הודעה על החמרה (מידע בטיחות) בעלון לרופא (מעודכן 3102.50)

 December 15, 2014	תאריך
ראוגלים ומספר הרישום	אם הכוענר

_ PROGRAF 5 mg/ml Ampoules Concentrate for solution for infusion _ 107 71 29160 00

Salomon, Levin & Elstein Ltd, POBox 3696, Petach-Tikva 49133 שם בעל הרישום

בינסם זה מנועד לסבינו ההחמבים בלבד ו

בלבד!	טופס זה מיועד לפרוט ההחמרות	
	ההחמרות המבוקשות	
טקסט חדש	טקסט נוכחי	פרק בעלון
		Indication
		Contraindications
		Posology, dosage & administration
Substances with potential for interaction When substances with a potential for interaction (see section 4.5) - particularly strong inhibitors of CYP3A4 (such as telaprevir, boceprevir, ritonavir, ketoconazole, voriconazole, itraconazole, telithromycin or clarithromycin) or inducers of CYP3A4 (such as rifampicin, rifabutin) – are being combined with tacrolimus, tacrolimus blood levels should be monitored to adjust the tacrolimus dose as appropriate in order to maintain similar tacrolimus exposure.	When substances with a potential for interaction (see section 4.5) - particularly strong inhibitors of CYP3A4 (such as telaprevir, boceprevir, ritonavir, ketoconazole, voriconazole, itraconazole, telithromycin or clarithromycin) or inducers of CYP3A4 (such as rifampicin, rifabutin) – are being combined with tacrolimus, tacrolimus blood levels should be monitored to adjust the tacrolimus dose as appropriate in order to maintain similar tacrolimus exposure.	Special Warnings and Special Precautions for Use
Herbal preparations containing St. John's Wort (Hypericum perforatum) or other herbal preparations should be avoided when taking Prograf due to the risk of interactions that lead to decrease in blood concentrations of tacrolimus and reduced clinical effect of tacrolimus (see section 4.5 Interactions with other medicinal products and other forms of interactions).	Herbal preparations containing St. John's Wort (Hypericum perforatum) or other herbal preparations should be avoided when taking Prograf due to the risk of interactions that lead to decrease in blood concentrations of tacrolimus and reduced clinical effect of tacrolimus (see section 4.5 Interactions with other medicinal products and other forms of interactions).	
The combined administration of ciclosporin and tacrolimus should be avoided and care should be taken when administering tacrolimus to patients who have previously received ciclosporin (see sections 4.2 and	The combined administration of ciclosporin and tacrolimus should be avoided and care should be taken when administering tacrolimus to patients who have previously received ciclosporin (see sections 4.2 and	

4.5).

4.5).

High potassium intake or potassium-sparing diuretics should be avoided (see section 4.5).

Certain combinations of tacrolimus with drugs known to have nephrotoxic or neurotoxic effects may increase the risk of these effects (see section 4.5).

Vaccination

Immunosuppressants may affect the response to vaccination and vaccination during treatment with tacrolimus may be less effective. The use of live attenuated vaccines should be avoided.

Gastrointestinal disorders

Gastrointestinal perforation has been reported in patients treated with tacrolimus. As gastrointestinal perforation is a medically important event that may lead to a life-threatening or serious condition, adequate treatments should be considered immediately after suspected symptoms or signs occur.

Since levels of tacrolimus in blood may significantly change during diarrhoea episodes, extra monitoring of tacrolimus concentrations is recommended during episodes of diarrhoea.

The combined administration of ciclosporin and tacrolimus should be avoided and care should be taken when administering tacrolimus to patients who have previously received ciclosporin (see sections 4.2 and 4.5).

Cardiac disorders

Ventricular hypertrophy or hypertrophy of the septum, reported as cardiomyopathies, have been observed on rare occasions. Most cases have been reversible, occurring primarily in children with tacrolimus blood trough concentrations much higher than the recommended maximum levels. Other factors observed to increase the risk of these clinical conditions included pre-existing heart disease, corticosteroid usage, hypertension, renal or hepatic dysfunction, infections, fluid overload, and oedema. Accordingly, high-risk patients, particularly young children and those receiving substantial immunosuppression should be monitored, using such procedures as echocardiography or ECG pre- and posttransplant (e.g. initially at three months and then at 9-12 months).

If abnormalities develop, dose reduction of Prograf therapy, or change of treatment to another immunosuppressive agent should be Ventricular hypertrophy or hypertrophy of the septum, reported as cardiomyopathies, have been observed on rare occasions. Most cases have been reversible, occurring primarily in children with tacrolimus blood trough concentrations much higher than the recommended maximum levels.

Other factors observed to increase the risk of these clinical conditions included pre-existing heart disease, corticosteroid usage, hypertension, renal or hepatic dysfunction, infections, fluid overload, and oedema. Accordingly, high-risk patients, particularly young children and those receiving substantial immunosuppression should be monitored, using such procedures as echocardiography or ECG pre- and post-transplant (e.g. initially at three months and then at 9-12 months).

If abnormalities develop, dose reduction of Prograf therapy, or change of treatment to another immunosuppressive agent should be considered. Tacrolimus may prolong the QT interval but at this time lacks substantial evidence for caus ing Torsades de Pointes. Caution should be exercised in patients in patients diagnosed or suspected Congenital Long QT Syndrome

Patients treated with Prograf have been reported to develop EBV-associated lymphoproliferative disorders. Patients switched to Prograf therapy should not receive anti-lymphocyte treatment concomitantly. Very young (< 2 years), EBV-VCA-negative children have been reported to have an increased risk of developing lymphoproliferative disorders. Therefore, in this patient group, EBV-VCA serology should be ascertained before starting treatment with Prograf. During treatment, careful monitoring with EBV-PCR is recommended.

Positive EBV-PCR may persist for months and is per se not indicative of lymphoproliferative disease or lymphoma.

Cases of pure red cell aplasia (PRCA) have been reported in patients treated with tacrolimus. All patients reported risk factors for PRCA such as parvovirus B19 infection, underlying disease or concomitant medications associated with PRCA.

As with other immunosuppressive agents, owing to the potential risk of malignant skin changes, exposure to sunlight and UV light should be limited by wearing protective clothing and using a sunscreen with a high

considered. Tacrolimus may prolong the QT interval and may but at this time lacks substantial evidence for cause ing Torsades de Pointes. Caution should be exercised in patients with risk factors for OT prolongation, including patients with a personal or family history of QT prolongation, congestive heart failure, bradyarrhythmias and electrolyte abnormalities. Caution should also be exercised in patients diagnosed or suspected to have Congenital Long QT Syndrome or acquired QT prolongation or patients on concomitant medications known to prolong the QT interval, induce electrolyte abnormalities or known to increase tacrolimus exposure (see section 4.5).

Lymphoproliferative disorders and malignancies

Patients treated with Prograf have been reported to develop Epstein-Barr-virus (EBV)-associated lymphoproliferative disorders (see section 4.8). Patients switched to Prograf therapy should not receive antilymphocyte treatment concomitantly. Very young (< 2 years), EBV-VCA-negative children have been reported to have an increased risk of developing lymphoproliferative disorders. Therefore, in this patient group, EBV-VCA serology should be ascertained before starting treatment with Prograf. During treatment, careful monitoring with EBV-PCR is recommended. Positive EBV-PCR may persist for months and is per se not indicative of lymphoproliferative disease or lymphoma.

As with other immunosuppressive agents, owing to the potential risk of malignant skin changes, exposure to sunlight and UV light should be limited by wearing protective clothing and using a sunscreen with a high protection factor.

As with other potent immunosuppressive compounds, the risk of secondary cancer is unknown (see section 4.8).

Pure Red Cell Aplasia

Cases of pure red cell aplasia (PRCA) have been reported in patients treated with tacrolimus. All patients reported risk factors for PRCA such as parvovirus B19 infection, underlying disease or concomitant medications associated with PRCA.

As with other immunosuppressive agents, owing to the potential risk of malignant skir

protection factor.

As with other potent immunosuppressive compounds, the risk of secondary cancer is unknown (see section 4.8).

Prograf 5 mg/ml concentrate for solution for infusion contains polyoxyethylene hydrogenated castor oil, which has been reported to cause anaphylactoid reactions. Caution is therefore necessary in patients who have previously received preparations containing polyoxyethylene castor oil derivatives either by intravenous injection or infusion, and in patients with an allergenic predisposition. The risk of anaphylaxis may be reduced by slow infusion of reconstituted Prograf 5 mg/ml concentrate for solution for infusion or by the prior administration of an antihistamine.

changes, exposure to sunlight and UV light should be limited by wearing protective clothing and using a sunscreen with a high protection factor.

As with other potent immunosuppressive compounds, the risk of secondary cancer is unknown (see section 4.8).

Excipients

Prograf 5 mg/ml concentrate for solution for infusion contains polyoxyethylene hydrogenated castor oil, which has been reported to cause anaphylactoid reactions. Caution is therefore necessary in patients who have previously received preparations containing polyoxyethylene castor oil derivatives either by intravenous injection or infusion, and in patients with an allergenic predisposition. The risk of anaphylaxis may be reduced by slow infusion of reconstituted Prograf 5 mg/ml concentrate for solution for infusion or by the prior administration of an antihistamine. Patients should be closely observed during the first 30 minutes of infusion for possible anaphylactoid reaction.

Metabolic interactions

Systemically available tacrolimus is metabolised by hepatic CYP3A4. There is also evidence of gastrointestinal metabolism by CYP3A4 in the intestinal wall. Concomitant use of medicinal products or herbal remedies known to inhibit or induce CYP3A4 may affect the metabolism of tacrolimus and thereby increase or decrease tacrolimus blood levels.

It is therefore strongly recommended to closely monitor tacrolimus blood levels as well as, QT prolongation (with ECG), renal function and other side effects, whenever substances which have the potential to alter CYP3A4 metabolism are used concomitantly and to interrupt or adjust the tacrolimus dose as appropriate in order to maintain similar tacrolimus exposure (see sections 4.2 and 4.4).

Other interactions potentially leading to increased tacrolimus blood levels

Tacrolimus is extensively bound to plasma proteins. Possible interactions with other medicinal products known to have high affinity for plasma proteins should be considered (e.g., NSAIDs, oral anticoagulants, or oral antidiabetics).

Other potential interactions that may increase systemic exposure of tacrolimus include the prokinetic agent metoclopramide, cimetidine a

Metabolic interactions

Systemically available tacrolimus is metabolised by hepatic CYP3A4. There is also evidence of gastrointestinal metabolism by CYP3A4 in the intestinal wall. Concomitant use of medicinal products or herbal remedies known to inhibit or induce CYP3A4 may affect the metabolism of tacrolimus and thereby increase or decrease tacrolimus blood levels.

It is therefore strongly recommended to closely monitor tacrolimus blood levels as well as renal function and other side effects, whenever substances which have the potential to alter CYP3A4 metabolism are used concomitantly and to interrupt or adjust the tacrolimus dose as appropriate in order to maintain similar tacrolimus exposure (see sections 4.2 and 4.4).

Protein binding considerations
Tacrolimus is extensively bound to plasma
proteins. Possible interactions with other
medicinal products known to have high
affinity for plasma proteins should be
considered (e.g., NSAIDs, oral
anticoagulants, or oral antidiabetics).

Interaction with Other Medicaments and Other Forms of Interaction

Protein binding considerations Tacrolimus is extensively bound to plasma proteins. Possible interactions with other medicinal products known to have high affinity for plasma proteins should be considered (e.g., NSAIDs, oral anticoagulants, or oral antidiabetics).			
			Fertility, Pregnancy and Lactation
The kidneys and the pancreas were the primary organs affected in toxicity studies performed in rats and baboons. In rats, tacrolimus caused toxic effects to the nervous system and the eyes. Reversible cardiotoxic effects were observed in rabbits following intravenous administration of tacrolimus. When tacrolimus is administered intravenously as rapid infusion/bolus injection at a dose of 0.1 to 1.0 mg/kg, QTc prolongation has been observed in some animal species. Peak blood concentrations achieved with these doses were above 150 mg/mL which is more than 6-fold higher than mean peak concentrations observed with Prograf in clinical transplantation. Embryofoetal toxicity was observed in rats and rabbits and was limited to doses that caused significant toxicity in maternal animals. In rats, female reproductive function including birth was impaired at toxic dosages and the offspring showed reduced birth weights, viability and growth. A negative effect of tacrolimus on male fertility in the form of reduced sperm counts and motility was observed in rats.	primary organs aff performed in rats a tacrolimus caused nervous system an cardiotoxic effects following intraven tacrolimus. Embry observed in rats art to doses that cause maternal animals. reproductive funct impaired at toxic c showed reduced by growth. A negative effect of	ion including birth was losages and the offspring orth weights, viability and of tacrolimus on male in of reduced sperm counts	Preclinical Safety Data
Infections and infestations As is well known for other potent immunosuppressive agents, patients receiving tacrolimus are frequently at increased risk for infections (viral, bacterial, fungal, protozoal). The course of pre-existing infections may be aggravated. Both generalised and localised infections can occur. Cases of BK virus associated nephropathy, as well as cases of JC virus associated progressive multifocal leukoencephalopathy	Cardiac disorders common:	ischaemic coronary artery disorders, tachycardia	Adverse events
(PML), have been reported in patients treated with immunosuppressants, including Prograf. Neoplasms benign, malignant and unspecified (incl. cysts and polyps) Patients receiving immunosuppressive therapy are at increased risk of developing malignancies. Benign as well as malignant	uncommon:	ventricular arrhythmias and cardiac arrest, heart failures, cardiomyopathies, ventricular hypertrophy, supraventricular arrhythmias, palpitations, ECG investigations	

neoplasms including EBV-associated lymphoproliferative disorders and skin malignancies have been reported in association with tacrolimus treatment.

Blood and lymphatic system disorders common: anaemia, leukopenia,

thrombocytopenia,

leukocytosis, red blood cell

analyses abnormal

uncommon: coagulopathies, coagulation

and bleeding analyses abnormal, pancytopenia,

neutropenia rare: thrombotic

thrombocytopenic purpura,

hypoprothrombinaemia

not known: pure red cell aplasia,

agranulocytosis, haemolytic

anaemia

Immune system disorders

Allergic and anaphylactoid reactions have been observed in patients receiving

tacrolimus (see section 4.4).

Endocrine disorders

rare: hirsutism

Metabolism and nutrition disorders

very common: hyperglycaemic conditions,

diabetes mellitus, hyperkalaemia

common: hypomagnesaemia,

hypophosphataemia,

hypokalaemia, hypocalcaemia,

hyponatraemia, fluid overload, hyperuricaemia, appetite decreased, anorexia,

metabolic acidoses, hyperlipidaemia,

hypercholesterolaemia,

hypertriglyceridaemia, other electrolyte abnormalities

uncommon: dehydration,

> hypoproteinaemia, hyperphosphataemia,

hypoglycaemia

Psychiatric disorders

very common: insomnia

common: anxiety symptoms, confusion

and disorientation,

depression, depressed mood,

mood disorders and disturbances, nightmare, hallucination, mental

disorders

uncommon: psychotic disorder

abnormal, heart rate and pulse investigations

abnormal

pericardial effusion rare: echocardiogram abnormal,, very rare:

Blood and lymphatic system disorders

anaemia, leukopenia, common:

> thrombocytopenia, leukocytosis, red blood cell analyses abnormal

coagulopathies, uncommon:

> coagulation and bleeding analyses abnormal, pancytopenia, neutropenia

thrombotic

thrombocytopenic

rare:

purpura,

hypoprothrombinaemia pure red cell aplasia, not known:

agranulocytosis, haemolytic anaemia Nervous system disorders

very common: tremor, headache

common: seizures, disturbances in

consciousness, paraesthesias and dysaesthesias, peripheral neuropathies, dizziness, writing impaired, nervous

system disorders

uncommon: coma, central nervous system

haemorrhages and

cerebrovascular accidents, paralysis and paresis, encephalopathy, speech and

language abnormalities,

amnesia hypertonia rare: very rare: myasthenia

Eye disorders

common: vision blurred, photophobia,

eye disorders

uncommon: cataract blindness rare:

Ear and labyrinth disorders

common: tinnitus uncommon: hypoacusis

deafness neurosensory rare:

very rare: hearing impaired

Cardiac disorders

uncommon:

common: ischaemic coronary artery

> disorders, tachycardia ventricular arrhythmias

and cardiac arrest, heart

failures.

cardiomyopathies,

ventricular hypertrophy,

supraventricular

arrhythmias, palpitations, ECG investigations abnormal, heart rate and pulse investigations

abnormal

rare: pericardial effusion echocardiogram abnormal,, very rare:

electrocardiogram QT prolonged, Torsades de

Pointes

Blood and lymphatic system disorder anaemia, leukopenia,

thrombocytopenia,

leukocytosis, red blood

Nervous system disorders

very common: tremor, headache common: seizures, disturbances in

> consciousness. paraesthesias and dysaesthesias, peripheral neuropathies, dizziness, writing impaired, nervous

system disorders

coma, central nervous uncommon:

system haemorrhages and

cerebrovascular

accidents, paralysis and paresis, encephalopathy, speech and language abnormalities, amnesia

hypertonia

rare: myasthenia very rare:

Eye disorders

common: vision blurred,

photophobia, eye

disorders

cataract uncommon: rare: blindness

Ear and labyrinth disorders

common: tinnitus uncommon: hypoacusis

rare: deafness neurosensory

hearing impaired very rare:

Vascular disorders

very common: hypertension common: haemorrhage,

thrombembolic and

ischaemic events, peripheral vascular disorders, vascular hypotensive disorders

infarction, venous

thrombosis deep limb, shock

Skin and subcutaneous tissue disorders

common: pruritus, rash, alopecia,

acne, sweating increased

uncommon: dermatitis.

photosensitivity

uncommon:

rare: toxic epidermal necrolysis (Lyell's syndrome) very rare: Stevens Johnson

syndrome

Musculoskeletal and connective tissue

disorders

common: arthralgia, muscle

cramps, pain in limb,

cell analyses abnormal coagulopathies, uncommon: ____ coagulation and bleeding analyses abnormal, pancytopenia, neutropenia thrombotic thrombocytopenic purpura, hypoprothrombinaemia pure red cell aplasia, not known: agranulocytosis, haemolytic anaemia Nervous system disorders very common: tremor, headache seizures, disturbances in common: consciousness. paraesthesias and dysaesthesias, peripheral neuropathies, dizziness, writing impaired, nervous system disorders coma, central nervous uncommon: system haemorrhages and cerebrovascular accidents, paralysis and paresis, encephalopathy, speech and language abnormalities, amne hypertonia myasthenia very rare: Eye disorders vision blurrec photophobia, ey disorders cataract **blindness** Ear and labyrinth disorders

back pain uncommon: joint disorders

Endocrine disorders

rare: hirsutism

Metabolism and nutrition disorders

very common: hyperglycaemic conditions, diabetes

mellitus, hyperkalaemia

common: hypomagnesaemia, hypophosphataemia,

hypokalaemia, hypocalcaemia, hyponatraemia, fluid overload, hyperuricaemia,

appetite decreased, anorexia, metabolic

acidoses,

hyperlipidaemia, hypercholesterolaemia, hypertriglyceridaemia,

other electrolyte abnormalities

uncommon: dehydration,

hypoproteinaemia, hyperphosphataemia, hypoglycaemia

<u>Infections</u> and infestations

As is well known for other potent immunosuppressive agents, patients receiving tacrolimus are frequently at increased risk for infections (viral, bacterial, fungal, protozoal). The course of pre-existing infections may be aggravated. Both generalised and localised infections can occur.

Cases of BK virus associated nephropathy, as well as cases of JC virus associated progressive multifocal leukoencephalopathy (PML), have been reported in patients treated with immunosuppressants, including Prograf.

Neoplasms benign, malignant and unspecified (including cysts and polyps)

Patients receiving immunosuppressive therapy are at increased risk of developing malignancies. Benign as well as malignant neoplasms including EBV-associated lymphoproliferative disorders and skin malignancies have been reported in association with tacrolimus treatment.

Vascular disorders

very common: hypertension common: haemorrhage,

thromboembolic and

Vascular disorders ischaemic events, very common: hypertension peripheral vascular haemorrhage, thrombembolic disorders, vascular common: and ischaemic events, hypotensive disorders peripheral vascular disorders, infarction, venous uncommon: vascular hypotensive thrombosis deep limb, disorders shock uncommon: infarction, venous thrombosis deep limb, shock Hepatobiliary disorders common: hepatic enzymes and function abnormalities, cholestasis and jaundice, hepatocellular damage and hepatitis, cholangitis rare: hepatitic artery thrombosis, venoocclusive liver disease very rare: hepatic failure, bile duct stenosis Skin and subcutaneous tissue disorders common: pruritus, rash, alopecias, acne, sweating increased dermatitis, photosensitivity uncommon: rare: toxic epidermal necrolysis (Lyell's syndrome) very rare: Stevens Johnson syndrome Musculoskeletal and connective tissue disorders common: arthralgia, muscle cramps, pain in limb, back pain uncommon: joint disorders Reproductive system and breast disorders General disorders and administration site uncommon: dysmenorrhoea and uterine conditions bleeding common: asthenic conditions, febrile disorders, oedema, General disorders and administration site pain and discomfort, conditions blood alkaline common: asthenic conditions, febrile phosphatase increased. disorders, oedema, pain and weight increased, body discomfort, blood alkaline temperature perception disturbed phosphatase increased, weight increased, body multi-organ failure, uncommon: temperature perception influenza like illness, temperature intolerance, disturbed uncommon: multi-organ failure, influenza chest pressure sensation, like illness, temperature feeling jittery, feeling intolerance, chest pressure abnormal, blood lactate sensation, feeling jittery, dehydrogenase increased, feeling abnormal, blood weight decreased lactate dehydrogenase rare: thirst, fall, chest increased, weight decreased tightness, mobility thirst, fall, chest tightness, decreased, ulcer mobility decreased, ulcer fat tissue increased very rare: very rare: fat tissue increased <u>Immune system disorders</u>

Allergic and anaphylactoid reactions have

Skin and subcutaneous tissue disorders
common: pruritus, rash, alopecia,
acne, sweating increased
uncommon: dermatitis,
photosensitivity
rare: toxic epidermal
necrolysis (Lyell's syndrome)
very rare: Stevens Johnson
syndrome

Musculoskeletal and connective tissue
disorders
common: arthralgia, muscle
cramps, pain in limb.

back pain

Endocrine disorders
rare: hirsutism

uncommon: ioint disorders

Metabolism and nutrition disorders hyperglycaemic very common: conditions, diabetes <mark>mellitus, hyperkalaemia</mark> hypomagnesaemia, common: hypophosphataemia, rypokalaemia, rypocalcaemia, nyponatraemia, fluid overload, hyperuricaemia, appetite decreased, anorexia, metabolic acidoses, hyperlipidaemia, nypercholesterolaemia, nypertriglyceridaemia, other electrolyte abnormalities

hypoproteinaemia, hyperphosphataemia hypoglycaemia Infections and infestations

uncommon:

dehydration,

As is well known for other potent immunosuppressive agents, patients receiving tacrolimus are frequently at increased risk for infections (viral, bacterial, fungal, protozoal). The course of pre-existing infections may be aggravated. Both generalised and localised infections can occur.

Cases of BK virus associated nephropathy, as well as cases of JC virus associated progressive multifocal leukoencephalopathy

(PML), have been reported in patients treated with immunosuppressants, including Prograf.

been observed in patients receiving tacrolimus (see section 4.4).

Hepatobiliary disorders

common: hepatic enzymes and

function abnormalities, cholestasis and jaundice, hepatocellular damage and hepatitis, cholangitis

rare: hepatitic artery

thrombosis,

venoocclusive liver

disease

very rare: hepatic failure, bile duct

stenosis

Reproductive system and breast disorders

uncommon: dysmenorrhoea and

uterine bleeding

Psychiatric disorders

very common: insomnia

common: anxiety symptoms,

confusion and disorientation,

depression, depressed mood, mood disorders and disturbances,

nightmare, hallucination,

mental disorders

uncommon: psychotic disorder

Injury, poisoning and procedural Injury, poisoning and procedural complications complications common: primary graft dysfunction common: primary graft dysfunction Neoplasms benign, malignant and unspecified (including cysts and polyps) Patients receiving immunosuppressive therapy are at increased risk of developing malignancies. Benign as well as malignant neoplasms including EBV-associated lymphoproliferative disorders and skin malignancies have been reported in association with tacrolimus treatment. Vascular disorders very common: hypertension common: haemorrhage, thromboembolic and ischaemic events, peripheral vascular disorders, vascular hypotensive disorders infarction, venous uncommon: thrombosis deep limb, shock General disorders and administration site conditions asthenic conditions, febrile disorders, oedema, pain and discomfort, blood alkaline phosphatase increased, weight increased, body temperature perception disturbed multi-organ failure, uncommon: influenza like illness, temperature intolerance, chest pressure sensation, feeling jittery, feeling abnormal, blood lactate dehydrogenase increased, weight decreased thirst, fall, chest tightness mobility decreased, ulcer very rare: fat tissue increased Immune system disorders Allergic and anaphylactoid reactions have been observed in patients receiving tacrolimus (see section 4.4). Hepatobiliary disorders common: hepatic enzymes and function abnormalities, cholestasis and jaundice, <mark>hepatocellular damage</mark> and hepatitis, cholangitis hepatitic artery

thrombosis; venocelusive liver disease hepatic failure, bile duct stenosis eproductive system and breast disorders dysmenorrhoea and uterine bleeding eychiatric disorders rry common: insomnia ommon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders ecommon: psychotic disorder
venoocclusive liver disease bry rare: hepatic failure, bile duct stenosis eproductive system and breast disorders neommon: dysmenorrhoea and uterine bleeding rychiatric disorders rry common: insomnia namion: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
productive system and breast disorders dysmenorrhoea and uterine bleeding pychiatric disorders pry common: insomnia pammon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
productive system and breast disorders dysmenorrhoea and uterine bleeding prychiatric disorders pry common: insomnia pammon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
stenosis eproductive system and breast disorders neommon: dysmenorrhoea and uterine bleeding eychiatric disorders ery common: insomnia emmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
eproductive system and breast disorders decommon: dysmenorrhoea and uterine bleeding eychiatric disorders ery common: insomnia emmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
rychiatric disorders rychiatric disorders rychiatric disorders rycommon: insomnia rymmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
rychiatric disorders rychiatric disorders rychiatric disorders rycommon: insomnia rymmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
tychiatric disorders tychiatric disorders
eychiatric disorders ery common: insomnia emmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
wmon: insomnia anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
wmon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
ommon: anxiety symptoms, confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
confusion and disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
disorientation, depression, depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
depressed mood, mood disorders and disturbances, nightmare, hallucination, mental disorders
hallucination, mental disorders
hallucination, mental disorders
hallucination, mental disorders
disorders
ecommon: psychotic disorder
psychotic disorder