הודעה על החמרה (מידע בטיחות) בעלון לרופא

(מעודכן 3102.50)

06/11/2013 : תאריך

שם תכשיר באנגלית ומספר הרישום: Torisel 143 18 32044 00

שם בעל הרישום: NEOPHARM LTD

טופס זה מיועד לפרוט ההחמרות בלבד!

	ההחמרות המבוקשות	
טקסט חדש	טקסט נוכחי	פרק בעלון
Patients may be immunosuppressed and should be carefully observed for the occurrence of infections, including opportunistic infections. Among patients receiving 175 mg/week for the treatment of MCL, infections (including grade 3 and 4 infections) were substantially increased compared to lower doses and compared to conventional chemotherapy. Cases of Pneumocystis jiroveci pneumonia (PCP) some with fatal outcomes, have been reported in patients who received temsirolimus, many of whom also received corticosteroids or other immunosuppressive agents. Prophylaxis of Pneumocystis jiroveci pneumonia (PCP) should be considered for patients who require concomitant use of corticosteroids or other immunosuppressive agents based upon current standard of care.	Infections Patients may be immunosuppressed and should be carefully observed for the occurrence of infections, including opportunistic infections. Among patients receiving 175 mg/week for the treatment of MCL, infections (including grade 3 and 4 infections) were substantially increased compared to lower doses and compared to conventional chemotherapy.	Special Warnings and Special Precautions for Use
Interstitial lung disease There have been cases of non-specific interstitial pneumonitis, including fatal reports, occurring in patients who received weekly intravenous Torisel. Some patients were asymptomatic or had minimal symptoms with	Interstitial lung disease There have been cases of non-specific interstitial pneumonitis, including fatal reports, occurring in patients who received weekly intravenous TORISEL. Some patients were	
pneumonitis detected on computed tomography scan or chest radiograph. Others presented with symptoms such as dyspnoea, cough, and fever. Some patients required discontinuation of Torisel or treatment with corticosteroids and/or antibiotics, while some patients continued treatment	asymptomatic or had minimal symptoms with pneumonitis detected on computed tomography scan or chest radiograph. Others presented with symptoms such as dyspnoea, cough, and	

without additional intervention. It is recommended that patients undergo baseline radiographic assessment by lung computed tomography scan or chest radiograph prior to the initiation of Torisel therapy. Periodical follow-up assessments may be considered. It is recommended that patients be followed closely for occurrence of clinical respiratory symptoms and patients should be advised to report promptly any new or worsening respiratory symptoms. If clinically significant respiratory symptoms develop, consider withholding Torisel administration until after recovery of symptoms and improvement of radiographic findings related to pneumonitis. Opportunistic infections such as PCP should be considered in the differential diagnosis. Empiric treatment with corticosteroids and/or antibiotics may be considered. For patients who require use of corticosteroids, prophylaxis of PCP should be considered based upon current standard of care.

fever. Some patients required discontinuation of TORISEL or treatment with corticosteroids and/or antibiotics, while some patients continued treatment without additional intervention. It is recommended that patients undergo baseline radiographic assessment by lung computed tomography scan or chest radiograph prior to the initiation of TORISEL therapy. Periodical follow-up assessments may be considered. It is recommended that patients be followed closely for occurrence of clinical respiratory symptoms and patients should be advised to report promptly any new or worsening respiratory symptoms. If clinically significant respiratory symptoms develop, consider withholding TORISEL administration until after recovery of symptoms and improvement of radiographic findings related to pneumonitis. Empiric treatment with corticosteroids and/or antibiotics may be considered.

Concomitant use of temsirolimus with sunitinib

The combination of temsirolimus and sunitinib resulted in doselimiting toxicity. Dose-limiting toxicities (grade 3/4 erythematous maculopapular rash, gout/cellulitis requiring hospitalisation) were observed in two out of three patients treated in the first cohort of a phase 1 study at doses of temsirolimus 15 mg intravenous per week and sunitinib 25 mg oral per day (days 1-28 followed by a 2-week rest) (see section 4.4).

Interactions with medicinal products that are P-glycoprotein substrates

In an *in vitro* study, temsirolimus inhibited the transport of P-glycoprotein (P-gp) substrates with an IC $_{50}$ value of 2 μ M. *In vivo*, the effect of P-gp inhibition has not been investigated in a clinical drug-drug interaction study, however, recent preliminary data from a phase 1 study of combined lenalidomide (dose of 25 mg) and temsirolimus (dose of 20 mg) seem to support the *in vitro* findings and suggest an increased risk of adverse events. Therefore, when temsirolimus is co-administered with medicinal products which are P-gp substrates (e.g. digoxin, vincristine, colchicine,

Other Forms of Interaction

Interaction with Other Medicinal

products and

Interactions with drugs that are P-glycoprotein substrates

In an *in vitro* study, temsirolimus inhibited the transport of P-glycoprotein (P-gp) substrates with an IC $_{50}$ value of 2 μ M. *In vivo*, the effect of P-gp inhibition has not been investigated, but mean C_{max} concentrations of temsirolimus are 2.6 μ M in MCL patients receiving the 175 mg IV dose of temsirolimus. Therefore, when temsirolimus is co-administered with medications which are P-gp substrates (e.g. digoxin, vincristine, colchicine, and paclitaxel) close monitoring for adverse events related to the co-administered drugs should be observed.

dabigatran, lenalidomide, and paclitaxel) close monitoring for adverse events related to the co-administered medicinal products should be observed. Summary of the safety profile Due to the different approved posology for RCC and MCL and Undesirable effects the dose-dependency of the frequency and severity of undesirable effects, adverse drug reactions are listed separately. The most serious reactions observed with Torisel in clinical trials are hypersensitivity/infusion reactions (including some life-threatening and rare fatal reactions), hyperglycaemia/glucose Renal cell carcinoma intolerance, infections, interstitial lung disease (pneumonitis), A total of 626 patients were randomly assigned in a phase 3, hyperlipaemia, intracranial haemorrhage, renal failure, three-arm, randomised, open-label study of Interferon alfa (IFNintestinal perforation, wound healing complication, α) alone, TORISEL alone, and TORISEL and IFN-α. A total of thrombocytopenia, neutropenia (including febrile neutropenia), 616 patients received treatment: 200 patients received IFN-α pulmonary embolism. weekly; 208 received TORISEL 25 mg weekly, and 208 patients received a combination of IFN-α and TORISEL weekly. Based The adverse reactions (all grades) experienced by at least 20% of on the results of the phase 3 study, elderly patients may be more the patients in renal cell carcinoma and mantle cell lymphoma likely to experience certain adverse reactions, including face registration studies include anaemia, nausea, rash (including rash, oedema and pneumonia. pruritic rash, maculopapular rash, pustular rash), decreased appetite, oedema asthenia, fatigue, thrombocytopaenia, diarrhea, pyrexia, The most serious reactions observed with TORISEL are epistaxis, mucosal inflammation, stomatitis, vomiting, hypersensitivity/infusion reactions (including some hyperglycemia, hypercholesterolemia, dysgeusia, pruritus, cough, life-threatening and rare fatal reactions), hyperglycaemia/glucose infection, pneumonia, dyspnoea. intolerance, infections, interstitial lung disease (pneumonitis), hyperlipaemia, intracerebral bleeding, renal failure, bowel perforation, and wound healing complication. The most common ($\geq 30\%$) adverse reactions (all grades) observed with TORISEL include anaemia, nausea, rash (including rash, pruritic rash, maculopapular rash, pustular rash), anorexia, oedema (including facial oedema and peripheral oedema), and asthenia. Cataracts have been observed in some patients who received the Cataracts have been observed in some patients who received the combination of temsirolimus and interferon- α . combination of temsirolimus and interferon- α . See section 4.4 for additional information concerning serious Based on the results of the phase 3 studies, elderly patients may be adverse reactions, including appropriate actions to be taken if more likely to experience certain adverse reactions, including face

oedema, pneumonia, pleural effusion, anxiety, depression, insomnia, dyspnoea, leukopaenia, lymphopaenia, myalgia, arthralgia, ageusia, dizziness, upper respiratory infection, mucositis, and rhinitis.

Serious adverse reactions observed in clinical trials of temsirolimus for advanced renal cell carcinoma, but not in clinical trials of temsirolimus for mantle cell lymphoma include: anaphylaxis, impaired wound healing, renal failure with fatal outcomes, and pulmonary embolus.

Serious adverse reactions observed in clinical trials of temsirolimus for mantle cell lymphoma, but not in clinical trials of temsirolimus for advanced renal cell carcinoma include: thrombocytopenia, and neutropenia (including febrile neutropenia).

See section 4.4 for additional information concerning serious adverse reactions, including appropriate actions to be taken if specific reactions occur.

The occurrence of undesirable effects following the dose of 175 mg Torisel/week for MCL, e.g. grade 3 or 4 infections or thrombocytopaenia, is associated with a higher incidence than that observed with either 75 mg Torisel/week or conventional chemotherapy.

Tabulated list of adverse reactions

Adverse reactions that were reported in RCC and MCL patients in the phase 3 studies are listed below (Table 1), by system organ class, frequency and grade of severity (NCI-CTCAE). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Adverse reactions are listed according to the following categories: Very common ($\geq 1/10$)

Common ($\geq 1/100$ to <1/10)

Uncommon ($\geq 1/1,000$ to < 1/100)

specific reactions occur.

The following list contains adverse reactions seen in RCC Clinical Trial 1. Only events for which there is at least reasonable suspicion of a causal relationship to intravenous treatment with TORISEL are listed.

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Adverse reactions are listed according to the following categories:

Very common: $\ge 1/10$ Common: $\ge 1/100$ to < 1/10

Uncommon: $\geq 1/1,000$ to < 1/100

Adverse Reaction	s in RCC Clinica	ıl Trial 1		
System Organ Class	Frequency	Adverse Reactions	All Grade s n (%)	Grade 3 & 4 n (%)
Infections and infestations	Very common	Bacterial and viral infections (including infection, cellulitis, herpes zoster, herpes simplex, bronchitis, sinusitis, abscess)*	42 (20)	6 (3)
	Very common	Urinary tract infection (including dysuria, haematuria, cystitis, urinary frequency, urinary tract infection)*	31 (15)	4 (2)
	Very common	Pharyngitis	25 (12) 20	0 (0)
	Very common	Rhinitis	(10)	0 (0)
•	Common	Pneumonia	17 (8)	5 (2)
	Common	Upper respiratory tract infection	14 (7)	0 (0)
	Common	Folliculitis	4(2)	0 (0)
Blood and lymphatic	Very common	Thrombocytopaenia	28 (14)	3 (1)
system disorders	37		94	41
uisoruers	Very common Common	Anaemia	(45)	(20)
		Neutropaenia	15 (7)	6 (3)
	Common	Leukopoenia	13 (6)	1(1)
	Common	Lymphopaenia	11 (5)	9 (4)
Immune system disorders	Common	Allergic/hypersensitivity reactions	18 (9)	0 (0)
Metabolism			20	
and nutrition	Very common	Hypokalaemia	(10)	7 (3)

System organ class	Frequency	Adverse reactions	All grades n (%)	Grade 3 & 4 n (%)
Infections and infestations	Very common	Bacterial and viral infections (including infection, viral infection, cellulitis, herpes zoster, oral herpes, influenza, herpes simplex, herpes zoster ophthalmic, herpes virus infection, bacterial infection, bronchitis*, abscess, wound infection, post-operative wound infections)	91 (28.3)	18 (5.6)
		Pneumonia ^a (including interstitial pneumonia)	35 (10.9)	16 (5.0)
	Common	Sepsis* (including, septic shock)	5 (1.5)	5 (1.5)
		Candidiasis (including oral and anal candidiasis) and fungal infection/fungal skin infections	16 (5.0)	0 (0.0)
		Urinary tract infection (including cystitis)	29 (9.0)	6 (1.9)
		Upper respiratory tract infection	26 (8.1)	0 (0.0)
		Pharyngitis	6 (1.9)	0(0.0)
		Sinusitis	10 (3.1)	0(0.0)
		Rhinitis	7 (2.2)	0 (0.0)
		Folliculitis	4 (1.2)	0 (0.0)
	Uncommon	Laryngitis	1 (0.3)	0 (0.0)
Blood and	Very common	Neutropaenia Neutropaenia	46 (14.3)	30 (9.3)
lymphatic system disorders		Thrombocytopaenia**	97 (30.2)	56 (17.4)
		Anaemia	132(41.1)	48 (15)
	Common	Leukopoenia **	29 (9.0)	10 (3.1)
		Lymphopaenia	25 (7.8)	16 (5.0)
Immune system disorders	Common	Hypersensitivity reactions / drug hyperensitiviy	24 (7.5)	1 (0.3)
Metabolism and	Very common	Hyperglycaemia	63 (19.6)	31 (9.7)
nutrition		Hypercholesterolaemia	60 (18.79)	1 (0.3)
disorders		Hypertriglyceridaemia	56 (17.4)	8 (2.5)
		Decreased appetite	107 (33.3)	9 (2.8)
		Hypokalaemia	44 (13.7)	13 (4.0)
	Common	Diabetes mellitus	10 (3.1)	2 (0.6)
		Dehydration	17 (5.3)	8 (2.5)
		Hypocalcaemia	21 (6.5)	5 (1.6)
		Hypophosphataemia	26 (8.1)	14 (4.4)
Psychiatric	Very	Hyperlipidaemia Hyperlipidaemia	4 (1.2)	0 (0.0)
disorders	Common	Insomnia	45 (14.0)	
	Common	Depression	16 (5.0)	0 (0.0)
Nervous system	Very common	Anxiety	28 (8.7) 55 (17.1)	0 (0.0)

Very common		ı	I		
Very common	disorders	***		66	(2)
Very common Mellitus** (26) (11)		Very common			-
Very common Hypercholesterolaemia (24) 1 (1)		***			
Very common		Very common	mellitus**		(11)
Very common Hyperlipaemia 57 (27) 8 (4)				1	
Very common Hyperlipaemia C27 8 (4)		Very common	Hypercholesterolaemia		1(1)
Common Hypophosphataemia 17 (8) 11 (5)				1 - /	
Psychiatric disorders		•			
Very common		Common	Hypophosphataemia	17 (8)	11 (5)
Nervous system disorders					
Nervous system disorders	disorders	Very common	Insomnia	(12)	1(1)
Nervous system disorders		Common	Anxiety	16 (8)	0 (0)
Very common Dysgeusia (15) 0 (0)		Common	Depression	9 (4)	0 (0)
Very common Dysgeusia (15) 0 (0)	Nervous system			31	
Common Somnolence 14 (7) 3 (1)		Very common	Dysgeusia	(15)	0 (0)
Common Paresthaesia 13 (6) 1 (1)		Common	Somnolence	14 (7)	
Common Dizziness 19 (9) 1 (1)		Common	Paresthaesia		
Common Ageusia 11 (5) 0 (0)			Dizziness		
Uncommon					
Cardiac disorders	•				-
Cardiac disorders	Evo disordors			1 (0.5)	1 (0.5)
Cardiac disorders	Lycuisorucis	Common			
Uncommon				15 (7)	1 (1)
Addominal pain Alamondynamically significant pericardial effusions requiring intervention	Cardiaa	Lincommon	,	13 (7)	1 (1)
Naemodynamically significant pericardial effusions requiring intervention		Uncommon	· -		
Pericardial effusions requiring intervention Vascular disorders Common Venous thromboembolism (including deep vein thrombosis, pulmonary embolus [including fatal outcomes], thrombosis)* Common Hypertension 14 (7) 3 (1) 0 (0)	uisoi uei s		haemodynamically significant	2(1)	1 (1)
Intervention Vascular disorders			pericardial effusions requiring	2(1)	1 (1)
Vascular disorders Common (including deep vein thrombosis, pulmonary embolus [including fatal outcomes], thrombosis)* 6 (3) 3 (1) Common Hypertension Common Thrombophlebitis 14 (7) 3 (1) Respiratory, thoracic and mediastinal disorders Very common Dyspnoea (28) 18 (9) Very common Poulumonitis [including fatal pneumonitis] (see section 4.4) (26) 2 (1) Very common Pleural effusion 8 (4) 5 (2) Gastrointestinal disorders Very common Vomiting 44 Very common Diarrhoea (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)					
Common Hypertension Hypertensi	Vaccular	Common	/		
Pulmonary embolus [including fatal outcomes], thrombosis)*		Common	l .		
Fatal outcomes], thrombosis)*	uisoi uci s			6 (3)	3 (1)
Common Hypertension 14 (7) 3 (1)					
Common Thrombophlebitis 2 (1) 0 (0)		Common		14 (7)	2 (1)
Note					
thoracic and mediastinal disorders Very common Epistaxis (28) 18 (9) Very common Epistaxis 25 (12) 0 (0) Very common Cough Common Preumonitis [including fatal pneumonitis] (see section 4.4) 4 (2) 1 (1) Common Pleural effusion Pleural effusion 8 (4) 5 (2) Gastrointestinal disorders Very common Abdominal pain (21) 9 (4) Very common Vomiting (19) 4 (2) 4 (2) Very common Stomatitis* (20) 3 (1) 57 Very common Diarrhoea (27) 3 (1) 77 Very common Abdominal distension 9 (4) 1 (1)	D	Common	Thromoophieottis		0 (0)
Very common Epistaxis Common Epistaxis Common Cough Common Pneumonitis [including fatal pneumonitis] (see section 4.4) Common Pleural effusion Common Common Pleural effusion Common			Danning		10 (0)
Very common Epistaxis (12) 0 (0)		very common	Dyspnoea		18 (9)
Very common Cough Common Pneumonitis [including fatal pneumonitis] (see section 4.4) 4 (2) 1 (1)			E-i-ti-	_	0 (0)
Very common Cough (26) 2 (1) Common Pneumonitis [including fatal pneumonitis] (see section 4.4) 4 (2) 1 (1) Common Pleural effusion 8 (4) 5 (2) Gastrointestinal disorders Very common Abdominal pain (21) 9 (4) Very common Vomiting (19) 4 (2) Very common Stomatitis* (20) 3 (1) Very common Diarrhoea (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)	disorders	very common	Epistaxis		0 (0)
Common			Corrects	_	2(1)
Pieumonitis (see section 4.4) 4 (2) 1 (1)				(26)	2(1)
Common Pleural effusion 8 (4) 5 (2)		Common		4.00	1 (1)
Very common Abdominal pain 44 40 40 40 40 40 40 4		-			
disorders Very common Abdominal pain (21) 9 (4) Very common Vomiting (19) 4 (2) Very common Stomatitis* (20) 3 (1) 57 (27) 3 (1) Very common Diarrhoea (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)		Common	Pieural effusion		5 (2)
Very common Vomiting 40 42 Very common 42 42 42 Very common 57 20 3 (1) Very common Diarrhoea (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)		**	l ., , . , .	1	0.40
Very common Vomiting (19) 4 (2) Very common Stomatitis* (20) 3 (1) 57 (27) 3 (1) Very common Diarrhoea (27) 3 (1) 77 77 Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)	disorders	Very common	Abdominal pain		9 (4)
Very common Stomatitis* 42 (20) 3 (1) Very common 57 (27) 3 (1) Very common 77 (37) 5 (2) Very common Abdominal distension 9 (4) 1 (1)					
Very common Stomatitis* (20) 3 (1) Very common Diarrhoea (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)		Very common	Vomiting		4(2)
Very common Diarrhoea 57 (27) 3 (1) Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)			l a		2 (1)
Very common Diarrhoea (27) 3 (1) Very common 77 (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)		Very common	Stomatitis*		3(1)
Very common Nausea (37) 5 (2) Common Abdominal distension 9 (4) 1 (1)				1	
Very commonNausea(37)5 (2)CommonAbdominal distension9 (4)1 (1)		Very common	Diarrhoea		3 (1)
Common Abdominal distension 9 (4) 1 (1)					
Common Oral pain 5 (2) 0 (0)		Common			
		Common	Oral pain	5 (2)	0 (0)

disorders		Headache Headache	55 (17.1)	2 (0.6)
	Common	Dizziness	30 (9.3)	1 (0.3)
		Paresthaesia	21 (6.5)	1 (0.3)
		Somnolence	8 (2.5)	1 (0.3)
		Ageusia	6 (1.9)	0 (0.0)
	Uncommon	Intracranial haemorrhage	1 (0.3)	1 (0.3)
Eye disorders	Common	Conjunctivitis (including conjunctivitis, lacrimal disorder)	16 (6.0)	1 (0.3)
	Uncommon	Eye haemorrhage***	3 (0.9)	0 (0.0)
Cardiac disorders	Uncommon	Pericardial effusion	3 (0.9)	1 (0.3)
Vascular disorders	Common	Venous thromboembolism (including deep vein thrombosis, venous thrombosis)	7 (2.2)	4 (1.2)
		Thrombophlebitis	4 (1.2)	0 (0.0)
		Hypertension	20 (6.2)	3 (0.9)
Respiratory,	Very common	Dyspnoea ^a	79 (24.6)	27 (8.4)
thoracic and		Epistaxis **	69 (21.5)	1 (0.3)
mediastinal		Cough	93 (29)	3 (0.9)
disorders	Common	Pneumonitis ^a	7 (2.2)	2 (0.6)
		Interstitial lung disease	6 (1.9)	3 (0.9)
	**	Pleural effusion ^{a,b}	19 (5.9)	9 (2.8)
C + : + +: 1	Uncommon	Pulmonary embolism ^a	2 (0.6)	1 (0.3)
Gastrointestinal	Very common	Nausea D: 1	109 (34.0)	5 (1.6)
disorders		Diarrhoea	109(34.0)	16 (5.0)
		Stomatitis Vomiting	67 (20.9)	3 (0.9)
		Constipation	57 (17.8) 56 (17.4)	4 (1.2) 0 (0.0)
		Abdominal pain	56 (17.4)	10 (3.1)
	Common	Abdominai pani	16 (5.0)	4 (1.2)
	Common	Gastrointestinal haemorrhage (including anal, rectal,	10 (3.0)	7 (1.2)
		haemorrhoidal, lip, and mouth haemorrhage, gingival bleeding)		
		Gastritis **	7 (2.1)	2 (0.6)
		Dysphagia	13 (4.0)	0 (0.0)
		Abdominal distension	14 (4.4)	1 (0.3)
		Aphthous stomatitis	15 (4.7)	1 (0.3)
		Oral pain	9 (2.8)	1 (0.3)
		Gingivitis	6 (1.9)	0 (0.0)
	Uncommon	Intestinal ^a /duodenal perforation	2 (0.6)	1 (0.3)
Skin and	Very common		138 (43.0)	16 (5.0)
subcutaneous		Rash (including rash, pruritic rash,		
tissue disorders		maculo-papular rash, rash,		
		generalized rash, macular rash, papular rash)		
		Pruritus (including pruritus	69 (21.5)	4 (1.2)
		generalised) Dry skin	22 (10.0)	1 (0.2)
	Common		32 (10.0) 6 (1.9)	1 (0.3)
	Common	Dermatitis Explaintive resh		0 (0.0)
		Exfoliative rash	5 (1.6)	0 (0.0

	Common	Gingivitis	5 (2)	0 (0)
	Common	Aphthous stomatitis	8 (4)	1 (0)
	Uncommon	Bowel perforation	1 (0.5)	1 (0.5)
Skin and subcutaneous tissue disorders	Very common	Rash (including rash, pruritic rash, maculopapular rash, pustular rash)*	88 (42)	10 (5)
	Very common	Pruritus	40 (19)	1 (1)
	Very common	Acne	(10)	0 (0)
	Very common	Nail disorder	28 (14)	0 (0)
	Very common	Dry skin	(11)	1(1)
1	Common	Exfoliative dermatitis	16 (8)	0 (0)
Musculoskeletal and connective	Very common	Back pain	41 (20)	6 (3)
tissue disorders	Very common	Arthralgia	37 (18)	2 (1)
	Common	Myalgia (including myalgia, leg cramps)*	17 (8)	1 (1)
Renal and urinary disorders	Common	Renal failure [including fatal outcomes] (see section 4.4)	4 (2)	2 (1)
General Very common disorders and administration		Oedema (including oedema, facial oedema, peripheral oedema)*	72 (35)	7 (3)
site conditions	Very common	Asthenia	106 (51)	23 (11)
	Very common	Pain	59 (28) 51	11 (5)
	Very common	Pyrexia	(24)	1(1)
	Very common	Mucositis	(19)	2 (1)
	Very common	Chest pain Chills	(16)	2(1)
	Common	Impaired wound healing	3(1)	0 (0)
Investigations	Collillon	impaned would healing	30	0 (0)
invesugations	Very common	Blood creatinine increased	(14)	6 (3)
	Common	Increased aspartate aminotransferase	17 (8)	3 (1)
The state of the s	Common	Increased alanine aminotransferase	12 (6)	1(1)

*Body system totals are not necessarily the sum of the individual adverse events, since a subject may report two or more different adverse events in the same body system.

**Patients should be advised that treatment with TORISEL may be

**Patients should be advised that treatment with TORISEL may be associated with an increase in blood glucose levels in diabetic and non-diabetic patients.

Mantle cell lymphoma

		Acne	15 (4.7)	0(0.0)
		Nail disorder	26 (8.1)	0 (0.0)
		Ecchymosis***	5 (1.6)	0 (0.0)
		Petechiae***	4 (1.2)	0 (0.0)
Musculoskeletal and connective	Very common	Arthralgia	50 (15.6)	2 (0.6)
tissue disorders		Back pain	53 (16.5)	8 (2.5)
tissue disorders	Common	Myalgia	19 (5.9)	0 (0.0)
Renal and	Common	Renal failure ^a	5 (1.6)	0 (0.0)
urinary disorders				
General	Very common	Fatigue	133 (41.4)	31 (9.7)
disorders and administration		Oedema (including generalized	122 (38.0)	11 (3.4)
site conditions		oedema, facial oedema, peripheral		
		oedema, scrotal oedema, genital		
		oedema)	(7 (20.0)	16 (5.0)
		Asthenia ^a	67 (20.9)	16 (5.0)
		Mucosal inflammation	66 (20.6)	7 (2.2)
		Pyrexia	91 (28.3)	5 (1.6)
		Pain	36 (11.2)	7 (2.2)
		Chills	32 (10.0)	1 (0.3)
		Chest pain	32 (10.0)	1 (0.3)
	Uncommon	Impaired wound healing	2 (0.6)	0 (0.0)
Investigations	Very common	Blood creatinine increased	35 (10.9)	4 (1.2)
	Common	Increased aspartate	27 (8.4)	5 (1.6)
		aminotransferase		
	Common	Increased alanine aminotransferase	17 (5.3)	2 (0.6)
a: one fatal cas	<u>. </u>			

a: one fatal case

b: One pleural effusion fatal event occurred in the low-dose (175/25 mg) arm of the MCL study

*Most NCI-CTC grade 3 and above reactions observed in clinical trials of temsirolimus for mantle cell lymphoma

** Most NCI-CTC all grades reactions observed in clinical trials of temsirolimus for mantle cell lymphoma

*** All NCI-CTC Grade 1 and 2 reactions observed in clinical trials of temsirolimus for mantle cell lymphoma

Adverse reactions that were reported in post-marketing experience are listed below (Table 2), by system organ class and frequency as follows:

Rare ($\geq 1/10,000$ to $\leq 1/1,000$)

Not known (cannot be estimated from the available data).

Table 2: adverse reactions reported in post-marketing setting

A total of 54 patients were treated with 175/75 mg TORISEL in the MCL Clinical Trial, a phase 3, three-arm, randomised, open-label study of TORISEL comparing 2 different dosing regimens of temsirolimus with an investigator's choice of therapy in patients with relapsed and/or refractory mantle cell lymphoma. Based on the results of the phase 3 study, elderly patients (≥65 years) may be more likely to experience certain adverse reactions, including pleural effusion, anxiety, depression, insomnia, dyspnoea, leukopaenia, lymphopaenia, myalgia, arthralgia, taste loss, dizziness, upper respiratory infection, mucositis, and rhinitis.

The most serious reactions observed with TORISEL are thrombocytopaenia, neutropaenia, infections, interstitial lung disease (pneumonitis), bowel perforation, hypersensitivity reactions, and hyperglycaemia/glucose intolerance.

The most common (≥30%) adverse reactions (all grades) observed with TORISEL include thrombocytopaenia, asthenia, anaemia, diarrhoea, bacterial and viral infections*, rash*, pyrexia, anorexia, epistaxis, mucositis, oedema*, and stomatitis*.

The occurrence of undesirable effects following the dose of 175 mg TORISEL/week for MCL, e.g. grade 3 or 4 infections or thrombocytopaenia, is associated with a higher incidence than that observed with either 75 mg TORISEL/week or conventional chemotherapy.

*See table below for additional terms included with these adverse reactions.

See section 4.4 for additional information concerning serious adverse reactions, including appropriate actions to be taken if specific reactions occur.

The following list contains adverse reactions seen in the MCL

System Organ class	Frequency	Adverse reactions
Infections and	Rare	Pneumocystis
infestations		jiroveci pneumonia
Immune system	Not known	Angioneurotic
disorders		<mark>oedema-type</mark>
		reactions
Skin and	Not known	Stevens-Johnson
subcutaneous		syndrome
tissue disorders		
Musculoskeletal	Not known	Rhabdomyolysis
and connective		
tissue disorders		

Post-marketing experience

Angioneurotic oedema-type reactions in some patients who received temsirolimus and ACE-inhibitors concomitantly.

Cases of Pneumocystis jiroveci pneumonia, some with fatal outcomes, have been reported (see section 4.4).

Clinical Trial. Only events for which there is at least reasonable suspicion of a causal relationship to intravenous treatment with TORISEL are listed.

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Adverse reactions are listed according to the following categories:

Very common: $\ge 1/10$ Common: $\ge 1/100$ to < 1/10

	Adverse 1	Reactions in MCL Clinical Trial		
System Organ Class	Frequency	Adverse Reactions	All Grade s n (%)	Grade 3 & 4 n (%)
Infections and infestations	Very common	Bacterial and viral infections (including infection, cellulitis, bronchitis, sinusitis, herpes zoster, herpes simplex)*	23 (43)	8 (15)
	Very common	Pneumonia (including interstitial pneumonia)**	8 (15)	6 (11)
	Very common	Urinary tract infection (including dysuria, urinary frequency, urinary tract infection, urinary urgency)*	8 (15)	0 (0)
	Very common	Pharyngitis	4 (7)	0 (0)
	Very common	Upper respiratory tract infection	8 (15)	0 (0)
	Common	Sepsis (including sepsis, septic shock)*	3 (6)	3 (6)
	Common	Rhinitis	5 (9)	0 (0)
	Common	Folliculitis	1 (2)	0 (0)
Blood and lymphatic	- ' '	39 (72)	32 (59)	
system disorders	Very common	Anaemia	28 (52)	11 (20)
	Very common	Neutropaenia**	13 (24)	8 (15)
	Very common	Leukopaenia	8 (15)	4 (7)
	Very common	Lymphopaenia	6 (11)	4 (7)
Immune system disorders	Common	Allergic/hypersensitivity reactions	1 (2)	0 (0)
Metabolism	Very	Hypokalaemia	10 (19)	4 (7)

and nutrition	common			
disorders	Very common	Anorexia	20 (37)	1(2)
	Very		6 (11)	6 (11)
<u> </u>	common	Hyperglycaemia***	6 (11)	6 (11)
	Very	T 11 . 1 .	7 (13)	0 (0)
-	Common	Hypercholesterolaemia Dehydration	3 (6)	2 (4)
·	Common	Hypophosphataemia	3 (6)	0 (0)
· -	Common	Hyperlipaemia Hyperlipaemia	5 (9)	1 (2)
	Common	Hypocalcaemia	5 (9)	1 (2)
Psychiatric	Very			
disorders	common	Insomnia	11 (20)	0 (0)
	Very		8 (15)	0 (0)
	common	Anxiety		
NT .	Common	Depression	5 (9)	0 (0)
Nervous system disorders	Very common	Dysgeusia	8 (15)	0 (0)
415014615	Common	Paresthaesia	4 (7)	0 (0)
	Common	Dizziness	3 (6)	0 (0)
ľ	Common	Ageusia	5 (9)	0 (0)
Eye disorders	Common	Conjunctivitis	4 (7)	0 (0)
	Common	Eye haemorrhage	2 (4)	0 (0)
Vascular disorders	Common	Thrombosis (including deep venous thrombosis, thrombosis)*	3 (6)	1 (2)
•	Common	Hypertension	2 (4)	0 (0)
Respiratory,	Very		- (.)	* (*)
thoracic and	common	Dyspnoea	10 (19)	4 (7)
mediastinal	Very			
disorders	common	Epistaxis	19 (35)	0 (0)
	Very		14 (20)	0 (0)
-	Common	Cough Pneumonitis****	14 (26) 2 (4)	0 (0)
Gastrointestina	Very	1 licumonitis	2 (4)	0 (0)
l disorders	common	Abdominal pain	11 (20)	1(2)
	Very			
	common	Vomiting	9 (17)	0 (0)
	Very common	Stomatitis (including aphthous stomatitis, mouth ulceration, stomatitis, glossitis, oral pain)*	16 (30)	1 (2)
	Very common	Diarrhoea	24 (44)	4 (7)
	Very common	Nausea	14 (26)	0 (0)
ļ.	Common	Bowel perforation	1 (2)	1 (2)
	Common	Gastrointestinal haemorrhage (including gastrointestinal haemorrhage, rectal haemorrhage)*	6 (11)	2 (4)
	Common	Gingivitis	2 (4)	0 (0)
	Common	Gastritis	3 (6)	1(2)

Skin and	V	D1. (:1 d:1		
subcutaneous	Very	Rash (including rash, pruritic rash, maculopapular rash,	22 (41)	4 (7)
tissue disorders	common	pustular rash, eczema)*	22 (41)	4 (7)
ussue disorders	**	pusturar rash, eczenia)		
	Very	P	14 (26)	2 (4)
	common	Pruritus	. ,	()
	Very	NY 21 12 1	8 (15)	0 (0)
	common	Nail disorder	` ′	` '
	Very	D 1:	7 (13)	0 (0)
	common	Dry skin	4 (7)	0 (0)
	Common	Acne	4 (7)	0 (0)
	Common	Moniliasis (including moniliasis, oral moniliasis)*	2 (4)	0 (0)
	Common	Fungal dermatitis	1(2)	0 (0)
	Common	Ecchymosis	4 (7)	0 (0)
Musculoskeleta	Very		7 (13)	0 (0)
l, connective	common	Back pain	7 (13)	0 (0)
tissue and bone	Very		11 (20)	1 (2)
disorders	common	Arthralgia	11 (20)	1 (2)
	Very	Myalgia (including muscle	9 (17)	0 (0)
	common	cramps, leg cramps, myalgia)*	7 (17)	0 (0)
General	Very	Oedema (including oedema,		
disorders and	common	facial oedema, peripheral	19 (35)	1 (2)
administration		oedema, scrotal oedema, genital	17 (33)	1 (2)
site conditions		oedema, generalised oedema)*		
	Very		34 (63)	7 (13)
	common	Asthenia	31 (03)	, (13)
	Very		15 (28)	1 (2)
	common	Pain	-5 (20)	- (-)
	Very		21 (39)	3 (6)
	common	Pyrexia	(-,)	- (-)
	Very	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	19 (35)	3 (6)
	common	Mucositis	` ′	
	Very	Chills	14 (26)	1(2)
	common	Cl	` ′	` ,
T4:4:	Common	Chest pain	4 (7)	0 (0)
Investigations	Common	Blood creatinine increased	4 (7)	0 (0)
	Common	Increased aspartate	2 (4)	1(2)
	Common	Increased alanine	` ′	` '
	Commission		1(2)	1 (2)
	Common	aminotransferase	` ′	` ′

^{*}Body system totals are not necessarily the sum of the individual adverse events since a subject may report two or more different adverse events in the same body system.

^{**}Grades 3 and 4 (thrombocytopaenia) are defined as 50,000-25,000 platelets/mm³ and <25,000 platelets/mm³, respectively. Grades 3 and 4 (neutropaenia) are defined as 1000-500 neutrophils/mm³ and <500 neutrophils/mm³, respectively.

^{***}Patients should be advised that treatment with TORISEL may be associated with an increase in blood glucose levels in diabetic and non-diabetic patients.

	****One case of fatal pneumonitis was reported in a mantle cell lymphoma patient receiving 175/25 mg/week that is not included in this table.	
	Serious adverse reactions observed in clinical trials of temsirolimus for advanced renal cell carcinoma, but not in clinical trials of temsirolimus for mantle cell lymphoma include: anaphylaxis, impaired wound healing, renal failure with fatal outcomes, and pulmonary embolus.	
	Adverse reactions for which frequency is undetermined	
	Angioneurotic oedema-type reactions in some patients who received temsirolimus and ACE-inhibitors concomitantly.	
	Post Marketing Experience	
	There have been reports of Stevens-Johnson syndrome in patients who received TORISEL.	
	There have been reports of rhabdomyolysis in patients who received TORISEL.	
During handling and preparation of admixtures, Torisel should be protected from excessive room light and sunlight.	During handling and preparation of admixtures, TORISEL should be protected from excessive room light and sunlight.	Special precautions for disposal and other
Torisel, when diluted, contains polysorbate 80, which is known to increase the rate of di-(2-ethylhexyl) phthalate (DEHP) extraction from polyvinyl chloride (PVC).	TORISEL, when diluted, contains polysorbate 80, which is known to increase the rate of di-(2-ethylhexyl) phthalate (DEHP) extraction from polyvinyl chloride (PVC).	handling
Therefore, PVC bags and medical devices must not be used for the preparation, storage and administration of Torisel solutions for infusions.	Therefore, PVC bags and medical devices must not be used for the preparation, storage and administration of TORISEL solutions for infusions.	
Bags/containers that come in contact with Torisel must be made of glass, polyolefin, or polyethylene.	Bags/containers that come in contact with TORISEL must be made of glass, polyolefin, or polyethylene.	
Torisel concentrate and diluent should be inspected visually for particulate matter and discolouration prior to administration.		

Do not use if particulates are present, or if discoloured. Use a new vial.

Dilution

Torisel 30 mg concentrate must be diluted with the supplied diluent before administration in sodium chloride infusion.

Note: For mantle cell lymphoma, multiple vials will be required for each dose over 25 mg. Each vial of Torisel must be diluted according to the instructions below. The required amount of concentrate-diluent mixture from each vial must be combined in one syringe for rapid injection into 250 ml of sodium chloride 9 mg/ml (0.9%) solution for injection (see section 4.2).

The concentrate-diluent mixture should be inspected visually for particulate matter and discolouration.

Do not use if particulates are present, or if discoloured.

Dilution

TORISEL 30 mg concentrate must be diluted with the supplied diluent before administration in sodium chloride infusion.

Note: For mantle cell lymphoma, multiple vials will be required for each dose over 25 mg. Each vial of TORISEL must be diluted according to the instructions below. The required amount of concentrate-diluent mixture from each vial must be combined in one syringe for rapid injection into 250 ml of sodium chloride 9 mg/ml (0.9%) solution for injection (see section 4.2).