

Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Paclitaxel 6 mg/ml concentrate for solution for infusion

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of concentrate for solution for infusion contains 6 mg of paclitaxel.

Each vial of 5 ml contains 30 mg of paclitaxel.

Each vial of 16.7 ml contains 100 mg of paclitaxel.

Each vial of 50 ml contains 300 mg of paclitaxel.

Excipients with known effect:

Ethanol, 392.133 mg per ml (49.7%v/v)

Macrogolglycerol Ricinoleate (polyoxyl castor oil), 527.33 mg per ml.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Concentrate for solution for infusion.

A clear colourless to slightly yellow viscous solution.

4 CLINICAL PARTICULARS

4.1 Therapeutic Indications

Ovarian carcinoma:

In first-line chemotherapy of ovarian cancer, paclitaxel is indicated for the treatment of patients with advanced carcinoma of the ovary or with residual disease (> 1 cm) after initial laparotomy, in combination with cisplatin.

In second-line chemotherapy of ovarian cancer, paclitaxel is indicated for the treatment of metastatic carcinoma of the ovary after failure of standard, platinum containing therapy.

Breast carcinoma:

In the adjuvant setting, paclitaxel is indicated for the treatment of patients with node-positive breast carcinoma following anthracycline and cyclophosphamide (AC) therapy. Adjuvant treatment with paclitaxel should be regarded as an alternative to extended AC therapy.

Paclitaxel is indicated for the initial treatment of locally advanced or metastatic breast cancer either in combination with an anthracycline in patients for whom anthracycline therapy is suitable, or in combination with trastuzumab, in patients who over-express HER-2 (human epidermal growth factor receptor 2) at a 3+ level as determined by immunohistochemistry and for whom an anthracycline is not suitable (see section 4.4 and 5.1).

As a single agent, paclitaxel is indicated for the treatment of metastatic carcinoma of the breast in patients who have failed to respond adequately to standard treatment with anthracyclines or in whom anthracycline therapy has not been appropriate

Advanced non-small cell lung carcinoma:

Paclitaxel, in combination with cisplatin, is indicated for the treatment of non-small cell lung carcinoma (NSCLC) in patients who are not candidates for potentially curative surgery and/or radiation therapy.

AIDS-related Kaposi's sarcoma:

Paclitaxel is indicated for the treatment of patients with advanced AIDS-related Kaposi's sarcoma (KS) who have failed prior liposomal anthracycline therapy.

Limited efficacy data supports this indication, a summary of the relevant studies is shown in section 5.1.

4.2 Posology and method of administrationPosology

Paclitaxel should only be administered under the supervision of a qualified oncologist in units specialised in the administration of cytotoxic agents (see section 6.6).

Pre-medication: All patients must be given pre-medication consisting of corticosteroids, antihistamines, and H₂-receptor antagonists prior to paclitaxel administration, in order to prevent severe hypersensitivity reactions. Such pre-medication may consist of:

Table 1: Pre-medication schedule

Pre-medication	Dose	Administration prior to paclitaxel
Dexamethasone	20 mg oral* or IV**	For oral administration: approximately 12 and 6 hours or for IV administration: 30 to 60 min
Diphenhydramine***	50 mg IV	30 to 60 min
Cimetidine or Ranitidine	300 mg IV 50 mg IV	30 to 60 min

8-20 mg for KS patients

Intravenous or an equivalent antihistamine e.g. chlorpheniramine 10 mg IV, administered 30 to 60 minutes prior to paclitaxel.

Paclitaxel concentrate for solution for infusion must be diluted before use (see section 6.6) and should only be administered intravenously.

Paclitaxel should be administered using an in-line filter with a microporous membrane ≤ 0.22 microns (see section 6.6).

Given the possibility of extravasation, it is advisable to monitor closely the infusion site for possible infiltration during administration.

First-line chemotherapy of ovarian carcinoma:

Although alternative medication regimens for paclitaxel are under investigation at present, a combination therapy of paclitaxel and cisplatin is recommended.

Depending on the duration of infusion, two different dosage are recommended for paclitaxel treatment: 175 mg/m² of paclitaxel is administered as an intravenous infusion over a period of 3 hours, followed thereafter by 75 mg/m² of cisplatin and the therapy is repeated at three week intervals, or 135 mg/m² of paclitaxel is administered as an intravenous infusion over a period of 24-hour followed thereafter by 75 mg/m² of cisplatin and the therapy is repeated at 3 week interval (see section 5.1).

Second-line chemotherapy of ovarian carcinoma:

The recommended dose of paclitaxel is 175 mg/m² administered over a period of 3 hours, with a 3 week interval between courses.

Adjuvant chemotherapy in breast carcinoma:

The recommended dose of paclitaxel is 175 mg/m² administered over a period of 3 hours every 3 weeks for four courses, following AC therapy.

First-line chemotherapy of breast carcinoma:

When used in combination with doxorubicin (50 mg/m²), paclitaxel should be administered 24 hours after doxorubicin. The recommended dose of paclitaxel is 220 mg/m² administered intravenously over a period of 3 hours, with a 3-week interval between courses (see section 4.5 and 5.1).

When used in combination with trastuzumab, the recommended dose of paclitaxel is 175 mg/m² administered intravenously over a period of 3 hours, with a 3-week interval between courses. Paclitaxel infusion may be started the day following the first dose of trastuzumab or immediately after the subsequent doses of trastuzumab if the preceding dose of trastuzumab was well tolerated.

Second-line chemotherapy of breast carcinoma:

The recommended dose of paclitaxel is 175 mg/m² administered over a period of 3 hours, with a 3-week interval between courses.

Treatment of advanced non-small cell lung cancer:

The recommended dose of paclitaxel is 175 mg/m² administered over a period of 3 hours, followed by 80 mg/m² of cisplatin, with a 3 week interval between courses.

Treatment of AIDS-related KS:

The recommended dose of paclitaxel is 100 mg/m² administered as a 3-hour intravenous infusion every two weeks.

Dose adjustment:

Subsequent doses of paclitaxel should be administered according to individual patient tolerance.

Paclitaxel should not be re-administered until the neutrophil count is $\geq 1.5 \times 10^9/l$ ($\geq 1 \times 10^9/l$ for KS patients) and the platelet count is $\geq 100 \times 10^9/l$ ($\geq 75 \times 10^9/l$ for KS patients).

Patients who experience severe neutropenia (neutrophil count $< 0.5 \times 10^9/l$ for a minimum of 7 days) or severe peripheral neuropathy should receive a dose reduction of 20% for subsequent courses (25% for KS patients) (see section 4.4).

Paediatric population:

Paclitaxel is not recommended for use in children below 18 years due to lack of data on safety and efficacy.

Hepatic impairment:

Inadequate data are available to recommend dosage alterations in patients with mild to moderate hepatic impairments (see section 4.4 and 5.2). Patients with severe hepatic impairment should not be treated with paclitaxel.

Renal impairment:

Studies in patients with impaired renal function have not been performed and there are insufficient data to permit dosage recommendations (see section 5.2).

Method of administration

Precautions to be taken before handling or administering the medicinal product.

Only be administered intravenously.

For instructions on dilution of the medicinal product before administration, see section 6.6.

4.3 Contraindications

Paclitaxel is contraindicated in patients with severe hypersensitivity to paclitaxel or to any excipients listed in section 6.1, especially macrogolglycerol ricinoleate (polyoxyl castor oil) (see section 4.4).

Paclitaxel is contraindicated during lactation (see section 4.6).

Paclitaxel should not be used in patients with baseline neutrophils $< 1.5 \times 10^9/l$ ($< 1 \times 10^9/l$ for KS patients) or platelets $< 100 \times 10^9/l$ ($< 75 \times 10^9/l$ for KS patients).

In KS, paclitaxel is also contraindicated in patients with concurrent, serious, uncontrolled infections.

Patients with severe hepatic impairment must not be treated with paclitaxel.

4.4 Special warnings and precautions for use

Paclitaxel should be administered under the supervision of a physician experienced in the use of cancer chemotherapeutic agents. Since significant hypersensitivity reactions may occur, appropriate supportive equipment should be available.

Patients must be pretreated with corticosteroids, antihistamines and H_2 antagonists (see section 4.2).

Given the possibility of extravasation, it is advisable to closely monitor the infusion site for possible infiltration during drug administration.

Paclitaxel should be given before cisplatin when used in combination (see section 4.5).

Significant hypersensitivity reactions, as characterised by dyspnoea and hypotension requiring treatment, angioedema and generalised urticaria have occurred in $< 1\%$ of patients receiving paclitaxel after adequate premedication. These reactions are probably histamine-mediated. In the case of severe hypersensitivity reactions, paclitaxel infusion should be discontinued immediately, symptomatic therapy should be initiated and the patient should not be rechallenged with paclitaxel.

Bone marrow suppression, primarily neutropenia, is the dose-limiting toxicity. Frequent monitoring of blood counts should be instituted. Patients should not be retreated until neutrophil count is $\geq 1.5 \times 10^9/l$ ($\geq 1 \times 10^9/l$ for KS patients) and platelets recover to $\geq 100 \times 10^9/l$ ($\geq 75 \times 10^9/l$ for KS patients). In the KS clinical study, the majority of patients were receiving granulocyte colony stimulating factor (G-CSF).

Severe cardiac conduction abnormalities have been reported rarely with single agent paclitaxel. If patients develop significant conduction abnormalities during paclitaxel administration, appropriate therapy should be administered and continuous cardiac monitoring should be performed during subsequent therapy with paclitaxel.

Hypotension, hypertension, and bradycardia have been observed during paclitaxel administration; patients are usually asymptomatic and generally do not require treatment. Frequent vital sign monitoring, particularly during the first hour of paclitaxel infusion, is recommended. Severe cardiovascular events were observed more frequently in patients with NSCLC than in those with breast or ovarian carcinoma. A single case of heart failure related to paclitaxel was seen in the AIDS-KS clinical study.

When paclitaxel is used in combination with doxorubicin or trastuzumab for initial treatment of metastatic breast cancer, attention should be placed on the monitoring of cardiac function. When patients are candidates for treatment with paclitaxel in these combinations, they should undergo baseline cardiac assessment including history, physical examination, electrocardiogram (ECG), echocardiogram, and/or Multigated acquisition (MUGA) scan. Cardiac function should be further monitored during treatment (e.g. every three months). Monitoring may help to identify patients who develop cardiac

dysfunction and treating physicians should carefully assess the cumulative dose (mg/m²) of anthracycline administered when making decisions regarding frequency of ventricular function assessment. When testing indicates deterioration in cardiac function, even asymptomatic, treating physicians should carefully assess the clinical benefits of further therapy against the potential for producing cardiac damage, including potentially irreversible damage. If further treatment is administered, monitoring of cardiac function should be more frequent (e.g. every 1-2 cycles). For more details see Summary of Product Characteristics of trastuzumab or doxorubicin.

Peripheral neuropathy:

The occurrence of peripheral neuropathy is frequent; the development of severe symptoms is rare. In severe cases, a dose reduction of 20% (25% for KS patients) is recommended for all subsequent courses of paclitaxel. In NSCLC patients the administration of paclitaxel in combination with cisplatin resulted in a greater incidence of severe neurotoxicity than administration of single agent paclitaxel. The first-line ovarian cancer patients, administration of paclitaxel as a three hour infusion combined with cisplatin resulted in a greater incidence of severe neurotoxicity than administration of a combination of cyclophosphamide and cisplatin.

Intra-arterial:

Special care should be taken to avoid intra-arterial application of paclitaxel. In animal studies investigating local tolerance, severe tissue reactions occurred following intra-arterial application.

Paclitaxel in combination with radiation of the lung, irrespective of their chronological order, may contribute to the development of *interstitial pneumonitis*.

Patients with hepatic impairment may be at increased risk of toxicity, particularly grade 3-4 myelosuppression. There is no evidence that the toxicity of paclitaxel is increased when given as a 3-hour infusion to patients with mildly abnormal liver function. When paclitaxel is given as a longer infusion, increased myelosuppression may be seen in patients with moderate to severe hepatic impairment. Patients should be monitored closely for the development of profound myelosuppression (see section 4.2). Inadequate data are available to recommend dosage alterations in patients with mild to moderate hepatic impairments (see section 5.2).

No data are available for patients with severe baseline cholestasis. Patients with severe hepatic impairment should not be treated with paclitaxel.

Pseudomembranous colitis has also been reported, rarely, including cases in patients who have not received concurrent antibiotics treatment. This reaction should be considered in the differential diagnosis of severe or persistent cases of diarrhoea occurring during or shortly after treatment with paclitaxel.

Paclitaxel has shown to be teratogen, embryotoxic and a mutagen in several experimental systems.

Therefore female and male patients of reproductive age must take contraceptive measures for themselves and/or their sexual partners during and for at least 6 months after therapy (see section 4.6). Male patients are advised to seek advice on conservation of sperm prior to treatment because of the possibility of irreversible infertility due to therapy with paclitaxel. Hormonal contraception is contraindicated in hormone receptor positive tumors.

In KS patients, severe mucositis is rare. If severe reactions occur, the paclitaxel dose should be reduced by 25%.

Ethanol:

This medicinal product contains 49.7 %v/v ethanol (alcohol). Harmful for those suffering from alcoholism. To be taken into account in pregnant or breast-feeding women, children and high risk groups such as patients with liver disease or epilepsy.

Since paclitaxel contains ethanol (392.133 mg/ml), consideration should be given to possible CNS and other effects.

This medicinal product contains macrogolglycerol ricinoleate (polyoxyl castor oil) which may cause severe allergic reactions.

4.5 Interaction with other medicinal products and other forms of interactions

Paclitaxel clearance is not affected by cimetidine premedication.

Cisplatin

The recommended regimen of paclitaxel administration for the first-line chemotherapy of ovarian carcinoma is for paclitaxel to be given before cisplatin. When paclitaxel is given before cisplatin, the safety profile of paclitaxel is consistent with that reported for single-agent use. When paclitaxel was given after cisplatin, patients showed a more profound myelosuppression and an approximately 20% decrease in paclitaxel clearance. Patients treated with paclitaxel and cisplatin may have an increased risk of renal failure as compared to cisplatin alone in gynaecological cancers.

Doxorubicin

Since the elimination of doxorubicin and its active metabolites can be reduced when paclitaxel and doxorubicin are given closer in time, paclitaxel for initial treatment of metastatic breast cancer should be administered 24 hours after doxorubicin (see section 5.2).

Active substances metabolised in the liver

The metabolism of paclitaxel is catalysed, in part, by cytochrome P450 isoenzymes CYP2C8 and CYP3A4. Therefore, in the absence of a PK drug-drug interaction study, caution should be exercised when administering paclitaxel concomitantly with medicines known to inhibit either CYP2C8 or CYP3A4 (e.g. ketoconazole and other imidazole antifungals, erythromycin, fluoxetine, gemfibrozil, clopidogrel, cimetidine, ritonavir, saquinavir, indinavir, and nelfinavir) because toxicity of paclitaxel may be increased due to higher paclitaxel exposure. Administering paclitaxel concomitantly with medicines known to induce either CYP2C8 or CYP3A4 (e.g. rifampicin, carbamazepine, phenytoin, efavirenz, nevirapine) is not recommended because efficacy may be compromised because of lower paclitaxel exposures.

Studies in KS patients, who were taking multiple concomitant medications, suggest that the systemic clearance of paclitaxel was significantly lower in the presence of nelfinavir and ritonavir, but not with indinavir. Insufficient information is available on interactions with other protease inhibitors. Consequently, paclitaxel should be administered with caution in patients receiving protease inhibitors as concomitant therapy.

4.6 Fertility, pregnancy and lactation

Pregnancy

Paclitaxel has been shown to be teratogenic, embryotoxic and mutagenic in many experimental systems. Paclitaxel has been shown to be both embryotoxic and foetotoxic in rabbits, and to decrease fertility in rats (see section 5.3).

There are very limited data on the use of paclitaxel in human pregnancy. Paclitaxel is suspected to cause serious birth defects when administered during pregnancy. Paclitaxel has been shown to be both embryotoxic and foetotoxic in rabbits, and to reduce fertility in rats. As with other cytotoxic medicinal products, paclitaxel may cause foetal harm when administered to pregnant women. Therefore, paclitaxel should not be used during pregnancy unless clearly necessary. Also Paclitaxel should not be used in women of childbearing potential not using effective contraception, unless the clinical condition of the mother requires treatment with paclitaxel.

Women of childbearing potential receiving paclitaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur. Female and male patients of fertile age, and/or their partners should use contraceptions for at least 6 month after treatment with paclitaxel.

Breast-feeding

Paclitaxel is contraindicated during lactation (see section 4.3). It is not known whether paclitaxel is excreted in human milk. Studies in animals have shown transfer of paclitaxel into milk (see section 5.3). Breast-feeding should be discontinued for the duration of therapy with paclitaxel (see section 4.3).

Fertility

Paclitaxel induced infertility in male rats (see section 5.3). The relevance for humans is unknown. Male patients should seek advice regarding cryoconservation of sperm prior to treatment with paclitaxel because of the possibility of infertility.

Male patients treated with paclitaxel are advised not to father a child during and up to six months after treatment.

4.7 Effects on ability to drive and use machines

Paclitaxel has not been demonstrated to interfere with this ability. However, it should be noted that paclitaxel does contain alcohol (see section 4.4 and 6.1).

The ability to drive or to use machines may be decreased due to alcohol content of this medicinal product.

4.8 Undesirable effects

Unless otherwise noted, the following discussion refers to the overall safety database of 812 patients with solid tumours treated with single-agent paclitaxel in clinical studies. As the KS population is very specific, a special chapter based on a clinical study with 107 patients, is presented at the end of this section.

The frequency and severity of undesirable effect, unless otherwise mentioned, are generally similar between patients receiving paclitaxel for the treatment of ovarian carcinoma, breast carcinoma, or NSCLC. None of the observed toxicities were clearly influenced by age.

The most frequent significant undesirable effect was bone marrow suppression. Severe neutropenia ($< 0.5 \times 10^9/l$) occurred in 28% of patients, but was not associated with febrile episodes. Only 1% of patients experienced severe neutropenia for ≥ 7 days.

Thrombocytopenia was reported in 11% of patients. Three percent of patients had a platelet count nadir $< 50 \times 10^9/l$ at least once while on study. Anaemia was observed in 64% of patients, but was severe ($Hb < 8.1$ g/dl) in only 6% of patients. Incidence and severity of anaemia is related to baseline haemoglobin status.

Disseminated intravascular coagulation (DIC), often in association with sepsis or multi-organ failure, has been reported.

Alopecia: Alopecia was observed in 87% of patients and was abrupt in onset. Pronounced hair loss of $\geq 50\%$ is expected for the majority of patients who experience alopecia.

Neurotoxicity, mainly peripheral neuropathy, appeared to be more frequent and severe with a 175 mg/m^2 3-hour infusion (85% neurotoxicity, 15% severe) than with a 135 mg/m^2 24-hour infusion (25% peripheral neuropathy, 3% severe) when paclitaxel was combined with cisplatin. In NSCLC patients and in ovarian cancer patients treated with paclitaxel over 3 hours followed by cisplatin, there is an apparent increase in the incidence of severe neurotoxicity. Peripheral neuropathy can occur following the first course and can worsen with increasing exposure to paclitaxel. Peripheral neuropathy was the cause of paclitaxel discontinuation in a few cases. Sensory symptoms have usually improved or resolved within several months of paclitaxel discontinuation. Pre-existing neuropathies resulting from prior therapies are not a contraindication for paclitaxel therapy.

Arthralgia or myalgia affected 60% of patients and was severe in 13% of patients.

A significant hypersensitivity reaction with possible fatal outcome (defined as hypotension requiring therapy, angioedema, respiratory distress requiring bronchodilator therapy, or generalised urticaria) occurred in two ($< 1\%$) of patients. Thirty-four percent of patients (17% of all courses) experienced minor hypersensitivity reactions. These minor reactions, mainly flushing and rash, did not require therapeutic intervention nor did they prevent continuation of paclitaxel therapy.

Injection site reactions during intravenous administration may lead to localised oedema, pain, erythema, and induration; on occasion, extravasation can result in cellulitis. Skin sloughing and/or peeling has been reported, sometimes related to extravasation. Skin discoloration may also occur. Recurrence of skin reactions at a site of previous extravasation following administration of paclitaxel at a different site, i.e. "recall", has been reported rarely. A specific treatment for extravasation reactions is unknown at this time.

In some cases, onset of the injection site reaction either occurred during a prolonged infusion or was delayed by a week to 10 days.

The table below lists undesirable effects regardless of severity associated with the administration of single agent paclitaxel administered as a three hour infusion in the metastatic setting (812 patients treated in clinical studies) and as reported in the post-marketing surveillance of paclitaxel.

The frequency of undesirable effects listed below is defined using the following convention: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$); not known (cannot be estimated from the available data).

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

Frequency	Very Common	Common	Uncommon	Rare	Very rare	Not known
Organ System						
Infections and infestations	infection (mainly urinary tract and upper respiratory tract infections), with reported cases of fatal outcome.		septic shock	Pneumonia, peritonitis, sepsis	Pseudomembranous colitis	
Blood and the lymphatic system disorders:	myelosuppression, neutropenia, anaemia, thrombocytopenia, leucopenia, bleeding.			febrile neutropenia	acute myeloid leukaemia, myelodysplastic syndrome	Disseminated intravascular coagulation (DIC)
Immune system disorders	minor hypersensitivity reactions (mainly flushing and rash)		significant hypersensitivity reactions requiring therapy (e.g., hypotension, angio neurotic oedema, respiratory distress, generalised urticaria, chills, back pain, chest pain, tachycardia abdominal pain, pain in extremities, diaphoresis and hypertension)	anaphylactic reactions	anaphylactic shock	bronchospasm
Metabolism and nutrition disorders				dehydration	anorexia	tumor lysis syndrome*
Psychiatric disorders					confusional stage	
Nervous system disorders	Neuro toxicity (mainly: peripheral neuropathy)			motor neuropathy (with resultant minor distal	autonomic neuropathy (resulting in paralytic ileus and orthostatic	

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				weakness)	hypotension), grand mal seizures, convulsions, encephalopathy, dizziness, headache, ataxia	
Eye disorders					optic nerve and/or visual disturbances (scintillating scotomata), particularly in patients who have received higher doses than recommended	macular oedema, photopsia, vitreous floaters
Ear and labyrinth disorders					Ototoxicity, hearing loss, tinnitus, vertigo	
Cardiac disorders		bradycardia	cardiomyopathy , asymptomatic ventricular tachycardia, tachycardia with bigeminy, AV block and syncope, myocardial infarction	cardiac failure	atrial fibrillation, supraventricular tachycardia	
Vascular disorders	hypotension		hypertension, thrombosis, thrombo phlebitis		shock	phlebitis
Respiratory, thoracic and mediastinal disorders				dyspnoea, pleural effusion, interstitial pneumonia, lung fibrosis, pulmonary embolism, respiratory failure	cough	
Gastro-intestinal disorders	nausea, vomiting, diarrhoea			bowel obstruction, bowel perforation, ischaemic colitis, pancreatitis	mesenteric thrombosis, oesophagitis, constipation, ascites, neutropenic colitis	
Hepato biliary disorders					hepatic necrosis, hepatic encephalopathy* (both with reported cases of fatal outcome)	
Skin and subcutaneous	alopecia	transient and mild		pruritus, rash,	Stevens-Johnson syndrome,	

tissue disorders		nail and skin changes		erythema	epidermal necrolysis, erythema multiforme, exfoliative dermatitis, urticaria, onycholysis (patients on therapy should wear sun protection on hands and feet)	
Musculoskeletal, connective tissue disorders	arthralgia, myalgia.					Systemic lupus erythematosus scleroderma
General disorders	mucosal inflammation	injection site reactions (including localised oedema, pain, erythema, induration, on occasion extra vaccination can result in cellulitis, skin fibrosis and skin necrosis).		asthenia, pyrexia, oedema, malaise		
Investigations		severe elevation in AST (serum glutamic oxaloacetic transaminase (SGOT)), severe elevation in alkaline phosphatase	severe elevation in bilirubin	increase in blood creatinine		

as reported in the post-marketing surveillance

Breast cancer patients who received paclitaxel in the adjuvant setting following AC experienced more neurosensory toxicity, hypersensitivity reactions, arthralgia/myalgia, anaemia, infection, fever, nausea/vomiting and diarrhoea than patients who received AC alone. However, the frequency of these events was consistent with the use of single agent paclitaxel, as reported above.

Combination treatment

The following discussion refers to two major trials for the first-line chemotherapy of ovarian carcinoma (paclitaxel + cisplatin: over 1050 patients); two phase III trials in the first line treatment of metastatic breast cancer: one investigating the combination with doxorubicin (paclitaxel + doxorubicin: 267 patients), another one investigating the combination with trastuzumab (planned subgroup analysis paclitaxel + trastuzumab: 188 patients) and two phase III trials for the treatment of advanced NSCLC (paclitaxel + cisplatin: over 360 patients) (see section 5.1).

When administered as a three hour infusion for the first-line chemotherapy of ovarian cancer, neurotoxicity, arthralgia/myalgia, and hypersensitivity were reported as more frequent and severe by patients treated with paclitaxel followed by cisplatin than patients treated with cyclophosphamide followed by cisplatin. Myelosuppression appeared to be less frequent and severe with paclitaxel as a three hour infusion followed by cisplatin compared with cyclophosphamide followed by cisplatin.

For the first line chemotherapy of metastatic breast cancer, neutropenia, anaemia, peripheral neuropathy, arthralgia/myalgia, asthenia, fever, and diarrhoea were reported more frequently and with greater severity when paclitaxel (220 mg/m²) was administered as a 3-hour infusion 24 hours following doxorubicin (50 mg/m²) when compared to standard FAC therapy (5-FU 500 mg/m², doxorubicin 50 mg/m², cyclophosphamide 500 mg/m²). Nausea and vomiting appeared to be less frequent and severe with the paclitaxel (220 mg/m²) / doxorubicin (50 mg/m²) regimen as compared to the standard FAC regimen. The use of corticosteroids may have contributed to the lower frequency and severity of nausea and vomiting in the paclitaxel/doxorubicin arm.

When paclitaxel was administered as a 3-hour infusion in combination with trastuzumab for the first line treatment of patients with metastatic breast cancer, the following events (regardless of relationship to paclitaxel or trastuzumab) were reported more frequently than with single agent paclitaxel: heart failure (8% vs 1%), infection (46% vs 27%), chills (42% vs 4%), fever (47% vs 23%), cough (42% vs 22%), rash (39% vs 18%), arthralgia (37% vs 21%), tachycardia (12% vs 4%), diarrhoea (45% vs 30%), hypertonia (11% vs 3%), epistaxis (18% vs 4%), acne (11% vs 3%), herpes simplex (12% vs 3%), accidental injury (13% vs 3%), insomnia (25% vs 13%), rhinitis (22% vs 5%), sinusitis (21% vs 7%), and injection site reaction (7% vs 1%).

Some of these frequency differences may be due to the increased number and duration of treatments with paclitaxel/trastuzumab combination vs single agent paclitaxel. Severe events were reported at similar rates for paclitaxel/trastuzumab and single agent paclitaxel.

When doxorubicin was administered in combination with paclitaxel in metastatic *breast cancer*, *cardiac contraction abnormalities* (20% reduction of left ventricular ejection fraction) were observed in 15% of patients vs. 10% with standard FAC regimen. *Congestive heart failure* was observed in < 1% in both paclitaxel/doxorubicin and standard FAC arms. Administration of trastuzumab in combination with paclitaxel in patients previously treated with anthracyclines resulted in an increased frequency and severity of *cardiac dysfunction* in comparison with patients treated with paclitaxel single agent (New York Heart Association (NYHA) Class I/II 10% vs. 0%; NYHA Class III/IV 2% vs. 1%) and rarely has been associated with death (see trastuzumab Summary of Product Characteristics). In all but these rare cases, patients responded to appropriate medical treatment.

Radiation pneumonitis has been reported in patients receiving concurrent radiotherapy.

AIDS-related Kaposi's sarcoma

Except for haematologic and hepatic undesirable effects (see below), the frequency and severity of undesirable effects are generally similar between KS patients and patients treated with paclitaxel monotherapy for other solid tumours, based on a clinical study including 107 patients.

Blood and the lymphatic system disorders: Bone marrow suppression was the major dose-limiting toxicity. Neutropenia is the most important haematological toxicity. During the first course of treatment, severe neutropenia (< 0.5 X 10⁹/l) occurred in 20% of patients. During the entire treatment period, severe neutropenia was observed in 39% of patients. Neutropenia was present for > 7 days in 41% and for 30-35 days in 8% of patients. It resolved within 35 days in all patients who were followed. The incidence of Grade 4 neutropenia lasting ≥7 days was 22%.

Neutropenic fever related to paclitaxel was reported in 14% of patients and in 1.3% of treatment cycles. There were 3 septic episodes (2.8%) during paclitaxel administration related to the medicinal product that proved fatal.

Thrombocytopenia was observed in 50% of patients, and was severe (< 50 X 10⁹/l) in 9%. Only 14% experienced a drop in their platelet count < 75 X 10⁹/l, at least once while on treatment. Bleeding episodes related to paclitaxel were reported in < 3% of patients, but the haemorrhagic episodes were localised.

Anaemia (Hb < 11 g/dL) was observed in 61% of patients and was severe (Hb < 8 g/dL) in 10%. Red cell transfusions were required in 21% of patients.

Hepato-biliary disorders: Among patients (> 50% on protease inhibitors) with normal baseline liver function, 28%, 43% and 44% had elevations in bilirubin, alkaline phosphatase and AST (SGOT), respectively. For each of these parameters, the increases were severe in 1% of cases.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517. Website : www.hpra.ie; e-mail: medsafety@hpra.ie

4.9 Overdose

There is no known antidote for paclitaxel overdose. In case of overdose, the patient should be closely monitored. Treatment should be directed at the primary anticipated toxicities, which consist of bone marrow suppression, peripheral neurotoxicity and mucositis.

Paediatric population

Overdoses in paediatric patients can be associated with acute ethanol toxicity.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Plant alkaloids and other natural products, antineoplastic agent/taxanes.

ATC code: L01C D01

Mechanism of action

Paclitaxel is an antimicrotubule agent that promotes the assembly of microtubules from tubulin dimers and stabilises microtubules by preventing depolymerisation. This stability inhibits the normal dynamic reorganisation of the microtubule network, which is essential for vital interphase and mitotic cellular functions. In addition, paclitaxel induces abnormal arrays or bundles of microtubules throughout the cell cycle and multiple asters of microtubules during mitosis.

Clinical efficacy and safety

Ovarian carcinoma

In first-line treatment of ovarian cancer, the safety and efficacy of paclitaxel were evaluated in two major, randomised, controlled trials (compared with cyclophosphamide 750 mg/m² + cisplatin 75 mg/m² therapy).

In the Intergroup trial (BMS CA 139-209), over 650 patients with stage II_{b-c}, III or IV primary ovarian cancer had administered to them a maximum of 9 courses of treatment with paclitaxel (175 mg/m² over a 3 hour period) followed by cisplatin (75 mg/m²) or control treatment. In another major study (GOG-111/B-MS CA 139-022), a maximum of 6 courses of treatment with paclitaxel were administered (135 mg/m², during 24 hour infusion) combined with cisplatin (75 mg/m²) or control treatment; the trial involved over 400 patients with stage III or IV primary ovarian cancer, with a > 1 cm residual tumour after staging laparotomy, or with distant metastases. While the two different posologies were not compared with each other directly, in both trials the patients on paclitaxel and cisplatin had a significantly higher response rate, later onset of progression of disease and longer survival time than the patients on standard therapy. Increased neurotoxicity, arthralgia/myalgia but reduced myelosuppression were observed in advanced ovarian cancer patients administered 3-hour infusion paclitaxel/cisplatin as compared to patients who received cyclophosphamide/cisplatin.

Breast carcinoma

In the adjuvant treatment of breast carcinoma, 3121 patients with node positive breast carcinoma were treated with adjuvant paclitaxel therapy or no chemotherapy following four courses of doxorubicin and cyclophosphamide (CALGB 9344, BMS CA 139-223). Median follow-up was 69 months. Overall, paclitaxel patients had a significant reduction of 18% in the risk of disease

recurrence relative to patients receiving AC alone ($p = 0.0014$), and a significant reduction of 19% in the risk of death ($p = 0.0044$) relative to patients receiving AC alone. Retrospective analyses show benefit in all patient subsets. In patients with hormone receptor negative/ unknown tumours, reduction in risk of disease recurrence was 28% (95% CI: 0.59-0.86). In the patient subgroup with hormone receptor positive tumours, the risk reduction of disease recurrence was 9% (95% CI: 0.78-1.07). However, the design of the study did not investigate the effect of extended AC therapy beyond 4 cycles. It cannot be excluded on the basis of this study alone that the observed effects could be partly due to the difference in duration of chemotherapy between the two arms (AC 4 cycles; AC + paclitaxel 8 cycles). Therefore, adjuvant treatment with paclitaxel should be regarded as an alternative to extended AC therapy.

In a second large clinical study in adjuvant node positive breast cancer with a similar design, 3060 patients were randomized to receive or not four courses of paclitaxel at a higher dose of 225 mg/m² following four courses of AC (NSABP B-28, BMS CA 139-270). At a median follow-up of 64 months, paclitaxel patients had a significant reduction of 17% in the risk of disease recurrence relative to patients who received AC alone ($p = 0.006$); paclitaxel treatment was associated with a reduction in the risk of death of 7% (95% CI: 0.78-1.12). All subset analyses favored the paclitaxel arm. In this study patients with hormone receptor positive tumour had a reduction in the risk of disease recurrence of 23% (95%CI: 0.6-0.92); in the patient subgroup with hormone receptor negative tumour the risk reduction of disease recurrence was 10% (95% CI: 0.7-1.11).

- In the first-line treatment of metastatic breast cancer, the efficacy and safety of paclitaxel were evaluated in two pivotal, phase III, randomised, controlled open-label trials.

- In the first study (BMS CA 139-278), the combination of bolus doxorubicin (50 mg/m²) followed after 24 hours by paclitaxel (220 mg/m² by 3-hour infusion) (AT), was compared versus standard FAC regimen (5-FU 500 mg/m², doxorubicin 50 mg/m², cyclophosphamide 500 mg/m²), both administered every three weeks for eight courses. In this randomised study, 267 patients with metastatic breast cancer, who had either received no prior chemotherapy or only non-anthracycline chemotherapy in the adjuvant setting, were enrolled. Results showed a significant difference in time to progression for patients receiving AT compared to those receiving FAC (8.2 vs. 6.2 months; $p = 0.029$). The median survival was in favour of paclitaxel/doxorubicin vs. FAC (23.0 vs. 18.3 months; $p = 0.004$). In the AT and FAC treatment arm 44% and 48% respectively received follow-up chemotherapy which included taxanes in 7% and 50% respectively. The overall response rate was also significantly higher in the AT arm compared to the FAC arm (68% vs. 55%). Complete responses were seen in 19% of the paclitaxel/doxorubicin arm patients vs. 8% of the FAC arm patients. All efficacy results have been subsequently confirmed by a blinded independent review.

- In the second pivotal study, the efficacy and safety of the paclitaxel and trastuzumab combination was evaluated in a planned subgroup analysis (metastatic breast cancer patients who formerly received adjuvant anthracyclines) of the study HO648g. The efficacy of trastuzumab in combination with paclitaxel in patients who did not receive prior adjuvant anthracyclines has not been proven. The combination of trastuzumab (4 mg/kg loading dose then 2 mg/kg weekly) and paclitaxel (175 mg/m²) 3-hour infusion, every three weeks was compared to single-agent paclitaxel (175 mg/m²) 3-hour infusion, every three weeks in 188 patients with metastatic breast cancer overexpressing HER2 (2+ or 3+ as measured by immunohistochemistry), who had previously been treated with anthracyclines. Paclitaxel was administered every three weeks for at least six courses while trastuzumab was given weekly until disease progression. The study showed a significant benefit for the paclitaxel/trastuzumab combination in terms of time to progression (6.9 vs. 3.0 months), response rate (41% vs. 17%), and duration of response (10.5 vs. 4.5 months) when compared to paclitaxel alone. The most significant toxicity observed with the paclitaxel/trastuzumab combination was cardiac dysfunction (see section 4.8).

Advanced non-small cell lung carcinoma

In the treatment of very advanced NSCLC, the combination of 175 mg/m² of paclitaxel and 80 mg/m² of cisplatin (given after paclitaxel) has been studied in two phase III trials (367 patients on paclitaxel therapy). Both trials were randomised. In one of the trials the control group received cisplatin (100 mg/m²) and in another, 100 mg/m² of teniposide followed thereafter by 80 mg/m² of cisplatin (367 patients on the control group). The results of both trials were similar. There were no significant difference between the paclitaxel therapy and control therapy regarding mortality, primary end event (the median survival times in the paclitaxel groups were 8.1 and 9.5 months, and in the control groups 8.6 and 9.9 months). There were no significant differences in the median time of progression of the disease between the therapies either. The benefit was significant regarding clinical response. Studies on the quality of life indicate that the lack of appetite caused by combination treatment containing paclitaxel is similar, but they also indicate an increased incidence of peripheral neuropathy ($p < 0.008$) with combination treatment.

AIDS-related Kaposi's sarcoma

In the treatment of AIDS-related KS, the efficacy and safety of paclitaxel were investigated in a non-comparative study in patients with advanced KS, previously treated with systemic chemotherapy. The primary end-point was best tumour response. Of the 107 patients, 63 were considered resistant to liposomal anthracyclines. This subgroup is considered to constitute the core efficacy population. The overall success rate (complete/partial response) after 15 cycles of treatment was 57% (confidence interval (CI) 44 - 70%) in liposomal anthracycline-resistant patients. Over 50% of the responses were apparent after the first 3 cycles. In liposomal anthracycline-resistant patients, the response rates were comparable for patients who had never received a protease inhibitor (55.6%) and those who received one at least 2 months prior to treatment with paclitaxel (60.9%). The median time to progression in the core population was 468 days (95% CI 257-not estimable). Median survival could not be computed, but the lower 95% bound was 617 days in core patients.

5.2 Pharmacokinetic properties

Absorption

Following intravenous administration, paclitaxel exhibits a biphasic decline in plasma concentrations.

The pharmacokinetics of paclitaxel were determined following 3- and 24-hour infusions at doses of 135 and 175 mg/m². The mean half-life was between 3.0 to 52.7 hours, and the mean, non-compartmentally derived, values for total body clearance was between 11.6 to 24.0 l/hr/m². The total body clearance appeared to decrease with higher plasma concentrations of paclitaxel. The mean steady-state volume of distribution was between 198 to 688 l/m², indicating extensive extravascular distribution and/or tissue binding. Dose increases associated with the 3-hour infusion resulted in non-linear pharmacokinetics. When the dose increased by 30% from 135 mg/m² to 175 mg/m², the maximum plasma concentration (C_{max}) increased by 75% and the area under the plasma concentration time curve (AUC_∞) by 81%.

The variation of systemic paclitaxel exposure in the same patient was found to be minimal. No signs of cumulative effects were found for paclitaxel in association with multiple treatment courses.

Following an intravenous dose of 100 mg/ m² given as a 3-hour infusion to 19 KS patients, the mean C_{max} was 1,530 ng/ml (range 761 - 2,860 ng/ml) and the mean AUC 5,619 ng.hr/ml (range 2,609 - 9,428 ng.hr/ml). Clearance was 20.6 l/h/ m² (range 11-38) and the volume of distribution was 291 l/ m² (range 121-638). The terminal elimination half-life averaged 23.7 hours (range 12 - 33).

Inpatient variability in systemic paclitaxel exposure was minimal. There was no evidence for accumulation of paclitaxel with multiple treatment courses.

Distribution

In vitro studies of serum protein binding indicate that 89-98% of paclitaxel is bound to paclitaxel. Cimetidine, ranitidine, dexamethasone or diphenhydramine were not found to affect the protein binding of paclitaxel.

Biotransformation and elimination

The distribution and metabolism of paclitaxel in humans has not been fully investigated. The cumulative excretion of unchanged paclitaxel in urine has been between 1.3% and 12.6% of the dose on average, which is an indication of extensive non-renal clearance. Hepatic metabolism and biliary clearance are possibly the principal mechanism for elimination of paclitaxel. Paclitaxel is primarily metabolised by the action of cytochrome P450 enzymes. An average of 26% of the radioactively marked dose of paclitaxel was eliminated in the faeces as a 6 α -hydroxypaclitaxel, 2% as 3'p-dihydroxypaclitaxel and 6% as 6 α -3' p-dihydroxypaclitaxel. 6 α -hydroxypaclitaxel is formed by the effect of CYP2C8, 3'p-hydroxypaclitaxel by CYP3A4 and 6 α -3'p-dihydroxypaclitaxel by CYP2C8 and CYP3A4. The effect of renal or hepatic impairment on the elimination of paclitaxel after 3-hour infusions has not been studied.

The pharmacokinetic parameters of a patient on haemodialysis were of values similar to those of non-dialysis patients when the administration rate was 135 mg/m² of paclitaxel as a 3-hour infusion.

Following an intravenous dose of 100 mg/m² given as a 3-hour infusion to 19 KS patients, the mean C_{max} was 1,530 ng/ml (range 761 - 2,860 ng/ml) and the mean AUC 5,619 ng.hr/ml (range 2,609 - 9,428 ng.hr/ml). Clearance was 20.6 l/h/m²(range

11-38) and the volume of distribution was 291 l/m² (range 121-638). The terminal elimination half-life averaged 23.7 hours (range 12-33).

In clinical trials where paclitaxel and doxorubicin were administered concomitantly, the distribution and elimination of doxorubicin and its metabolites were prolonged. Total plasma exposure to doxorubicin was 30% higher when paclitaxel immediately followed doxorubicin than when there was a 24-hour interval between medicinal products.

For use of paclitaxel in combination with other therapies, please consult the Summary of Product Characteristics of cisplatin, doxorubicin or trastuzumab for information on the use of these medicinal products.

5.3 Preclinical safety data

The carcinogenic potential of paclitaxel has not been studied. However, paclitaxel is a potential carcinogenic and genotoxic agent based on its pharmacodynamic mechanism of action. Paclitaxel has been shown to be mutagenic in both *in vitro* and *in vivo* mammalian test systems.

Administration prior to or during mating produced impairment of fertility in male and female rats. Additionally, paclitaxel caused reduced fertility and reproductive indices, and increased embryo- and fetotoxicity.

Adverse effect on male reproductive organs was seen at low doses, impairment of male and female fertility was seen at toxic doses. Embryo-fetal toxicity as indicated by intrauterine mortality, increased resorptions and increased foetal deaths was seen at maternally toxic doses in rats and rabbits. In rabbits teratogenic effects were seen at doses below maternal toxicity. Limited excretion of paclitaxel was seen in milk of lactating rats. Paclitaxel was not mutagenic but did cause chromosome aberrations *in vitro* and *in vivo*. The carcinogenic potential of paclitaxel has not been studied. Delayed neurotoxic effects were seen histopathologically after repeated dosing with no/limited evidence of recovery.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Citric acid anhydrous (E330)

Ethanol anhydrous

Macrogolglycerol ricinoleate (polyoxyl castor oil) (Cremophor)

6.2 Incompatibilities

Macrogolglycerol ricinoleate (polyoxyl castor oil) can result in DEHP (di-(2-ethylhexyl) phthalate) leaching from plasticised polyvinyl chloride (PVC) containers, at levels which increase with time and concentration. Consequently, the preparation, storage and administration of paclitaxel should be carried out using non-PVC-containing equipment such as glass, polypropylene, or polyolefin.

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 Shelf life

Vial before opening:

2 years

After opening before dilution:

After first use and following multiple needle entries and product withdrawals, any unused concentrate maintains microbial, chemical and physical stability when stored below 25 °C, protected from light for up to 28 days, provided the product has been kept in controlled and validated aseptic conditions. Other in-use storage times and conditions are the responsibility of the user.

After dilution:

Chemical and physical in-use stability of the solution prepared for infusion has been demonstrated at 2 °C to 8 °C and at 25 °C for 7 days when diluted in 5 % dextrose solution, 5 % dextrose in Ringer's solution , 5 % dextrose and 0.9 % sodium chloride solution and for 14 days when diluted in 0.9 % sodium chloride injection.

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 normally not be longer than 24 hours at 2 to 8 °C, unless dilution has taken place in controlled and validated aseptic conditions.

6.4 Special precautions for storage

Vial before opening:

This medicinal product does not require any special temperature storage conditions.

After opening before dilution:

Do not store above 25 °C. Store in the original package in order to protect from light.

For storage conditions of the diluted medicinal product, see section 6.3.

Freezing does not have an adverse effect on the preparation. Refrigerated product may precipitate but will re-dissolve on reaching room temperature with little or no agitation. If the solution remains cloudy or if an insoluble precipitate is noted, the vial should be discarded.

6.5 Nature and contents of container

Type 1 flint glass vials (with 13 mm & 20 mm fluororesin laminated bromobutyl rubber stopper and aluminium flip-off tear-off seal) contain 30 mg, 100 mg, and 300 mg of Paclitaxel in 5 ml, 16.7 ml, or 50 ml solution respectively.

The vials are packaged individually in a carton. Boxes containing 10 cartons are also available.

Not all presentations may be marketed.

6.6 Special precautions for disposal

Handling: Paclitaxel is a cytotoxic anticancer medicinal product and caution should be exercised in handling paclitaxel. Dilution should be carried out under aseptic conditions, by trained personnel in a designated area. Appropriate gloves should be used. Precautions should be taken to avoid contact with the skin and mucous membranes. In the event of contact with the skin, the area should be washed with soap and water. Following topical exposure, tingling, burning and redness have been observed. In the event of contact with the mucous membranes, these should be flushed thoroughly with water. Upon inhalation, dyspnoea, chest pain, burning throat and nausea have been reported.

If unopened vials are refrigerated, a precipitate may form that redissolves with little or no agitation upon reaching room temperature. Product quality is not affected. If the solution remains cloudy or if an insoluble precipitate is noted, the vial should be discarded.

Following multiple needle entries and product withdrawals, the vials maintain microbial, chemical and physical stability for up to 28 days at 25°C. Other in-use storage times and conditions are the responsibility of the user.

The Chemo-Dispensing Pin device or similar devices with spikes should not be used since they can cause the vial stopper to collapse, resulting in loss of sterile integrity.

Preparation for IV administration: prior to infusion, paclitaxel must be diluted using aseptic techniques in 0.9% Sodium Chloride Injection, or 5% Dextrose Injection, or 5% Dextrose and 0.9% Sodium Chloride Injection, or 5% Dextrose in Ringer's Injection, to a final concentration of 0.3 to 1.2 mg/ml.

Chemical and physical in-use stability of the solution prepared for infusion has been demonstrated at 2°C to 8°C and at 25°C for 7 days when diluted in 5% dextrose solution, 5% dextrose in Ringer's solution , 5% dextrose and 0.9% sodium chloride solution and for 14 days when diluted in 0.9% sodium chloride injection . 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 normally not be longer than 24 hours at 2 to 8°C, unless dilution has taken place in controlled and validated aseptic conditions.

After dilution the solution is for single use only.

Upon preparation, solutions may show haziness, which is attributed to the formulation vehicle, and is not removed by filtration. However haziness does not affect the potency of the product. The solution of infusion should be administered through an in-line filter with microporous membrane ≤ 0.22 microns. No significant losses in potency have been noted following simulated delivery of the solution through IV tubing containing an in-line (0.22 micron) filter.

There have been some reports of precipitation during paclitaxel infusions, with precipitation usually taking place towards the end of a 24 hour infusion period. Although the cause of this precipitation has not been elucidated, it is probably linked to the supersaturation of the diluted solution. To reduce the precipitation risk, paclitaxel should be used as soon as possible after dilution, and excessive agitation, vibration or shaking should be avoided. The infusion sets should be flushed thoroughly before use. During infusion, the appearance of the solution should be regularly inspected and the infusion should be stopped if precipitation is present.

To minimise patient exposure to DEHP which may be leached from plasticised PVC infusion bags, sets, or other medical instruments, diluted paclitaxel solutions should be stored in non-PVC bottles (glass, polypropylene) or plastic bags (polypropylene, polyolefin) and administered through polyethylene-lined administration sets. Use of filter devices (e.g. IVEX-2[®]) which incorporate short inlet and/or outlet plasticised PVC tubing has not resulted in significant leaching of DEHP.

Pregnant women or women who may become pregnant, should not handle this product.

Disposal: All items used for preparation, administration, infusion, or otherwise coming into contact with paclitaxel should be placed in an appropriate safety container and disposed according to local guidelines for the handling of cytotoxic compounds.

7 MARKETING AUTHORISATION HOLDER

Cipla Europe NV
De Keyserlei 58-60, Box-19
2018 Antwerp
Belgium

8 MARKETING AUTHORISATION NUMBER

PA1963/010/001

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 26th June 2015
Date of last renewal: 2nd August 2015

10 DATE OF REVISION OF THE TEXT

February 2019