001FSXS03				rotoxicity is observed. Table 3 - Dose modification table fo	r ALIMTA (as single agent or in combinatio	n) and cisplatin - Neurotovicity
	TA 100 N/C		CTC ^a Grade	Tuble 0 - 1905t mounteauon table 10.	Dose of ALIMTA (mg/m ²)	Dose for cisplatin (
	TA 100 MG		0-1		100 % of previous dose	100 % of previou
POWDER FOR CONCENTRA	ATE FOR SOLUTION FOR INF	USION	$\frac{0-1}{2}$		100 % of previous dose	50 % of previou
	TA 500 MG		^a National Cancer	Institute Common Toxicity Criteria (CTC v2.0;	*	50 % of previous
	ATE FOR SOLUTION FOR INF	USION	Treatment with A	LIMTA should be discontinued if a patier	nt experiences any haematologic or non-haema	atologic Grade 3 or 4 toxicity after
FOW DER FOR CONCENTRA	TE FOR SOLUTION FOR INF		immediately if G	rade 3 or 4 neurotoxicity is observed.	x v c	
1. NAME OF THE MEDICINAL PRODUCT		Lilly	Elderly: In clinic	al studies, there has been no indication tha . No dose reductions other than those reco	t patients 65 years of age or older are at increas	sed risk of adverse events compare
ALIMTA 100 mg powder for concentrate for solution for infusion.		any	Paediatric popula		miniended for an patients are necessary.	
ALIMTA 500 mg powder for concentrate for solution for infusion.			There is no releva	ant use of ALIMTA in the paediatric popul	lation in malignant pleural mesothelioma and n	
2. QUALITATIVE AND QUANTITATIVE COMPOSITION	1. \		Patients with ren	nal impairment (Standard Cockcroft and	l Gault formula or Glomerular Filtration Rat excretion. In clinical studies, patients with c	te measured Tc99m-DPTA serum
Each vial contains 100 mg or 500 mg of pemetrexed (as pemetrexed diso After reconstitution (see section 6.6), each vial contains 25 mg/ml of pem			adjustments othe	r than those recommended for all patient	ts. There are insufficient data on the use of po	emetrexed in patients with creating
Excipients with known effect:			45 ml/min; theref	fore the use of pemetrexed is not recomme	ended (see section 4.4).	
Each 100 mg vial contains approximately 11 mg sodium.			Patients with hep	<i>patic impairment</i> : No relationships between	en AST (SGOT), ALT (SGPT), or total bilirul $n > 1.5$ times the upper limit of normal and/or	bin and pemetrexed pharmacoking
Each 500 mg vial contains approximately 54 mg sodium. For the full list of excipients see section 6.1.			(hepatic metastas	es absent) or > 5.0 times the upper limit of	n > 1.5 times the upper limit of normal and/or f normal (hepatic metastases present) have not	been specifically studied.
Not all strengths may be marketed.			Method of admin	istration:		
3. PHARMACEUTICAL FORM			For Precautions t	o be taken before handling or administerin	ng ALIMTA, see section 6.6.	av avala E-r inst
Powder for concentrate for solution for infusion.			of ALIMTA should	be administered as an intravenous infusion re administration, see section 6.6.	n over 10 minutes on the first day of each 21-da	ay cycle. For instructions on recon
White to either light yellow or green-yellow lyophilised powder.			4.3 Contraindio			
4. CLINICAL PARTICULARS			Hypersensitivity	to the active substance or to any of the exc	cipients listed in section 6.1.	
4.1 Therapeutic indications			Breast-feeding (s	ee section 4.6).		
<u>Malignant pleural mesothelioma</u> ALIMTA in combination with cisplatin is indicated for the treatment of c	nemotherapy naïve natients with unresectable mal	lignant pleural mesothelioma	•	ow fever vaccine (see section 4.5).		
Non-small cell lung cancer			4.4 Special war <i>For 100 mg and</i>	nings and precautions for use		
ALIMTA in combination with cisplatin is indicated for the first line treat than predominantly squamous cell histology (see section 5.1).	tment of patients with locally advanced or metas	static non-small cell lung cancer other	•	5	anifested by neutropenia, thrombocytopenia	and anaemia (or paneutopenia
ALIMTA is indicated as monotherapy for the maintenance treatment of	f locally advanced or metastatic non-small cell l	ung cancer other than predominantly	Myelosuppressio	n is usually the dose-limiting toxicity. Pat	tients should be monitored for myelosuppression	on during therapy and pemetrexed
squamous cell histology in patients whose disease has not progressed imr	nediately following platinum-based chemotherapy	y (see section 5.1).	to patients until a	bsolute neutrophil count (ANC) returns to	$b \ge 1500$ cells/mm ³ and platelet count returns to	$o \ge 100,000$ cells/mm ³ . Dose redu
ALIMTA is indicated as monotherapy for the second line treatment o	f patients with locally advanced or metastatic n	on-small cell lung cancer other than			m non-haematologic toxicity seen from the pre d non-haematologic toxicities such as neutrop	
predominantly squamous cell histology (see section 5.1). 4.2 Posology and method of administration			neutropenia were	e reported when pre-treatment with folic	e acid and vitamin B_{12} was administered. The	erefore, all patients treated with
Posology:			instructed to take	folic acid and vitamin B ₁₂ as a prophylact	tic measure to reduce treatment-related toxicity	(see section 4.2).
ALIMTA must only be administered under the supervision of a physician	qualified in the use of anti-cancer chemotherapy.			ve been reported in patients not pre-treated eactions (see section 4.2).	d with a corticosteroid. Pre-treatment with dexa	methasone (or equivalent) can redu
ALIMTA in combination with cisplatin	(DSA) administered on an introvenous infusion	n over 10 minutes on the first day of			creatinine clearance of below 45 ml/min. There	efore, the use of pemetrexed in pa
The recommended dose of ALIMTA is 500 mg/m ² of body surface are each 21-day cycle. The recommended dose of cisplatin is 75 mg/m ² BSA	(BSA) administered as an intravenous infusion infused over two hours approximately 30 minute	es after completion of the pemetrexed	clearance of < 45	ml/min is not recommended (see section -	4.2).	
infusion on the first day of each 21-day cycle. Patients must receive ad	equate anti-emetic treatment and appropriate hydrogeneous	dration prior to and/or after receiving	Patients with mi	ld to moderate renal insufficiency (creati	inine clearance from 45 to 79 ml/min) shoul	d avoid taking non-steroidal anti
cisplatin (see also cisplatin Summary of Product Characteristics for speci ALIMTA as single agent	tic dosing advice).		(NSAIDs) such a In patients with r	s ibuprofen, and aspirin (> 1.3 g daily) for nild to moderate renal insufficiency eligib	2 days before, on the day of, and 2 days follow ble for pemetrexed therapy NSAIDs with long	elimination half-lives should be in
In patients treated for non-small cell lung cancer after prior chemotherapy	, the recommended dose of ALIMTA is 500 mg/m	² BSA administered as an intravenous	5 days prior to, or	n the day of, and at least 2 days following	pemetrexed administration (see section 4.5).	
infusion over 10 minutes on the first day of each 21-day cycle.	C C		Serious renal eve	nts, including acute renal failure, have been	en reported with pemetrexed alone or in associ	iation with other chemotherapeutic
Premedication regimen To reduce the incidence and severity of skin reactions, a corticosteroid sho	uld be given the day prior to on the day of and the	e day after pemetrexed administration			s for the development of renal events including ascites, on pemetrexed is not fully defined. A p	
The corticosteroid should be equivalent to 4 mg of dexamethasone admin	istered orally twice a day (see section 4.4).		with stable third	space fluid demonstrated no difference in	pemetrexed dose normalized plasma concentr	rations or clearance compared to p
To reduce toxicity, patients treated with pemetrexed must also receive multivitamin containing folic acid (350 to 1000 micrograms) on a daily	e vitamin supplementation (see section 4.4). Pa	tients must take oral folic acid or a			collection prior to pemetrexed treatment should	
the first dose of pemetrexed, and dosing must continue during the full c	ourse of therapy and for 21 days after the last do	ose of pemetrexed. Patients must also	adequate antieme	intestinal toxicity of pemetrexed given in tic treatment and appropriate hydration pr	combination with cisplatin, severe dehydration	n has been observed. Therefore, pa
receive an intramuscular injection of vitamin B_{12} (1000 micrograms) in t	he week preceding the first dose of pemetrexed a	and once every three cycles thereafter.			arction and cerebrovascular events have been	n uncommonly reported during
Subsequent vitamin B ₁₂ injections may be given on the same day as perior Monitoring	trexed.				her cytotoxic agent. Most of the patients in wh	hom these events have been obser
Patients receiving pemetrexed should be monitored before each dose wit				sk factors (see section 4.8).	a result, concomitant use of live attenuated vac	cines is not recommended (see sec
count. Prior to each chemotherapy administration blood chemistry tests sh chemotherapy, patients are required to have the following: absolute neutrop	ould be collected to evaluate renal and hepatic function $AN(C)$ about the second part of $AN(C)$ and	nction. Before the start of any cycle of			lly mature males are advised not to father a ch	
Creatinine clearance should be ≥ 45 ml/min.	•		Contraceptive me	easures or abstinence are recommended. O	wing to the possibility of pemetrexed treatment	
The total bilirubin should be ≤ 1.5 times upper limit of normal. Alkaline phos	bhatase (AP), aspartate aminotransferase (AST or SG	GOT) and alanine aminotransferase (ALT		berm storage before starting treatment.	position during tractment with mental t	section (1.6)
or SGPT) should be ≤ 3 times upper limit of normal. Alkaline phosphatase, AS Dose adjustments	51 and ALT \leq 5 times upper limit of normal is accept	table if liver has tumour involvement.			ception during treatment with pemetrexed (see ients treated with radiation either prior, during	
Dose adjustments at the start of a subsequent cycle should be based on a	nadir haematologic counts or maximum non-haer	matologic toxicity from the preceding	attention should b	be paid to these patients and caution exerci	ised with use of other radiosensitising agents.	, or subsequent to their periodexe
cycle of therapy. Treatment may be delayed to allow sufficient time for	recovery. Upon recovery patients should be retre	ated using the guidelines in Tables 1,	Cases of radiation	n recall have been reported in patients who	preceived radiotherapy weeks or years previou	isly.
2 and 3, which are applicable for ALIMTA used as a single agent or in co	<u>`</u>		For 500 mg vials		dium por viol To be taken inter (1. 1. 1	nu potiente en e e-ut-11 1 P
Table 1 - Dose modification table for ALIMTA (as sin		0			odium per vial. To be taken into consideration b	by patients on a controlled sodium
Nadir ANC < 500 /mm ³ and nadir platelets \geq 50,000 /mm ³	75 % of previous dose (both Al	k 7		with other medicinal products and othe ainly eliminated unchanged renally by tubu	er forms of interaction ilar secretion and to a lesser extent by glomerul:	ar filtration. Concomitant administ
Nadir platelets < 50,000 /mm ³ regardless of nadir ANC	75 % of previous dose (both Al	A	drugs (e.g. amino	oglycoside, loop diuretics, platinum comp	pounds, cyclosporin) could potentially result i	in delayed clearance of pemetrexe
Nadir platelets < 50,000 /mm ³ with bleeding ^a , regardless of nadir ANC	50 % of previous dose (both Al	A		ith caution. If necessary, creatinine clearan		
^a These criteria meet the National Cancer Institute Common Toxicity Criteria (CT If patients develop non-haematologic toxicities ≥ Grade 3 (excluding n			Concomitant adm	ninistration of substances that are also tubu e made when these drugs are combined wi	Ilarly secreted (e.g. probenecid, penicillin) coul ith pemetrexed. If necessary, creatinine clearan	Id potentially result in delayed clea
patient's pre-therapy value. Treatment should be resumed according to the		resolution to less than of equal to the	In patients with	normal renal function (creatinine clearand	$ce \ge 80$ ml/min), high doses of non-steroidal	anti-inflammatory drugs (NSAID
Table 2 - Dose modification table for ALIMTA (as single a		ematologic toxicities ^{a, b}	> 1600 mg/day) a	and aspirin at higher dose (≥ 1.3 g daily) m	ay decrease pemetrexed elimination and, conse	equently, increase the occurrence of
	Dose of ALIMTA (mg/m ²)	Dose for cisplatin (mg/m ²)	events. Therefore (creatinine cleara	c, caution should be made when administer $nce \ge 80 \text{ ml/min}$.	ing higher doses of NSAIDs or aspirin, concurr	rently with pemetrexed to patients
Any Grade 3 or 4 toxicities except mucositis	75 % of previous dose	75 % of previous dose	In patients with r	nild to moderate renal insufficiency (creat	tinine clearance from 45 to 79 ml/min), the co	pncomitant administration of peme
Any diarrhoea requiring hospitalisation (irrespective of grade) or grade 3	*	75 % of previous dose			for 2 days before, on the day of, and 2 days fo	
Grade 3 or 4 mucositis	50 % of previous dose	100 % of previous dose	In the absence of pemetrexed in pe	data regarding potential interaction with N itients with mild to moderate renal insuffi	NSAIDs having longer half-lives such as piroxiciency should be interrupted for at least 5 day	icam or rotecoxib, the concomitan
^a National Cancer Institute Common Toxicity Criteria (CTC v2.0; NCI 1998)		or provided by adde	pemetrexed admi	inistration (see section 4.4). If concomitan	t administration of NSAIDs is necessary, patie	
^b Excluding neurotoxicity				n and gastrointestinal toxicity.	- 1	

to cause clinically significant inhibition of the metabolic clearance of drugs metabolised by CYP3A, CYP2D6, CYP2C9, and CYP1A2. Interactions common to all cytotoxics:

Due to the increased thrombotic risk in patients with cancer, the use of anticoagulation treatment is frequent. The high intra-individual variability of the coagulation status during diseases and the possibility of interaction between oral anticoagulants and anticancer chemotherapy require increased frequency of INR (International Normalised Ratio) monitoring, if it is decided to treat the patient with oral anticoagulants. Concomitant use contraindicated: Yellow fever vaccine: risk of fatal generalised vaccinale disease (see section 4.3).

Concomitant use not recommended: Live attenuated vaccines (except yellow fever, for which concomitant use is contraindicated): risk of systemic, possibly fatal, disease. The risk is increased in subjects who are already immunosuppressed by their underlying disease. Use an inactivated vaccine where it exists (poliomyelitis) (see section 4.4).

4.6 Fertility, pregnancy and lactation

Contraception in males and females

Women of childbearing potential must use effective contraception during treatment with pemetrexed. Pemetrexed can have genetically damaging effects. Sexually mature males are advised not to father a child during the treatment and up to 6 months thereafter. Contraceptive measures or abstinence are recommended.

Pregnancy There are no data from the use of pemetrexed in pregnant women but pemetrexed, like other anti-metabolites, is suspected to cause serious birth defects when administered during pregnancy. Animal studies have shown reproductive toxicity (see section 5.3). Pemetrexed should not be used during pregnancy unless clearly necessary, after a careful consideration of the needs of the mother and the risk for the foetus (see section 4.4).

Breast-feeding It is not known whether pemetrexed is excreted in human milk and adverse reactions on the suckling child cannot be excluded. Breast-feeding must be discontinued during pemetrexed therapy (see section 4.3).

Owing to the possibility of pemetrexed treatment causing irreversible infertility, men are advised to seek counselling on sperm storage before starting treatment. dilution 4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. However, it has been reported that pemetrexed may cause fatigue. Therefore patients should be cautioned against driving or operating machines if this event occurs.

4.8 Undesirable effects Summary of the safety profile

The most commonly reported undesirable effects related to pemetrexed, whether used as monotherapy or in combination, are bone marrow suppression manifested as anaemia, neutropenia, leukopenia, thrombocytopenia; and gastrointestinal toxicities, manifested as anorexia, nausea, vomiting, diarrhoea, constipation, pharyngitis, mucositis, and stomatitis. Other undesirable effects include renal toxicities, increased aminotransferases, alopecia, fatigue, dehydration, rash, infection/sepsis and neuropathy. Rarely seen events include Stevens-Johnson syndrome and Toxic epidermal necrolysis. Tabulated list of adverse reactions

The table below provides the frequency and severity of undesirable effects that have been reported in > 5 % of 168 patients with mesothelioma who were randomised to receive cisplatin and pemetrexed and 163 patients with mesothelioma randomised to receive single agent cisplatin. In both treatment arms, these chemonaive patients were fully supplemented with folic acid and vitamin B_{12} . Adverse reactions

Frequency estimate: Very common ($\geq 1/10$), Common ($\geq 1/100$ and < 1/10), Uncommon ($\geq 1/1000$ and < 1/100), Rare ($\geq 1/10,000$ and < 1/1000), Very rare (<1/10,000) and not known (cannot be estimated from available data-spontaneous reports). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

System organ class	Frequency	Event*		ed/cisplatin 168)	Cisplatin (N = 163)	
			All grades toxicity (%)	Grade 3 - 4 toxicity (%)	All grades toxicity (%)	Grade 3 - 4 toxicity (%)
Blood and lymphatic	Very common	Neutrophils/ Granulocytes decreased	56.0	23.2	13.5	3.1
system disorders		Leukocytes decreased	53.0	14.9	16.6	0.6
		Haemoglobin decreased	26.2	4.2	10.4	0.0
		Platelets decreased	23.2	5.4	8.6	0.0
Metabolism and nutrition disorders	Common	Dehydration	6.5	4.2	0.6	0.6
Nervous system disorders	Very common	Neuropathy-Sensory	10.1	0.0	9.8	0.6
	Common	Taste disturbance	7.7	0.0***	6.1	0.0***
Eye disorders	Common	Conjunctivitis	5.4	0.0	0.6	0.0
Gastrointestinal disorders	Very common	Diarrhoea	16.7	3.6	8.0	0.0
		Vomiting	56.5	10.7	49.7	4.3
		Stomatitis/Pharyngitis	23.2	3.0	6.1	0.0
		Nausea	82.1	11.9	76.7	5.5
		Anorexia	20.2	1.2	14.1	0.6
		Constipation	11.9	0.6	7.4	0.6
	Common	Dyspepsia	5.4	0.6	0.6	0.0
Skin and subcutaneous	Very common	Rash	16.1	0.6	4.9	0.0
tissue disorders		Alopecia	11.3	0.0***	5.5	0.0***
Renal and urinary disorders	Very common	Creatinine elevation	10.7	0.6	9.8	1.2
		Creatinine clearance decreased**	16.1	0.6	17.8	1.8
General disorders and	Very common	Fatigue	47.6	10.1	42.3	9.2

administration site conditions

Refer to National Cancer Institute CTC version 2 for each grade of toxicity except the term "creatinine clearance decrease ** which is derived from the term "renal/genitourinary other".

*** According to National Cancer Institute CTC (v2.0; NCI 1998), taste disturbance and alopecia should only be reported as Grade 1 or 2.

For the purpose of this table a cut off of 5 % was used for inclusion of all events where the reporter considered a possible relationship to pemetrexed and cisplatin. Clinically relevant CTC toxicities that were reported in ≥ 1 % and ≤ 5 % of the patients that were randomly assigned to receive cisplatin and pemetrexed include: renal failure, infection, pyrexia, febrile neutropenia, increased AST, ALT, and GGT, urticaria and chest pain.

and motor neuropathy.

System organ class	Frequency	Event*		trexed 265	Docetaxel N = 276	
			All grades toxicity (%)	Grade 3-4 toxicity (%)	All grades toxicity (%)	Grade 3-4 toxicity (%)
Blood and lymphatic	Very common	Neutrophils/ Granulocytes decreased	10.9	5.3	45.3	40.2
system disorders		Leukocytes decreased	12.1	4.2	34.1	27.2
		Haemoglobin decreased	19.2	4.2	22.1	4.3
	Common	Platelets decreased	8.3	1.9	1.1	0.4
Gastrointestinal disorders	Very common	Diarrhoea	12.8	0.4	24.3	2.5
		Vomiting	16.2	1.5	12.0	1.1
		Stomatitis/ Pharyngitis	14.7	1.1	17.4	1.1
		Nausea	30.9	2.6	16.7	1.8
		Anorexia	21.9	1.9	23.9	2.5
	Common	Constipation	5.7	0.0	4.0	0.0
Hepatobiliary disorders	Common	SGPT (ALT) elevation	7.9	1.9	1.4	0.0
		SGOT (AST) elevation	6.8	1.1	0.7	0.0
Skin and sub-cutaneous	Very common	Rash/ desquamation	14.0	0.0	6.2	0.0
tissue disorders	Common	Pruritus	6.8	0.4	1.8	0.0
		Alopecia	6.4	0.4**	37.7	2.2**
General disorders and	Very common	Fatigue	34.0	5.3	35.9	5.4
administration site conditions	Common	Fever	8.3	0.0	7.6	0.0

 Refer to National Cancer Institute CTC version 2 for each grade of toxicity.
According to National Cancer Institute CTC (v2.0; NCI 1998), alopecia should only be reported as Grade 1 or 2. For the purpose of this table a cut off of 5 % was used for inclusion of all events where the reporter considered a possible relationship to permetrexed. Clinically relevant CTC toxicities that were reported in ≥ 1 % and ≤ 5 % of the patients that were randomly assigned to pemetrexed include: infection without neutropenia, febrile neutropenia, allergic reaction/hypersensitivity, increased creatinine, motor neuropathy, sensory neuropathy, erythema multiforme, and abdominal pain. Clinically relevant CTC toxicities that were reported in < 1 % of the patients that were randomly assigned to pemetrexed include supraventricular arrhythmias. Clinically relevant Grade 3 and Grade 4 laboratory toxicities were similar between integrated Phase 2 results from three single agent pemetrexed studies (n = 164) and the Phase 3 single agent pemetrexed study described above, with the exception of neutropenia (12.8 % versus 5.3 %, respectively) and alanine aminotransferase elevation (15.2 % versus 1.9 %, respectively). These differences were likely due to differences in the patient population, since the Phase 2 studies included both chemonaive and heavily pre-treated breast cancer patients with pre-existing liver metastases and/or abnormal baseline liver function tests. The table below provides the frequency and severity of undesirable effects considered possibly related to study drug that have been reported in >5% of 839 patients with NSCLC who were randomized to receive cisplatin and pemetrexed and 830 patients with NSCLC who were randomized to receive cisplatin and gencitabine. All patients received study therapy as initial treatment for locally advanced or metastatic NSCLC and patients in both treatment groups were fully supplemented with folic acid and vitamin B_{12} .

System organ class	Frequency	Even
Blood and lymphatic system disorders	Very common	Hemo Neutr Leuko
Nervous system disorders	Common	Plate Neuro Taste
Gastrointestinal disorders	Very common	Nause Vomi Anore Conse Stom Diarr
Skin and subcutaneous tissue disorders	Common Very common Common	Dysp Alope Rash
Renal and urinary disorders General disorders and administration site conditions	Very common Very common	Creat

 P-values <0.05 comparing pemetrexed/cisplatin to gemcitabine/cisplatin, using Fisher Exact test.
Refer to National Cancer Institute CTC (v2.0; NCI 1998) for each Grade of Toxicity.
*** According to National Cancer Institute CTC (v2.0; NCI 1998), taste disturbance and alopecia should only be reported as Grade 1 or 2. For the purpose of this table, a cut-off of 5% was used for inclusion of all events where the reporter considered a possible relationship to pemetrexed and cisplatin. Clinically relevant toxicity that was reported in $\ge 1\%$ and $\le 5\%$ of the patients that were randomly assigned to receive cisplatin and pemetrexed include: AST increase, ALT increase, infection, febrile neutropenia, renal failure, pyrexia, dehydration, conjunctivitis, and creatinine clearance decrease. Clinically relevant toxicity that was reported in < 1% of the patients that were randomly assigned to receive cisplatin and pemetrexed include: GGT increase, chest pain, arrhythmia, and motor neuropathy. Clinically relevant toxicities with respect to gender were similar to the overall population in patients receiving pemetrexed plus cisplatin.

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Start Date 13 JAN 2016	Proof No. : 1	Printing Colours 1/1 BLACK	Technical Colours Die Cut	Affiliate Barcode: Type: N/A Code: N/A	Translations of Variable Data	
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therapy if Pemetrexed undergoes limited hepatic metabolism. Results from *in vitro* studies with human liver microsomes indicated that pemetrexed would not be predicted Clinically relevant CTC toxicities that were reported in < 1 % of the patients that were randomly assigned to receive cisplatin and pemetrexed include arrhythmia

The table below provides the frequency and severity of undesirable effects that have been reported in > 5 % of 265 patients randomly assigned to receive single agent pemetrexed with folic acid and vitamin B₁₂ supplementation and 276 patients randomly assigned to receive single agent docetaxel. All patients were diagnosed with locally advanced or metastatic non-small cell lung cancer and received prior chemotherapy.

t**		ed/cisplatin 839)	Gemcitabine/cisplatin (N = 830)		
	All grades toxicity (%)	Grade 3 - 4 toxicity (%)	All grades toxicity (%)	Grade 3 - 4 toxicity (%)	
oglobin decreased	33.0*	5.6*	45.7*	9.9*	
ophils/Granulocytes decreased	29.0*	15.1*	38.4*	26.7*	
ocytes decreased	17.8	4.8*	20.6	7.6*	
ets decreased	10.1*	4.1*	26.6*	12.7*	
opathy-sensory	8.5*	*0.0	12.4*	0.6*	
disturbance	8.1	0.0***	8.9	0.0***	
ea	56.1	7.2*	53.4	3.9*	
ting	39.7	6.1	35.5	6.1	
exia	26.6	2.4*	24.2	0.7*	
tipation	21.0	0.8	19.5	0.4	
atitis/Pharyngitis	13.5	0.8	12.4	0.1	
hoea without colostomy	12.4	1.3	12.8	1.6	
epsia/Heartburn	5.2	0.1	5.9	0.0	
ecia	11.9*	0***	21.4*	0.5***	
desquamation	6.6	0.1	8.0	0.5	
inine elevation	10.1*	0.8	6.9*	0.5	
ue	42.7	6.7	44.9	4.9	

The table below provides the frequency and severity of undesirable effects considered possibly related to study drug that have been reported in > 5% of 800 patients randomly assigned to receive single-agent pemetrexed and 402 patients randomly assigned to receive placebo in the single-agent pemetrexed maintenance (JMEN: N= 663) and continuation pemetrexed maintenance (PARAMOUNT: N=539) studies. All patients were diagnosed with Stage IIIB or IV NSCLC and had received prior platinum-based chemotherapy. Patients in both study arms were fully supplemented with folic acid and vitamin B₁₀.

System organ class	Frequency*	Frequency* Event**		exed*** 800)	Placebo*** (N =402)	
			All grades toxicity (%)	Grade 3 - 4 toxicity (%)	All grades toxicity (%)	Grade 3-4 toxicity (%)
Blood and Lymphatic	Very common	Hemoglobin decreased	18.0	4.5	5.2	0.5
system disorders	Common	Leukocytes decreased	5.8	1.9	0.7	0.2
		Neutrophils decreased	8.4	4.4	0.2	0.0
Nervous system disorders	Common	Neuropathy-sensory	7.4	0.6	5.0	0.2
Gastrointestinal disorders	Very common	Nausea	17.3	0.8	4.0	0.2
		Anorexia	12.8	1.1	3.2	0.0
	Common	Vomiting	8.4	0.3	1.5	0.0
		Mucositis/stomatitis	6.8	0.8	1.7	0.0
Hepatobiliary disorders	Common	ALT (SGPT) elevation	6.5	0.1	2.2	0.0
		AST (SGOT) elevation	5.9	0.0	1.7	0.0
Skin and Subcutaneous tissue disorders	Common	Rash/desquamation	8.1	0.1	3.7	0.0
General disorders	Very common	Fatigue	24.1	5.3	10.9	0.7
and administration site disorders	Common	Pain	7.6	0.9	4.5	0.0
she disorders		Edema	5.6	0.0	1.5	0.0
Renal disorders	Common	Renal disorders****	7.6	0.9	1.7	0.0

Abbreviations: ALT = alanine aminotransferase; AST = aspartate aminotransferase; CTCAE = Common Terminology Criteria for Adverse Event; NCI = National Cancer Institute SGOT = serum glutamic oxaloacectic aminotransferase; SGPT = serum glutamic pyruvic aminotransferase. * Definition of frequency terms: Very common - \geq 10%; Common - > 5% and < 10%. For the purpose of this table, a cutoff of 5% was used for inclusion of all events where the porter considered a possible relationship to pemetry

** Refer to NCI CTCAE Criteria (Version 3.0; NCI 2003) for each grade of toxicity. The reporting rates shown are according to CTCAE version 3.0. ** Integrated adverse reactions table combines the results of the JMEN pemetrexed maintenance (N=663) and PARAMOUNT continuation pemetrexed maintenance (N=539) studies.

**** Combined term includes increased serum/blood creatinine, decreased glomerular filtration rate, renal failure and renal/genitourinary- other. Clinically relevant CTC toxicity of any grade that was reported in $\geq 1\%$ and $\leq 5\%$ of the patients that were randomly assigned to pemetrexed include: febrile neutropenia, infection, decreased platelets, diarrhoea, constipation, alopecia, pruritis/itching, fever (in the absence of neutropenia), ocular surface disease (including conjunctivitis), increased lacrimation, dizziness and motor neuropathy

Clinically relevant CTC toxicity that was reported in < 1% of the patients that were randomly assigned to pemetrexed include: allergic reaction/hypersensitivity, erythema multiforme, supraventricular arrhythmia and pulmonary embolism Safety was assessed for patients who were randomised to receive pemetrexed (N=800). The incidence of adverse reactions was evaluated for patients who

received ≤ 6 cycles of pemetrexed maintenance (N=519), and compared to patients who received > 6 cycles of pemetrexed (N=281). Increases in adverse reactions (all grades) were observed with longer exposure. A significant increase in the incidence of possibly study-drug-related Grade 3/4 neutropenia was observed with longer exposure to pemetrexed (≤6 cycles: 3.3%, > 6 cycles: 6.4%: p=0.046). No statistically significant differences in any other individual Grade 3/4/5 adverse reactions were seen with longer exposur Serious cardiovascular and cerebrovascular events, including myocardial infarction, angina pectoris, cerebrovascular accident and transient ischaemic attack have

been uncommonly reported during clinical studies with pemetrexed, usually when given in combination with another cytotoxic agent. Most of the patients in

whom these events have been observed had pre-existing cardiovascular risk factors Rare cases of hepatitis, potentially serious, have been reported during clinical studies with pemetrexed.

Pancytopenia has been uncommonly reported during clinical trials with pemetrexed.

In clinical trials, cases of colitis (including intestinal and rectal bleeding, sometimes fatal, intestinal perforation, intestinal necrosis and typhlitis) have been reported uncommonly in patients treated with pemetrexed

In clinical trials, cases of interstitial pneumonitis with respiratory insufficiency, sometimes fatal, have been reported uncommonly in patients treated with pemetrexed Uncommon cases of oedema have been reported in patients treated with pemetrexed.

Oesophagitis/ radiation oesophagitis has been uncommonly reported during clinical trials with pemetrexed.

Sepsis, sometimes fatal, has been commonly reported during clinical trials with pemetrexed.

During post marketing surveillance, the following adverse reactions have been reported in patients treated with pemetrexed:

Uncommon cases of acute renal failure have been reported with pemetrexed alone or in association with other chemotherapeutic agents (see section 4.4).

Uncommon cases of radiation pneumonitis have been reported in patients treated with radiation either prior, during or subsequent to their pemetrexed therapy

(see section 4.4).

Rare cases of radiation recall have been reported in patients who have received radiotherapy previously (see section 4.4). Uncommon cases of peripheral ischaemia leading sometimes to extremity necrosis have been reported.

Rare cases of bullous conditions have been reported including Stevens-Johnson syndrome and Toxic epidermal necrolysis which in some cases were fatal.

Rarely, haemolytic anaemia has been reported in patients treated with pemetrexed.

Rare cases of anaphylactic shock have been reported.

4.9 Overdose

Reported symptoms of overdose include neutropenia, anaemia, thrombocytopenia, mucositis, sensory polyneuropathy and rash. Anticipated complications of overdose include bone marrow suppression as manifested by neutropenia, thrombocytopenia and anaemia. In addition, infection with or without fever, diarrhoea. and/or mucositis may be seen. In the event of suspected overdose, patients should be monitored with blood counts and should receive supportive therapy as necessary. The use of calcium folinate / folinic acid in the management of pemetrexed overdose should be considered. 5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Folic acid analogues, ATC code: L01BA04

exed) is a multi-targeted anti-cancer antifolate agent that exerts its action by disrupting crucial folate-dependent metabolic pro for cell replication.

In vitro studies have shown that pemetrexed behaves as a multitargeted antifolate by inhibiting thymidylate synthase (TS), dihydrofolate reductase (DHFR), and glycinamide ribonucleotide formyltransferase (GARFT), which are key folate-dependent enzymes for the *de novo* biosynthesis of thymidine and purine nucleotides. Pemetrexed is transported into cells by both the reduced folate carrier and membrane folate binding protein transport systems. Once in the cell, pemetrexed is rapidly and efficiently converted to polyglutamate forms by the enzyme folylpolyglutamate synthetase. The polyglutamate forms are retained in cells and are even more potent inhibitors of TS and GARFT. Polyelutamation is a time- and concentration-dependent process that occurs in tumour cells and, to a lesser extent, in normal tissues. Polyglutamated metabolites have an increased intracellular half-life resulting in prolonged drug action in malignant cells. The European Medicines Agency has waived the obligation to submit the results of studies with ALIMTA in all subsets of the paediatric population in the granted indications (see Section 4.2)

Clinical efficacy

Mesothelioma EMPHACIS, a multicentre, randomised, single-blind phase 3 study of ALIMTA plus cisplatin versus cisplatin in chemonaive patients with malignant pleural mesothelioma, as shown that patients treated with ALIMTA and cisplatin had a clinically meaningful 2.8-month median survival advantage over patients receiving cisplatin alone. During the study. low-dose folic acid and vitamin B₁₂ supplementation was introduced to patients' therapy to reduce toxicity. The primary analysis of this study was performed on the population of all patients randomly assigned to a treatment arm who received study drug (randomised and treated). A subgroup analysis was performed on patients who received folic acid and vitamin B₁₂ supplementation during the entire course of study therapy (fully supplemented). The results of

	Randomized and treat	ated patients	Fully supplemente	d Patients
Efficacy parameter	ALIMTA/ cisplatin	Cisplatin	ALIMTA/ cisplatin	Cisplatin
	(N = 226)	(N = 222)	(N = 168)	(N = 163)
Median overall survival (months)	12.1	9.3	13.3	10.0
(95 % CI)	(10.0 - 14.4)	(7.8 - 10.7)	(11.4 - 14.9)	(8.4 - 11.9)
Log Rank p-value*	0.020	0.020		
Median time to tumour progression (months)	5.7	3.9	6.1	3.9
(95 % CI)	(4.9 – 6.5)	(2.8 - 4.4)	(5.3 - 7.0)	(2.8 - 4.5)
Log Rank p-value*	0.001		0.008	
Time to treatment failure (months)	4.5	2.7	4.7	2.7
(95 % CI)	(3.9 – 4.9)	(2.1 - 2.9)	(4.3 - 5.6)	(2.2 - 3.1)
Log Rank p-value*	0.001	0.001		
Overall response rate**	41.3 %	16.7 %	45.5 %	19.6 %
(95 % CI)	(34.8 - 48.1)	(12.0 – 22.2)	(37.8 - 53.4)	(13.8 - 26.6)
Fisher's exact p-value*	< 0.001			

Abbreviation: CI = confidence interval

n-value refers to comparison between arms

In the ALIMTA/cisplatin arm, randomized and treated (N = 225) and fully supplemented (N = 167)A statistically significant improvement of the clinically relevant symptoms (pain and dyspnoea) associated with malignant pleural mesothelioma in the ALIMTA/cisplatin arm (212 patients) versus the cisplatin arm alone (218 patients) was demonstrated using the Lung Cancer Symptom Scale. Statistically significant differences in pulmonary function tests were also observed. The separation between the treatment arms was achieved by improvement in lung function in the ALIMTA/cisplatin arm and deterioration of lung function over time in the control arm. There are limited data in patients with malignant pleural mesothelioma treated with ALIMTA alone. ALIMTA at a dose of 500 mg/m² was studied as a singleagent in 64 chemonaive patients with malignant pleural mesothelioma. The overall response rate was 14.1 %.

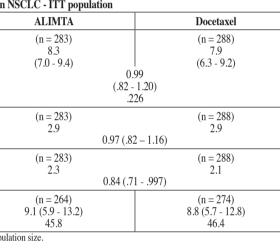
NSCLC, second-line treatment: multicentre, randomised, open label phase 3 study of ALIMTA versus docetaxel in patients with locally advanced or metastatic NSCLC after prior chemotherapy of 213 patients (48.3%) completed \geq 6 cycles and a total of 103 patients (23.4%) completed \geq 10 cycles of treatment with ALIMTA. has shown median survival times of 8.3 months for patients treated with ALIMTA (Intent To Treat population n = 283) and 7.9 months for patients treated with The study met its primary endpoint and showed a statistically significant improvement in PFS in the ALIMTA arm over the placebo arm (n = 581, independently docetaxel (ITT n = 288). Prior chemotherapy did not include ALIMTA. An analysis of the impact of NSCLC histology on the treatment effect on overall reviewed population; median of 4.0 months and 2.0 months, respectively) (hazard ratio = 0.60, 95% CI = 0.49-0.73, p < 0.00001). The independent review of patient scans confirmed the findings of the investigator assessment of PFS. The median OS for the overall population (n = 663) was 13.4 months for the ALIMTA arm and 10.6 months for the placebo arm, hazard ratio = 0.79 (95% CI = 0.65-0.95, p = 0.01192). survival was in favour of ALIMTA versus docetaxel for other than predominantly squamous histologies (n = 399, 9.3 versus 8.0 months, adjusted HR = 0.78; 95% CI = 0.61-1.00, p = 0.047) and was in favour of docetaxel for squamous cell carcinoma histology (n = 172, 6.2 versus 7.4 months, adjusted HR = 1.56; 95% CI = 1.08-2.26, p = 0.018). There were no clinically relevant differences observed for the safety profile of ALIMTA within the histology subgroups. Consistent with other ALIMTA studies, a difference in efficacy according to NSCLC histology was observed in JMEN. For patients with NSCLC other than Limited clinical data from a separate randomized. Phase 3, controlled trial, suggest that efficacy data (overall survival, progression free survival) for pemetrexed predominantly squamous cell histology (n = 430, independently reviewed population) median PFS was 4.4 months for the ALIMTA arm and 1.8 months for the placebo arm, hazard ratio = 0.47 (95% CI = 0.37-0.60, p = 0.00001). The median OS for patients with NSCLC other than predominantly squamous cell are similar between patients previously pre treated with docetaxel (n = 41) and patients who did not receive previous docetaxel treatment (n = 540). Efficacy of ALIMTA vs docetaxel in NSCLC - ITT population

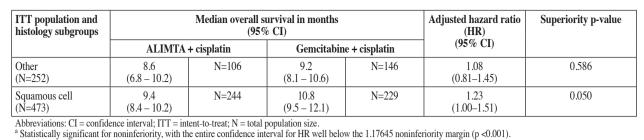
PARAMOUNT

	AL
Survival Time (months)	(n =
• Median (m)	
• 95 % CI for median	(7.0
• HR	
• 95 % CI for HR	
• Non-inferiority p-value (HR)	
Progression free survival (months)	(n =
• Median	
• HR (95 % CI)	
Time to treatment failure (TTTF – months)	(n =
Median	
• HR (95 % CI)	
Response (n: qualified for response)	(n =
• Response rate (%) (95 $\%$ CI)	(n = 9.1 (5
• Stable disease (%)	4
Abbreviations: CI = confidence interval; HR = hazard ratio; ITT = intent to tr	eat; n = total population size.

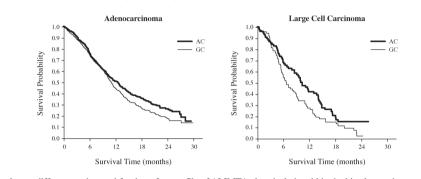
NSCLC, first-line treatment: A multicentre, randomised, open-label, Phase 3 study of ALIMTA plus cisplatin versus gemcitabine plus cisplatin in chemonaive patients with locally advanced or metastatic (Stage IIIb or IV) non-small cell lung cancer (NSCLC) showed that ALIMTA plus cisplatin (Intent-To-Treat [ITT] population n = 862) met its primary endpoint and showed similar clinical efficacy as geneitabine plus cisplatin (ITT n = 863) in overall survival (adjusted hazard ratio 0.94; 95% CI = 0.84-1.05). All patients included in this study had an ECOG performance status 0 or 1. The primary efficacy analysis was based on the ITT population. Sensitivity analyses of main efficacy endpoints were also assessed on the Protocol Qualified (PQ) population. The efficacy analyses using PQ population are consistent with the analyses for the ITT population and support the non-inferiority of AC versus GC. ession free survival (PFS) and overall response rate were similar between treatment arms: median PFS was 4.8 months for ALIMTA plus cisplatin versus 1 months for gemcitabine plus cisplatin (adjusted hazard ratio 1.04; 95% CI = 0.94-1.15), and overall response rate was 30.6% (95% CI = 27.3-33.9) for ALIMTA plus cisplatin versus 28.2% (95% CI = 25.0-31.4) for generitabine plus cisplatin. PFS data were partially confirmed by an independent review (400/1725 patients were randomly selected for review). The analysis of the impact of NSCLC histology on overall survival demonstrated clinically relevant differences in survival according to histology, see table below

according to histology, se								
Efficacy of ALIMTA + cisplatin vs. gemcitabine + cisplatin in first-line non-small cell lung cancer – ITT population and histology subgroups.								
ITT population and histology subgroups			urvival in months 6 CI)		Adjusted hazard ratio (HR)	Superiority p-value		
	ALIMTA	+ cisplatin	Gemcitabin	e + cisplatin	(95% CI)			
ITT population $(N = 1725)$	10.3 (9.8 – 11.2)	N=862	10.3 (9.6 – 10.9)	N=863	0.94^{a} (0.84 - 1.05)	0.259		
Adenocarcinoma (N=847)	12.6 (10.7 – 13.6)	N=436	10.9 (10.2 - 11.9)	N=411	0.84 (0.71–0.99)	0.033		
Large cell (N=153)	10.4 (8.6 – 14.1)	N=76	6.7 (5.5 – 9.0)	N=77	0.67 (0.48–0.96)	0.027		





Kaplan Meier plots of overall survival by histology



There were no clinically relevant differences observed for the safety profile of ALIMTA plus cisplatin within the histology subgroups Patients treated with ALIMTA and cisplatin required fewer transfusions (16.4% versus 28.9%, p<0.001), red blood cell transfusions (16.1% versus 27.3%, p<0.001) and platelet transfusions (1.8% versus 4.5%, p=0.002). Patients also required lower administration of erythropoietin/darbopoietin (10.4% versus 18.1%, p<0.001), G-CSF/GM-CSF (3.1% versus 6.1%, p=0.004), and iron preparations (4.3% versus 7.0%, p=0.021).

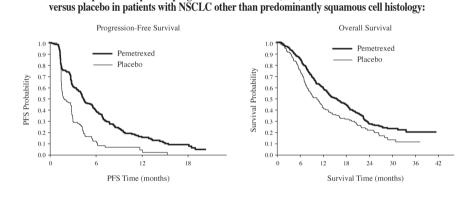
NSCLC, maintenance treatment:

A multicentre, randomised, double-blind, placebo-controlled Phase 3 study (JMEN), compared the efficacy and safety of maintenance treatment with ALIMTA plus best supportive care (BSC) (n = 441) with that of placebo plus BSC (n = 222) in patients with locally advanced (Stage IIIB) or metastatic (Stage IV) Non Small Cell Lung Cancer (NSCLC) who did not progress after 4 cycles of first line doublet therapy containing Cisplatin or Carboplatin in combination with Genetitabine, Paclitaxel, or Docetaxel. First line doublet therapy containing ALIMTA was not included. All patients included in this study had an ECOG performance status 0 or 1. Patients received maintenance treatment until disease progression. Efficacy and safety were measured from the time of randomisation after completion of first line (induction) therapy. Patients received a median of 5 cycles of maintenance treatment with ALIMTA and 3.5 cycles of placebo. A total

histology (n = 481) was 15.5 months for the ALIMTA arm and 10.3 months for the placebo arm, hazard ratio = 0.70 (95% CI = 0.56-0.88, p = 0.002). Including the induction phase the median OS for patients with NSCLC other than predominantly squamous cell histology was 18.6 months for the ALIMTA arm and 13.6 months for the placebo arm, hazard ratio = $0.71 (95\% \text{ CI} = 0.56 \cdot 0.88, \text{p} = 0.002)$

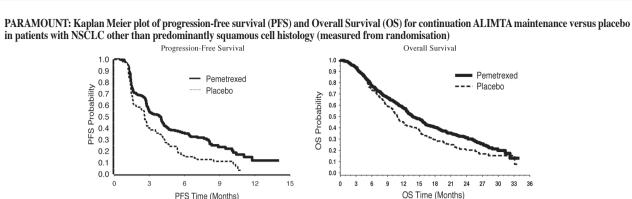
The PFS and OS results in patients with squamous cell histology suggested no advantage for ALIMTA over placebo. There were no clinically relevant differences observed for the safety profile of ALIMTA within the histology subgroups.

JMEN: Kaplan Meier plots of progression-free survival (PFS) and overall survival ALIMTA



A multicentre, randomised, double-blind, placebo-controlled Phase 3 study (PARAMOUNT), compared the efficacy and safety of continuation maintenance treatment with ALIMTA plus BSC (n = 359) with that of placebo plus BSC (n = 180) in patients with locally advanced (Stage IIIB) or metastatic (Stage IV) NSCLC other than predominantly squamous cell histology who did not progress after 4 cycles of first line doublet therapy of ALIMTA in combination with cisplatin. Of the 939 patients treated with ALIMTA plus cisplatin induction, 539 patients were randomised to maintenance treatment with pemetrexed or placebo. Of the randomised patients, 44.9% had a complete/partial response and 51.9% had a response of stable disease to ALIMTA plus cisplatin induction. Patients randomised to maintenance treatment were required to have an ECOG performance status 0 or 1. The median time from the start of ALIMTA plus cisplatin induction therapy to the start of maintenance treatment was 2.96 months on both the pemetrexed arm and the placebo arm. Randomised patients received maintenance treatment until disease progression. Efficacy and safety were measured from the time of randomisation after completion of first line (induction) therapy. Patients received a median of 4 cycles of maintenance treatment with ALIMTA and 4 cycles of placebo. A total of 169 patients (47.1%) completed \geq 6 cycles maintenance treatment with ALIMTA, representing at least 10 total cycles of ALIMTA.

The study met its primary endpoint and showed a statistically significant improvement in PFS in the ALIMTA arm over the placebo arm (n = 472, independently .9 months and 2.6 months, 1 vely) (hazard ratio = 0.64, 95% CI scans confirmed the findings of the investigator assessment of PFS. For randomised patients, as measured from the start of ALIMTA plus cisplatin first line induction treatment, the median investigator-assessed PFS was 6.9 months for the ALIMTA arm and 5.6 months for the placebo arm (hazard ratio = 0.59 95% CI = 0.47-0.74). Following ALIMTA plus cisplatin induction (4 cycles), treatment with ALIMTA was statistically superior to placebo for OS (median 13.9 months versus 11.0 months, hazard ratio = 0.78, 95%CI=0.64-0.96, p=0.0195). At the time of this final survival analysis, 28.7% of patients were alive or lost to follow up on the ALIMTA arm versus 21.7% on the placebo arm. The relative treatment effect of ALIMTA was internally consistent across subgroups (including disease stage, induction response, ECOG PS, smoking status, gender, histology and age) and similar to that observed in the unadjusted OS and PFS analyses. The 1 year and 2 year survival rates for patients on ALIMTA were 58% and 32% respectively, compared to 45% and 21% for patients on placebo. From the start of ALIMTA plus cisplatin first line induction treatment, the median OS of patients was 16.9 months for the ALIMTA arm and 14.0 months for the placebo arm (hazard ratio= 0.78, 95% CI= 0.64-0.96). The percentage of patients that received post study treatment was 64.3% for ALIMTA and 71.7% for placebo.



The ALIMTA maintenance safety profiles from the two studies JMEN and PARAMOUNT were similar. **5.2** Pharmacokinetic properties

The pharmacokinetic properties of pemetrexed following single-agent administration have been evaluated in 426 cancer patients with a variety of solid tumours at doses ranging from 0.2 to 838 mg/m² infused over a 10-minute period. Pemetrexed has a steady-state volume of distribution of 9 l/m². *In vitro* studies indicate that pemetrexed is approximately 81 % bound to plasma proteins. Binding was not notably affected by varying degrees of renal impairment. Pemetrexed undergoes imited hepatic metabolism. Pemetrexed is primarily eliminated in the urine, with 70 % to 90 % of the administered dose being recovered unchanged in urine within the first 24 hours following administration. In Vitro studies indicate that pemetrexed is actively secreted by OAT3 (organic anion transporter. Pemetrexed total systemic clearance is 91.8 ml/min and the elimination half-life from plasma is 3.5 hours in patients with normal renal function (creatinine clearance of 90 ml/min). Between patient variability in clearance is moderate at 19.3 %. Pemetrexed total systemic exposure (AUC) and maximum plasma concentration increase proportionally with dose. The pharmacokinetics of pemetrexed are consistent over multiple treatment cycles. The pharmacokinetic properties of pemetrexed are not influenced by concurrently administered cisplatin. Oral folic acid and intramuscular vitamin B_{12} upplementation do not affect the pharmacokinetics of pemetrexed. 5.3 Preclinical safety data

suggests that pemetrexed may impair male fertility. Female fertility was not investigated be clastogenic in the *in vivo* micronucleus test in the mouse. Studies to assess the carcinogenic potential of pemetrexed have not been conducted.

PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Hydrochloric acid

Sodium hydroxide

6.2 Incompatibilities Pemetrexed is physically incompatible with diluents containing calcium, including lactated Ringer's injection and Ringer's injection. In the absence of other compatibility studies this medicinal product must not be mixed with other medicinal products. 6.3 Shelf life

For 100mg Unopened vial:

For 500mg Unopened vial:

econstituted and infusion solutions 6.4 Special precautions for storage Unopened via

his medicinal product does not require any special storage conditions.

For storage conditions after reconstitution of the medicinal product, see section 6.3. 6.5 Nature and contents of container

<u>For 100 mg vial</u>:

ype I glass vial with rubber stopper containing 100 mg of pemetrexed. <u>For 500 mg vial</u>:

ype I glass vial with rubber stopper containing 500 mg of pemetrexed.

Pack of 1 vial.

Not all pack sizes may be marketed.

- 6.6 Special precautions for disposal and other handling
- For 100 mg vial
- For 500 mg vial:
- without preservative, and administered as an intravenous infusion over 10 minutes.
- do not admi Pemetrexed solutions are for single use only. Any unused product or waste material must be disposed of in accordance with local requirements.

Preparation and administration precautions: As with other potentially toxic anticancer agents, care should be exercised in the handling and preparation of pemetrexed infusion solutions. The use of gloves is recommended. If a pemetrexed solution contacts the skin, wash the skin immediately and thoroughly with soap and water. If pemetrexed solutions contact the mucous membranes, flush thoroughly with water. Pemetrexed is not a vesicant. There is not a specific antidote or extravasation of pemetrexed. There have been few reported cases of pemetrexed extravasation, which were not assessed as serious by the investigator. Extravasation should be managed by local standard practice as with other non-vesicants. Manufactured by:

Eli Lilly and Company Indianapolis, IN 46285, USA

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Administration of pemetrexed to pregnant mice resulted in decreased foetal viability, decreased foetal weight, incomplete ossification of some skeletal structures and cleft palate. Administration of pemetrexed to male mice resulted in reproductive toxicity characterised by reduced fertility rates and testicular atrophy. In a study conducted in beagle dog by intravenous bolus injection for 9 months, testicular findings (degeneration/necrosis of the seminiferous epithelium) have been observed. This

Pemetrexed was not mutagenic in either the in vitro chromosome aberration test in Chinese hamster ovary cells, or the Ames test. Pemetrexed has been shown to

When prepared as directed, reconstituted and infusion solutions of ALIMTA contain no antimicrobial preservatives. Chemical and physical in-use stability of reconstituted and infusion solutions of pemetrexed were demonstrated for 24 hours at refrigerated temperature. From a microbiological point of view, the product should be used immediately. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would not be longer than 24 hours at 2°C to 8°C.

Use aseptic technique during the reconstitution and further dilution of pemetrexed for intravenous infusion administration. Calculate the dose and the number of ALIMTA vials needed. Each vial contains an excess of pemetrexed to facilitate delivery of label amount.

Reconstitute 100-mg vials with 4.2 ml of sodium chloride 9 mg/ml (0.9 %) solution for injection, without preservative, resulting in a solution containing 25 mg/ml pemetrexed. Gently swirl each vial until the powder is completely dissolved. The resulting solution is clear and ranges in colour from colourless to ellow or green-yellow without adversely affecting product quality. The pH of the reconstituted solution is between 6.6 and 7.8. Further dilution is required.

constitute 500-mg vials with 20 ml of sodium chloride 9 mg/ml (0.9 %) solution for injection, without preservative, resulting in a solution containing 5 mg/ml pemetrexed. Gently swirl each vial until the powder is completely dissolved. The resulting solution is clear and ranges in colour from colourless to w or green-yellow without adversely affecting product quality. The pH of the reconstituted solution is between 6.6 and 7.8. Further dilution is required. The appropriate volume of reconstituted pemetrexed solution must be further diluted to 100 ml with sodium chloride 9 mg/ml (0.9%) solution for injection, Pemetrexed infusion solutions prepared as directed above are compatible with polyvinyl chloride and polyolefin lined administration sets and infusion bags

Parenteral medicinal products must be inspected visually for particulate matter and discolouration prior to administration. If particulate matter is observed

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