#### 1. NAME OF THE MEDICINAL PRODUCT DOCETAXEL EBEWE 10 mg/ml Concentrate for solution for infusio

WARNINGS Docetaxel Ebewe concentrate for solution for infusion should be administered under the supervision of a physician experienced in the use of antineoplastic agents. WARNING: TOXIC DEATHS, HEPATOTOXICITY, NEUTROPENIA, HYPERSENSITIVITY REACTIONS, and FLUID RETENTION WARNING: TOXIC DEATHS, HEPATOTOXICITY, NEUTROPENIA, HYPERSENSITIVITY REACTIONS, and FLUID RETENTION The incidence of treatment-related mortality associated with docetaxel therapy is increased in patients with abnormal liver function, in patients receiving higher doses, and in patients with non-small cell lung carcinoma and a history of prior treatment with platinum-based chemotherapy who receive docetaxel as a single agent at a dose of 100 mg/m<sup>2</sup>. Docetaxel should not be given to patients with bilirubin > upper limit of normal (ULN), or to patients with AST and/or ALT > 1.5 × ULN concomitant with alkaline phosphatase > 2.5 × ULN. Patients with elevations of bilirubin or abnormalities of transaminase concurrent with alkaline phosphatase are at increased risk for the development of grade 4 neutropenia, febrile neutropenia, infections, severe thrombocytopenia, severe stomatitis, severe skin toxicity, and toxic death. Patients with isolated elevations of transaminase > 1.5 × ULN also had a higher rate of febrile neutropenia grade 4 but did not have an increased incidence of toxic death. Bilirubin, AST or ALT, and alkaline phosphatase values should be obtained prior to each cycle of docetaxel therapy. each cycle of docetaxel therap

each cycle of docetaxel therapy. Docetaxel therapy should not be given to patients with neutrophil counts of < 1,500 cells/mm. In order to monitor the occurrence of neutropenia, which may be severe and result in infection, frequent blood cell counts should be performed on all patients receiving docetaxel. Severe hypersensitivity reactions characterized by generalized rash/erythema, hypotension and/or bronchospasm, or very rarely fatal anaphylaxis, have been reported in patients who received a 3-day dexamethasone premedication. Hypersensitivity reactions require immediate discontinuation of the docetaxel infusion and administration of appropriate therapy. Docetaxel must not be given to patients who have a history of severe hypersensitivity reactions to docetaxel or to other drugs formulated with polysorbate 80 (see section 4.3 "Contraindications"). 2. OUALITATIVE AND OUANTITATIVE COMPOSITION

One ml of the concentrate for solution for infusion contains 10 mg Docetaxel. One vial of concentrate for solution for infusion contains Docetaxel as a trihydrate corresponding to 20 mg, 80 mg & 160 mg of Docetaxel Each vial of 2 ml contains 20 mg Docetaxel (10 mg/ml).

Each vial of 8 ml contains 80 mg Docetaxel (10 mg/ml)

Each vial of 16 ml contains 160 mg Docetaxel (10 mg/ml). Each vial of 16 ml contains 160 mg Docetaxel (10 mg/ml). Excipient: Each single-dose vial of concentrate for solution contains 27% (w/w) ethanol 96%. For a full list of excipients, see section 6.1: "List of Excipients".

3. PHARMACEUTICAL FORM

Concentrate for solution for infusion Clear, colorless to pale, yellow solution; pH 3.0 – 4.5

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer: Docetaxel Ebewe in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with operable node-positive breast cancer Docetaxel Ebewe in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast

cancer who have not previously received cytotoxic therapy for this condition. Docetaxel Ebewe monotherapy is indicated for the treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent. Docetaxel Ebewe in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer after failure overexpress HER2 and who previously have not received chemotherapy for metastatic disease. Docetaxel Ebewe in combination with capecitable is indicated for the treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy therapy. The treatment of patients with metastatic breast cancer after failure of cytotoxic therapy the treatment of patients with metastatic breast cancer after failure of cytotoxic therapy the treatment of patients with metastatic breast cancer after failure of cytotoxic therapy the treatment of patients with metastatic breast cancer after failure t f cytotoxic chemotherapy. Previous therapy should have included an anthracycline. Doxorubicin and cyclophosphamide followed by Docetaxel Ebewe in combination with trastuzumab (AC-TH) is indicated for the adjuvant treatment of patients with HER2 overexpressing,

node-positive or high-risk node-negative breast cancer. Docetaxel Ebewe in combination with trastuzumab, and carboplatin (TCH) is indicated for the adjuvant treatment of patients with HER2 overexpressing, node-positive or high-risk node-negative breast cancer.

Non-small cell lung cancer: Docetaxel Ebewe is indicated for the treatment of patients with advanced non-small cell lung carcinoma.

Ovarian cancer: Docetaxel Ebewe is indicated for treatment of metastatic carcinoma of the ovary after failure of first line or subsequent chemotherapy.

Prostate cancer: Docetaxel Ebewe in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone-refractory metastatic prostate cancer

Esophageal cancer: Docetaxel Ebewe is also indicated for the treatment of esophageal cancer.

Gastric cancer: Docetaxel Ebewe is also indicated for the treatment of advanced gastric cancer.

Head and neck cancer (SCCHN): Docetaxel Ebewe as monotherapy is indicated in the treatment of patients with recurrent and/or metastasis squamous cell carcinoma of the head and neck after failure of a previous chemotherapy regimen. Docetaxel Ebewe in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

Additional Therapeutic Activity Ovarian Cancer: Docetaxel Ebewe in combination with carboplatin is used for treatment of patients with advanced carcinoma of the ovary who have not previously received cytotoxic therapy for this condition. Recommended doses are carboplatin AUC 5 plus Docetaxel Ebewe 75 mg/m<sup>2</sup>. 4.2 Posology and method of administration

The use of docetaxel should be confined to units specialized in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6: "Special precautions or disposal and other handling"). Recommended dose

Recommended dose For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g., 8 mg BID) for 3 days starting 1 day prior to Docetaxel Ebewe administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of hematological toxicities. For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the Docetaxel Ebewe infusion (see section 6.6: "Special warnings and precautions for use"). Docetaxel Ebewe is administered as a one-hour infusion every three weeks. For further details on preparation of infusion solution see section "Special precautions for disposal and other handling". Care should be taken of administration of the infusion to avail dartavastion.

Care should be taken of administration of the infusion to avoid extravasation Breast cancer

er treatment of operable node-positive breast cancer, the recommended dose of Docetaxel Ebewe is 75 mg/m² administered 1 hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (see also "Dose adjustments during Becomence J.

as monotherapy. In first-line treatment, Docetaxel Ebewe 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m² as monotherapy, in first-line treatment, Docetaxel Ebewe /5 mg/m² is given in combination therapy with doxorubicin (50 mg/m²). In combination with trastuzumab the recommended dose of Docetaxel Ebewe is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal trial the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab "Summary of product characteristics". In combination with capecitabine, the recommended dose of Docetaxel Ebewe is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine "Summary of product characteristics".

In the adjuvant treatment of patients with operable breast cancer whose tumours overexpress HER2 the recommended docetaxel dose

AC (cycles 1 - 4): doxorubicin (A) 60 mg/m<sup>2</sup> followed by cyclophosphamide (C) 600 mg/m<sup>2</sup> administered every three weeks for 4 cycles. TH (cycles 5 - 8): docetaxel (T) 100 mg/m<sup>2</sup> administered every three weeks for 4 cycles, and trastuzumab (H) administered weekly according the following schedule: Cycle 5 (starting three weeks after the last cycle of AC):

Day 1: trastuzumab 4 mg/kg (loading dose) Day 2: docetaxel 100 mg/m

Days 8 and 15: trastuzumab 2 mg/kg

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Day 1: docetaxel 100 mg/m<sup>2</sup> and trastuzumab 2 mg/kg

Days 8 and 15: trastuzumab 2 mg/kg Three weeks after day 1 of cycle 8: trastuzumab 6 mg/kg is given every three weeks.

Trastuzumab is administered for a total duration of 1 year

CH (cycles 1 - 6): docetaxel (T) 75 mg/m<sup>2</sup> and carboplatin (C) at AUC of 6 mg/mL/min administered every three weeks and trastuzumab H) administered weekly according the following schedule:

Day 1: trastuzumab 4 mg/kg (loading dose)

Day 2: docetaxel 75 mg/m<sup>2</sup> and carboplatin at AUC of 6 mg/mL/min Days 8 and 15: trastuzumab 2 mg/kg

Day 1: docetaxel 75 mg/m<sup>2</sup> followed by carboplatin at AUC of 6 mg/mL/min and trastuzumab 2 mg/kg Days 8 and 15: trastuzumab 2 mg/kg Three weeks after day 1 of cycle 6: trastuzumab 6 mg/kg is given every three weeks.

Trastuzumab is administered for a total duration of 1 yea

Non-small cell lung cancer In chemotherapy-naïve patients treated for non-small cell lung cancer, the recommended dose regimen is Docetaxel Ebewe 75 mg/m<sup>2</sup> immediately followed by cisplatin 75 mg/m<sup>2</sup> over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m<sup>2</sup> as a single agent. Prostate cancer

nded dose of Docetaxel Ebewe is 75 mg/m<sup>2</sup>. Prednisone or prednisolone 5 mg orally twice daily is administered continuously The recommended dose of Docetaxel Ebewe is 75 (see section 5.1: "Pharmacodynamic properties").

Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Pro G-CSF may be used to mitigate the risk of hematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 24 studies received prophylactic antibiotics. • Induction chemotherapy followed by radiotherapy (TAX 323) er cisplatin administration). Prophylactic ontaining arm of the TAX 323 and TAX

For the induction treatment of induction treatment of inductional y advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m<sup>2</sup> as a 1-hour infusion followed by cisplatin 75 mg/m<sup>2</sup> over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m<sup>2</sup> per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy. (TAX 324) For the induction chemotherapy followed by chemoradiotherapy (TAX 324).

For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at For the induction treatment of patients with locally advanced (technically unresectable, low produling of suggical cure, and annung at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/r<sup>2</sup> as a 1-hour infusion on day 1, followed by cisplatin 100 mg/m<sup>2</sup> administered as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1,000 mg/m<sup>2</sup>/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

Dose adjustments during treatment

General Docetaxel Ebewe should be administered when the neutrophil count is  $\geq$  1,500 cells/mm<sup>3</sup>. In patients who experienced either febrile Lectron anotation of automateria when the neutrophil count is ≥ 1,500 cells/mm<sup>3</sup>. In patients who experienced either febrile leutropenia, neutrophil < 500 cells/mm<sup>3</sup> for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy luring Docetaxel Ebewe therapy, the dose of Docetaxel Ebewe should be reduced from 100 mg/m<sup>3</sup> to 75 mg/m<sup>3</sup> and/or from 75 to 60 ng/m<sup>3</sup>. If the patient continues to experience these reactions at 60 mg/m<sup>2</sup>, the treatment should be discontinued. Adjuvant therapy for breast cancer

idered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant imary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (IAC) adjuvan lerapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose duced to 60 mg/m<sup>2</sup> in all subsequent cycles (see sections 4.4. "Special warnings and precautions for use" and 4.8. "Undesirable effects") atients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m<sup>2</sup>. In combination with cisplatin

patients who are dosed initially at Docetaxel Ebewe 75 mg/m<sup>2</sup> in combination with cisplatin and whose nadir of platelet count during previous course of therapy is < 25,000 cells/mm<sup>3</sup>, or in patients who experience febrile neutropenia, or in patients with serious non-matologic toxicities, the Docetaxel Ebewe dose in subsequent cycles should be reduced to 65 mg/m<sup>2</sup>. For cisplatin dose adjustments, onding summary of product characteristics. e the corresp In combination with capecitabine • For capecitabine dose modifications, see capecitabine "Summary of product characteristic

For cisplatin and 5-fluorouracil dose modifications, see the corresponding "Summary of product characteristics"

For patients developing the first appearance of a Grade 2 toxicity, which persists at the time of the next Docetaxel Ebewe/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose. or patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the reatment cycle, delay treatment until resolved to Grade 0-1, then resume treatment with Docetaxel Ebewe 55 mg/m<sup>2</sup>. For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the Docetaxel Ebewe dose. or trastuzumab dose modifications, see trastuzumab "Summary of product characteristics".

n combination with cisplatin and 5-fluorouracil

penia or neutropenic infection occurs despite G-CSE use, the Docetaxel Ebewe dose f an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the Docetaxel Ebew should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur, the Docetaxel Ebewe dose sho reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia, the Docetaxel Ebewe dose should be reduced from 75 to 60 m Patients should not be retreated with subsequent cycles of Docetaxel Ebewe until neutrophils recover to a level > 1,500 cells/mr Jatelets recover to a level > 100,000 cells/mr<sup>3</sup>. toxicities persist (see section 4.4: "Special warnings and precautions for use"). Recommended dose modifications for toxicities in patients treated with Docetaxel Ebewe in combination with cisplatin and

fluorouracil (5-FU):	
oxicity	Dose adjustment
	First episode: reduce 5-FU dose by 20%. Second episode: then reduce Docetaxel Ebewe dose by 20%.
	First episode: reduce Docetaxel Ebewe and 5-FU doses by 20%. Second episode: discontinue treatment.
	First episode: reduce 5-FU dose by 20%. Second episode: stop 5-FU only, at all subsequent cycles. Third episode: reduce Docetaxel Ebewe dose by 20%.

Third episode: reduce Docetaxel Ebewe dose by 20%. First episode: stop 5-FU only, at all subsequent cycles. itis/mucositis grade 4 Second episode: reduce Docetaxel Ebewe dose by 20%

In the pivotal SCCHN trials patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (e.g., days 6-15) in all subsequent cycles.

Based on pharmacokinetic data with docetaxel at 100 mg/m<sup>2</sup> as single agent, patients who have both elevations of transaminase (ALI and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m<sup>2</sup> (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose reduction can be recommended and docetaxel

In combination with displatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical trial excluded patients with ALT and/or AST >  $1.5 \times$  ULN associated with alkaline phosphatase >  $2.5 \times$  ULN, and bilirubin >  $1 \times$  ULN; for these patients, to dose reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with tepatic impairment treated by docetaxel in combination for the other indications.

Paediatric population The safety and efficacy of docetaxel in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been The safety and efficacy of docetaxel in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been the safety and efficacy of docetaxel in the productive population in the indications breast cancer, non-small cell lung cancer, establishéd. There is nó relevant use of docetaxel ín the paediatric population in the indications breast cancer, nón-small cell lung cancer prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma. Older people ermacokinetic analysis of this population, there are no special instructions for use in the elderly. In combination with

capecitabine, for patients 60 years of age or more, a starting dose reduction of capecitabine to 75% is recommended (see capecitabine "Summary of product characteristics"). 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients.

Docetaxel Ebewe must not be used in patients with baseline neutrophil count of < 1,500 cells/mm<sup>3</sup>.
 Docetaxel Ebewe must not be used in patients with severe liver impairment since there is no data available (see sections 4.2: "Posology and method of administration" and 4.4: "Special warnings and precautions for use").
 Contraindications for other medicinal products also apply, when combined with docetaxel.

4.4 Special warnings and precautions for use

A. Special warnings and precautions for use for breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day e.g., 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 2 hours, a hours and 1 hour before the docetaxel infusion (see section 4.2: "Posology and method of administration"). <u>Hematology</u>

; is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may

heutropenia is the most frequent adverse reaction of docetaxel. Neutropnii hadins occurred at a median of 7 days but his interval may be shorter in heavily pre-treated patients. Frequent monitoring of complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level **a** 1,500 cells/mm<sup>3</sup> (see section "Posology and method of administration"). In the case of severe neutropenia (< 500 cells/mm<sup>3</sup> for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2: "Posology and method of administration"). In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia) prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2: "Posology and method of administration" and 4.8: "Undesirable effects").

De closely monitored (see sections 4.2: "Posology and method of administration" and 4.8: "Undesirable effects"). In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2: "Posology and method of administration" and 4.8: "Undesirable effects").

Hypersensitivity reactions Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localized cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalized rash/erythema require interruption of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel ould not be re-challenged with docetaxel

Cutaneous reactions Incalized skin erythema of the extremities (palms of the hands and soles of the feet) with edema followed by desquamation has been

lized skin erythema of the extremities (paims of the hands and soles of the teely with edenia followed by desquaration has been red. Severe symptoms such as eruptions followed by desquaration which lead to interruption or discontinuation of docetaxel ment were reported (see section "Posology and method of administration"). Fluid retention

s with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely Respiratory disorders

zs syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

ondition. The benefit of resuming docetaxel treatment must be carefully evaluated

So taken by the ULN, no dose reduction can be recommended and doct as so times the bulk concentration of the strictly indicated. In combination with cisplatin and 5-fluorouracii for the treatment of patients with gastric adenocarcinoma, the pivotal clinical trial excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase  $2.5 \times ULN$ , and bilirubin > 1 × ULN; for these patients, no dose reductions can be recommended and doct strictly indicated. In combination pairment treated by docetaxel in combination in the other indications.

There are no data available in patients with severely impaired renal function treated with docetaxel.

<u>Mervous system</u> The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2: "Posology and method of

Cardiac toxicity leart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline Joxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section Undesirable Effects").

The recommended dose of Docetaxel Ebewe is 75 mg/m<sup>2</sup> as a 1-hour infusion, followed by cisplatin 75 mg/m<sup>2</sup>, as a 1- to 3-hour infusion for 5 days, starting at the and appropriate hydration for cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of hematological toxicities (see also "Dose adjustments during treatment").

<u>Others</u> Contrace ceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of Contraceptive measures must be taken by both ther and women during treatment and for men at least 6 months after cessation of therapy (see section 4.5: "Fertility, pregnancy and lactation"). The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5: "Interaction with other medicinal products and other forms of interaction").

Additional cautions for use in adjuvant treatment of breast cancer Complicated neutropenia

For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2: "Posology and method of administration").

kin and

disorder

disorders

Congestive heart failure titents should be monitored for symptoms of congestive heart failure during therapy and during the follow-up period. In patients treated the the TAC regimen for node-positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment ee sections 4.8: "Undesirable effects" and 5.1: "Pharmacodynamic properties"). n the docetaxel, doxorubicin and cyclophosphamide (TAC)-treated patients, the risk of delayed myelodysplasia or myeloid leukemia

paical follow-ur Patients with 4+ nodes As the benefit observed in patients with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1:

harmacodynamic properties") Older people ed data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhea, anorexia, and peripheral edema occurred at rates ≥ 10 percentage higher in patients who were 75 years of age or greater

ersus less than 65 years. Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 patients were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in the elderly patients compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients. Older patients treated with TCF should be closely monitored.

Excipients Docetaxel Ebewe contains 27 vol % ethanol (alcohol); i.e., 160 mg (average dose) contains 4100 mg alcohol, equivalent to less than Harmful for those who are 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 other

iseases or epilepsy. onsideration should be given to possible effects on the central nervous system

The amount of alcohol in this medicinal product may alter the effects of other medicines. The amount of alcohol in this medicinal product may alter the effects of other medicines. 4.5 Interaction with other medicinal products and other forms of interaction

In vitro studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolized by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as cyclosporine, terfenadine, ketoconazole, erythromycin and troleandomycin. As a result, caution should be exercised when treating patients with these medicinal roducts as concomitant therapy since there is a potential for a significant interaction. products as concomitant therapy since there is a potential for a significant interaction. In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.1: "Posology and method of administration"). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor betweenserable loads, to a circuitic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor etoconazole leads to a significant decrease in docetaxel clearance by 49%.

vocetaxel hards to a significant decrease in docetaxel clearance of 947. vocetaxel pharmacokinetics in the presence of predinsone was studied in patients with metastatic prostate cancer. Docetaxel is metabolized y CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed. Docetaxel is highly protein-bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medication has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valgroate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin. The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined with docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

4.6 Pertuity, pregnancy and necessor.
Pregnancy
There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.
Women of childbaring age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast-feeding must be discontinued for the duration of docetaxel therapy.

Contraception in males and females aception should be used during treatment

In non-clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3).

Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment. 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. The amount of alcohol in this medicinal product may impair the patient's ability to drive or use machines.

4.8 Undesirable effects

Fertility

nts are presented

Leu<u>kemia</u>

Summary of the safety profile for all indications The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in: • 1,312 and 121 patients who received 100 mg/m<sup>2</sup> and 75 mg/m<sup>2</sup> of docetaxel as a single agent, respectively. 258 patients who received docetaxel in combination with doxorubicin

 406 patients who received docetaxel in combination with cisplatin 92 patients treated with docetaxel in combination with trastuzumab

5 patients dealed with docease in combination with destuduind. 55 patients who received docetaxel in combination with apecitabine. 32 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment-related adverse ,276 patients (744 and 532 in TAX 316 and GEICAM 9805, respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment-related adverse events are presented). 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorourcai (clinically important treatment-related adverse events are presented). 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorourcai (clinically important reatment-related adverse events are presented hese reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4) and the COSTART Frequencies are defined as very common ( $\geq$  1/10); common ( $\geq$  1/100, < 1/10); uncommon ( $\geq$  1/1,000, < 1/100); rare ( $\geq$  1/10,000, < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from available data). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm<sup>3</sup>) was 7 days), anemia, alopecia, nausea, vomiting, stomatitis, diarrhea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination stomattils, diarmea and astnenia. The seventy of adverse events of ubcetaker may be increased when docetaker is given in containation with other chemotherapeutic agents. For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AEs (34% vs. 23%) in the trastuzumab combination arm compared to docetakel monotherapy. For combination with capecitabine, the most frequent treatment-related undesirable effects (≤ 5%) reported in a phase III trial in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).

The following adverse reactions are frequently observed with docetaxel: Immune system disorders Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4: "Posology and method of administration").

Nervous system disorders The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2: "Posology and method of administration" and section 4.4 "Special warnings and precautions"). Mild to moderate neuro-sensory signs are characterized by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterized by weakness.

build be closely monitored, promptly investigated, and appropriately treated. be carefully evaluated. agent who have serum transaminase levels (ALT and/or AST) greater than agent who have serum transaminase levels (ALT and/or AST) greater than a levels greater than 2.5 times the ULIN, there is a higher risk of developing the levels greater than 2.5 times the ULIN, there is a higher risk of developing. The direct of the moderate transaminase levels (ALT and/or AST) greater than the levels greater than 2.5 times the ULIN, there is a higher risk of developing. The direct of the moderate transaminase levels (ALT and/or AST) greater than the levels greater than 2.5 times the ULIN, there is a higher risk of developing. The direct of the direct

Fluid retention includes events such as peripheral edema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral edema usually starts at the lower extremities and may become generalized with a weight gain of 3 kg or more. Fluid

gain. The peripheral edema usually starts at the lower extremities and may become generalized with a retention is cumulative in incidence and severity (see section 4.4: "Special warnings and precautions"). Tabulated List of adverse reactions in breast cancer for DOCETAXEL 100 mg/m<sup>2</sup> single agent 
 MedDRA System Organ
 Very common adverse reactions
 Common adverse reactions
 Uncommon adverse reactions

 classes
 ≥ 10% of patients
 ≥ 1 to < 10% of patients</td>
 ≥ 0.1 to < 1% of patients</td>

	$\geq 10\%$ of patients	$\geq 1$ to < 10% of patients	$\geq$ 0.1 to < 1% of patients
ations		G3/4 Blood bilirubin increased (< 5%); G3/4 Blood alkaline phosphatase increased (< 4%); G3/4 AST increased (< 3%);	
		G3/4 ALT increased (< 2%)	
disorders		Arrhythmia (G3/4: 0.7%)	Cardiac failure
nd lymphatic system s	Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia	Thrombocytopenia (G4: 0.2%)	
system disorders	Peripheral sensory neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%); Dysgeusia (severe: 0.07%)		
ory, thoracic and inal disorders	Dyspnoea (severe: 2.7%)		
testinal disorders	Stomatitis (G3/4: 5.3%); Diarrhea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)	Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal hemorrhage (severe: 0.3%)	Oesophagitis (severe: 0.4%)
d subcutaneous tissue s	Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)		
oskeletal and ive tissue disorders	Myalgia (severe: 1.4%)	Arthralgia	

classes Metabolism and nutrition	Very comm ≥ 10% of particular Anorexia				Uncommon adverse reaction ≥ 0.1 to < 1% of patients
		G3/4: 5.7%; including pneumonia, fatal in			
	sepsis and 1.7%)	prieumonia, ia(al IN	Hypotension; Hypertension;		
		on (severe: 6.5%);	Hemorrhage Infusion site reaction;		
	Asthenia (severe: 11.2%); Pain Hypersensitivity (G3/4: 5.3%)		Non-cardiac chest pa 0.4%)	in (severe:	
Description of selected adverse r Blood and lymphatic system disc tare: bleeding episodes associat <u>lervous system disorders</u> teversibility data are available ai ingle agent. The events were sp ikin and subcutaneous tissue di	o <u>rders</u> ed with grad mong 35.3% ontaneously	le 3/4 thrombocytopeni 6 of patients who deve	ia. loped neurotoxicity fol		etaxel treatment at 100 mg/m²
/ery rare: one case of alopecia n General disorders and administra	on-reversible ation site cor	nditions			s were reversible within 21 days
was 16.4 weeks (range 0 to 42 v	weeks). The ompared wit during the ea	onset of moderate and th patients without pre- arly courses of therapy.	severe retention is del medication (median cu	ayed (medi mulative do	an cumulative dose: 818.9 mg/r ose: 489.7 mg/m²); however, it h
MedDRA System Organ class	es	Very common adver ≥ 10% of patients	rse reactions		adverse reactions 0% of patients
Investigations Cardiac disorders				G3/4 Bloo	d bilirubin increased (< 2%) a (no severe)
Blood and lymphatic system dise	orders	Neutropenia (G4: 54.) Anaemia (G3/4: 10.89 Thrombocytopenia (G	%);	Febrile neu	
Nervous system disorders Gastrointestinal disorders		Peripheral sensory neu Nausea (G3/4: 3.3%); Stomatitis (G3/4: 1.7%	uropathy (G3/4: 0.8%) %);	Peripheral Constipati	motor neuropathy (G3/4: 2.5% on
Skin and subcutaneous tissue di	sorders	Vomiting (G3/4: 0.8% Diarrhea (G3/4: 1.7% Alopecia;	)	Nail disord	lers (severe: 0.8%)
Musculoskeletal and connective		Skin reaction (G3/4: 0	.8%)	Myalgia	
disorders Metabolism and nutrition disord	lers	Anorexia			
Infections and infestations Vascular disorders General disorders and administr	ation site	Asthenia (severe: 12 4		Hypotensi	on
General disorders and administr conditions	auon site	Asthenia (severe: 12.4 Fluid retention (severe Pain			
Immune system disorders			-		itivity (no severe)
Tabulated List of adverse reaction MedDRA System Organ	Very com	mon adverse reactions	Common adverse re	actions	Uncommon adverse reactions
classes Investigations	≥ 10% of	patients	≥ 1 to < 10% of pati G3/4 Blood bilirubin ir (< 2.5%);		0.1 to < 1% of patients G3/4 AST increased (< 1%); G3/4 ALT increased (< 1%)
Cardiac disorders			G3/4 Blood alkaline pl increased (< 2.5%) Cardiac failure;	nosphatase	
Blood and lymphatic system	Neutroper	nia (G4: 91.7%);	Arrhythmia (no severe	)	
disorders	Febrile nei Thromboc	ytopenia (G4: 0.8%)			
Nervous system disorders Gastrointestinal disorders	Peripheral sensory neuropathy (G3: 0.4%) Nausea (G3/4: 5%); Stomatitis (G3/4: 7.8%); Diarrhea (G3/4: 6.2%);		(G3/4: 0.4%)		
Skin and subcutaneous tissue disorders	Vomiting (G3/4: 5%); Constipation Alopecia; Nail disorders (severe: 0.4%);				
Musculoskeletal and connective	Skin reaction (no severe)		Myalgia		
tissue disorders Metabolism and nutrition disorders			Anorexia		
Infections and infestations Vascular disorders	Infection (G3/4: 7.8%)				Hypotension
General disorders and administration site conditions	Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain		Infusion site reaction Hypersensitivity (G3/4: 1.2%)		
Infusion site reaction Immune system disorders					
Tabulated List of adverse reaction MedDRA System Organ classes	Very c reactions	ommon adverse	,	actions	ation with cisplatin Uncommon adverse reaction ≥ 0.1 to < 1% of patients
Investigations	_≥ 10% of	patients	G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)		G3/4 Blood alkaline phosphata increased (0.3%)
Cardiac disorders Blood and lymphatic system disorders		nia (G4: 51.5%);	Arrhythmia (G3/4: 0.7%) Febrile neutropenia		Cardiac failure
Nervous system disorders	Thromboo Periphera (G3: 3.7%				
Gastrointestinal disorders	(G3/4: 2% Nausea (G	i3/4: 9.6%);	Constipation		
	Vomiting ( Diarrhea ( Stomatitis	(G3/4: 7.6%); G3/4: 6.4%); (G3/4: 2%)			
Skin and subcutaneous tissue disorders	Skin reacti	ders (severe: 0.7%); ion (G3/4: 0.2%)			
Musculoskeletal and connective tissue disorders Metabolism and nutrition	Myalgia (s Anorexia	evere: 0.5%)			
disorders Infections and infestations		G3/4: 5.7%)			
Vascular disorders General disorders and administration site conditions		severe: 9.9%); htion (severe: 0.7%); '4: 1.2%)	Hypotension (G3/4: 0.7%) Infusion site reaction; Pain		
Immune system disorders	Hypersens	itivity (G3/4: 2.5%)			
MedDRA System Organ class	≥ 10% of patients		rse reactions Commor		adverse reactions 0% of patients
Investigations Cardiac disorders	a sala	Weight increased	2.0/ \.	Cardiac fa	ilure
Blood and lymphatic system dis	oruers	Neutropenia (G3/4: 32 Febrile neutropenia ( associated with fever neutropenic sepsis	2%); (includes neutropenia and antibiotic use) or		
Nervous system disorders		Paresthesia; Head Hypoesthesia	dache; Dysgeusia;		
Eye disorders Respiratory, thoracic and media: disorders	stinal	Nasopharyngitis; Dysp	igolaryngeal pain;		
Gastrointestinal disorders		Rhinorrhoea Nausea; Diarrhea; Vo Stomatitis: Dyspepsia:	miting; Constipation; Abdominal pain		
Skin and subcutaneous tissue di Musculoskeletal and connective disorders Metabolism and nutrition disord	tissue	Stomatitis; Dyspepsia; Abdominal paín Alopecia; Erythema; Rash; Nail disorders Myalgia; Arthralgia; Pain in extremity; Bone pain; Back pain Anorexia			
Vascular disorders General disorders and administr conditions	ation site	Mucosal inflammatio illness; Chest pain; Ch	pheral; Pyrexia; Fatigue; n; Pain; Influenza like iills		
Psychiatric disorders	Psychiatric disorders Insomnia				

iven docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compare with 55% in the docetaxel arm alone. Blood and lymphatic system disorders Very common: Hematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m<sup>2</sup> is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of fobile neutropenia development user also increased in gettingt tracted with lacendary (32%) users 12% (versult 12%). febrile neutropenia/neutropenic sepsis was also increased in patients treated with docetaxel alone). Tabulated List of adverse reactions in breast cancer for DOCETAXEL 75 mg/m<sup>2</sup> in combination with capecitabine MedDRA System Organ classes Very common adverse reactions ≥ 10% of patients ≥ 1 to < 10% of patients G3/4 Blood bilirubin incr Blood and lymphatic system disorder enia (G3/4· 639 <u>Anaemia (G3/4: 10%)</u> Dysgeusia (G3/4: < 1%) iness: Headache (G3/4: < 1%) vous system disorder araesthesia (G3/4: < 19 Neuropathy peripheral Eye disorders acrimation increased aryngolaryngeal pain (G3/4: 2% pnoea (G3/4: 1%); ory, thoracic and mediasting Cough (G3/4: < 1%); Epistaxis (G3/4: < 1%) trointestinal disorders omatitis (G3/4: 18%) Abdominal pain upper iarrhea (G3/4: 14%) rv mouth ausea (G3/4: 6%); miting (G3/4: 4%) Constipation (G3/4: 19 dominal pain (G3/4: 2%) Dyspepsia Hand-foot syndrome (G3/4: 24%) kin and subcutaneous tissue disorder ermatitis; Rash erythematous (G3/4: lopecia (G3/4: 6%); Vail discolouration ail disorders (G3/4: 2%) yalgia (G3/4: 2%): Onycholysis (G3/4: 1%) Pain in extremity (G3/4: < 1%) culoskeletal and connective tissue Back pain (G3/4: 1%) Dehydration (G3/4: 2%) Arthralgia (G3/4: 1%) letabolism and nutrition disorders Anorexia (G3/4: 1%); Decreased appetite Oral candidiasis (G3/4: < 19 nfections and infestations General disorders and administration si Asthenia (G3/4: 3%) Lethargy Pvrexia (G3/4: 1%) e/weakness (G3/4: 5%) edema peripheral (G3/4: 1 Tabulated List of adverse reactions in prostate cancer for DOCETAXEL 75 mg/m<sup>2</sup> in combination with prednisone or prednisolon MedDRA System Organ classes Very common adverse reactions ≥ 10% of patients Common adverse reactions ≥ 1 to < 10% of patients Cardiac disorders eft ventricular fun (G3/4: 0.3%) Thrombocytopenia (G3/4: 0.6%); Blood and lymphatic system disorder Anaemia (G3/4: 4.9%) Febrile neutropenia 4: Peripheral motor neuropathy (G3/4: 0% Peripheral sensory neuropathy 1.2%); ervous system disorder rsgeusia (G3/4: 0%) Lacrimation increased (G3/4: 0. Epistaxis (G3/4: 0%); Eye disorders spiratory, thoracic and mediastinal /spnoea (G3/4: 0.6%); Cough (G3/4: 0%) ausea (G3/4: 2.4% estinal disorder Diarrhea (G3/4: 1.2%) omatitis/Pharyngitis (G3/4: 0.9%); niting (G3/4: 1.2%) Skin and subcutaneous tissue disorders Alopecia; Nail disorders (no severe) Exfoliative rash (G3/4: 0.3%) loskeletal and connective bone Myalgia (G3/4: 0.3%) Netabolism and nutrition disorders Anorexia (G3/4: 0.6 nfections and infestations General disorders and administration site Infection (G3/4: 3.3%) Fatigue (G3/4: 3.9%) Fluid retention (severe: 0.6%) lypersensitivity (G3/4: 0 nmune system disorders Tabulated List of adverse reactions for adjuvant therapy with DOCETAXEL 75 mg/m<sup>2</sup> in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data 
 Very common adverse |
 Common adverse reactions
 Unc

 very common adverse |
 ≥ 1 to < 10% of patients</td>
 ≥ 0.
 MedDRA System Organ mon adverse reaction ≥ 0.1 to < 1% of patients ≥ 10% of patients fections and infestation utropenic infection (G3/4: Anaemia (G3/4: 3%); ood and lymphatic system Neutropenia (G3/4: 59.2% brile neutropenia (G3/4: I persensitivity (G3/4: 0.6%) nmune system disorders rexia (G3/4: 1.5% rvous system disorders geusia (G3/4: 0.6%); ope (G3/4: 0%) Peripheral motor neuro (G3/4: 0%) otoxicity (G3/4: 0%) pheral sensory neuropa 53/4: 0.1%) lence (G3/4: 0% tivitis (G3/4) < 0.1%ve disorders nation increased (G rrhythmia (G3/4: 0.2%) Cardiac disorders ot flush (G3/4: 0.5%) hoedema (G3/4: 0%) ular disorde ion (G3/4: 0%): ough (G3/4: 0%) iratory, thoracic and mediastinal disorders dominal pain (G3/4: 0.4%) usea (G3/4: 5% comatitis (G3/4: 5 %); pomiting (G3/4: 4.2%); iarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5 Skin and subcutaneous tissue Alopecia (persisting < 3%) Skin disorder (G3/4: 0.6%) Nail disorders (G3/4: 0.4%) Myalgia (G3/4: 0.7%); culoskeletal and connective tissue disorders Arthralgia (G3/4: 0.29 ductive system and breas hoea (G3/4: NA disorders General disorders and administration site conditions Pyrexia (G3/4: NA); edema peripheral (G3/4 eight increased (G3/4: 0%) Weight decreased (G3/4: 0.2%) Description of selected adverse reactions for adjuvant therapy with Docetaxel 75 mg/m<sup>2</sup> in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer <u>Nervous system disorders</u> Peripheral sensory neuropathy was observed to be ongoing during follow-up in 10 patients out of the 84 patients with peripheral sensory neuropathy at the end of the chemotherapy in the node-positive breast cancer study (TAX 316). Cardiac disorders In study TAX 316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure. In GEICAM 9805 study, 3 patients (0.6%) in TAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the followure particular to action to in CAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the followure particular to action to in CAC arm followure patients (0.6%) in FAC arm developed congestive heart failure during the followure patients (0.6%) in the section of the factors follow-up period. One patient in TAC arm died because of dilated cardiomyopathy <u>Skin and subcutaneous tissue disorders</u> In study TAX 316, alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients and 645 of 736 FAC patients. At the end of the follow-up period (actual median follow-up period of 96 months), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In GEICAM 9805 study, alopecia periseted into the follow-up period (median follow-up time of 10 years and 5 months) and was observed to be ongoing in 49 patients (9.2%) in TAC arm and 35 patients (6.7%) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9%) in TAC arm and 30 patients (5.8%) in FAC arm. Amenorrhoea was observed to be ongoing during follow-up in 121 patients out of the 202 patients with amenorrhoea at the end of the chemotherapy in study TAX 316.

sorders

General disorders and administration site conditions In study TAX 316, peripheral oedema was observed to be ongoing in 19 patients out of the 119 patients with peripheral oedema in the TAC arm and 4 patients out of the 23 patients with peripheral oedema in the FAC arm. In study GEICAM 9805, lymphoedema was observed to be ongoing in 4 of the 5 patients in TAC arm and in 1 of the 2 patients in FAC arm at the end of the chemotherapy and did not resolve during the follow-up period (median follow-up time of 10 years and 5 months). Asthenia persisted into the follow-up period (median follow-up time of 10 years and 5 months) and was observed to be ongoing in 12 patients (2.3%) in TAC arm and 4 patients (0.8%) in FAC arm.

Acute leukaemia/Myelodysplastic syndrome After 10 years of follow-up in study TAX 316, acute leukaemia was reported in 4 of 744 TAC patients and in 1 of 736 FAC patients. Myelodysplastic syndrome was reported in 2 of 744 TAC patients and in 1 of 736 FAC patients. After 10 years of follow-up in GELCAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment group.

Description of selected adverse reactions in breast cancer for DOCETAXEL 100 mg/m<sup>2</sup> in combination with trastuzumab

<u>Cardiac disorders</u> Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients

In GEICAM 9805 study, amenorrhoea persisted into the follow-up period (median follow-up time of 10 years and 5 months) and was observed to be ongoing in 18 patients (3.4%) in TAC arm and 5 patients (1.0%) in FAC arm.

<u>Neutropenic complications</u> Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm – GEICAM study. <u>Neutropenic complications in patients receiving TAC with or without primary G-CSF prophylaxis (GEICAM 9805)</u>

read openic complications in patien	wearbpene compleations in patients receiving ince with or without primary a con propriytaxis (delenam 5005)				
	Without primary G-CSF prophylaxis	With primary G-CSF prophylaxis			
	(n = 111)	(n = 421)			
	n (%)	n (%)			
Neutropenia (Grade 4)	104 (93.7)	135 (32.1)			
Febrile neutropenia	28 (25.2)	23 (5.5)			
Neutropenic infection	14 (12.6)	21 (5.0)			
Neutropenic infection (Grade 3-4)	2 (1.8)	5 (1.2)			

MedDRA System Organ classes Very common adverse reactions Common adverse reactions					
meabler system organ classes	$\geq$ 10% of patients	$\geq$ 1 to < 10% of patients			
Cardiac disorders		Arrhythmia (G3/4: 1.0%)			
Blood and lymphatic system disorders	Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%); Febrile neutropenia				
Nervous system disorders	Peripheral sensory neuropathy (G3/4: 8.7%)	Dizziness (G3/4: 2.3%);			
		Peripheral motor neuropathy (G3/4: 1.3%)			
Eye disorders		Lacrimation increased (G3/4: 0%)			
Ear and labyrinth disorders		Hearing impaired (G3/4: 0%)			
Gastrointestinal disorders	Diarrhea (G3/4: 19.7%); Nausea (G3/4: 16%); Stomatitis (G3/4: 23.7%); Vomiting (G3/4: 14.3%)	Constipation (G3/4: 1.0%); Gastrointestinal pain (G3/4: 1.0%); Oesophagitis/dysphagia/odynophagia (G3/4: 0.7%)			
Skin and subcutaneous tissue disorders	Alopecia (G3/4: 4.0%)	Rash pruritus (G3/4: 0.7%); Nail disorders (G3/4: 0.7%); Skin exfoliation (G3/4: 0%)			
Metabolism and nutrition disorders	Approvia (G3/A: 11 7%)				

 
 etabolism and nutrition disorders
 Anorexia (G3/4: 11.7%)

 rections and infestations
 Neutropenic infection;
 Infection (G3/4: 11.7%) Lethargy (G3/4: 19.0%); Fever (G3/4: 2.3% neral disorders and administration site Fluid retention (severe/life threatening: 1% mmune system disorders Hypersensitivity (G3/4: 1.7%

Description of selected adverse reactions in gastric adenocarcinoma cancer for Docetaxel 75 mg/m<sup>2</sup> in combination with cisplatin and

Blood and lymphatic system disorders Biological and symplical systems and neutropenic infection occurred in 17.2% and 13.5% of patients, respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF, in 5.6% and 12.9% of patients without prophylactic G-CSF. Tabulated List of adverse reactions in head and neck cancer for DOCETAXEL 75 mg/m<sup>2</sup> in combination with cisplatin and 5-fluorouracil

Induction chemotherapy followed	by radiotherapy (TAX 323)		
MedDRA System Organ classes	Very common adverse reactions ≥ 10% of patients	Common adverse reactions ≥ 1 to < 10% of patients	Uncommon adverse reaction ≥ 0.1 to < 1% of patients
Investigations		Weight increased	
Cardiac disorders		Myocardial ischemia (G3/4: 1.7%)	Arrhythmia (G3/4: 0.6%)
Blood and lymphatic system disorders	Neutropenia (G3/4: 76.3%); Anemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)		
Nervous system disorders	Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)	Dizziness	
Eye disorders		Lacrimation increased; Conjunctivitis	
Ear and labyrinth disorders		Hearing impaired	
Gastrointestinal disorders	Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)	Constipation; Esophagiti/dysphagia/ odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal hemorrhage (G3/4: 0.6%)	
Skin and subcutaneous tissue disorders	Alopecia (G3/4: 10.9%)	Rash pruritic; Dry skin; Skin exfoliative (G3/4: 0.6%)	
Musculoskeletal and connective tissue disorders		Myalgia (G3/4: 0.6%)	
Metabolism and nutrition disorders	Anorexia (G3/4: 0.6%)		
Infections and infestations	Infection (G3/4: 6.3%); Neutropenic infection		
Neoplasms benign, malignant and unspecified (incl cysts and polyps)		Cancer pain (G3/4: 0.6%)	
Vascular disorders		Venous disorder (G3/4: 0.6%)	
General disorders and administration site conditions	Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Edema		
Immune system disorders		Hypersensitivity (no severe)	

	d by chemoradiotherapy (TAX 324)		
MedDRA System Organ classes	Very common adverse reactions ≥ 10% of patients	≥ 1 to < 10% of patients	Uncommon adverse reactions ≥ 0.1 to < 1% of patients
Investigations	Weight decreased		Weight increased
Cardiac disorders		Arrhythmia (G3/4: 2.0%)	Myocardial ischemia
Blood and lymphatic system disorders	Neutropenia (G3/4: 83.5%); Anemia (G3/4: 12.4%); Thrombocytopenia (G3/4: 4.0%); Febrile neutropenia		
Nervous system disorders	Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)	Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)	
Eye disorders		Lacrimation increased	Conjunctivitis
Ear and labyrinth disorders	Hearing impaired (G3/4: 1.2%)		
Gastrointestinal disorders	Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 2.0.7%); Diarrhea (G3/4: 6.8%); Esophagitis/dysphagia/ odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)	Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal hemorrhage (G3/4: 0.4%)	
Skin and subcutaneous tissue disorders	Alopecia (G3/4: 4.0%); Rash pruritic	Dry skin; Desquamation	
Musculoskeletal, connective tissue bone disorders		Myalgia (G3/4: 0.4%)	
Metabolism and nutrition disorders	Anorexia (G3/4: 12.0%)		
Infections and infestations	Infection (G3/4: 3.6%)	Neutropenic infection	
Neoplasms benign, malignant and unspecified (incl cysts and polyps)		Cancer pain (G3/4: 1.2%)	
Vascular disorders			Venous disorder
General disorders and administration site conditions	Lethargy (G3/4: 4.0%); Pyrexia (G3/4: 3.6%); Fluid retention (G3/4: 1.2%); Edema (G3/4: 1.2%)		
Immune system disorders			Hypersensitivity

Post-marketing experience

\_\_\_\_\_

<u>Cardiac disorders</u> Rare cases of myocardial infarction have been reported.

Blood and <u>Imphatic system disorders</u> Bone marrow suppression and other hematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

<u>Nervous system disorders</u> Rare cases of convulsion or t n or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

 Eve disorders
 Dest-Menopausal
 254
 0.72
 0.47-1.12

 Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimation with or without conjunctivitis, as cases of lacrimation with or without conjunctivity, as cases of lacrimation with or without conjunctivity, as cases of lacrimation with or evention and uct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.
 0.47-1.12

Ear and labyrinth disorders Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.

<u>Respiratory, thoracic and mediastinal disorders</u> Acute respiratory distress syndrome and cases of interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

<u>Gastrointestinal disorders</u> Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

Skin and subcutaneous tissue disorders Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Sclerodermal-like changes usually preceded by peripheral lymphedema have been reported with docetaxel. Cases of permanent (frequency not known) alopecia have been reported. Neoplasms benign, malignant and unspecified (incl cysts and polyps) Verv rare cases of acute myeloid leukemia and myelodysplastic syndrome have been reported in association with docetaxel when used in

combination with other chemotherapy agents and/or radiotherapy

<u>Vascular disorders</u> Venous thromboembolic events have rarely been reported.

<u>General disorders and administration site conditions</u> Radiation recall phenomena have rarely been reported. Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Dehydration and pulmonary edema have rarely been reported.

<u>Immune system disorders</u> Some cases of anaphylactic shock, sometimes fatal, have been reported.

<u>Hepatobiliary disorders</u> Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.

Renal and urinary disorders Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disord

<u>Metabolism and nutrition disorders</u> Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia.

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. Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online

http://forms.gov.il/globaldata/getsequence/getsequence.aspx?formType=AdversEffectMedic@moh.gov.il 4.9 Overdose

4.9 Overdose
There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of overdose, the patient should be kept in a specialized unit and vital functions closely monitored. In cases of overdose, exacerbation of adverse events may be expected. The primary anticipated complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should be taken, as needed.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties Pharmacotherapeutic group: Taxanes, ATC Code: L01CD02

Mechanism of action **Rechanism of action** locetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their isassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of taxel has been shown in vitro to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular

Pharmacodynamic effects ocetaxel was found to be cytotoxic *in vitro* against various murine and human tumor cell lines and against freshly excised human tumo cells in clongenic assays. Docetaxel achieves high intracellular oncentrations with a long cell residence time. In addition, docetaxel was found to be active on some but not all cell lines overexpressing the p-glycoprotein which is encoded by the multidrug resistance gene. In vivo, docetaxel is schedule independent and has a broad spectrum of experimental antitumor activity against advanced murine and numan grafted tumor Efficacy and Safety

DOCETAXEL in combination with doxorubicin and cyclophosphamide: adjuvant therapy

DOCETAXEL in combination with doxorubicin and cyclophosphamide: adjuvant therapy Patients with operable node-positive breast cancer (TAX 316) Data from a multicenter, open-label, randomized trial support the use of docetaxel for the adjuvant treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+1), 1491 patients were randomized to receive either docetaxel 75 mg/m<sup>2</sup> administered 1 hour after doxorubicin 50 mg/m<sup>2</sup> and cyclophosphamide 500 mg/m<sup>2</sup> (TAC arm), or doxorubicin 50 mg/m<sup>2</sup> followed by fluorouracil 500 mg/m<sup>2</sup> and cyclophosphamide 500 mg/m<sup>2</sup> (FAC arm). Both regimens were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion; all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifien 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of

Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-up before). Disease-free survival (DFS) was the primary efficacy endpoint and overall survival (OS) was he secondary efficacy endpoint. A final analysis was performed with an actual median follow-up of 96 months. Significantly longer disease-free survival for the TAC arm

A final analysis was performed with an actual median tollow-up of 96 months. Sugniticantly longer disease-free survival for the IAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e., an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e., an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC. TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed

		Disease-Free Survival			0	verall Survival	
Patient subset	Number of patients	Hazard ratio*	95% CI	p =	Hazard ratio*	95% CI	p =
No. of positive nodes							
Overall	745	0.80	0.68-0.93	0.0043	0.74	0.61-0.90	0.0020
1-3	467	0.72	0.58-0.91	0.0047	0.62	0.46-0.82	0.0008
4+	278	0.87	0.70-1.09	0.2290	0.87	0.67-1.12	0.2746
* a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC							

Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

 Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)
 C(s) 75 mg/m² over 31

 Data from a multicenter, open-label, randomized trial support the use of docetaxel for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1,060 patients were randomized to receive either docetaxel 75 mg/m² in ml.min) over 30-60 mi
 C(s) 75 mg/m² over 31

 followed by fluorourscil S00 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size > 2 cm and/or negative breast cancer patients with signal durate (grade 2 to 3) and/or age < 35 years). Both regimens were administered once every 3</td>
 C(s) 75 mg/m² over 31

 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion; all other drugs were given intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia febrile neutropenia and neutropenic infection was decreased in patients who received primary 6-CSF prophylaxis (see section 4.8). In by dation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received FAC.
 Overall Survival (%)

 0. patients who received TAC and 51.2% of patients who received FAC.
 One primary analysis and one updated analysis were performed. The primary analysis was performed when all patients had a follow-up free formaltip patient oppoint.
 \* Corrected for multip atient to prograve from multip atient population.

 Year (median follow-up time of 1

Disease free survival (Dr3) was the plinitary efficacy endpoint and Overan survival for 05 was the secondary efficacy endpoint. At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow-up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p = 0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.  $\frac{Prostate cancer}{F}$ The reduction in the risk of death compared to Basic acted with a positive trend in favour of TAC.
At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26, p = 0.29). However, the distribution of OS was  $\frac{Prostate cancer}{F}$ The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone-refractory metastatic
prostate cancer were evaluated in a randomized, multicenter, phase III trial. A total of 1006 patients with KPS  $\geq$  60 were randomized to
the following treatment groups:

FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)).
FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)).
The survival rate was 93.7% in the TAC arm and 91.4% in the FAC arm, at the 8-year follow-up timepoint, and 91.3% in the TAC arm
The positive benefit risk ratio for TAC compared to FAC c

median follow-up time of 77 months) (see table below): s-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis)

Subset Analyses-Adjuvant Therapy in	Patients with Node-negative Breast	t Cancer Study (Intent-t	o-Treat Analysis)	
Patient subset	Number of patients in	Disease-Free Survival		
Fatient subset	TAC group	Hazard ratio*	95% CI	
Overall	539	0.68	0.49-0.93	
Age category 1				
< 50 years	260	0.67	0.43-1.05	
≥ 50 years	279	0.67	0.43-1.05	
Age category 2				
< 35 years	42	0.31	0.11-0.89	
≥ 35 years	497	0.73	0.52-1.01	
Hormonal receptor status				
Negative	195	0.7	0.45-1.1	
Positive	344	0.62	0.4-0.97	
Tumour size				
≤ 2 cm	285	0.69	0.43-1.1	
> 2 cm	254	0.68	0.45-1.04	
Histological grade				
Grade1 (includes grade not assessed)	64	0.79	0.24-2.6	
Grade 2	216	0.77	0.46-1.3	
Grade 3	259	0.59	0.39-0.9	
Menopausal status				
Pre-Menopausal	285	0.64	0.40-1	
Post-Menopausal	254	0.72	0.47-1.12	

Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) vere performed and presented here below:

	TAC	FAC	Hazard ratio (TAC/FAC)				
Subgroups	(n = 539)	(n = 521)	(95% CI)	p-value			
Meeting relative indication for chemotherapy <sup>a</sup>							
No	18/214 (8.4%)	26/227 (11.5%)	0.796 (0.434-1.459)	0.4593			
Yes	48/325 (14.8%)	69/294 (23.5%)	0.606 (0.42-0.877)	0.0072			
TAC = docetaxel, doxorubicin and cyclophosphamide							
FAC = 5-fluorouracil, doxorubicin and cyclophospamide							

= confidence interval; ER = estrogen receptor PR = progesterone recepto

<sup>a</sup> ER/PR-negative or Grade 3 or tumor size > 5 cm

Param

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(95%

he estimated hazard ratio was calculated using Cox proportional hazard model with treatment group as the factor.

The estimated hazard ratio was calculated using Cox proportional hazard model with treatment group as the factor. **DOCETAXEL** as single agent Two randomized phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m<sup>2</sup> every 3 weeks. In alkylating-failure patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m<sup>2</sup> every 3 weeks. In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m<sup>2</sup> every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. doxorubicin 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fullui tertention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure). In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m<sup>2</sup> every 6 weeks sn. 11 weeks, p = 0.004) and prolonged overall survival (11 months vs. 9 months, p = 0.01). During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section "Undesirable Effects"). An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A stotal of 449 patients were randomized to receive docetaxel monotherapy 100 mg/m<sup>2</sup> as a 1-hour infusion. Both regimens were administered every 3 weeks. Without affecting the primary endpoint, overall response rate (32% vs. 25%, p = 0.10), docetaxel prol

### DOCFTAXEL in combination with doxorubicin

UNCE LAKEL in combination with doxorubicin
One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m<sup>2</sup>) in combination with docetaxel (75 mg/m<sup>2</sup>) (AT arm) versus doxorubicin (60 mg/m<sup>2</sup>) in combination with cyclophosphamide (600 mg/m<sup>2</sup>) (AC arm). Both regimens were administered on day 1 every 3 weeks.
Time to progression (TTP) was significantly longer in the AT arm versus AC arm, p = 0.0138. The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, p = 0.009. The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.
In this trail, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%). febrile postence (23.2% versus 400%) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm. In this trial, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anemia (15.8% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anemia (15.8% versus 5.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up. DOCETAXEL in combination with trastuzumab **DOCETAXEL in combination with trastuzumab** Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumors overexpress HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m<sup>2</sup>) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal trial was immunohistochemistry (IHC). A minority of patients were tested using fluorescence *in situ* hybridization (FISH). In this trial, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+, and/95 HSI positive. Efficacy results are summarized in the following table:

had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:					
eter	Docetaxel plus trastuzumab <sup>1</sup> n = 92	Docetaxel <sup>1</sup> n = 94			
nse rate	61%	34%			
CI)	(50-71)	(25-45)			
n Duration of response (months)	11.4	5.1			
CI)	(9.2-15.0)	(4.4-6.2)			
in TTP (months)	10.6	5.7			
CI)	(7.6-12.9)	(5.0-6.5)			
n Survival (months)	30.5 <sup>2</sup>	22.1 <sup>2</sup>			
Cl)	(26.8-ne)	(17.6-28.9)			

#### TTP = time to progression; "ne" indicates that it could not be estimated or it was not yet reached. <sup>1</sup> Full analysis set (intent-to-treat) Estimated median survival

#### DOCETAXEL in combination with capecitabine

**DOCETAXEL** in combination with capecitabine Data from one multicenter, randomized, controlled phase III clinical trial support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this trial, 255 patients were randomised to treatment with docetaxel (75 mg/m<sup>2</sup> as a 1-hour intravenous infusion every 3 weeks) and capecitabine (1,250 mg/m<sup>2</sup> twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m<sup>2</sup> as a 1-hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone). The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 27% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone). **Non-small cell lung cancer** 

Mon-small cell lung cancer Patients previously treated with chemotherapy with or without radiotherapy In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m<sup>2</sup> compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%). There was less use of morphine analgesic (p < 0.01), non-morphine analgesics (p < 0.01), other disease-related medications (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m<sup>2</sup> compared to those with BSC. The overall prepares user to use C 6% in the overluption patients treated with docetaxel at 75 mg/m<sup>2</sup> compared to those with BSC. The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.

The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks. **DOCETAXEL in combination with platinum agents in chemotherapy-naïve patients** In a phase III trial, 1,218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m<sup>2</sup> as a 1-hour infusion immediately followed by cisplatin (Cis) 75 mg/m<sup>2</sup> over 30-60 minutes every 3 weeks, docetaxel 75 mg/m<sup>2</sup> as a 1-hour infusion in combination with carboplatin (AUC 6 mg/ mini) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m<sup>2</sup> administered over 6-10 minutes on days 1, 8, 15, 22 followed by circletion 100 mg/m<sup>2</sup> administered on days 1, 6 rules conserved areas 4 weeks. cisplatin 100 mg/m<sup>2</sup> administered on day 1 of cycles repeated every 4 weeks.

edian time to progression and response rates for two arms of the study are illustrated in the following table:					
	TCis n = 408	VCis n = 404	Statistical Analysis		
(Primary end-point)					

urvival (Primary end-point)				
Survival (months)	11.3	10.1	Hazard Ratio: 1.122 [97.2% CI: 0.937; 1.342]*	
urvival (%)	46	41	Treatment difference: 5.4% [95% CI: -1.1; 12.0]	
urvival (%)	21	14	Treatment difference: 6.2% [95% CI: 0.2; 12.3]	
Time to Progression (weeks)	22.0	23.0	Hazard Ratio: 1.032 [95% CI: 0.876; 1.216]	
esponse Rate (%)	31.6	24.5	Treatment difference: 7.1% [95% CI: 0.7; 13.5]	
ted for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable				

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnofsky performance status. Results on these end-points were supportive of the primary end-point results. For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment

Prostate cancer The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone-refractory metastatic

and 89% in the FAC arm, at the 10-year follow-up timepoint. The positive <u>benefit risk ratio</u> for TAC compared to FAC <u>remained unchanged</u>. TAC\_treated patient subsets according to prospectively defined major prognostic factors were analyzed in the primary analysis (at the ontrol arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table

Endpoint	Docetaxel every 3 weeks	Docetaxel every week	Mitoxantrone every 3 weeks
Number of patients	335	334	337
Median survival (months)	18.9	17.4	16.5
95% CI	(17.0-21.2)	(15.7-19.0)	(14.4-18.6)
Hazard ratio	0.761	0.912	
95% CI	(0.619-0.936)	(0.747-1.113)	
p-value <sup>+</sup> *	0.0094	0.3624	
Number of patients	291	282	300
PSA** response rate (%)	45.4	47.9	31.7
95% CI	(39.5-51.3)	(41.9-53.9)	(26.4-37.3)
p-value*	0.0005	< 0.0001	
Number of patients	153	154	157
Pain response rate (%)	34.6	31.2	21.7
95% CI	(27.1-42.7)	(24.0-39.1)	(15.5-28.9)
p-value*	0.0107	0.0798	
Number of patients	141	134	137
Tumor response rate (%)	12.1	8.2	6.6
95% CI	(7.2-18.6)	(4.2-14.2)	(3.0-12.1)
p-value*	0.1112	0.5853	
<sup>+</sup> Stratified log rank test			
* Threshold for statistical significance =	: 0.0175		
** PSA: Prostate-Specific Antigen			
Due to the fact that docetaxel every wee	ek presented a slightly better safety pr	ofile than docetaxel every 3 v	veeks, it is possible that certa

Due to the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain Determine the maximum doctave were presented a signify better safety prome than doctave patients may benefit from doctavel every week. No statistical differences were observed between treatment groups for Global Quality of Life.

Gastric adenocarcinoma A multicenter open-label, randomized trial, was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients a multicenter open-label, randomized trial, was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients A multicenter, open-label, randomized trial, was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (1) (75 mg/m<sup>2</sup> on day 1) in combination with cisplatin (C) (75 mg/m<sup>2</sup> or day 1) and 5-fluorouracil (F) (750 mg/m<sup>2</sup> per day for 5 days) or cisplatin (100 mg/m<sup>2</sup> or day 4) and 5-fluorouracil (1,000 mg/m<sup>2</sup> per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and sassociated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm surface the following table: Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

Endpoint	TCF	CF	
	n = 221	n = 224	
Median TTP (months)	5.6	3.7	
(95% CI)	(4.86-5.91)	(3.45-4.47)	
Hazard ratio	1.	473	
(95% CI)	(1.189	(1.189-1.825)	
*p-value	0.0	0004	
Median survival (months)	9.2	8.6	
(95% CI)	(8.38-10.58)	(7.16-9.46)	
2-year estimate (%)	18.4	8.8	
Hazard ratio	1.	293	
(95% CI)	(1.041-1.606)		
*p-value	0.0	0.0201	
Overall Response Rate (CR+PR) (%)	36.7	25.4	
p-value	0.0	0.0106	
Progressive Disease as Best Overall Response (%)	16.7	25.9	
* Unstratified lograph test		^	

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

avoid update analysis of the full of the consistency have a full of the full and the consistency have a full of the full of th werall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with CF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer me to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF. Head and neck cancer

# rapy followed by radiotherapy (TAX 323)

Head and neck Cancer
Induction chemotherapy followed by radiotherapy (TAX 323)
The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN)
was evaluated in a phase III, multicenter, open-label, randomized trial (TAX 323). In this study, 358 patients with inoperable locally
advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (1) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (a 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1,000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (a 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks. TF/RT). Patients on the comparator arm received dioretapy (RT) according to institutional guidelines for 7 weeks (FF/RT).
Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for the sequence at the comparation days of each cycle, or equivalent. The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TFP ar Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)

Encacy of docetaxen in the induction treatment of patients with hoperable locally advanced secting (interfeto near Analysis)			
Endpoint	Docetaxel + Cis + 5-FU n = 177	Cis + 5-FU n = 181	
Median progression-free survival (months)	11.4	8.3	
(95% CI)	(10.1-14.0)	(7.4-9.1)	
Adjusted Hazard ratio	0.70		
(95% C1)	(0.55-0.89)		
* p-value	0.0042		
Median survival (months)	18.6	14.5	
(95% CI)	(15.7-24.0)	(11.6-18.7)	
Hazard ratio (95% Cl) **p-value	(0.5	).72 6-0.93) 0128	
Best overall response to chemotherapy (%)	67.8	53.6	
(95% CI)	(60.4-74.6)	(46.0-61.0)	
***p-value	0.006		
Best overall response to study treatment [chemotherapy +/- radiotherapy] (%)	72.3	58.6	
(95% CI)	(65.1-78.8)	(51.0-65.8)	
***p-value	0.006		
Median duration of response to chemotherapy +/-	n = 128	n = 106	
radiotherapy (months)	15.7	11.7	
(95% CI)	(13.4-24.6)	(10.2-17.4)	
Hazard ratio	0.72		
(95% Cl)	(0.52-0.99)		
**p-value	0.0457		

Hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU Cox model (adjustment for Primary tumor site, T and N clinical stages and PSWHO)

\*\* Logrank test \*\*\* Chi-square test

### Quality of life parameters

atients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF i = 0.01, using the EORTC QLQ-C30 scale). Clinical benefit parameters The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF. Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.

improved during treatment in both groups indicating adequate pain management.
 Induction chemotherapy followed by chemoradiotherapy (TAX 324)
 The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter, open-lable, phase III trial (TAX 324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to noe of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (17) 75 mg/m<sup>2</sup> by the continuous intravenous infusion of 5-fluorouracil (F) 1,000 mg/m<sup>2</sup>/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (PF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m<sup>2</sup>/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).
 Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks

and no later than 8 weeks atter start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/ or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylatic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow-up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22-month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p. = 0.004. Efficary results are presented in the table below: test p = 0.004. Efficacy results are presented in the table below:

Efficacy of docetaxel in the induction treatment of patient	s with locally advanced SCCHN (Intent-t	o-Treat Analysis)	
Endpoint	Docetaxel + Cis + 5-FU n = 255	Cis + 5-FU n = 246	
Median overall survival (months) (95% CI)	70.6 (49.0-NA)	30.1 (20.9-51.5)	
Hazard ratio (95% CI) *p-value	(0.54-	0.70 (0.54-0.90) 0.0058	
Median PFS (months) (95% CI)	35.5 (19.3-NA)	13.1 (10.6 - 20.2)	
Hazard ratio (95% CI) **p-value	(0.56-	0.71 (0.56-0.90) 0.004	
Best overall response (CR + PR) to chemotherapy (%) (95% Cl)	71.8 (65.8-77.2)	64.2 (57.9-70.2)	
***p-value	0.0	0.070	
Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%) (95% CI)	76.5 (70.8-81.5)	71.5 (65.5-77.1)	
***p-value	0.2	0.209	
A Hazard ratio of less than 1 favors docetaxel + cisplatin + fluoroura	cil		

un-adjusted log-rank test \* un-adjusted log-rank test, not adjusted for multiple comparisons

\*\* Chi-square test, not adjusted for multiple comparisons NA - not applicable

Paediatric population The European Medicines Agency has waived the obligation to submit the results of studies with docetaxel in all subsets of the paediatric The European Medicines Agency has waived the obligation to submit the results of studies with docetaxel in all subsets of the paediatric The format of this leaflet was determined by the Ministry of Health and its content was checked and approved in 15.5.2017. population in breast cancer, non-small cell lung cancer, prostated cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use). 5.2 Pharmacokinetic properties

Absorption The pharmacokinetics of docetaxel has been evaluated in cancer patients after administration of 20-115 mg/m<sup>2</sup> in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the  $\alpha$ ,  $\beta$  and  $\gamma$  phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from Following the administration of a 100 mg/m<sup>2</sup> dose given as a one-hour infusion a mean peak plasma level of 3.7 µg/ml was obtained with a corresponding AUC of 4.6 h.ug/ml. Mean values for total body clearance and steady-state volume of distri and 1131, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.

Elimination A study of <sup>14</sup>C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group. Within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

## Special populations

Age and gender A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel was not altered by the age or sex of the patient. <u>Hepatic impairment</u> In a small number of patients (n = 23) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST  $\geq$ 1.5 times the ULN associated with alkaline phosphatase  $\geq$  2.5 times the ULN), total clearance was lowered by 27% on average (see section 4.2: "Posology and method of administration"). Fluid retention Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with

severe fluid retention Combination therapy

Doxorubicin When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide was not influenced by their co-administration.

Capecitabine Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel (C<sub>max</sub> and AUC) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5-DFUR.

<u>Cisplatin</u> Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone. Cisplatin and 5-Fluorouracil The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal produ <u>Prednisone and Dexamethasone</u> The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been

Prednisone No effect of prednisone on the pharmacokinetics of docetaxel was observed. 5.3 Preclinical safety data The carcinogenic potential of docetaxel has not been studied

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility. 6. PHARMACEUTICAL PARTICULARS

for disposal and other handling".

6.3 Shelf life As packaged for sale: Unopened: 24 month

After first opening: 28 days. Do not store above 25°C.

Shelf life after dilution: The chemical and physical stability in Glucose 5% or Sodium chloride 0.9% (0.3 or 0.75 mg/ml, respectively, has been demonstrated for 4 h at 2-8°C (protected from light) and R.T. (20-25°C) with or w/o light protection. From a microbiological point of view, the product should be used immediately. In-use storage times and conditions prior to use are the responsibility of the user, unless dilution has taken place in controlled and validated aseptic conditions.

6.4 Special precautions for storage

<u>As packaged for sale</u>: Do not store above 25°C.

Do not freeze

Keep the vial in the outer carton in order to protect from light. For storage conditions of the diluted medicinal product, see section 6.3: "Shelf Life". 6.5 Nature and contents of container Clear type I glass vial with rubber stopper and aluminum crimp cap, with or without a protective plastic overwrap 1 vial containing 20 mg/2 ml 1 vial containing 80 mg/8 ml 1 vial containing 10 mg/2 ml

1 vial containing 160 mg/16 ml Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling Docetaxel solution for infusion is an oversaturated solution and therefore can crystallise/precipitate over time. The infusion solution prepared using docetaxel concentrate for solution for infusion, should be visually inspected carefully for precipitation prior to use. If the infusion solution is not clear or appears to have precipitation it has to be discarded. From a microbiological point of view, the product should be used immediately. Inspection prior to use As with all parenteral drug products, Docetaxel Ebewe concentrate for solution for infusion should be inspected visually for particulate matter and discolouration, prior to use, whenever solution and container permit, solutions containing a precipitate should be discarded.

Preparation of the infusion solution Should be diluted before use.

Infusion solutions have to be prepared with either 0.9% sodium chloride or with 5% glucose and administered as an intravenous Infusion. If the vials are stored under refrigeration, allow the required number of vials of Docetaxel Ebewe concentrate for solution for infusion to stand below 25°C until the solution has reached room temperature. The required volume can be directly withdrawn from the vial. More than one vial may be necessary to obtain the required dose for the patient. Based on the required dose for the patient expressed in mg, aseptically withdraw the corresponding volume containing 10 mg/ml docetaxel from the appropriate number of vials using graduated syringes fitted with a needle. For example, a dose of 140 mg docetaxel would require 14 ml docetaxel concentrate for solution for infusion. The required volume injection (one shot) juits a 250 ml

The required volume of docetaxel concentrate for solution for infusion must be injected via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or 0.9% sodium chloride solution for infusion. If a dose greater than 200 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded. docetaxel is not exceeded. Mix the infusion bag or bottle manually by gentle inversion and rotation in a controlled manner and avoid foaming. Shaking or vigorous agitation has to be avoided during preparation and transportation to the patient for administration. The prepared docetaxel infusion solution is stable for up to 4 hours and should be used within these 4 hours, including storage and the one-hour infusion time to the patient. The infusion should be aseptically administered at room temperature (below 25°C) and normal lighting conditions.

The influence of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given Contact of the Docetaxel Ebewe concentrate with plasticized PVC equipment or devices used to prepare solutions for infusion is not recommended. In order to minimize patient exposure to the plasticizer DEHP (di-2-ethylhexyl phthalate), which may be leached from PVC infusion bags or sets, the final Docetaxel Ebewe dilution for infusion should be stored in bottles (glass, polypropylene) or plastic bags (polypropylene, polyolefin) and administered through polyethylene-lined administration sets. To minimize the potential for precipitation of the infusion solution, the use of bags is recommended. Glass bottles are not recommended for use.

pH and osmolality of reconstituted solution 3 ma/mL in Glucose 5%; pH  $\approx$  3.6; 517 mOsm/ka

0.74 mg/mL in NaCl 0.9%: pH ≈ 3.3 – 3.6; 849 mOsm/kg Guidelines for the Safe Handling of Antineoplastic Agents:

Cytotoxic preparations should not be handled by pregnant staff. Trained personnel should dilute the drug. This should be performed in a designated area. The work surface should be covered with disposable plastic-backed absorbent paper. Adequate protective gloves, masks, and clothing should be worn. Precautions should be taken to avoid the drug accidentally coming into contact with skin or mucous membranes; the affected area should be cleaned thoroughly with soap and water. If accidental contamination occurs with the eyes, they should be washed with water thoroughly and immediately. Use Luer-lock fittings on all syringes and sets. Large bore needles are recommended to minimise pressure and the possible formation of aerosols. The latter may also be reduced by the use of a venting needle. Any unused contents should be cleared thore should be placed in a high-risk waste bag. Sharp objects (needles, syringes, vials, etc.) should be placed in a suitable rigid container. Personnel concerned with the collection and disposal of this waste should be aware of the hazard involved. Any unused product or waste material should be disposed of in accordance with standard procedures applicable to cytotoxic agents. Any excess drug solution should be disposed of in accordance with standard procedures applicable to Totoxic agents. Any excess drug solution should be disposed of in accordance with standard procedures applicable to cytotoxic agents. Any excess drug solution should be flushed directly into a drain with copious amounts of water.

The medical product is for single use only. Administration Docetaxel Ebewe is for intravenous use only.

7. MANUFACTURER EBEWE Pharma Ges.m.b.H. Nfg.KG 4866 Unterach AUSTRIA

8. IMPORTER & LICENSE HOLDER

Pharmalogic Ltd., P.O.B. 3838, Petah-Tikva 4951623

Reg Number: 146-55-33269-00

Docetaxel has been shown to be mutagenic in the *in vitro* micronucleus and chromosome aberration test in CHO-K1 cells and in the *in vivo* micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

oduct must not be mixed with other medicinal products except for those mentioned in section 6.6: "Special precautions

I should dilute the drug. This should

DOCE CONC PHY SH 240717

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