advised to use caution when driving using machines if they experience adverse drug reaction such as somnolence, conflusion, dizziness, tremor hypotension during treatment with mycophenolate mofetil.

PREGNANCY AND LACTATION

Fertility Molecon is contraindicated in women of childbearing potential not using highly effective contraceptive methods. Malformations (including anophthalmia, aqnathia, and hydrocephaly) occurred in the first generation offspring of female rats treated with oral doses of mycophenolate modell in the absence of maternal toxicity. No effect was seen on the fertility of male rats treated with mycophenolate moletil.

Pregnancy Testing Prior to starting the

Pregnancy Testing Prior to starting therapy with Molecon, female patients of childbearing potential must have two negative serum or urine pregnancy tests with a sensitivity of at least 25mIU/mL. A second test should be performed 8-10 days later. If it is not possible to perform two tests 8-10 days apart before treatment starts (because of the timing of transplant organ availability), a pregnancy test must be performed immediately before starting treatment and a second test performed 8-10 days later.

Contraception

Molecon is contraindicated in women of childbearing potential Molecon is contraindicated in women of childbearing potential not using highly effective contraceptive methods. Before the start of treatment, female and male patients of reproductive potential must be made aware of the increased risk of pregnancy loss and congenital malformations and must be counseled regarding pregnancy prevention, and planning.

Males Limited clinical evidence is currently available on paternal exposure to Mofeon. This evidence does not indicate an increased risk of malformations or miscarriage following paternal exposure to mycophenolate. Thus, the risk of genotoxic effects on sperm cells cannot completely be excluded. In absence of sufficient data to exclude a risk of harm to the father, the following precautionary measure is recommended: 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.

Pregnancy Molecon is contraindicated during pregnancy due to its mutagenic and teratogenic potential. Molecon is a human teratogen, with an increased risk of spontaneous abortions (mainly in the first trimseter) and congenital malformations in case of maternal exposure during. The following malformations were most frequently reported post-markeing, in children of patients exposed to mycophenolate moleful in combination with other immunosuppressants during meanancy.

- Combination with other immunosuppressants during pregnancy: Facial malformations such as cleft lip, cleft palate, micrognathia and hypertelorism of the orbits; Abnormalities of the ear (e.g. abnormally formed or absent external/middle ear) and eye (e.g. coloboran, microphinalmos); Malformations of the fingers (e.g. polydactyly, syndactyly, hypobylicatubly):
- Cardiac abnormalities such as atrial and ventricular septal defects;
- Oesophageal malformations (e.g. oesophageal atresia); Nervous system malformations (such as spina bifida).

Labor and delivery: The safe use of Mofecon during labor and delivery has not been established.

Lactation It is not known whether the drug is excreted in human milk. Due to the potential for serious adverse reactions in nursing infants, Molecon is contraindicated during. Although the relevance to humans is unknown, studies in rats have shown mycophenolate mofetil to be excreted in milk.

<u>Geriatric Use</u> The recommended oral doses of 1 g twice daily for renal transplant patients, 1.5 g twice daily, for cardiac or hepatic transplant patients is appropriate for elderly patients.

DRUG INTERACTIONS

Acyclovir Higher MPAG (the phenolic glucuronide of MPA) and acyclovir rugner MPAG (the phenolic glicucronide of MPA) and acyclovir plasma concentrations were observed when mycophenolate mofelli was administered with acyclovir than when the drugs were administered alone. Because MPAG plasma concentrations are increased in the presence of renal impairment, as are acyclovir concentrations, the potential exists for mycophenolate and acyclovir or its prodrug, e.g. valacyclovir to compete for tubular secretion, further increasing the concentrations of both drugs.

Antacids and proton pump inhibitors (PPIs) Decreased mycophenolic acid (MPA) exposure has been observed when antacids, such as magnesium and aluminium hydroxides, and PPIs, including lansoprazole and partoprazole were administered with Molecon.

Cholestyramine Caution should be used during concomitant administration of drugs that interfere with enterohepatic circulation.

drugs that interfere with enterohepatic circulation. Cyclosporin A Cyclosporin A Cyclosporin A mycophenolate motelli. However CaA interferes with MPA enterohepatic recycling, resulting in reduced MPA exposures by 30-50% in renal transplant patients treated with Mofecon solutions of MPA exposure should be expected when switching patients from CaA to one of the immunosuppresants which do not interfere with MPAs enterohepatic cycle.

not been studied. Patients with delayed great function post-transplant in patients with delayed great function post-transplant, mean MPA AUCO-12 was comparable to that seen in post-transplant patients without delayed great function. There may be a transient increase in the free fraction and construction. Does adjustment of mycophenolate mofetil great function. Does adjustment of mycophenolate mofetil does not appear to be necessary. Mean plasma MPAG, AUGO-12 was 2– to 3 fold higher than in post-transplant patients without delayed great function. In patients with primary non-functioning graft following renal transplantation, plasma concentrations of MPAG accumulated; accumulation of MPA, if any, was much smaller.

Patients with hepatic impairment Overall, the pharmacokinetics of MPA and MPAG were relatively unaffected by hepatic parenchymal disease in volunteers with alcoholic cirrhosis dosed with oral or intravenous MMF. Effects of hepatic disease on these processes probably depend on the particular disease. Hepatic disease with predominantly billary damage, such as primary billary cirrhosis, may show a different effect.

INDICATIONS

lolecon is indicated for: prophylaxis of acute organ rejection and treatment of refractory organ rejection in patients receiving allogeneic renal transplants.

patients with rare hereditary deficiency of hypoxanthine-guanine phosphoribosyl-transferase (HGPRT) such as Lesch-Nyhan and Kelley-Seegmiller syndrome.

Interactions Caution should be exercised when switching combin through from regimens containing immunosuppress Caulion should be exercised when switching combination therapy from regimens containing immunosuppressants, which interfere with MPA enterohepatic recirculation, e.g. ciclosporin, to others devoid of this effect, e.g. tacrolimus, sirolimus, belatacept, or vice versa, as this might result in changes of MPA exposure. Drugs which interfere with MPAs enterohepatic cycle (e.g. cholestyramine, antibiotics) should be used with caution due to their potential to reduce the plasma levels, and efficary of mycombenolate modelil be used with caution due to their potential to reduce the plasma levels and efficacy of mycophenolate mofetil. Therapeutic drug monitoring of MPA may be appropriate when switching combination therapy (e.g. from ciclosporin to tacrolimus or vice versa) or to ensure adequate immunosuppression in patients with high immunological risk (e.g. risk of rejection, treatment with antibiotics).

Additional precautions Patients should not donate blood during therapy or for at least 6 weeks following discontinuation of mycophenolate. Men should not donate semen during therapy or for 90 days following discontinuation of mycophenolate.

following discontinuation of mycophenolate. Special populations Elderly patients may be at an increased risk of adverse events such as certain infections (including cytomegalowins latemornage and pulse) and celenity gastronged with younger individuals. Mycophenolate motell is contraindicated in pregnancy and during breastfeeding. Men should not donate semen during therapy and for 90 days following discontinuation of mycophenolate motelli administration of doses greater than 1 g twice daily. To renal transplant patients with severe chronic renal impairment should be avoided. No dose adjustment is recommended for cost-transplant patients with delayed renal graft function, but patients should be carefully monitored. No data are available for cardiac or hepatic transplant patients with severe chronic renal impairment.

Drugs affecting glucuronidation

Drugs affecting glucuronidation Concomitant administration of drugs inhibiting glucuronidation of MPA may increase MPA exposure. Caution is therefore recommended when administering these drugs concomitantly with Mofecon

with Mofecon. Telmisartan Concomitant administration of telmisartan and Mofecon resulted in an approximately 30% decrease of mycophenolic acid (MPA) concentrations. Telmisartan changes MPA's elimination by enhancing PPAR gamma (peroxisome proliferator-activated receptor gamma) expression which in turn results in an enhanced UGT1A9 expression and activity. When comparing rates of transplant rejection, rates of graft loss or adverse event profiles between Mofecon patients with and without concomitant telmisartan medication, no cilincial consequences of the pharmacokinetic DDI were seen. However, caution should be exercised when Mofecon is co-administered with telmisartan and monitoring of Mofecon levels may be considered. Banchdrur

levels may be considence. **Ganciclovir** Based on the results of a single-dose administration study of recommended doses of oral mycophenolate and iv ganciclovir and the known effects of renal impairment on the pharmacokinetics of mycophenolate motelit and ganciclovir, it s anticipated that co-administration of these agents (which compete for mechanisms of renal tubular secretion) will result in increases in MPAG and ganciclovir, oncentration. No substantial alteration of MPA pharmacokinetics is anticipated and myconhenolate modelli dose adjustment is not required. In and mycophenolate mofetil dose adjustment is not required. In patients with renal impairment in which mycophenolate mofetil and ganciolovir or its prodrugs, e.g. valganciolovir are coadministered, patients should be monitored carefully.

Oral contraceptives The pharmacokinetics of oral contraceptives were not affected to a clinically relevant degree by coadministration of Mofecon.

Hitampicin Alter correction for dose a 70% decrease in MPA exposure (AUC0-12h) has been observed with concomitant rifampicin administration in a single heart-lung transplant patient. It is therefore recommended to monitor MPA exposure levels and to adjust Modecon doses accordingly to maintain clinical efficacy when the drugs are administered concomitantly.

separately

Antibiotics eliminating β-glucuronidase-producing bacteria in the intestine (e.g. aminoglycoside, cephalosporin, fluoroquinolone, and penicillin classes of antibiotics) may interfere with MPAG/MPA enterohepatic recirculation thus leading to reduced systemic MPA exposure.

leading to reduced systemic MPA exposure. Information concerning the following antibiotics is available: **Ciprofloxacin or amoxicillin plus clavulanic acid** Reductions in pre-dose (trough) MPA concentration of 54%, barneditately following commonsement of orac ciprofloxacin or amoxicillin plus clavulanic acid. Effects tended to diminich with continued antibiotic use and cease after discontinuation. The change in predose level may not accurately represent changes in overall MPA exposure, therefore clinical relevance of these observations is unclear.

Norfloxacin and metronidazole Norfloxacin in combination with metronidazole reduced the MPA AUCO-48 by 30% following a single dose of Mofecon. No such effect on the systemic exposure of MPA with either of these, antibiotics occurred when they were administered

Co-administration of probenecid with mycophenolate mofetil in monkeys raises the plasma AUC of MPAG 3-fold. Thus, other drugs known to undergo renal tubular secretion may compete with MPAG and thereby raise plasma concentrations of MPAG or the other drug undergoing tubular secretion.

Concomitant administration of sevelame rand Mofecon in adults and pediatric patients decreased the MPA Cmax and AUC0-12 by 30% and 25 %, respectively. This data suggest that sevelamer and other calcium free phosphate binders preferentially should be given 2 hours after Mofecon intake to minimize the impact on the absorption of MPA.

Live vaccines should not be given to patients with an impaired immune response. The antibody response to other vaccines may be diminished.

The adverse event profile associated with the use of immunosuppressive drugs is often difficult to establish owing to patients' underlying diseases and the concurrent use of many other medications.

many other medications. **Clinical trials** An estimated total of 1557 patients received mycophenolate motetil during pivolal clinical trials in the prevention of acute organ rejection. Of these, 991 were included in the pooled renal studies ICM1866, MYCO22, XYCO23, 277 were included in the hepatic study MYC2844, Patients in all study arms also received clicbsporin and corticosteroids. Diarrhea, leukopenia, sepsis, and vomiting were among the most common and/or serious adverse drug reactions associated with the administration of mycophenolate motetli in the pivotal trials.

pivotal trials. There was also evidence of a higher frequency of certain types of infection, e.g. opportunistic infections. In the three pivotal trials for prevention of renal transplant rejection, patients receiving 2 g per day of mycophenolate moletil demonstrated an overall better safety profile than patients receiving 3 g mycophenolate moletil. The safety profile of mycophenolate mofetil in patients treated for refractory renal transplant rejection was similar to that observed in the pivotal trials for prevention of renal rejection at doses of 3 g per day. Diarrhea and leukopenia, followed by anemia, nausea, abdominal pain, sepsis, nausea and vomiting, and dyspepsia were the predominant adverse events reported more frequently in patients receiving inv.conticosteroids. Tabulated summary of adverse drug reactions from

Tabulated summary of adverse drug reactions from clinical trials

UNDESIREABLE EFFECTS

Tacrollmus Exposure to tacrollmus concomitantly administered with Mofecon had no effect on the AUC or Cmax of MPA in liver transplant recipients. A similar finding was observed in a recent study in kidney transplant recipients. In renal transplant patients It was shown that the tacrolimus concentration did not appear to be altered by Mofecon. However, in hepatic transplant patients, there was an increase of approximately 20% in tacrolimus AUC when multiple doese of Mofecon (1.5 g twice daily.) were administered to patients taking tacrolimus.

туросаюстна	Common	v.00mm0m	Common	
Hypokalemia	Common	V.Common	V.Common	
Hypomagnesemia	Common	Common V.Common V.Comr		
-lypophosphatemia	V.Common	nmon V.Common Commo		
Weight decreased	Common Common Common			
Psychiatric diso	rders			
Confusional state	Common	V Common	V Common	
Depression	Common	V.Common	V.Common	
Depression	Common	V.Common	V.Common	
Insomnia	Common	v.Common	v.Common	
Nervous system	disorders			
Dizziness	Common	V.Common	V.Common	
Headache	V.Common	V.Common	V.Common	
Hypertonia	Common	Common	V.Common	
Paresthenia	Common	V.Common	V.Common	
Somnolence	Common	Common	V.Common	
Tremor	Common	V.Common	V.Common	
Cardiac disorde	rs			
Tachycardia	Common	V.Common	V.Common	
Vascular disorde	oominon	1.001111011	1.001111011	
vascular uisoru				
Hypertension	V.Common	V.Common	V.Common	
Hypotension	Common	V.Common	V.Common	
Venous thrombosis*	Common	Common	Common	
Lymphocele		Lincommon ²	I	
Respiratory the	racic and mor	liaetinal dicor	dere	
Course	V Common		V Commo-	
Cougn	V.Common	V.Common	V.Common	
Dyspnea	v.Common	v.Common	v.Common	
Pleural effusion	Common	V.Common	V.Common	
Bronchiectasis		Uncommon ²		
Interstitial lung		Uncommon		
Pulmonary				
fibrosis		Uncommon ²		
Gastrointestinal	disorders			
Abdominal pain	V.Common	V.Common	V.Common	
Colitis	V.Common	Common	Common	
Constinution	V.Common	V.Common	V.Common	
Decreased	v.com.non	v.ooiiiiioii	V.001111011	
appetite	V.Common	V.Common	V.Common	
Diarrhea	V.Common	V.Common	V.Common	
Dyspepsia	V.Common	V.Common	V.Common	
Esophagitis	Common	V.Common	V.Common	
Flatulence	Common	Common		
		CONTINUE	Common	
Gastritis	Common	V Common	Common	
Gastrointesting	Common	V.Common	Common	
Gastrointestinal hemorrhage	Common	V.Common Common	Common Common Common	
Gastrointestinal hemorrhage Gastrointestinal	Common Common	V.Common Common	Common Common	
Gastrointestinal hemorrhage Gastrointestinal ulcer	Common Common Common	V.Common Common Common	Common Common Common	
Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus	Common Common Common Common	V.Common Common Common	Common Common Common Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea	Common Common Common Common V.Common	V.Common Common Common V.Common	Common Common Common Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomatitis	Common Common Common Common V.Common Common	V.Common Common Common Common V.Common Common	Common Common Common Common V.Common Common	
Gastritis Gastrointestinal ulcer Ileus Nausea Stomatitis Vomiting	Common Common Common Common V.Common V.Common	V.Common Common Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomatitis Vomiting Pancreatitis	Common Common Common Common V.Common V.Common	Common V.Common Common Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomatitis Vomiting Pancreatitis Hepatobiliary dia	Common Common Common Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common Common	Common Common Common Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomatitis Vomiting Pancreatitis Hepatobillary di Blood alkaline phosphatase	Common Common Common Common V.Common V.Common V.Common Sorders Common	Common Common Common Common V.Common Common Common Common	Common Common Common Common V.Common V.Common V.Common	
Gastritis Gastrointestinal ulcer Ileus Nausea Stomatitis Vomiting Pancreatitis Blood alkaline phosphatase lincreased Blood lactate dehydrogenase	Common Common Common Common V.Common V.Common V.Common Common Common	V.Common Common Common Common V.Common Common Common Common	Common Common Common Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Hepatobillary dit Blood alkaline phosphatase increased Blood lactate dehydrogenase increased	Common Common Common Common V.Common V.Common Common Common Common	Common Common Common Common V.Common Common Common Common Uncommon V.Common	Common Common Common Common V.Common V.Common V.Common V.Common Very common	
Gastritis Gastrointestinal Hemorrhage Gastrointestinal Ulcer Ileus Stomatitis Vomiting Pancreatitis Vomiting Pancreatitis Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepatic enzyme increased Hepatitis	Common Common Common Common V.Common V.Common V.Common Common Common Common	V.Common Common Common V.Common V.Common Common Common U.Common Uncommon	Common Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomattis Voniting Pancreatitis Hepatobillary di Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepattic enzyme increased	Common Common Common V.Common V.Common Common Common Common Common Common	V.Common Common Common V.Common V.Common Common Uncommon Uncommon V.Common V.Common V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Stomattis Vomiting Pancreatitis Vomiting Pancreatitis Hepatobiliary di Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Blood lactate dehydrogenase increased Ston and subcut Alexaeio	Common Common Common Common V.Common Common Common Common Common Common Common	V.Common Common Common Common V.Common Common Common Uncommon V.Common V.Common V.Common V.Common V.Common	Common Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Hepatobiliary dit Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepatitis Skin and subcut Alopecia	Common Common Common Common V.Common V.Common Common Common Common Common Common	V.Common Common Common V.Common V.Common Common V.Common Uncommon V.Common V.Common V.Common V.Common	Common Common Common Common Common Common V.Common V.Common V.Common V.Common V.Common U.Common Uncommon	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomattis Voniting Pancreatitis Hepatobiliny di Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepattis Skin and subcut Alopecia Rash/Pruritus	Common Common Common V.Common V.Common Sorders Common Common Common Common Common Common	V.Common Common Common V.Common V.Common Common Uncommon V.Common V.Common V.Common Se disorders Common V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common Uncommon V.Common	
Gastritis Gastroitestinal hemorrhage Gastrointestinal ulcer Ileus Nausea Stomattis Vomiting Pancreatitis Hepatolilary di Blood alkaline phosphalase increased Blood alkalite elhorgenase increased Hepattis Skin and subcut Alopecia Bash/Puruitus	Common Common Common V.Common V.Common Common Common Common Common Common Common Common aneous tissue	V.Common V.Common Common V.Common Common V.Common Common Uncommon V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common Uncommon V.Common V.Common V.Common	
Gastroitestinal hemorrhage Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Vomiting Pancreatitis Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepatitis Skin and subcut Alopecia Rash/Pruritus Musculoskeletal Arthralgia	Common Common Common V.Common V.Common Common Common Common Common Common aneous tissue Common and connecti Common	V.Common Common Common V.Common V.Common V.Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common U.Common U.Common U.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Vomiting Pancreatitis Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepattis Skin and subcut Alopecia Rash/Pruritus Musculoskeletal Arthralgia Muscular	Common Common Common V.Common V.Common Common Common Common Common Common Common Common Common	V.Common Common Common V.Common V.Common V.Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal Juicer Bestrointestinal Juicer Ileus Nausea Stomattis Vomting Panoreatitis Hepatobilary di Blood alkaline phosphatase increased Blood alkaline Blood alkaline B	Common Common Common V.Common V.Common Common Common Common Common aneous tissue Common aneous tissue Common and connecti	V.Common Common Common V.Common Common V.Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	Common Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Vomiting Pancreatitis Hepatobiliary dit Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepatic enzyme increased Hepatitis Skin and subcut Alopecia Rash/Pruritus Musculoskeletal Musculoskeletal Muscular, weakness Renal and urina	Common Common Common V.Common V.Common Common Common Common Common Common Common Common Common Common y disorders	V.Common Common Common V.Common Common V.Common Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common Uncommon U.Common V.Common V.Common	
Gastritis Gastrointestinal hemorrhage Gastrointestinal ulcer Ileus Stomattiis Vomiting Pancreatitis Vomiting Pancreatitis Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Hepatitis Skin and subcut Alopecia Rash/Pruritus Musculoskeletai	Common Common Common V.Common V.Common Commo	V.Common Common Common V.Common V.Common V.Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastritis Gastroitestinal Juicer Bestrointestinal Juicer Ileus Nausea Stomattis Vomiting Pancreatitis Hepatolilary di Blood alkaline phosphalase increased Blood latatate dehydrogenase increased Hepatitis Skin and subcut Alopecia Rash/Puritus Musculoskeletal Arthralgia Blood creatinine increased Blood creatinine Blood urea	Common Common Common V.Common V.Common Common Common Common Common Common and connecti Common and connecti Common y disorders Common	V.Common Common Common V.Common Common V.Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	Common Common Common Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	
Gastroitestinal Gastrointestinal ulcer Ileus Stomatitis Vomiting Pancreatitis Vomiting Pancreatitis Hepatobiliary dit Blood alkatine phosphatase increased Blood lactate dehydrogenase increased Hepatitis Skin and subcut Alopecia Rash/Pruritus Musculoskeletal Musculoskeletal Arthralgia Blood ureatinne Blood ureatinne Blood oreatinne Blood oreatinne Blood oreatinne Blood oreatinne Blood oreatinne	Common Common Common V.Common V.Common V.Common Common Common Common Common Common Common aneous tissue Common and connecti Common y disorders Common Common	V.Common V.Common Common V.Common V.Common Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common V.Common	Common Common Common Common V.Common V.Common V.Common V.Common V.Common Uncommon V.Common V.Common V.Common V.Common V.Common V.Common V.Common	

BACK

Ileus Common Common V.Common

Controlotes and Proceedings of the second se n General disorders and administration site conditions Edema, including peripheral, face and scrotal edema, was reported very commonly during the pivotal trials. Musculoskeletal pain such as myalgia, and neck and back pain were also very commonly reported. n n

Malignancies Patients receiving mycophenolate mofetil as part of an immunosuppressive regime are at increased risk of developing lymphomas and other malignancies, particularly of the skin. Three-year safety data in renal and cardiac transplant patients did not reveal any unexpected changes in the incidence of malignancy compared to the 1-year data. Hepatic transplant patients were followed for at least 1 year, but less than 3 years. In supportive clinical trials of treatment of refractory renal rejection, the lymphoma rate was 3.9% at an average follow up of 42 months.

Block and you for the incidents. Block and younghatic disorders Oytopenias, including leukopenia, anemia, thrombocytopenia and pancytopenia, are a known risk associated with mycophenolate and may lead or contribute to the occurrence of infections and hemorrhages.

It is expected that an overdese of mycophenolate mafelil could possibly result in over suppression of the immune system and increases guespiblitly to infections and bone marrow suppression. If nettroperia develops, dosing with Molecon should be interrupted or the dose reduced.

Haemodialysis would not be expected to remove clinically significant amounts of MPA or MPAG. Bile acid sequestrants, such as cholestyramine, can remove MPA by decreasing the enterohepatic re-circulation of the drug.

combination with Molecon. Standard Dosage for prophylaxis of renal rejection A dose of 1 g administered orally or intravenously (over NO LESS THAN 2 HOURS) twice a day (daily dose of 2 g) is recommended for use in renal transplant patients. Although a dose of 1.5 g administered twice daily (daily dose of 3 g) was used in clinical trials and was shown to be sate and effective, no efficacy advantage could be established for renal transplant patients. Patients receiving 2 g per day of Molecon demonstrated an overall better safety profile compared to patients receiving 31 per day of Molecon.

Standard dosage for treatment of refractory renal rejection A dose of 1.5 g administered twice a day (dally dose of 3g) is recommended for management of refractory rejection. The initial dose of Molecon should be given as along as possible following renal, cardiac or hepate transplantation.

Special dosage instructions Patients with neutropenia: If neutropenia develops (absolute neutrophil count <1.3 \times 103/m), dosing with Mofecon should be interrupted or the dose should be reduced and the patient

carefully observed

Storage: Store below 30°C. Protect from light and moisture.

Rahman (Jalan Kuala Kangsar)

clinical trials	nary of adve	ise drug reactions from			Rash/Pruritus	Common	V.Common	V.Common
Adverse drug reactions from clinical trials (Table 1) are listed				Musculoskeletal and connective tissue disorders				
by MedDRA system organ class along with their incidence. The corresponding frequency category for each adverse drug reaction is based on the following convention: very common (≥1/10): common (≥1/100 to <1/10); uncommon (≥1/10, 000 to <1/100); rare (≥1/10,000 to <1/10,000; very rare (<1/10,000). Due to the large differences observed in the frequency of certain ADRs across the different transplant indications, the frequency is presented separately for renal, hepatic and cardiac transplant patients. Table 1 Summary of adverse drug reactions occurring in patients trated with mycophenolate moletul in pivotal clinical				Arthralgia	Common	Common	V.Common	
				Muscular weakness	Common	Common	V.Common	
				Renal and urinary disorders				
				Blood creatinine increased	Common	Very common	Very common	
				Blood urea increased	Uncommon	Very common	Very common	
				Hematuria	V.Common	Common	Common	
trials and post-marketing surveilance		General disorders and administration site conditions						
Adverse drug Benal Hepat	Hepatic	Cardiac		Asthenia	V.Common	V.Common	V.Common	
Reaction	transplant	transplant	transplant		Chills	Common	V.Common	V.Common

Edema

Hernia

Malaise

Adverse drug Reaction (MedDRA) System Organ Class	Renal transplant n = 991	Hepatic transplant n = 277	Cardiac transplant n = 289	
Infections and infestations				
Bacterial infections	V.Common	V.Common	V.Common	
Fungal infections	Common	V.Common	V.Common	

Standard Dosage for prophylaxis of cardiac rejection A dose of 1.5g administered orally or intravenously (over NO LESS THAN 2 HOURS) twice a day (daily dose of 3g) is recommended for use in cardiac transplant patients.

Standard Dosage for prophylaxis of hepatic rejection A dose of 1.0g administred intravenousely (over NO LESS THAN 2 HOURS) wixce a day (daily dose d 2g) or 1.5g orally twice a day (daily dose of 3g) is recommended for use in hepatic transplant patients.

For dosage instructions in special population, please refer to sections Special Populations.

Presentation/ Packing: Alu-alu blister pack of 6x10's.

Manufactured for / Product Registration Holder (Malaysia) / Product Owner: **HOVID Berhad** 121. Jalan Tunku Abdul Bahman (Jalan Kuala Kangsar).

pair were also very commonly reported. Special Populations Children (aged 3 months to 18 years) The type and frequency of adverse drug reactions in a clinical study of 100 pediatric patients aged 3 months to 18 years given 600 mg/m2 mycophenolate mofetil orally twice daily, were generally similar to those observed in adult patients given 1 g mycophenolate mofetil twice daily. However, the following reatment-related adverse events occurred with a frequency of > 10 % in children and were more frequent in the pediatric compared to adults: diarthes, leukopenia, sepsis, infection, and anemia. The safety and efficacy of mycophenolate mofetil in children below the age of 18 years have not been established. Eluction unitents (> 65 years)

Mofecon™

Elderly patients (= 55 years) Elderly patients, particularly those who are receiving mycophenolate mofetil as part of a combination immunosuppressive regime, may be at greater increased risk of certain infections (including cytomegalovirus tissue invasive disease) and possibly gastrointestinal hemorrhage and pulmonary edema, compared to younger individuals.

OVERDOSE

In many of these cases, no adverse events were reported. In those overdose cases in which adverse events were reported, the events fall within the known safety profile of the medicinal product.

DOSAGE AND ADMINISTRATION Please refer to full prescribing information for corticosteroids and either ciclosporin or tacrolimus, which are used in combination with Mofecon.

Viral infections	V.Common	V.Common	V.Common	
Protozoal infections	Uncommon ²			
Neoplasms beni (including cysts	gn, malignant and polyps)	and unspecif	ied	
Benign neoplasm of skin	Common	Common	Common	
Neoplasm	Common	Common	Common	
Skin cancer	Common Uncommon Commo			
Lymphoma	Uncommon ²			
Lymphoproliferative disorder	Uncommon ²			
Blood and lymp	hatic system o	disorders		
Anemia	V.Common	V.Common	V.Common	
Ecchymosis	Common	Common	V.Common	
Leukocytosis	Common	V.Common	V.Common	
Leukopenia	V.Common	V.Common	V.Common	
Pancytopenia	Common	Common	Uncommon	
Pseudolymphoma	Uncommon	Uncommon	Common	
Thrombocytopenia	Common V.Common V.Com		V.Common	
Aplasia pure red cell	Uncommon ²			
Bone marrow failure	Uncommon ²			
Metabolism and nutrition disorders				
Acidosis	Common	Common	V.Common	
Hypercholes- terolemia	V. Common	Common	V.Common	
Hyperglycemia	Common	V.Common	V.Common	
Hyperkalemia	Common	V.Common	V.Common	

Pyrexia	V.Common	V.Common	V.Common
Immune system disorders			
Hypersensitivity		Common	
Hypogamma- globulinemia	Uncommon		

V.Common V.Common

Common V.Common V.Common

Common V.Common Common

Common V.Common V.Common

V.Common V.Common

Common

* Reported following intravenous administration. ! Highest incidence observed during the pivotal clinical trials ? The frequency category for ADRs observed only in the postmarketing setting is defined as the upper limit of the 95% confidence interval calculated on the basis of the total number of patients exposed to mycophenolate pivotal trials

Infections: Serious life-threatening infections such as meninglits and infectious endocardlits have been reported occasionally, and there is evidence of a higher frequency of certain types of infections such as tuberculosis and atypical mycobacterial infection.

Progressive Multifocal Leukoencephalopathy (PML) and BK virus associated nephropathy, have been reported in mycophenolate mofetil treated patients.

Congenital disorders and Pregnancy, puerperium, and perinatal conditions: See section pregnancy for further information

information. Description of selected adverse drug reactions Infections All patients treated with immunosuppressants are at increased risk of bacterial, viral, and fungal infections (some of which may lead to a fatal outcome), including those caused by opportunistic agents and latent viral reactivation. The risk increases with total immunosuppressive load. The most common opportunistic infections in patients receiving mycophenolate mofell with other immunosuppressants were mucocutaneous candida, CMV viremia/syndrome, and herpes simplex. The proportion of patients with CMV viremia/syndrome was 13.5%.

unku Abdul erak. Malavs 30010 lpoh. Pe Manufactured by: Concord Biotech Limited 297-298/2p, Siyawada, Valthera, Ahmedabad, Gujarat 382225, India

Information date: November 2022

XXxxxxx-xx

hovid