

Hospira Docetaxel Injection (10 mg/ml)

1. NAME OF THE MEDICINE

Docetaxel (anhydrous)

Chemical name: (2R,3S)-N-carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 5β , 20-

epoxy-1,2 α ,4,7 β ,10 β ,13 α -hexahydroxytax-11-en-9-one 4-acetate 2-benzoate

Molecular formula: C₄₃H₅₃NO₁₄

Molecular weight: 807.88 CAS number: 114977-28-5

2. DESCRIPTION

Docetaxel is a white to almost white powder. It is highly lipophilic and practically insoluble in water.

Docetaxel Injection is a sterile clear, colourless to pale yellow solution free from visible particulates. It must be diluted prior to intravenous administration.

Docetaxel Injection contains docetaxel 10 mg/ml and the excipients ethanol (see PRECAUTIONS - Alcohol Content), citric acid - anhydrous, Polysorbate 80 and Macrogol 300.

3. PHARMACOLOGY

LPD Title: Docetaxel

LPD rev no.: 7.0

LPD Date: April 04, 2024

Country: Thailand

Reference Australian PI ver: pfpddoci10723; date: July 20, 2023

Class

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of protofilaments.

Site and mode of action

Docetaxel has been shown *in vitro* to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular functions.

Pharmacodynamics

Preclinical data

Docetaxel was found to be cytotoxic *in vitro* against various murine and human tumour cell lines and against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular concentrations 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 antitumour activity against advanced murine and human grafted tumours. Against transplantable murine tumours *in vivo*, docetaxel was synergistic with vincristine (administered at the same time), etoposide, cyclophosphamide or fluorouracil, but not with vincristine (administered 24 hours apart), cisplatin or doxorubicin.

Pharmacokinetics

Absorption

Docetaxel Injection is administered by intravenous infusion. By definition, absorption is complete at the end of the infusion.

Distribution

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 5 to 115 mg/m² 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 minutes, 36 minutes and 11.1 hours, respectively. The initial rapid decline represents distribution to the peripheral compartments and the late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment. Following the administration of a 100 mg/m² dose given as a one-hour infusion, a mean peak plasma level of 3.7 microgram/ml was obtained with a corresponding area under the curve (AUC) of 4.6 hour.microgram/ml. Mean

values for total body clearance and steady-state volume of distribution were 21 L/hour/m² and

113 L, respectively.

Metabolism and excretion

A study of ¹⁴C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following oxidative metabolism of the tert-butyl ester group; within seven days, the urinary and faecal excretion account for about 6 and 75% of the administered radioactivity, respectively. About 80% of the radioactivity (60% of the administered dose) recovered in faeces is excreted during the first 48 hours as one major and three minor inactive

metabolites and very low amounts of unchanged drug.

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 were not altered by the age or sex of the patient. In a small number of patients (n = 23) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST greater than or equal to 1.5 times the upper limit of normal, associated with alkaline phosphatase greater than or equal to 2.5 times the upper limit of

normal), total clearance was lowered by, on average, 27% (see DOSAGE AND

ADMINISTRATION). Docetaxel clearance was not modified in patients with mild to moderate fluid

retention. No data are available in patients with severe fluid retention.

Docetaxel is more than 95% bound to plasma proteins. Dexamethasone did not affect protein

binding of docetaxel.

The effect of prednisone on the pharmacokinetics of docetaxel administered with standard

dexamethasone premedication has been studied in 42 patients. No effect of prednisone on the

pharmacokinetics of docetaxel was observed.

Phase I studies evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and

the effect of docetaxel on the pharmacokinetics of capecitabine showed no effect of capecitabine

on the pharmacokinetics of docetaxel (C_{max} and AUC) and no effect of docetaxel on the

pharmacokinetics of the main capecitabine metabolite 5'DFUR.

The combined administration of docetaxel, cisplatin and fluorouracil in 12 patients with solid

tumours had no influence on the pharmacokinetics of each individual drug.

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4. CLINICAL TRIALS

Breast Cancer

Metastatic Breast Cancer

Monotherapy

Eight phase II studies were conducted in patients with locally advanced or metastatic breast carcinoma. A total of 172 patients had received no prior chemotherapy (previously untreated) and 111 patients had received prior chemotherapy (previously treated) which included 83 patients who had progressive disease during anthracycline therapy (anthracycline resistant). In these clinical trials, docetaxel was administered at a dose of 75 mg/m² in 55 previously untreated patients and at a dose of 100 mg/m² in 117 previously untreated and 111 previously treated patients. In these trials, docetaxel was administered as a one-hour infusion every three weeks.

Patients treated at 75 mg/m²

In the intent to treat analysis on previously untreated patients, the overall response rate was 47% with 9% complete responses. The median duration of response was 34 weeks and the time to progression was 22 weeks.

There was a high response rate in patients with visceral metastases (48.6% in 35 untreated patients).

In patients with two or less organs involved, the response rate was 58.6% and in patients with three or more organs involved, it was 29.4%.

A significant response rate was seen in patients with liver metastases (45% in untreated patients). The same activity is maintained in untreated patients with soft tissue disease (55.5%).

Patients treated at 100 mg/m². Phase II trials

In the intent to treat analysis on previously untreated patients, the overall response rate was 56% with 9.4% complete responses. The overall response rate was 48.6% with 3.6% complete responses in the previously treated population including 48.2% overall response rate with 3.6% complete response in the anthracycline resistant patients. The median duration of response was 30 weeks in the previously untreated population, 28 weeks in the previously treated population and 27 weeks in the anthracycline resistant patients. The time to treatment failure was 21 weeks in the previously untreated population, 19 weeks in the previously treated population and

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19 weeks in the anthracycline resistant patients.

The 100 mg/m² dose is associated with higher toxicity.

There was a high response rate in patients with visceral metastases (53.8% in 78 untreated patients, 55.1% in 69 pre-treated patients and 53.1% in the subgroup of 49 anthracycline resistant patients).

In patients with three or more organs involved, the response rate was 54.3% in previously untreated patients, 55.8% in previously treated patients and 50% in the subgroup of anthracycline resistant patients.

A significant response rate was seen in patients with liver metastases (59.5% in untreated patients, 47.2% in previously treated patients and 40% in the subgroup of anthracycline resistant patients). The same activity is maintained in patients with visceral involvement (70.4% in previously untreated patients, 63.6% in previously treated patients and 63.2% in the subgroup of anthracycline resistant patients).

Patients treated at 100 mg/m². Phase III trials

Two randomised phase III comparative studies, involving a total of 326 alkylating agent failure and 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel 100 mg/m² administered every three weeks for seven and ten cycles, respectively.

In alkylating agent failure patients, there were no significant differences in median time to progression or median survival between docetaxel (D; n = 161) and doxorubicin (DX; n = 165; 75 mg/m² every three weeks) on intent to treat and evaluable patient analyses. For the intent to treat analysis, median time to progression was 5.9 months for docetaxel and 4.9 months for doxorubicin (D-DX diff: 1.0 month; 95% confidence interval (CI) for diff: -0.5 to 1.9); median overall survival was 14.7 months for docetaxel and 14.3 months for doxorubicin (D-DX diff: 0.4 months; 95% CI for diff: -1.9 to 2.7). There was a significant difference in response rates between the two groups: 47.8% for docetaxel and 33.3% for doxorubicin (D-DX diff: 14.5%, 95% CI for diff: 3.9 to 25.0) in the intent to treat analysis.

In anthracycline failure patients, docetaxel (n = 203) was compared to the combination of mitomycin C and vinblastine (MV; n = 189; 12 mg/m^2 every six weeks and 6 mg/m^2 every three

weeks, respectively). For the intent to treat analysis, docetaxel increased response rate (30% versus 11.6%; D-MV diff: 18.4%; 95% CI for diff: 10.6 to 26.2), prolonged median time to progression (4.3 months versus 2.5 months; D-MV diff: 1.8 months; 95% CI for diff: 1.0 to 2.4) and prolonged median overall survival (11.5 months versus 8.7 months; D-MV diff: 2.8 months; 95% CI for diff: 0.1 to 4.3). Similar results were observed in the evaluable patient analysis.

An open label, multicentre, randomised phase III study was conducted to compare docetaxel and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A total of 449 patients were randomised to receive either docetaxel 100 mg/m² as a one-hour infusion or paclitaxel 175 mg/m² as a three-hour infusion. Both regimes were administered every three weeks. Efficacy results are described in Table 1.

Table 1: Efficacy of docetaxel versus paclitaxel in the treatment of advanced breast cancer (intent-to-treat analysis, unless specified)

| Endpoint | docetaxel 100 mg/m² | paclitaxel 175 mg/m² | p-value (unadjusted) |
|--------------------------------------|------------------------|-------------------------|-------------------------|
| | n=225 | n=224 | |
| Median Survival (months) | 15.3 | 12.7 | 0.03 |
| 95% CI | (13.3 – 18.5) | (10.5 – 14.8) | |
| Median time to progression (weeks) | 24.6 | 15.6 | <0.01 |
| 95% CI | (20 - 30.1) | (13.4 – 18.1) | |
| *Overall Response Rate (ORR) (%) | 32.0 | 25.0 | 0.10 |
| 95% CI | (25.9 – 38.1) | (19.3 – 30.7) | |
| *ORR in the evaluable population (%) | 37.0 | 26.0 | 0.01 |
| 95% CI | (30.2 - 43.9) | (19.9 – 31.9) | |

^{*} Primary study endpoint

The most frequent adverse events reported for docetaxel were neutropenia, febrile neutropenia, gastrointestinal disorders, neurological disorders, asthenia and fluid retention. More grade 3/4 events were observed from docetaxel (55.4%) compared to paclitaxel (23.0%). No unexpected toxicities were reported for docetaxel.

Combination with capecitabine

Docetaxel in combination with capecitabine was assessed in an open label, multicentre,

randomised trial. A total of 511 patients with locally advanced and/or metastatic breast cancer resistant to, or recurring after an anthracycline containing therapy, or relapsing during or recurring within two years of completing an anthracycline containing adjuvant therapy were enrolled. In this trial, 255 patients were randomised to receive capecitabine (1,250 mg/m² twice daily for two weeks followed by a one week rest period) in combination with docetaxel (75 mg/m² as a one-hour intravenous infusion every three weeks). 256 patients received docetaxel 100 mg/m² alone.

Docetaxel in combination with capecitabine resulted in statistically significant improvements in time to disease progression, overall survival and objective response rate compared to monotherapy with docetaxel as shown in Table 2. Health related quality of life (HRQoL) was assessed using the European Organisation for Research and Treatment of Cancer Quality of Life Questionnaires (EORTC-QLQ), (C30 version 2, including Breast Cancer Module BR23). HRQoL was similar in the two treatment groups.

Table 2: Breast cancer combination treatment efficacy results¹

| Endpoint parameter | Capecitabine/ | Docetaxel | Difference | p-value |
|-----------------------------|-----------------|--------------|-------------------------|---------|
| | docetaxel N=256 | | | |
| | N=255 | | | |
| Time to Disease Progression | 186 days | 128 days | HR ² =0.643 | 0.0001 |
| Median [95% CI] | [165, 198] | [105, 136] | [0.563, 0.770] | |
| Survival median | 418 days | 338 days | HR ² = 0.753 | 0.0119 |
| [95% CI] | [374, 492] | [298, 362] | [0.603, 0940] | |
| Response Rate | 41.6% | 29.7% | 11.9% | 0.0058 |
| [95% CI] | [35.5, 47.9] | [24.2, 35.7] | [3.4, 20.0] | |

¹ All randomized population, Investigator assessment

Combination with trastuzumab (HER2+)

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours overexpress HER2 and who previously had not received chemotherapy for metastatic disease. One hundred and eighty six patients received docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not

² Hazard Ratio

they had received prior adjuvant anthracyclines. The main test used to determine HER2 positivity in this pivotal trial was immunohistochemistry (IHC). A minority of patients were tested using fluorescence *in situ* hybridisation (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/or FISH positive. Efficacy results are summarised in Table 3.

Table 3: Efficacy outcomes in docetaxel + trastuzumab combination therapy

| Parameter | docetaxel plus trastuzumab ¹ | docetaxel ¹ | | |
|--------------------------------------|---|------------------------|--|--|
| | n=92 | n=94 | | |
| Reponses rate | 61% | 34% | | |
| (95% CI) | (50, 71) | (25, 45) | | |
| p-value** | p = 0.000 | 2 | | |
| Median duration of response (months) | 11.4 | 5.1 | | |
| (95% CI) | (9.2, 15.0) | (4.4, 6.2) | | |
| p-value* | p = 0.0002 | | | |
| Median TTP (months) | 10.6 | 5.7 | | |
| (95% CI) | (7.6, 12.9) | (5.0, 6.5) | | |
| p-value* | p = 0.0001 | | | |
| Median survival (months) | 30.5 | 22.1 | | |
| (95% CI) | (26.8, ne) ² | $(17.6, 28.9)^2$ | | |
| p-value* | p = 0.0062 | | | |

¹ Full analysis (intent-to-treat) ² Estimated median survival * p: log-rank test.

Adjuvant Treatment of Breast Cancer

Combination with doxorubicin and cyclophosphamide

Data from a multicentre open label randomised trial support the use of docetaxel for the adjuvant treatment of patients with node positive breast cancer and KPS (Karnofsky Performance Score) greater than or equal to 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+), 1,491 patients were randomised to receive either docetaxel 75 mg/m² administered one hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens were administered once every three

^{**} p: Chi-square test. TTP: time to progression. 'ne' indicates that it could not be estimated or was not yet reached.

weeks for six cycles. Docetaxel was administered as a one-hour infusion; all other drugs were given as IV (intravenous) bolus on day 1. G-CSF was administered in both arms as secondary prophylaxis to patients who experienced febrile neutropenia, prolonged neutropenia or neutropenic infection. Patients in the docetaxel arm who continued to experience these reactions remained on G-CSF and had their dose reduced to 60 mg/m². Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally b.i.d. (twice daily) for ten days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive oestrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to five 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.

An interim analysis was performed with a median follow-up of 55 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. In the TAC arm, 23% of subjects had experienced disease progression, compared to 30% in the FAC arm. TAC treated patients had a 28% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.72, 95% CI (0.59 to 0.88), p = 0.001). Overall survival was also significantly longer in the TAC arm, with TAC treated patients having a 30% reduction in the risk of death compared to FAC (hazard ratio = 0.70, 95% CI (0.53 to 0.91), p = 0.008). In the TAC arm, 12% of patients had died compared to 17% on the FAC arm.

In the adjuvant breast cancer trial (TAX316), docetaxel in combination with doxorubicin and cyclophosphamide was administered to 744 patients of whom 48 (6%) were 65 years of age or greater. The number of elderly patients who received this regimen was not sufficient to determine whether there were differences in safety and efficacy between elderly and younger patients.

TAC treated patient subsets according to prospectively defined major prognostic factors were analysed (see Table 4).

Table 4: Analysis of TAC treated patient subsets

| Patient subset | Number | Disease free survival | | | Overall survival | | |
|----------------|----------|-----------------------|--------|---|------------------|--------|---|
| | of | Hazard | 95% CI | Р | Hazard | 95% CI | Р |
| | patients | ratio* | | | ratio* | | |
| No of positive | | | | | | | |
| nodes | | | | | | | |

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| Patient subset | Number | Disease free survival | | O | verall surviv | <i>r</i> al | |
|----------------|----------|-----------------------|-----------|--------|---------------|-------------|--------|
| | of | Hazard | 95% CI | Р | Hazard | 95% CI | Р |
| | patients | ratio* | | | ratio* | | |
| Overall | 745 | 0.72 | 0.59-0.88 | 0.001 | 0.70 | 0.53-0.91 | 0.008 |
| 1-3 | 467 | 0.61 | 0.46-0.82 | 0.0009 | 0.45 | 0.29-0.70 | 0.0002 |
| 4+ | 278 | 0.83 | 0.63-1.08 | 0.17 | 0.94 | 0.66-1.33 | 0.72 |
| Home receptor | | | | | | | |
| status | | | | | | | |
| Positive | 567 | 0.72 | 0.56-0.92 | 0.0076 | 0.69 | 0.48-1.00 | 0.0459 |
| Negative | 178 | 0.69 | 0.49-0.97 | 0.0296 | 0.66 | 0.44-0.98 | 0.0389 |
| Her-2 neu | | | | | | | |
| status | | | | | | | |
| Positive | 155 | 0.60 | 0.41-0.88 | 0.0088 | 0.74 | 0.45-1.20 | 0.22 |
| Negative | 475 | 0.76 | 0.59-1.00 | 0.046 | 0.63 | 0.44-0.91 | 0.0135 |

^{*} A hazard ratio of less than 1 indicates that TAC is associated with a longer disease free survival and overall survival compared to FAC

The beneficial effect of TAC was seen in both hormone receptor positive and negative patients.

Combination with doxorubicin, cyclophosphamide and trastuzumab and with carboplatin and trastuzumab (HER2+)

The efficacy and safety of docetaxel in combination with trastuzumab was studied for the adjuvant treatment of patients with operable breast cancer whose tumours overexpress HER2 (with node positive and high risk node negative). A total of 3,222 women were randomised in the study, and 3,174 were treated with either: AC-T, AC-TH or TCH.

AC-T (control arm). Doxorubicin 60 mg/m² IV in combination with cyclophosphamide 600 mg/m² IV every 3 weeks for 4 cycles, followed by docetaxel 100 mg/m² as a 1-hour IV infusion every 3 weeks for 4 cycles.

AC-TH. Doxorubicin 60 mg/m² IV in combination with cyclophosphamide 600 mg/m² IV every 3 weeks for 4 cycles. Three weeks after the last cycle of AC, trastuzumab 4 mg/kg loading dose by IV infusion over 90 minutes on day 1 of cycle 5 was administered, followed by trastuzumab 2 mg/kg by IV infusion over 30 minutes weekly starting day 8 of cycle 5; and docetaxel

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100 mg/m² administered by IV infusion over 1 hour on day 2 of cycle 5, then on day 1 every 3 weeks for a total of 4 cycles of docetaxel. Beginning three weeks after the last cycle of chemotherapy, trastuzumab 6 mg/kg by IV infusion over 30 minutes was given every 3 weeks (for 1 year from the date of first administration);

TCH. Trastuzumab 4 mg/kg loading dose by IV infusion over 90 minutes on day 1 of cycle 1 only, followed by trastuzumab 2 mg/kg by IV infusion over 30 minutes weekly starting on day 8 until three weeks after the last cycle of chemotherapy. Docetaxel 75 mg/m² was administered on day 2 of cycle 1, then on day 1 of all subsequent cycles by IV infusion over 1 hour followed by carboplatin (AUC 6 mg/ml/min) as a 30-60-minute IV infusion, for a total of six cycles of docetaxel and carboplatin. Beginning three weeks after the last cycle of chemotherapy, trastuzumab 6 mg/kg by IV infusion over 30 minutes was given every 3 weeks (for 1 year from the date of first administration).

The patients and disease characteristics at baseline were well balanced between the 3 treatment arms.

Disease free survival (DFS) was the primary endpoint, and overall survival (OS) was the secondary endpoint.

Results of the second interim analysis, performed with a median follow-up of 36 months, demonstrated that docetaxel and trastuzumab given concurrently as part of either an anthracycline based (AC-TH) or non-anthracycline based (TCH) adjuvant treatment regimens, for patients with HER2 positive operable breast cancer, statistically prolonged both DFS and OS compared with the control arm (AC-T). The AC-TH and TCH regimens significantly improved disease free survival compared with AC-T at the significance level of 0.003 required for the interim analysis. Overall survival was significantly better with AC-TH but not TCH compared to AC-T in the interim analysis. There was no statistically significant difference between the two trastuzumab containing arms AC-TH and TCH for DFS and OS. Efficacy results are summarised in Table 5.

Table 5: Doxorubicin and cyclophosphamide followed by docetaxel in combination with trastuzumab, or docetaxel in combination with trastuzumab and carboplatin (intent to treat population).

| | Diseas | Disease Free Survival (DFS) | | | erall Survival (| OS) |
|-------------------------------|--------|-----------------------------|-------------|--------|------------------|-------------|
| | AC-T | AC-TH | тсн | AC-T | AC-TH | тсн |
| | n=1073 | n=1074 | n=1075 | n=1073 | n=1074 | n=1075 |
| Stratified analysis | | | | | | |
| Hazard ratio ^a | NA | 0.61 | 0.67 | NA | 0.58 | 0.66 |
| 95% CI | NA | (0.49-0.77) | (0.54-0.83) | NA | (0.40-0.83) | (0.47-0.93) |
| p-value ^b | NA | <0.0001 | 0.0003 | NA | 0.0024 | 0.0182 |
| Percent event free | 80.9% | 86.7% | 85.5% | 93.0% | 95.5% | 95.2% |
| at 3 years (95% CI) | (78.3- | (84.4- | (83.2- | (91.2- | (94.0- | (93.7- |
| | 83.5%) | 89.0%) | 87.9%) | 94.8%) | 96.9%) | 96.6%) |
| | | | | | | |
| Absolute benefit ^c | | 5.8% | 4.6% | | 2.5% | 2.2% |
| | | (2.3-9.2%) | (1.2-8.1%) | | (0.2-4.8%) | (-0.1-4.5%) |

AC-T = doxorubicin plus cyclophosphamide, followed by docetaxel; AC-TH = doxorubicin plus cyclophosphamide, followed by docetaxel in combination with trastuzumab; TCH = docetaxel in combination with trastuzumab and carboplatin; CI = confidence interval; NA=not applicable

There were 29% of patients with high risk node negative disease included in the study. The benefit observed for the overall population was irrespective of the nodal status. See Table 6.

a = Relative to AC-T. Estimated using Cox regression stratified by number of nodes and hormonal receptor status;

^b = Stratified log-rank p-value;

^c = Absolute benefit in percent event free compared to AC-T at 3 years.

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Table 6: Disease free survival (intent to treat population) according to nodal status

| | High risk r | High risk node negative patients | | | positive pati | ents |
|-------------------------------|--------------|----------------------------------|--------------|--------------|---------------|--------------|
| | AC-T | AC-TH | тсн | AC-T | AC-TH | тсн |
| | n=309 | n=306 | n=307 | n=764 | n=768 | n=768 |
| Stratified analysis | | | | | | |
| | | | | | | |
| Hazard ratio ^a | NA | 0.36 | 0.52 | NA | 0.67 | 0.70 |
| | | | | | | |
| 95% CI | NA | (0.19-0.68) | (0.30-0.92) | NA | (0.53-0.85) | (0.56-0.89) |
| | | | | | | |
| p-value ^b | NA | 0.0010 | 0.0209 | NA | 0.0008 | 0.0029 |
| | | | | | | |
| Percent event free at 3 | 88.0% | 94.8% | 93.0% | 78.1% | 83.6% | 82.6% |
| years (95% CI) | (84.1-91.9%) | (91.9-97.8%) | (89.9-96.2%) | (74.9-81.3%) | (80.7-86.5%) | (79.6-85.6%) |
| | | | | | | |
| Absolute benefit ^c | | 6.8% | 5.1% | | 5.5% | 4.6% |
| | | (1.9-11.7%) | (0.0-10.1%) | | (1.2-9.8%) | (0.2-8.9%) |

AC-T = doxorubicin plus cyclophosphamide, followed by docetaxel

AC-TH = doxorubicin plus cyclophosphamide, followed by docetaxel in combination with trastuzumab TCH = docetaxel in combination with trastuzumab and carboplatin

CI = confidence interval

NA = not applicable

Combination with Cyclophosphamide

Docetaxel in combination with cyclophosphamide (TC) was investigated in a phase III randomised prospective clinical trial, in comparison with the standard treatment regimen of doxorubicin and cyclophosphamide (AC). Results of the trial were only available in the form of two published papers. A total of 1016 patients with operable stage I to III invasive breast cancer were randomly assigned to receive either four cycles of AC (60 and 600 mg/m² respectively every three weeks; n=510), or four cycles of TC (75 mg and 600 mg/m² every three weeks; n=506) as adjuvant

^a = Relative to AC-T. Estimated using Cox regression stratified by number of nodes and hormonal receptor status;

b = Stratified log-rank p-value

^c = Absolute benefit in percent event free compared with AC-T

chemotherapy after complete surgical excision of the primary tumour. Patients had to have a primary tumour of ≥1 cm and <7 cm, and no evidence of metastatic disease. Neoadjuvant chemotherapy was not permitted.

Both treatment groups were well balanced for major prognostic factors; including age, race, stage, histology, hormone receptor status and nodal status. On completion of four cycles of chemotherapy (with or without radiotherapy) tamoxifen was administered to all patients with hormone receptor positive breast cancer for 5 years.

After median follow up of 5 years, the results demonstrated an improvement in disease free survival (DFS) for TC compared with AC. In the TC arm 435/506 (86%) remained alive and disease-free, compared to 408/510 (80%) in the AC arm (HR = 0.67; 95% CI 0.50 to 0.94; p=0.015).

Non-Small Cell Lung Cancer

Patients treated at 75 mg/m²

One phase II study was conducted in 20 previously untreated patients with locally advanced or metastatic non-small cell lung cancer. In this clinical trial, docetaxel was administered at a dose of 75 mg/m² given as a one-hour infusion every three weeks. The response rate was 10%.

Patients treated at 100 mg/m²

Six phase II studies were conducted in patients with locally advanced or metastatic non-small cell lung cancer. A total of 160 patients had received no prior chemotherapy (previously untreated) and 88 patients had received prior platinum based chemotherapy (previously treated) which included 37 patients who had progressive disease with platinum therapy (platinum refractory). In these clinical trials, docetaxel was administered at a dose of 100 mg/m² given as a one-hour infusion every three weeks.

The 100 mg/m² dose is associated with higher toxicity.

In the intent to treat analysis on previously untreated patients, the overall response rate was 26.9% and in the previously treated population it was 17%. The survival time for all previously untreated patients or previously treated patients was nine and eight months, respectively.

Ovarian Cancer

Patients treated at 100 mg/m²

Docetaxel was studied in five uncontrolled trials in patients with advanced epithelial ovarian cancer who had failed previous treatment with cisplatin or carboplatin. These patients (n = 377) received docetaxel 100 mg/m² in a one-hour intravenous infusion every three weeks.

In the intent to treat analysis, median time to progression ranged from 9.2 to 13.1 weeks, median survival ranged from 7 to 10.3 months, overall response rate ranged from 8.3 to 24.0% and complete response rate ranged from 2.8 to 8.3%.

Prostate Cancer

The safety and efficacy of docetaxel in patients with androgen independent (hormone refractory) metastatic prostate cancer were evaluated in a randomised multicentre phase III trial. A total of 1,006 patients with KPS greater than or equal to 60 were randomised to the following treatment groups:

- Docetaxel 75 mg/m² every three weeks for ten cycles;
- Docetaxel 30 mg/m² administered weekly for the first five weeks in a six week cycle for five cycles;
- Mitozantrone 12 mg/m² every three weeks for ten cycles.

All three regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.

Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitozantrone (p = 0.0094). The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitozantrone control arm. Efficacy endpoints for the docetaxel three weekly arm versus the control arm are summarised in Table 7.

Table 7: Efficacy of docetaxel in the treatment of patients with androgen independent (hormone refractory) prostate cancer (intent to treat analysis)

| Endpoint | Docetaxel | Mitozantrone |
|--------------------------|---------------|---------------|
| | Every 3 weeks | Every 3 weeks |
| Number of patients | 335 | 337 |
| Median survival (months) | 18.9 | 16.5 |

| Endpoint | Docetaxel | Mitozantrone |
|--------------------------|---------------|---------------|
| | Every 3 weeks | Every 3 weeks |
| 95% CI | (17.0-21.2) | (14.4-18.6) |
| Hazard ratio | 0.761 | - |
| 95% CI | (0.619-0.936) | - |
| p-value ^{* *} | 0.0094 | - |
| Number of patients | 291 | 300 |
| PSA** response rate (%) | 45.4 | 31.7 |
| 95% CI | (39.5-51.3) | (26.4-37.3) |
| p-value [*] | 0.0005 | - |
| Number of patients | 153 | 157 |
| Pain response rate (%) | 34.6 | 21.7 |
| 95% CI | (27.1-42.7) | (15.5-28.9) |
| p-value [*] | 0.0107 | - |
| Number of patients | 141 | 137 |
| Tumour response rate (%) | 12.1 | 6.6 |
| 95% CI | (7.2-18.6) | (3.0-12.1) |
| p-value* | 0.1112 | - |

^{*} Stratified log rank test. * Threshold for statistical significance = 0.0175. ** PSA: Prostate Specific Antigen.

Head and Neck Cancer

Induction therapy followed by radiotherapy (TAX323)

The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) were evaluated in a phase III, multicentre, open label, randomised trial (TAX323). In this study, 358 previously untreated patients with locally advanced inoperable stage III/IV SCCHN and World Health Organization (WHO) performance status 0 or 1, were randomised to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² on day 1, followed by fluorouracil (F) 750 mg/m² per day as a continuous infusion on days 1 to 5. The cycles were repeated every three weeks for four cycles. Patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines (TPF/RT). Patients on the comparator arm received cisplatin 100 mg/m² on day 1, followed by fluorouracil 1,000 mg/m² (PF) as a continuous infusion on days 1 to 5. The

cycles were repeated every three weeks for four cycles. Patients whose disease did not progress received RT according to institutional guidelines (PF/RT). At the end of chemotherapy, with a minimal interval of four weeks and a maximal interval of seven weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines.

Conventional locoregional radiotherapy was given to approximately 77% of the patients at a total dose of 66 to 70 Gy (1.8 to 2.0 Gy once a day, five days/week) while accelerated/hyperfractionated regimens of radiation therapy were used in approximately 23% of patients (twice a day, with a minimum interfraction interval of six hours, five days/week).

A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. The primary endpoint in this study, progression free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, p = 0.0042 (median PFS: 11.4 versus 8.3 months, respectively) with an overall median follow-up time of 33.7 months. Median overall survival (OS) was significantly longer in favour of the TPF arm compared to the PF arm (median OS: 18.6 versus 14.5 months, respectively) with a 28% risk reduction of mortality, p = 0.0128. Patients with tumours of the nasopharynx and the nasal/paranasal cavities were excluded from this study. Efficacy results are presented in Table 8.

Table 8: Efficacy of docetaxel in the induction treatment of patients with locally advanced inoperable SCCHN (intent-to-treat analysis)

| Endpoint | Docetaxel + cis + FU Cis + FU | | | |
|---|-------------------------------|-------------|--|--|
| | n=177 | 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% CI) | (0.55 - 0.89) | | | |
| * p-value | 0.004 | 42 | | |
| Median survival (months) | 18.6 | 14.5 | | |
| (95% CI) | (15.7 – 24.0) (11.6 – 18.7) | | | |
| | | | | |
| Hazard Ratio | 0.72 | | | |

| Endpoint | Docetaxel + cis + FU | Cis + FU | | |
|---|----------------------|---------------|--|--|
| | n=177 | n=181 | | |
| (95% CI) | (0.56 - (| 0.93) | | |
| ** p-value | 0.012 | 28 | | |
| Overall response rate to chemotherapy (%) | 67.8 | 53.6 | | |
| (95% CI) | (60.4 – 74.6) | (46.0 - 61.0) | | |
| *** p-value | 0.006 | | | |
| Overall response rate to study treatment | | | | |
| (chemo ± radiotherapy) (%) | 72.3 | 58.6 | | |
| (95% CI) | (65.1 – 78.8) | (51.0 – 65.8) | | |
| *** p-value | 0.00 | 6 | | |
| Median duration of response to chemo ± | 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% CI) | (0.52 - 0.99) | | | |
| ** p-value | 0.04 | 57 | | |

A Hazard Ratio of less than 1 favours docetaxel + cisplatin + FU.

Clinical benefit parameters

Patients treated with TPF experienced significantly less deterioration of their global health score compared to those treated with PF (p = 0.01, using EORTC QLQ-C30).

The performance status scale for head and neck, designed to measure disturbances of speech and eating, was significantly in favour of TPF treatment.

The median time to first deterioration of WHO performance status was significantly (p = 0.0158) longer in the TPF arm (13.7 months; 95% CI: 10.7 to 21.0 months) compared to PF (8.3 months; 95% CI: 7.3 to 9.6 months). However, no significant difference in WHO performance status was apparent between the two arms (odds ratio = 0.96, 95% CI: 0.66 to 1.41). There was no difference in pain intensity in patients treated with TPF or PF.

^{*}Cox model (adjustment for primary tumour site, T and N clinical stages and PSWHO).

^{**} Log-rank test.

^{***} Chi-square test.

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Induction chemotherapy followed by chemoradiotherapy (TAX324)

The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, or candidates for organ preservation) SCCHN was evaluated in a randomised, multicentre open label, phase III trial (TAX324). Patients with tumours of the nasopharynx and nasal/paranasal cavities were excluded from this study. In this study, 501 patients with locally advanced SCCHN, and a WHO performance status of 0 or 1 were randomised to one of two arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by IV infusion on day 1, followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour IV infusion, followed by the continuous IV infusion of fluorouracil (F) 1,000 mg/m²/day from day 1 to day 4. The cycles were repeated every three weeks for three cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour IV infusion, followed by the continuous IV infusion of fluorouracil (F) 1,000 mg/m²/day from day 1 to day 5. The cycles were repeated every three weeks for three 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 seven weeks of CRT following induction chemotherapy with a minimum interval of three weeks and no later than eight weeks after 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 IV infusion for a maximum of seven doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, five days per week for seven weeks, for a total dose of 70 to 72 Gy). Surgery on the primary site of disease and/or neck could be considered at any time following completion of CRT.

The primary efficacy endpoint in this study, 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% CI = 0.54 to 0.90). 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 to 0.90; log rank test p = 0.004. Efficacy results are presented in Table 9.

Table 9: Efficacy of docetaxel in the induction treatment followed by chemoradiotherapy for patients with locally advanced SCCHN (intent to treat analysis)

| Endpoint | Docetaxel + Cis + FU | Cis + FU | |
|--|----------------------|---------------|--|
| | n=255 | n=246 | |
| Median overall survival (months) | 70.6 | 30.1 | |
| (95% CI) | (49.0 - N/A) | (20.9 – 51.5) | |
| Hazard Ratio | 0.70 |) | |
| (95% CI) | (0.54 – | 0.90) | |
| * p-value | 0.005 | 58 | |
| Median progression free survival (months) | 35.5 | 13.1 | |
| (95% CI) | (19.3 – N/A) | (10.6 – 20.2) | |
| Hazard Ratio | 0.71 | | |
| (95% CI) | (0.56 – | 0.90) | |
| ** p-value | 0.00 | 4 | |
| Best overall response (CR + PR) to induction | 71.8 | 64.2 | |
| chemotherapy (%) | | | |
| (95% CI) | (65.8 – 77.2) | (57.9 – 70.2) | |
| *** p-value | 0.07 | 0 | |
| Best overall response (CR + PR) to study | | | |
| treatment [induction chemotherapy ± | 76.5 | 71.5 | |
| chemoradiotherapy] (%) | | | |
| (95% CI) | (70.8 – 81.5) | (65.5 – 77.1) | |
| *** p-value | 0.20 | 9 | |

A Hazard Ratio of less than 1 favours docetaxel + cisplatin + FU.

N/A – not applicable.

5. INDICATIONS

Breast Cancer

- Docetaxel in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with operable node-positive breast cancer.
- Docetaxel in combination with doxorubicin is indicated for the treatment of patients with

^{*} Unadjusted log-rank test.

^{**} Unadjusted log-rank test, not adjusted for multiple comparisons.

^{***} Chi-square test, not adjusted for multiple comparisons.

locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

- Docetaxel monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included and anthracycline or an alkylating agent.
- Docetaxel in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.

Non-Small Cell Lung Cancer

- Docetaxel is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after of prior platinum-based chemotherapy.
- Docetaxel in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate Cancer

Docetaxel in combination with prednisone or prednisolone is indicated for the treatment of patients with androgen-independent (hormone refractory) metastatic prostate cancer.

Gastric Adenocarcinoma

Docetaxel in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction who have not received prior chemotherapy for metastatic disease.

Head and Neck Cancer

Docetaxel in combination with cisplatin and 5-fluorouracil (TPF) is indicated for the treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

Ovarian Cancer

Docetaxel in combination with carboplatin is used an as alternative regimen for the first-line treatment of ovarian epithelial cancer.

6. CONTRAINDICATIONS

History of severe hypersensitivity reactions to docetaxel or any of the excipients.

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Baseline neutrophil count of $< 1.5 \times 10^9$ cells/L.

Severe liver impairment.

Pregnant or breastfeeding women.

Contraindications that apply for other drugs also apply when these drugs are combined with Docetaxel Injection.

7. PRECAUTIONS

The use of Docetaxel Injection should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a qualified oncologist.

Premedication

Patients should be pre-treated prior to each Docetaxel Injection administration. A premedication consisting of an oral corticosteroid, e.g., dexamethasone 16 mg/day (e.g., 8 mg twice daily) for three days starting one day prior to Docetaxel Injection administration, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions (see Fluid Retention and Hypersensitivity Reactions, below; also see DOSAGE AND ADMINISTRATION).

For prostate cancer, the premedication is oral dexamethasone 8 mg 12 hours, three hours and one hour before the docetaxel infusion.

Haematology

Bone marrow suppression and other haematological effects of docetaxel include neutropenia, the most frequent adverse effect of docetaxel (see ADVERSE EFFECTS, Clinical Studies). Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of complete blood counts should be conducted in all patients receiving docetaxel. Patients should be retreated with docetaxel only when neutrophils recover to a level greater than or equal to 1.5 cells x 10⁹/L.

Docetaxel Injection should not be administered to patients with baseline neutrophil counts of < 1.5 x 10^9 cells/L. Frequent monitoring of complete blood counts should be conducted on all patients

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during treatment with docetaxel. Patients should not be retreated with Docetaxel Injection until neutrophils recover to a level greater than or equal to 1.5 x 10⁹ cells/L (see DOSAGE AND ADMINISTRATION).

In the case of severe neutropenia (< 0.5 x 10⁹ cells/L for seven days or more) during a course of Docetaxel Injection therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures is recommended. Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

Patients treated with TPF and TAC should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients who continue to experience this reaction should remain on G-CSF and have their Docetaxel Injection dose reduced (see DOSAGE AND ADMINISTRATION). Patients receiving TPF and TAC should be closely monitored (see DOSAGE AND ADMINISTRATION and ADVERSE EFFECTS).

In the treatment of adjuvant breast cancer, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up (see ADVERSE EFFECTS).

Gastrointestinal Reactions

Caution is recommended for patients with neutropenia, particularly at risk for developing gastrointestinal complications (see DOSAGE AND ADMINISTRATION, PRECAUTIONS - Haematology and ADVERSE EFFECTS). Although majority of cases occurred during the first or second cycle of docetaxel containing regimen, enterocolitis could develop at any time, and could lead to death as early as on the first day of onset. Patients should be closely monitored for early manifestations of serious gastrointestinal toxicity.

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 of, during or immediately following the cessation of the infusion of Docetaxel Injection, thus facilities for the treatment of hypotension and bronchospasm should be available. Frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and drug fever or chills. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as

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severe hypotension, bronchospasm or generalised rash/erythema, require immediate discontinuation of Docetaxel Injection and aggressive therapy. Severe symptoms are usually resolved after discontinuing the infusion and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be rechallenged with Docetaxel Injection. Patients who have previously experienced a hypersensitivity reaction to paclitaxel may be at risk to develop hypersensitivity reaction to docetaxel, including more severe hypersensitivity reaction. These patients should be closely monitored during initiation of docetaxel therapy.

Cutaneous Reactions

Reversible cutaneous reactions were generally mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on feet, hands (including severe hand and foot syndrome), but also arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms, e.g., eruptions followed by desquamation which rarely led to interruption or discontinuation of docetaxel treatment were reported. Nail disorders were characterised by hypopigmentation or hyperpigmentation, pain and onycholysis.

Very rare cases of cutaneous lupus erythematosus and bullous eruptions, e.g., erythema multiforme, scleroderma-like changes and severe cutaneous adverse reactions (SCARs) such as Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN) and acute generalized exanthematous pustulosis (AGEP) have been reported with docetaxel treatment. Patients should be informed about the signs and symptoms of serious skin manifestations and closely monitored. If signs and symptoms suggestive of these reactions appear, discontinuation of docetaxel should be considered. In some cases, multiple factors such as concomitant infections, concomitant medications and underlying disease may have contributed to the development of these effects.

Ear and Labyrinth Disorders

Rare cases of ototoxicity, hearing disorders and/or hearing loss have been reported, including cases associated with other ototoxic drugs.

Eye Disorders

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case cystoid macular oedema is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated.

Fluid Retention

A premedication consisting of an oral corticosteroid, e.g., dexamethasone 16 mg/day (e.g., 8 mg twice daily) for three days starting one day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions (see DOSAGE AND ADMINISTRATION).

The peripheral oedema usually starts at the lower extremities and may become generalized with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity; however, it has been reported in some patients during early courses of therapy. The median cumulative dose to onset for treatment with 75 mg/m² is 524 mg/m² and treatment at 100 mg/m² is 509 mg/m² (without premedication) and 797 mg/m² (with premedication). Fluid retention is slowly reversible after docetaxel treatment is stopped. In patients treated by docetaxel as single agent at 100 mg/m², the median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks).

Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored more closely.

Patients developing peripheral oedema may be treated with standard measures.

Respiratory Disorders

Acute respiratory distress 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. If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.

Nervous System

The development of severe neurosensory signs and/or symptoms have been observed in patients and require a reduction of dose (see DOSAGE AND ADMINISTRATION).

Cardiac Toxicity

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin and epirubicin) containing chemotherapy. This may be moderate to severe and has been associated with death.

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction.

Tumour Lysis Syndrome

Tumour lysis syndrome has been reported with docetaxel after the first or the second cycle (see ADVERSE EFFECTS). Patients at risk of tumour lysis syndrome (e.g., with renal impairment, hyperuricemia, bulky tumour, rapid progression) should be closely monitored. Correction of dehydration and treatment of high uric acid levels are recommended prior to initiation of treatment.

CYP3A4 Inhibitors

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 INTERACTIONS WITH OTHER MEDICINES).

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 DOSAGE AND ADMINISTRATION).

Gastrointestinal reactions

Early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

Congestive heart failure (CHF)

Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period.

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In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see ADVERSE EFFECTS).

Leukaemia

In the adjuvant treatment of breast cancer, the risk of delayed myelodysplasia or myeloid

leukaemia requires haematological follow up.

Alcohol Content

Docetaxel Injection contains ethanol.

The alcohol content is harmful for those suffering from alcoholism.

The alcohol content is to be taken into account in pregnant or breast-feeding women, children and

high-risk groups such as patients with liver disease, or epilepsy.

Consideration should be given to possible effects on the central nervous system.

Co-administration with medicines containing e.g. propylene glycol or ethanol may lead to

accumulation of ethanol and induce adverse effects, particularly in young children with low or

immature metabolic capacity.

Impaired Hepatic Function

Liver function tests (LFTs) should be measured at baseline and before each cycle. In patients

treated with docetaxel at 100 mg/m² who have both elevations of serum transaminase values

(ALT and/or AST) > 1.5 times the upper limit of normal and increases in alkaline phosphatase >

2.5 times the upper limit of normal, there is a greater risk of developing severe adverse effects

such as toxic deaths including sepsis, gastrointestinal haemorrhage which can be fatal, febrile

neutropenia, infections, thrombocytopenia, stomatitis and asthenia. The recommended dose of

docetaxel in patients with elevated LFTs is 75 mg/m² (see DOSAGE AND ADMINISTRATION).

For patients with increased serum bilirubin and/or values > 3.5 times the upper limit of normal for

ALT and AST, and > 6 times the upper limit of normal for alkaline phosphatase, no dose

reduction can be recommended and docetaxel should not be used unless strictly indicated.

No data are available in patients with hepatic impairment treated by docetaxel in combination

therapy.

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Use in Renal Impairment

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

Effects on Fertility

Studies in mice have shown that intravenous doses of 144 mg/m² or 30 mg/m²/day for five days are associated with testicular atrophy, mineralisation and degeneration of tubular germinal epithelium, Leydig cell hyperplasia and epididymal hypospermia and follicular atresia in the ovaries. Studies in rats have shown that intravenous doses of 120 mg/m² are associated with testicular atrophy, germ cell atrophy, Leydig cell hyperplasia and mineralisation. The rodent studies suggest that docetaxel may impair fertility. Studies in rats have also shown that intravenous doses of 0.9 mg/m²/day to both sexes are associated with reduced litter averages for corpora lutea, implantations and live foetuses, and increased litter averages for early and total resorptions. Larger doses to both sexes (males 1.8 mg/m²/day, females 1.35 mg/m²/day) are additionally associated with increased time to mating, increased number of dams with total resorption, and reduced male foetal bodyweight.

An adverse effect on male or female fertility cannot be excluded. Therefore, men being treated with docetaxel are advised to seek advice on conservation of sperm prior to treatment, and all patients intending to have a child after treatment are advised to consider individual genetic counselling.

Use in Pregnancy (Category D¹)

Docetaxel may cause foetal harm when administered to a pregnant woman. Therefore, docetaxel must not be used during pregnancy.

Foetal radioactivity has been detected following intravenous administration of radiolabelled docetaxel to pregnant rats. Docetaxel has been shown to be embryotoxic and foetotoxic in rats and rabbits. At intravenous doses of 0.9 mg/m², docetaxel caused fewer corpora lutea, fewer implantations, increased resorptions and embryofoetal deaths in rats. No evidence of teratogenic effects was found when docetaxel was administered intravenously at doses up to 1.8 mg/m² or

¹ Category D: Drugs which have caused, are suspected to have caused or may be expected to cause, an increased incidence of human foetal malformation or irreversible damage. These drugs may also have adverse pharmacological effects.

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1.2 mg/m² in rats or rabbits, respectively, but reduced foetal weight and delayed ossification were

observed.

Offspring from rats receiving docetaxel 1.5 mg/m²/day intravenously from late gestation until

weaning showed signs of delayed development. No studies have been performed in pregnant

women.

If docetaxel is used during pregnancy, or if the patient becomes pregnant while receiving this

drug, she should be apprised of the potential hazard. Women of childbearing potential should be

advised to avoid becoming pregnant during therapy with this drug and to inform the treating

physician immediately should this occur.

Contraception in males and females

Based on reproductive toxicity and genetic toxicity findings, women of childbearing potential

should be advised to use effective contraception during treatment with docetaxel and for at least 6

months after the last dose.

Based on genetic toxicity findings, male patients with female partners of childbearing potential

should be advised to use effective contraception during treatment with docetaxel and for at least 3

months after the last dose.

Use in Lactation

Radioactivity has been detected in milk following intravenous administration of radiolabelled

docetaxel to lactating rats. Offspring from rats receiving docetaxel 1.5 mg/m²/day intravenously

during late gestation and lactation showed signs of delayed development. It is not known whether

docetaxel is excreted in human milk. It is recommended to advise women not to breastfeed during

treatment with docetaxel and for 1 week after the last dose.

Paediatric Use

The safety and effectiveness of docetaxel in children have not been established.

Use in the Elderly

An analysis of safety data in patients equal to or greater than 60 years of age treated with

docetaxel in combination with capecitabine showed an increase in the incidence of treatment

related grade 3 or 4 adverse effects, treatment related serious adverse effects and early

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withdrawals from treatment due to adverse effects compared to patients less than 60 years of age.

Use in castration-resistant prostate cancer

Of the 333 patients treated with docetaxel every three weeks for metastatic castration-resistant prostate cancer in the prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. Differences in efficacy were not identified between elderly patients and younger patients. In patients treated with docetaxel every three weeks, the incidence of anaemia, infection, nail changes, anorexia, weight loss occurred at rates \geq 10% higher in patients who were 65 years of age or greater compared to younger patients.

Use in adjuvant treatment of breast cancer

There are no data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

The proportion of elderly patients was 5.5% and 6.6% in the AC-TH and TCH regimens, respectively, and is too limited to allow for conclusions regarding the adverse events occurring by age (< 65 years vs. greater than or equal to 65 years).

Of the 174 and 251 patients who received the induction treatment with docetaxel in combination with cisplatin and fluorouracil (TPF) for SCCHN in the TAX323 and TAX324 studies, only 18 (10%) and 32 (13%), respectively, of the patients were 65 years of age or older. The number of elderly patients who received this regimen was not sufficient to determine whether geriatric patients responded differently from younger patients. Elderly patients treated with TPF should be closely monitored.

Genotoxicity

Docetaxel was not mutagenic in bacterial or CHO/HPRT gene mutation assays, but induced chromosomal aberrations in the *in vitro* chromosome aberration assay and in the *in vivo* micronucleus test in the mouse.

Carcinogenicity

The carcinogenic potential of docetaxel has not been studied. However, based upon its pharmacodynamic mechanism of action, docetaxel may be a carcinogen.

8. DRIVING A VEHICLE OR OPERATING MACHINERY

No studies of the effect on the ability to drive and use machines have been performed. Patients should refrain from driving or using machines until they know that the docetaxel does not negatively affect these abilities.

The amount of ethanol in docetaxel may impair the ability to drive or use machines. The alcohol content in a maximum recommended dose of 200 mg (based on 100 mg/m², body surface area 2.0 m²) contains approximately 1.8 grams of absolute ethanol.

9. INTERACTIONS WITH OTHER MEDICINES

There have been no formal clinical studies to evaluate the drug interactions of docetaxel.

In vitro studies suggest that isoenzymes of the cytochrome P450 3A subfamily appear to be involved in the hepatic metabolism of docetaxel in humans. In vitro, the biotransformation of docetaxel was inhibited by ciclosporin, terfenadine, ketoconazole, erythromycin and troleandomycin and to a lesser extent by doxorubicin, vinorelbine, vinblastine and nifedipine, increased by dexamethasone, phenobarbitone and clofibrate and unaffected by cimetidine, ranitidine, omeprazole, diazepam, imipramine, paracetamol, caffeine, tolbutamide and quinidine. Strong P450 3A inhibitors may affect docetaxel metabolism in vivo, necessitating caution in coadministration regimens.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration.

In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%. In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. 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. If the concomitant use of a strong CYP3A4 inhibitor cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during concomitant treatment with the strong CYP3A4 inhibitor.

In vitro, plasma protein binding was more than 95%, with the important proteins being albumin,

alpha1-acid glycoprotein and lipoproteins. The *in vitro* plasma protein binding of docetaxel was not affected by dexamethasone, erythromycin, salicylate, sulfamethoxazole, diphenhydramine, propranolol, propafenone, phenytoin and sodium valproate. The binding of digitoxin was not affected by docetaxel.

In vivo investigations show that caution should be exercised when administering ketoconazole to patients as concomitant therapy since there is a potential for a significant interaction.

Docetaxel should be administered with caution in patients concomitantly receiving protease inhibitors (e.g., ritonavir) which are inhibitors and substrates of cytochrome P450 3A.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

10. ADVERSE EFFECTS

Clinical Studies

Monotherapy

Breast, non-small cell lung and ovarian cancer

The adverse effects considered to be possibly or probably related to starting the administration of docetaxel have been obtained from 75 patients who received a dose of 75 mg/m² without the recommended premedication and from 2,106 (2,045 with normal* and 61 with elevated* LFTs at baseline) patients who received an initially planned dose of 100 mg/m² over a one-hour infusion every three weeks independently of the premedication. The patients were enrolled in 40 phase II and III studies conducted in Europe and North America (991 with breast carcinoma, 668 with non-small cell lung carcinoma and 447 with various tumour types).

The safety profile is generally similar between patients receiving docetaxel for the treatment of breast, non-small cell lung or ovarian carcinoma. Table 10 lists the adverse effect data.

Table 10: Summary of adverse events in patients receiving docetaxel at 75 and 100 mg/m² as a single agent

| | Normal LFTs* at Baseline | | Elevated LFTs* at |
|------------------|--------------------------|-----------------------|-----------------------|
| | | | Baseline |
| Docetaxel dosage | 75 mg/m ² | 100 mg/m ² | 100 mg/m ² |

| Number of patients | n=75 | n=2045 | n=61 |
|---|------|--------|-------|
| | % | % | % |
| Haematological Toxicity | | | |
| Neutropenia | | | |
| ANC** < 2.0 cells x 10 ⁹ /L | - | 95.5 | 96.4 |
| ANC** < 0.5 cells x 10 ⁹ /L | 73.0 | 75.4 | 87.5 |
| Febrile neutropenia | | | |
| $(fever/ANC^{**} < 0.5 cells x 10^{9}/L)$ | | | |
| by patient | - | 11.0 | 26.2 |
| by cycle | - | 2.6* | 8.7 |
| $(fever/ANC^{**} < 1 \times 10^{9}/L)$ | | | |
| by patient | 5.0 | - | - |
| by cycle | 1.5 | - | - |
| Thrombocytopenia | | | |
| < 100 cells x 10 ⁹ /L | 6.7 | 8.0 | 24.6 |
| Anaemia | | | |
| < 110 g/L | 86.7 | 90.4 | 91.8 |
| < 80 g/L | 9.0 | 8.8 | 31.1 |
| Non-Haematological Toxicity | | | |
| Body as a whole | | | |
| Fluid retention | | | |
| Regardless of premedication | | | |
| All | 61.0 | 47.0 | 39.3 |
| Severe | 9.3 | 6.9 | 8.2 |
| 3 day premedication | | [n=92] | [n=3] |
| All | - | 64.1 | 66.7 |
| Severe | - | 6.5 | 33.3 |
| Infections | | | |
| Overall | 20.0 | 21.6* | 32.8 |
| Severe | 1.3 | 6.1* | 16.4 |
| Asthenia | | | |
| All | 56.0 | 61.8 | 52.5 |
| Severe | 5.0 | 12.8 | 24.6 |
| Myalgia | 10.7 | 18.9 | 16.4 |

| | Normal LFTs* at Baseline | | Elevated LFTs* at Baseline | |
|--|--------------------------|-----------------------|-----------------------------|--|
| | | | | |
| Docetaxel dosage | 75 mg/m ² | 100 mg/m ² | 100 mg/m ² | |
| Number of patients | n=75 | n=2045 | n=61 | |
| | % | % | % | |
| Arthralgia | 0.0 | 9.2 | 6.6 | |
| Neurological | | | | |
| Neurosensory | | | | |
| All | 37.0 | 49.3 | 34.4 | |
| Severe | 1.3 | 4.3 | 0.0 | |
| Neuromotor | | | | |
| All | 4.0 | 13.8 | 6.6 | |
| Severe | 0.0 | 3.6 | 1.6 | |
| Cutaneous Skin | | | | |
| All | 45.3 | 47.6 | 54.1 | |
| Severe | 1.3 | 4.8 | 9.8 | |
| Nail disorders | 50.0 | 30.6 | 23.0 | |
| Alopecia | 92.0 | 75.8 | 62.3 | |
| Gastrointestinal | | | | |
| Nausea | 44.0 | 38.9 | 37.7 | |
| Diarrhoea | 28.0 | 38.7 | 32.8 | |
| Vomiting | 21.0 | 22.3 | 23.0 | |
| Stomatitis | | | | |
| All | 10.7 | 41.7 | 49.2 | |
| Severe | 2.6 | 5.5 | 13.0 | |
| Mucositis | 40.0 | - | - | |
| | | | | |
| Infusion site reactions consisting of | 5.6 | 4.4 | 3.3 | |
| hyperpigmentation, inflammation, redness | | | | |
| or dryness of skin, phlebitis or | | | | |
| extravasation and swelling of the vein | | | | |

^{*} Normal liver function tests (LFTs): transaminase ≤ 1.5 times upper limit of normal or alkaline phosphatase ≤ 2.5 times upper limit of normal or isolated elevations of transaminase or alkaline phosphatase up to five times upper limit of normal.

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**ANC - absolute neutrophil count.

35 toxic deaths (1.7%) were reported in the 2,045 patients with normal baseline liver function tests treated with docetaxel as monotherapy at the initially planned dose of 100 mg/m². Septic deaths (neutropenic infections, pneumonia or sepsis) accounted for 80% of the toxic deaths. The

incidence of toxic deaths was higher (9.8%) in patients with elevated baseline LFTs.

Hypersensitivity reactions generally occurred within a few minutes of the start of infusion and were

generally mild to moderate. Frequently reported symptoms were flushing, rash with or without

pruritus, chest tightness, back pain, dyspnoea and drug fever or chills (see PRECAUTIONS).

Haematological

Bone marrow suppression and other haematological adverse reactions to docetaxel include the

following:

Neutropenia (in patients who did not receive G-CSF), the most frequent adverse effect, was

reversible and not cumulative. The median day to nadir was seven days and the median duration

of severe neutropenia was seven days.

Febrile neutropenia and severe infections associated with neutrophil counts < 0.5 x 10⁹/L,

infectious episodes (severe including sepsis pneumonia, fatal in 1.7%), occurred.

Thrombocytopenia, bleeding episodes (rarely associated with severe thrombocytopenia) and

anaemia (severe) were also reported.

Disseminated intravascular coagulation (DIC), often in association with sepsis, or multiorgan

failure, has been reported.

Neurological

Mild to moderate neurosensory signs and/or symptoms occurred in 50% of the patients. Severe

neurosensory symptoms (paraesthesia, dysaesthesia, pain including burning) were observed in

4.1% of metastatic breast cancer patients and resulted in treatment discontinuation in 2%.

Neuromotor events (13.8% with 4% severe) were mainly characterised by weakness. When these

symptoms occur, dosage must be adjusted. If symptoms persist, treatment should be

discontinued. Patients who experienced neurotoxicity in clinical trials and for whom follow-up

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information on the complete resolution of the event were available had spontaneous reversal of symptoms with a median of 81 days from onset (range 0 to 741 days).

Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the drug.

Hepatic

In patients treated at 100 mg/m² as a single agent, increase in serum levels of AST, ALT, bilirubin and alkaline phosphatase greater than 2.5 the ULN were observed in less than 5% of patients. Very rare cases of hepatitis have been reported.

Combination Therapy

Breast cancer

Metastatic breast cancer

Combination with Capecitabine

The adverse effect profile is consistent with the known toxicities of monotherapy treatments.

The most frequent treatment related adverse effects (greater than or equal to 5%) reported in the phase III clinical trial for docetaxel in combination with capecitabine in patients with locally advanced and/or metastatic breast cancer (n = 251) are shown in Table 11.

The mean duration of treatment was 129 days in the combination arm and 98 days in the monotherapy arm. A total of 66 patients (26%) in the combination arm and 49 (20%) in the monotherapy arm discontinued from the trial because of adverse effects. The percentages of patients requiring dose reductions due to adverse effects were 65% in the combination arm and 36% in the monotherapy arm.

Table 11: Treatment related adverse effects reported in ≥ 5% of patients treated with docetaxel in combination with capecitabine

| Body system Adverse event | Capecitabine 1250 mg/m² twice daily with docetaxel 75 mg/m²/3 weeks (n=251) | | Docetaxel 100 mg/m² /3 weeks (n=255) | |
|---------------------------|--|--------------|---|--------------|
| | All Grades | Grade ¾ % | All Grades | Grade ¾ % |

| Body system | Capecital | oine 1250 | Docetaxel 100 mg/m ² | | | |
|----------------------|------------|------------------------|---------------------------------|------------------|--|--|
| Adverse event | mg/m² twic | mg/m² twice daily with | | /3 weeks (n=255) | | |
| | docetaxel | 75 mg/m²/3 | | | | |
| | weeks (| (n=251) | | | | |
| | All Grades | Grade ¾ | All Grades | Grade ¾ | | |
| | % | % | % | % | | |
| Gastrointestinal | | | | | | |
| Stomatitis | 67 | 18 | 42 | 5 | | |
| Diarrhoea | 64 | 14 | 45 | 5 | | |
| Nausea | 43 | 6 | 35 | 2 | | |
| Vomiting | 33 | 4 | 22 | 1 | | |
| Constipation | 14 | 1 | 12 | - | | |
| Abdominal pain | 14 | 2 | 9 | 1 | | |
| Dyspepsia | 12 | - | 5 | <1 | | |
| Abdominal pain upper | 9 | - | 6 | 1 | | |
| Dry mouth | 5 | - | 4 | - | | |
| Cutaneous | | | | | | |
| Hand-foot syndrome | 63 | 24 | 7 | 1 | | |
| Alopecia | 41 | 6 | 42 | 7 | | |
| Nail disorder | 14 | 2 | 15 | - | | |
| Dermatitis | 8 | - | 9 | 1 | | |
| Rash erythematous | 8 | <1 | 4 | - | | |
| Nail discolouration | 6 | - | 4 | <1 | | |
| Onycholysis | 5 | 1 | 5 | 1 | | |
| General | | | | | | |
| Asthenia | 23 | 3 | 22 | 5 | | |
| Pyrexia | 21 | 1 | 29 | <1 | | |
| Fatigue | 21 | 4 | 25 | 5 | | |
| Weakness | 13 | 1 | 9 | 2 | | |
| Pain in limb | 9 | <1 | 8 | <1 | | |
| Lethargy | 6 | - | 5 | 1 | | |
| Pain | 6 | - | 2 | - | | |

| Body system | | Capecital | bine 1250 | Docetaxel 100 mg/m ² | | |
|-------------|-----------------------|-------------|---------------|---------------------------------|---------|--|
| Adver | se event | mg/m² twice | e daily with | /3 weeks (n=255) | | |
| | | docetaxel 7 | 75 mg/m²/3 | | | |
| | | weeks | weeks (n=251) | | | |
| | | All Grades | Grade ¾ | All Grades | Grade ¾ | |
| | | % | % | % | % | |
| Neuro | ogic | | | | | |
| | Taste disturbance | 15 | <1 | 14 | <1 | |
| | Paraesthesia | 11 | <1 | 15 | 1 | |
| | Dizziness | 9 | - | 6 | <1 | |
| | Headache | 7 | <1 | 8 | 1 | |
| | Peripheral neuropathy | 5 | - | 10 | 1 | |
| Cardio | vascular | | | | | |
| | Lower limb oedema | 14 | 1 | 12 | 1 | |
| | Sore throat | 11 | 2 | 7 | <1 | |
| | Dyspnoea | 7 | 1 | 9 | <1 | |
| | Cough | 6 | <1 | 9 | - | |
| | Epistaxis | 5 | <1 | 5 | - | |
| Metab | olism | | | | | |
| | Anorexia | 12 | 1 | 10 | 1 | |
| | Decreased appetite | 10 | - | 4 | - | |
| | Dehydration | 8 | 2 | 5 | 1 | |
| | Decreased weight | 6 | - | 4 | - | |
| Eye | | | | | | |
| | Increased lacrimation | 12 | - | 5 | - | |
| Muscu | loskeletal | | | | | |
| | Myalgia | 14 | 2 | 24 | 2 | |
| | Arthralgia | 11 | 1 | 18 | 2 | |
| | Back pain | 7 | 1 | 6 | 1 | |
| lude C | | | | | | |
| Infection | on | | | | | |

| Body system Adverse event | Capecitabine 1250 mg/m² twice daily with docetaxel 75 mg/m²/3 weeks (n=251) | | Docetaxel 100 mg/m ² /3 weeks (n=255) | |
|---------------------------------------|--|---------|--|---------|
| | All Grades | Grade ¾ | All Grades | Grade ¾ |
| | % | % | % | % |
| Oral candidiasis | 6 | <1 | 7 | <1 |
| Haematological [*] | | | | |
| Decreased haemoglobin | 13 | 4 | 11 | 4 |
| Neutropenic fever | 21 | 16 | 21 | 21 |
| Leucopenia | 3 | 3 | 2 | 2 |
| Biochemical laboratory abnormalities* | | | | |
| Increased alkaline phosphatase | 51 | 1 | 48 | 2 |
| Increased bilirubin | 23 | 9 | 6 | 3 |
| Increased AST | 42 | 3 | 37 | 4 |
| Increased ALT | 30 | 2 | 30 | 2 |
| Serum creatinine | 7 | <1 | 4 | - |

^{*} Grades according to National Cancer Institute of Canada Toxicity Criteria, version 1, Dec 1994 were used

Frequent grade 3 and 4 laboratory abnormalities are shown in Table 12.

Table 12: Frequent grade 3 and 4 laboratory abnormalities were:

| Adverse Event | capecitabine with docetaxel |
|--------------------------|-----------------------------|
| | (n=251) |
| Laboratory abnormalities | Grade 3/4 |
| | % |
| Neutropenia | 63 |
| Anaemia | 10 |
| Thrombocytopenia | 3 |
| Hyperbilirubinaemia | 9 |

Rare or uncommon adverse effects, as described for capecitabine monotherapy, can be expected

for combination therapy as well. See capecitabine Product Information for adverse effects which are at least remotely related to capecitabine occurring in < 5% of patients treated with capecitabine in combination with docetaxel.

Combination with trastuzumab (HER2+)

See Table 13.

Table 13: Adverse events (all grades) which were reported in ≥ 10% of patients treated with docetaxel in combination with trastuzumab for metastatic breast cancer

| Body System | Adverse Event | docetaxel plus trastuzumab |
|--------------------------------------|------------------------|----------------------------|
| | | N=92 (%) |
| General disorders and administration | Asthenia | 45 |
| site conditions | Pyrexia | 30 |
| | Fatigue | 24 |
| | Mucosal inflammation | 24 |
| | Rigors | 11 |
| | Pain | 11 |
| | Chest pain | 10 |
| | Influenza like illness | 10 |
| | Lethargy | 7 |
| | | |
| Skin and subcutaneous tissue | Alopecia | 67 |
| disorders | Rash | 24 |
| | Erythema | 23 |
| | Nail disorder | 16 |
| | | |
| Fluid retention | Peripheral | 40 |
| | Weight increased | 16 |
| | Lymphoedema | 11 |
| | | |
| Gastrointestinal disorders | Nausea | 45 |
| | Diarrhoea | 43 |
| | Vomiting | 29 |
| | Constipation | 27 |
| | Stomatitis | 20 |

| Body System | Adverse Event | docetaxel plus trastuzumab |
|---------------------------------------|------------------------|----------------------------|
| | | N=92 (%) |
| | Dyspepsia | 14 |
| | Abdominal pain | 12 |
| Nervous system disorders | Paraesthesia | 32 |
| | Headache | 21 |
| | Dysgeusia | 14 |
| | Hypoaesthesia | 11 |
| Blood and lymphatic system disorders | Neutropenia | 33 |
| | Febrile neutropenia | 20 |
| | Anaemia | 15 |
| | Leucopenia | 12 |
| Musculoskeletal and connective | Myalgia | 27 |
| tissue disorders | Arthralgia | 27 |
| | Pain in extremity | 16 |
| | Bone pain | 14 |
| Respiratory, thoracic and mediastinal | Back pain | 11 |
| disorders | Epistaxis | 20 |
| | Pharyngolaryngeal pain | 16 |
| | Nasopharyngitis | 15 |
| | Dyspnoea | 14 |
| | Cough | 13 |
| | Rhinorrhoea | 12 |
| Eye disorders | Lacrimation increased | 21 |
| | Conjunctivitis | 12 |
| Metabolism and nutrition disorders | Anorexia | 22 |
| Psychiatric disorders | Insomnia | 12 |

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| Body System | Adverse Event | docetaxel plus trastuzumab |
|----------------------------------|---------------|----------------------------|
| | | N=92 (%) |
| Injury, poisoning and procedural | Nail toxicity | 11 |
| complications | | |

There was an increased incidence of SAEs (40% vs. 31%) and grade 4 AEs (34% vs. 23%) in the combination arm compared to docetaxel monotherapy.

Cardiac toxicity

The incidence of symptomatic congestive heart failure in the study of docetaxel plus trastuzumab versus docetaxel alone is shown in Table 14.

Table 14: Overview of cardiac adverse event incidence (n, %) [95% confidence limits]

| | docetaxel plus trastuzumab | docetaxel |
|---------------------------|----------------------------|-----------|
| | n=92 | n=94 |
| Symptomatic heart failure | 2 (2.2%) | 0% |

In this study, all patients had a baseline cardiac ejection fraction of greater than 50%. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy, compared with 55% in the docetaxel alone arm.

Haematological toxicity

Grade 3/4 neutropenia was reported in 32% of the patients given docetaxel plus trastuzumab.

Adjuvant Treatment of Breast Cancer

Combination with doxorubicin and cyclophosphamide

Table 15 presents clinically important treatment emergent adverse events (TEAEs) observed in 744 patients who were treated with docetaxel 75 mg/m² every three weeks in combination with doxorubicin and cyclophosphamide and 736 patients treated with the comparator study drugs.

Table 15: Clinically important treatment emergent adverse events (TEAEs) considered related to study treatment in patients receiving docetaxel in combination with doxorubicin and cyclophosphamide

| Body system | Docetax | el 75 mg/m² | Fluoroura | acil 500 mg/m² | |
|-------------------------------|------------|------------------------|-----------------------|----------------|--|
| Adverse Event | + doxorub | + doxorubicin 50 mg/m² | | oicin 50 mg/m² | |
| | + cyclopho | sphamide 500 | +cyclophosphamide 500 | | |
| | Į į | _J /m² | | | |
| | n | =744 | r | n=736 | |
| | Any % | Grade 3/4 % | Any % | Grade 3/4 % | |
| Cutaneous | | | | | |
| Alopecia | 97.7 | N/A | 97.1 | N/A | |
| Skin toxicity | 18.4 | 0.7 | 10.9 | 0.3 | |
| Nail disorders | 18.4 | 0.4 | 13.9 | 0.1 | |
| Haematological | | | | | |
| Anaemia | 91.5 | 4.3 | 71.7 | 1.6 | |
| Neutropenia | 71.4 | 65.5 | 82.0 | 49.3 | |
| Thrombocytopenia | 39.4 | 2.0 | 27.7 | 1.2 | |
| Febrile neutropenia | 24.7 | N/A | 2.5 | N/A | |
| Neutropenic infection | 12.1 | N/A | 6.3 | N/A | |
| Gastrointestinal | | | | | |
| Nausea | 80.4 | 5.1 | 87.4 | 9.5 | |
| Stomatitis | 69.1 | 7.1 | 52.6 | 2.0 | |
| Vomiting | 42.6 | 4.3 | 58.2 | 7.3 | |
| Diarrhoea | 30.9 | 3.2 | 23.5 | 1.0 | |
| Constipation | 22.6 | 0.4 | 21.5 | 1.2 | |
| Abdominal pain | 7.3 | 0.5 | 3.3 | 0.0 | |
| General | | | | | |
| Asthenia | 79.2 | 11.0 | 69.4 | 5.2 | |
| Fever in absence of infection | 43.1 | 1.2 | 13.2 | 0.0 | |
| Infection* | 27.2 | 3.2 | 17.4 | 1.4 | |
| Peripheral oedema | 26.7 | 0.4 | 7.2 | 0.0 | |
| Hypersensitivity reactions | 10.5 | 1.1 | 2.2 | 0.0 | |
| Lymphoedema | 0.3 | 0.0 | 0.0 | 0.0 | |

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| Body system | Docetax | el 75 mg/m² | Fluoroura | ıcil 500 mg/m² | | |
|------------------------|------------|------------------------|-----------|-----------------------|--|--|
| Adverse Event | + doxorub | icin 50 mg/m² | + doxorub | oicin 50 mg/m² | | |
| | + cyclopho | + cyclophosphamide 500 | | +cyclophosphamide 500 | | |
| | 9 | g/m² | g/m² | | | |
| | n | =744 | n=736 | | | |
| | Any % | Grade 3/4 % | Any % | Grade 3/4 % | | |
| Amenorrhoea | 57.6 | N/A | 48.1 | N/A | | |
| Neurological | | | | | | |
| Taste perversion | 27.4 | 0.7 | 15.1 | 0.0 | | |
| Neuropathy sensory | 23.8 | 0.0 | 7.9 | 0.0 | | |
| Neuro-cortical | 2.8 | 0.3 | 3.9 | 0.3 | | |
| Neuropathy motor | 2.8 | 0.0 | 1.5 | 0.0 | | |
| Neuro-cerebellar | 1.1 | 0.1 | 0.8 | 0.0 | | |
| Syncope | 0.5 | 0.0 | 0.4 | 0.0 | | |
| Musculoskeletal | | | | | | |
| Myalgia | 22.8 | 0.8 | 8.0 | 0.0 | | |
| Arthralgia | 15.1 | 0.4 | 5.7 | 0.3 | | |
| Cardiovascular | | | | | | |
| CHF | 0.0 | 1.6 | 0.0 | 0.5 | | |
| Vasodilatation | 20.3 | 0.9 | 15.9 | 0.4 | | |
| Cardiac dysrhythmias** | 3.9 | 0.1 | 2.9 | 0.3 | | |
| Hypotension | 1.5 | 0.0 | 0.5 | 0.0 | | |
| Phlebitis | 0.7 | 0.0 | 0.4 | 0.0 | | |
| Metabolic | | | | | | |
| Anorexia | 19.9 | 2.2 | 16.4 | 1.2 | | |
| Weight gain or loss | 15.2 | 0.3 | 9.2 | 0.0 | | |
| Eye | | | | | | |
| Lacrimation disorder | 9.8 | 0.1 | 6.4 | 0.0 | | |
| Conjunctivitis | 4.6 | 0.3 | 6.0 | 0.1 | | |

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| Body system | Docetaxe | el 75 mg/m² | Fluorouracil 500 mg/m² | | |
|---------------|---|-------------|---|-------------|--|
| Adverse Event | Event + doxorubicin 50 mg/m² + doxorubicin 50 mg/ | | icin 50 mg/m² | | |
| | + cyclophosphamide 500 +cyc | | +cyclophosphamide 500 +cyclophosphamide | | |
| | g/m² n=744 Any % Grade 3/4 % | | g/m² n=736 | | |
| | | | | | |
| | | | Any % | Grade 3/4 % | |
| Respiratory | | | | | |
| Cough | 3.1 | 0.0 | 2.2 | 0.1 | |

N/A: not applicable.

Of the 744 patients treated with TAC (docetaxel, doxorubicin and cyclophosphamide), 33.1% experienced severe TEAEs. Dose reductions due to haematological toxicity occurred in 1% of cycles in TAC arm. 6% of patients treated with TAC discontinued treatment due to adverse events, fever in the absence of infection and allergy being the most common reasons for withdrawal. Two patients died within 30 days of their last study treatment; 1 death was considered to be related to study drug.

Fever and infection

Fever in the absence of infection was seen in patients and infection was seen in patients. There were no septic deaths.

Gastrointestinal events

In addition to gastrointestinal events reflected in Table 15, four patients were reported to have colitis/enteritis/large intestine perforation in the TAC arm. Two of these patients required treatment discontinuation; no deaths due to these events occurred during the treatment period.

Acute myeloid leukaemia/myelodysplastic syndrome

At a median follow-up time of 83 months, AML occurred in three of 744 (0.4%) patients who received docetaxel, doxorubicin and cyclophosphamide and in one of 736 (0.1%) patients who receive fluorouracil, doxorubicin and cyclophosphamide.

Cardiovascular events

^{*}There was no septic death in either treatment arms.

^{**}one patient died due to heart failure in TAC arm.

The following cardiovascular events were reported: dysrhythmias, all grades (3.9%), hypotension, all grades (1.5%) and CHF (2.3% at 70 months median follow-up). One patient died due to heart failure.

Other persistent reactions

The following events were observed to be ongoing at the median follow-up time of 55 months: alopecia, amenorrhoea, neurosensory and peripheral oedema. Among the adverse events that persisted into the follow-up period in >1% of patients, the majority of events resolved; however, amenorrhoea, and lymphoedema remained ongoing in TAC patients.

Combination with doxorubicin, cyclophosphamide and trastuzumab and with carboplatin and trastuzumab (HER2+).

See Table 16.

Table 16: Adverse events (AEs) related to study treatment, occurring at any time during the study: safety population (incidence of ≥ 5% for noncardiac AEs: incidence of ≥ 1% for cardiac AEs)

| Adverse Event | | С-Т | | AC-TH | | Н |
|--------------------------------|-------------|------------|-------------|------------|-------------|------------|
| (NCI-CTC term) | | 050 | n=1068 | | n=1056 | |
| | Overall n | Grade 3/4 | Overall | Grade 3/4 | Overall | Grade |
| | (%) | n (%) | n (%) | n (%) | n (%) | 3/4 |
| | | | | | | n (%) |
| Alopecia | 1029 (98.0) | 0 | 1047 (98.0) | 0 | 1012 (95.8) | 0 |
| Haemoglobin ^a | 957 (91.1) | 25 (2.4) | 1036 (97.0) | 34 (3.2) | 1017 (96.3) | 61 (5.8) |
| Nausea | 916 (87.2) | 61 (5.8) | 931 (87.2) | 57 (5.3) | 853 (80.8) | 49 (4.6) |
| Leucocytes ^a | 878 (83.6) | 540 (51.4) | 929 (87.0) | 643 (60.2) | 877 (83.0) | 507 (48.0) |
| Neutrophils ^a | 859 (81.8) | 664 (63.2) | 922 (86.3) | 761 (71.3) | 859 (81.3) | 696 (65.9) |
| Fatigue | 844 (80.4) | 71 (6.8) | 868 (81.3) | 71 (6.6) | 849 (80.4) | 73 (6.9) |
| Stomatitis/pharyngitis | 663 (63.1) | 38 (3.6) | 694 (65.0) | 32 (3.0) | 547 (51.8) | 15 (1.4) |
| Vomiting | 571 (54.4) | 61 (5.8) | 591 (55.3) | 68 (6.4) | 416 (39.4) | 32 (3.0) |
| SGPT (ALT) ^a | 506 (48.2) | 7 (0.7) | 579 (54.2) | 19 (1.8) | 561 (53.1) | 25 (2.4) |
| Fluid retention ^{a,b} | 533 (50.8) | 14 (1.3) | 558 (52.2) | 16 (1.5) | 539 (51.0) | 15 (1.4) |
| Myalgia | 515 (49.0) | 49 (4.7) | 544 (50.9) | 52 (4.9) | 353 (33.4) | 15 (1.4) |
| Diarrhoea | 395 (37.6) | 31 (3.0) | 484 (45.3) | 55 (5.1) | 589 (55.8) | 52 (4.9) |
| Neuropathy-sensory | 464 (44.2) | 23 (2.2) | 478 (44.8) | 20 (1.9) | 316 (29.9) | 6 (0.6) |

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| Adverse Event | AC | C-T | AC-TH | | тсн | | |
|------------------------------------|------------|------------|------------|------------|------------|------------|--|
| (NCI-CTC term) | n=1 | 050 | n=1 | 068 | n=10 | 056 | |
| | Overall n | Grade 3/4 | Overall | Grade 3/4 | Overall | Grade | |
| | (%) | n (%) | n (%) | n (%) | n (%) | 3/4 | |
| | | | | | | n (%) | |
| SGOT (AST) ^a | 426 (40.6) | 2 (0.2) | 454(42.5) | 9 (0.8) | 401 (38.0) | 11 (1.0) | |
| Arthralgia | 372 (35.4) | 30 (2.9) | 424 (39.7) | 32 (3.0) | 230 (21.8) | 11 (1.0) | |
| Nail changes | 487 (46.4) | 0 | 423 (39.6) | 0 | 246 (23.3) | 0 | |
| Platelets ^a | 296 (28.2) | 10 (1.0) | 350 (32.8) | 13 (1.2) | 667 (63.2) | 57 (5.4) | |
| Irregular menses | 353 (33.6) | 248 (23.6) | 311 (29.1) | 213 (19.9) | 340 (32.2) | 226 (21.4) | |
| Taste disturbance | 297 (28.3) | 0 | 290 (27.2) | 0 | 312 (29.5) | 0 | |
| Constipation | 276 (26.3) | 6 (0.6) | 289 (27.1) | 10 (0.9) | 232 (22.0) | 6 (0.6) | |
| Rash/desquamation | 224 (21.3) | 16 (1.5) | 277 (25.9) | 14 (1.3) | 241(22.8) | 4 (0.4) | |
| Hot flashes/flushes | 220 (21.0) | 0 | 230 (21.5) | 0 | 192 (18.2) | 0 | |
| Tearing | 191 (18.2) | 0 | 228 (21.3) | 3 (0.3) | 109 (10.3) | 0 | |
| Alkaline phosphatase ^a | 202 (19.2) | 3 (0.3) | 206 (19.3) | 3 (0.3) | 215 (20.4) | 3 (0.3) | |
| Anorexia | 214 (20.4) | 5 (0.5) | 205 (19.2) | 5 (0.5) | 222 (21.0) | 5 (0.5) | |
| Dyspepsia/heartburn | 150 (14.3) | 3 (0.3) | 203 (19.0) | 3 (0.3) | 211 (20.0) | 4 (0.4) | |
| Headache | 163 (15.5) | 4 (0.4) | 175 (16.4) | 6 (0.6) | 160 (15.2) | 3 (0.3) | |
| Dyspnea | 156 (14.9) | 8 (0.8) | 166 (15.5) | 16 (1.5) | 157 (14.9) | 18 (1.7) | |
| Weight gain | 114 (10.9) | 3 (0.3) | 159 (14.9) | 3 (0.3) | 154 (14.6) | 2 (0.2) | |
| Infection without neutropenia | 105 (10.0) | 17 (1.6) | 135 (12.6) | 20 (1.9) | 98 (9.3) | 16 (1.5) | |
| Abdominal pain or cramping | 108 (10.3) | 3 (0.3) | 132 (12.4) | 4 (0.4) | 141 (13.4) | 5 (0.5) | |
| Insomnia | 106 (10.1) | 0 | 119 (11.1) | 1 (0.1) | 93 (8.8) | 0 | |
| Febrile neutropenia | 95 (9.0) | 95 (9.0) | 116 (10.9) | 116 (10.9) | 103 (9.8) | 103 (9.8) | |
| Fever (without neutropenia) | 95 (9.0) | 3 (0.3) | 116 (10.9) | 4 (0.4) | 70 (6.6) | 3 (0.3) | |
| Allergic reaction/hypersensitivity | 75 (7.1) | 12 (1.1) | 105 (9.8) | 15 (1.4) | 139 (13.2) | 26 (2.5) | |
| Bone pain | 97 (9.2) | 10 (1.0) | 104 (9.7) | 4 (0.4) | 67 (6.3) | 1 (0.1) | |
| Infection with grade ¾ neutropenia | 83 (7.9) | 83 (7.9) | 98 (9.2) | 98 (9.2) | 81 (7.7) | 81 (7.7) | |
| Pain | 98 (9.3) | 4 (0.4) | 86 (8.1) | 4 (0.4) | 57 (5.4) | 0 | |
| Conjunctivitis | 84 (8.0) | 5 (0.5) | 86 (8.1) | 0 | 35 (3.3) | 0 | |
| Dizziness/lightheadedness | 65 (6.2) | 1 (0.1) | 78 (7.3) | 7 (0.7) | 70 (6.6) | 4 (0.4) | |
| Creatinine ^a | 39 (3.7) | 7 (0.7) | 72 (6.7) | 5 (0.5) | 102 (9.7) | 6 (0.6) | |
| Hand-foot skin reaction | 84 (8.0) | 20 (1.9) | 72 (6.7) | 15 (1.4) | 29 (2.7) | 0 | |

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| Adverse Event | AC-T | | AC | :-TH | тс | Н | |
|-----------------------------------|-----------|-----------|----------|-----------|-----------|----------|--|
| (NCI-CTC term) | n=1 | n=1050 | | n=1068 | | n=1056 | |
| | Overall n | Grade 3/4 | Overall | Grade 3/4 | Overall | Grade | |
| | (%) | n (%) | n (%) | n (%) | n (%) | 3/4 | |
| | | | | | | n (%) | |
| Epistaxis | 40 (3.8) | 0 | 72 (6.7) | 0 | 104 (9.8) | 4 (0.4) | |
| Weight loss | 63 (6.0) | 0 | 71 (6.6) | 0 | 56 (5.3) | 1 (0.1) | |
| Dry skin | 63 (6.0) | 0 | 69 (6.5) | 0 | 41 (3.9) | 0 | |
| Cough | 55 (5.2) | 1 (0.1) | 66 (6.2) | 2 (0.2) | 36 (3.4) | 0 | |
| Rhinitis | 49 (4.7) | 2 (0.2) | 64 (6.0) | 1 (0.1) | 47 (4.5) | 0 | |
| Rigors, chills | 33 (3.1) | 0 | 63 (5.9) | 0 | 54 (5.1) | 0 | |
| Infection with unknown ANC | 73 (7.0) | 73 (7.0) | 59 (5.5) | 59 (5.5) | 38 (3.6) | 38 (3.6) | |
| Neuropathy-motor | 44 (4.2) | 2 (0.2) | 57 (5.3) | 4 (0.4) | 38 (3.6) | 3 (0.3) | |
| Bilirubin ^a | 52 (5.0) | 6 (0.6) | 54 (5.1) | 4 (0.4) | 61 (5.8) | 4 (0.4) | |
| Injection site reaction | 47 (4.5) | 2 (0.2) | 50 (4.7) | 1 (0.1) | 61 (5.8) | 2 (0.2) | |
| Mouth dryness | 76 (7.2) | 0 | 43 (4.0) | 0 | 29 (2.7) | 0 | |
| Cardiac left ventricular function | 11 (1.0) | 1 (0.1) | 37 (3.5) | 5 (0.5) | 15 (1.4) | 1 (0.1) | |
| Palpitations | 32 (3.0) | 0 | 36 (3.4) | 0 | 47 (4.5) | 0 | |
| Sinus tachycardia | 21 (2.0) | 2 (0.2) | 19 (1.8) | 0 | 23 (2.2) | 0 | |
| Hypotension | 10 (1.0) | 1 (0.1) | 10 (0.9) | 0 | 13 (1.2) | 2 (0.2) | |

ACT = doxorubicin, cyclophosphamide and docetaxel; AC-TH = doxorubicin and cyclophosphamide, followed by docetaxel in combination with trastuzumab; TCH = docetaxel in combination with trastuzumab and carboplatin.

^aRegardless of causality.

^bFluid retention AEs are defined as 'oedema only', or 'weight gain only', or 'lung oedema only', or 'oedema and weight gain', or 'oedema and lung oedema' or 'oedema+weight gain+lung oedema'. 'Fluid retention' corresponds to the NCI-CTC term 'oedema'.

The 3 year cumulative incidence of all symptomatic cardiac events was 2.36% and 1.16% in the AC-TH and TCH arms, respectively (versus 0.52% in the AC-T control arm, see CLINICAL TRIALS). The 3 year cumulative incidence of CHF events (Grade 3 or 4) was 1.9% and 0.4% in the AC-TH and TCH arms, respectively (versus 0.3% in the AC-T control arm).

Combination with Cyclophosphamide (TC)

Whilst overall the toxicity profiles were similar, there were some differences between TC and AC

(doxorubicin and cyclophosphamide). AC was associated with more nausea and vomiting (all grades as well as grades 3 and 4), but TC had more low-grade oedema, myalgia, and arthralgia secondary to the use of docetaxel. The exception was cardiac toxicity. In the AC arm one patient died of congestive heart failure and there were four deaths due to myocardial infarction. At the 7 year follow up another death in the AC arm was attributed to congestive heart failure. In the TC arm there were no deaths attributed to congestive heart failure and two deaths from myocardial infarction.

Table 17: Tabulated frequency of the most common adverse events

| | 7 | TC Patients (n=506) | | | | AC Patients (n=510) | | | |
|------------------|--------------|---------------------|-------|----|----|---------------------|----|----|--|
| | | Grad | e (%) | • | | Grade (%) | | | |
| Adverse Event | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Haematologic | Haematologic | | | | | | | | |
| Anaemia | 3 | 2 | <1 | <1 | 4 | 3 | 1 | <1 | |
| Neutropenia | <1 | 1 | 10 | 51 | 1 | 2 | 12 | 43 | |
| Thrombocytopenia | <1 | <1 | 0 | <1 | <1 | <1 | 1 | 0 | |
| Non-haematologic | | | | | | | | | |
| Asthenia | 43 | 32 | 3 | <1 | 42 | 31 | 4 | <1 | |
| Oedema | 27 | 7 | <1 | 0 | 17 | 3 | <1 | <1 | |
| Fever | 14 | 5 | 3 | 2 | 11 | 4 | 2 | <1 | |
| Infection | 8 | 4 | 7 | <1 | 7 | 5 | 8 | <1 | |
| Myalgia | 22 | 10 | 1 | <1 | 11 | 5 | <1 | <1 | |
| Nausea | 38 | 13 | 2 | <1 | 43 | 32 | 7 | <1 | |
| Phlebitis | 8 | 3 | <1 | 0 | 1 | 1 | 0 | 0 | |
| Stomatitis | 23 | 10 | <1 | <1 | 29 | 15 | 1 | 1 | |
| Vomiting | 9 | 5 | <1 | <1 | 21 | 16 | 5 | <1 | |

AC - doxorubicin and cyclophosphamide; TC - docetaxel and cyclophosphamide

Prostate cancer

Combination with prednisone (or prednisolone)

The adverse effect profile is consistent with the known safety profile of docetaxel.

Table 18 provides the percentage of subjects with clinically important TEAs and haematological toxicities related to study treatment reported in the phase III clinical trial for docetaxel 75 mg/m²

q3w (every three weeks) and mitozantrone q3w in combination with prednisone (or prednisolone).

Table 18: Clinically important treatment emergent adverse events related to study medication

| | Docetaxel : | 75 mg/m² | Mitozantrone | e 12 mg/m² |
|------------------------|--------------|-------------|---------------|-------------|
| | every 3 week | s (n=332) % | every 3 weeks | s (n=335) % |
| | Grade 3/4 | Any | Grade 3/4 | Any |
| Cutaneous | | | | |
| Alopecia | N/A* | 65.1 | N/A* | 12.5 |
| Nail changes | 0.0 | 28.3 | 0.0 | 6.6 |
| Rash/desquamation | 0.3 | 3.3 | 0.0 | 0.9 |
| Haematological | | | | |
| Neutropenia | 32.0 | 40.9 | 21.7 | 48.2 |
| Anaemia | 4.9 | 66.5 | 1.8 | 57.8 |
| Thrombocytopenia | 0.6 | 3.4 | 1.2 | 7.8 |
| Epistaxis | 0.0 | 3.0 | 0.0 | 0.6 |
| Febrile neutropenia | N/A* | 2.7 | N/A* | 1.8 |
| General | | | | |
| Fatigue | 3.9 | 42.8 | 2.7 | 26.6 |
| Infection | 3.3 | 12.0 | 2.1 | 4.8 |
| Stomatitis/pharyngitis | 0.9 | 17.8 | 0.0 | 7.8 |
| Fluid retention | 0.6 | 24.4 | 0.3 | 4.5 |
| Allergic reaction | 0.6 | 6.9 | 0.0 | 0.3 |
| Anorexia | 0.6 | 12.7 | 0.0 | 11.6 |
| Gastrointestinal | | | | |
| Nausea | 2.4 | 35.5 | 0.9 | 28.7 |
| Diarrhoea | 1.2 | 24.1 | 0.9 | 4.2 |
| Vomiting | 1.2 | 13.3 | 0.6 | 7.2 |
| Neurological | | | | |
| Neuropathy sensory | 1.2 | 27.4 | 0.0 | 2.1 |
| Taste disturbance | 0.0 | 17.5 | 0.0 | 6.3 |

| | Docetaxel | 75 mg/m ² | Mitozantrone 12 mg/m ² every 3 weeks (n=335) % | | |
|-----------------------|--------------|----------------------|--|------|--|
| | every 3 weel | ks (n=332) % | | | |
| | Grade 3/4 | Any | Grade 3/4 | Any | |
| Neuropathy motor | 0.0 | 3.9 | 0.0 | 0.9 | |
| | | | | | |
| Respiratory | | | | | |
| Dyspnoea | 0.6 | 4.5 | 0.3 | 3.3 | |
| Cough | 0.0 | 1.2 | 0.0 | 0.9 | |
| | | | | | |
| Eye | | | | | |
| Tearing | 0.6 | 9.3 | 0.0 | 1.5 | |
| | | | | | |
| Musculoskeletal | | | | | |
| Myalgia | 0.3 | 6.9 | 0.0 | 3.3 | |
| Arthralgia | 0.3 | 3.0 | 0.0 | 0.6 | |
| Cardiovascular | | | | | |
| Abnormal cardiac left | | | | | |
| ventricular function | 0.3 | 3.9 | 0.9 | 19.1 | |

^{*} N/A: not applicable

Head and neck cancer

Combination with cisplatin and fluorouracil

Table 19 summarises the safety data obtained in 174 (TAX323) and 251 patients (TAX 324) with locally advanced SCCHN who were treated with docetaxel 75 mg/m² in combination with cisplatin and fluorouracil.

Table 19: Clinically important treatment related adverse events in patients with SCCHN receiving docetaxel in combination with cisplatin and fluorouracil

| Adverse Event | TA | K 323: | TA | X 324: | | |
|--|------------|--|---------|-------------|--|--|
| | docetaxe | 75 mg/m ² + | docetax | el 75 mg/m² | | |
| | cisplatin | + cisplatin 100 mg/m² + fluorouracil 1000 | | | | |
| | fluorourac | | | | | |
| | (n: | =174) | m | mg/m² | | |
| | | | (n=251) | | | |
| | Any | Grade 3/4 | Any | Grade 3/4 | | |
| | % | % | % | % | | |
| Blood and lymphatic system | | | | | | |
| Neutropenia | 93.1 | 76.3 | 94.8 | 83.5 | | |
| Anaemia | 89.1 | 9.2 | 90.0 | 12.4 | | |
| Thrombocytopenia | 23.6 | 5.2 | 27.5 | 4.0 | | |
| Infection | 15.5 | 6.3 | 13.1 | 3.6 | | |
| Fever in absence of infection | 14.4 | 0.6 | 26.3 | 3.6 | | |
| Neutropenic infection | 11.0 | 0.0 | 6.5 | NA | | |
| Febrile neutropenia* | 5.2 | 0.0 | 12.1 | NA | | |
| Allergy | 2.9 | 0.0 | 0.4 | 0.0 | | |
| Skin and subcutaneous tissue disorders | | | | | | |
| Alopecia | 79.9 | 10.9 | 67.7 | 4.0 | | |
| Rash/itch | 8.6 | 0.0 | 12.7 | 0.0 | | |
| Dry skin | 5.2 | 0.0 | 2.8 | 0.4 | | |
| Desquamation | 4.0 | 0.6 | 2.0 | 0.0 | | |
| Fluid retention | 20.1 | 0.0 | 13.1 | 1.2 | | |
| Oedema only | 12.6 | 0.0 | 12.0 | 1.2 | | |
| Weight gain only | 5.7 | 0.0 | 0.4 | 0.0 | | |
| Gastrointestinal disorders | | | | | | |
| Nausea | 43.7 | 0.6 | 75.7 | 13.9 | | |
| Stomatitis | 42.0 | 4.0 | 64.5 | 20.7 | | |
| Diarrhoea | 29.3 | 2.9 | 42.2 | 6.8 | | |

| Adverse Event | TAX | 323: | TAX | 324: | | |
|------------------------------------|---|------------|----------|--|--|--|
| | docetaxel | 75 mg/m² + | docetaxe | l 75 mg/m² | | |
| | cisplatin 75 mg/m ² + fluorouracil 750 mg/m ² | | | + cisplatin 100 mg/m² + fluorouracil 1000 | | |
| | | | | | | |
| | (n= | 174) | mg/m² | | | |
| | | | (n= | 251) | | |
| | Any | Grade 3/4 | Any | Grade 3/4 | | |
| | % | % | % | % | | |
| Vomiting | 25.9 | 0.6 | 56.2 | 8.4 | | |
| Taste/sense of smell altered | 10.3 | - | 19.5 | 0.4 | | |
| Constipation | 6.9 | 0.0 | 13.9 | 0.4 | | |
| Oesophagitis/dysphagia/odynophagia | 5.7 | 0.6 | 21.9 | 12.0 | | |
| Gastrointestinal pain/cramping | 5.2 | - | 6.0 | 1.2 | | |
| Heartburn | 4.0 | - | 8.8 | 0.8 | | |
| Gastrointestinal bleeding | 1.1 | 0.6 | 2.0 | 0.4 | | |
| Nervous system disorders | | | | | | |
| Neurosensory | 16.7 | 0.6 | 11.6 | 1.2 | | |
| Neuromotor | - | - | 7.2 | 0.4 | | |
| Dizziness | 1.1 | - | 9.6 | 2.0 | | |
| Cardiac disorders | | | | | | |
| Myocardial ischaemia | 1.7 | 1.7 | 0.8 | 0.8 | | |
| Cardiac dysrhythmia | 0.6 | 0.6 | 3.2 | 0.2 | | |
| Vascular disorders | | | | | | |
| Venous | 1.1 | 0.6 | 0.8 | 0.4 | | |
| Metabolism and nutrition disorders | | | | | | |
| Anorexia | 15.5 | 0.6 | 37.8 | 12.0 | | |
| Weight loss | 9.8 | 0 | 11.2 | 0.0 | | |
| Eye disorders | | | | | | |
| Tearing | 1.7 | 0 | 1.6 | 0.0 | | |
| Conjunctivitis | 1.1 | 0 | 0.8 | 0.0 | | |

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| Adverse Event | TAX | 323: | TAX | 324: | |
|---|----------------------|-------------|--------------------------------|-----------------------|--|
| | docetaxel | 75 mg/m² + | docetaxel 75 mg/m ² | | |
| | cisplatin 75 mg/m² + | | | + cisplatin 100 mg/m² | |
| | fluorouraci | l 750 mg/m² | + fluorouracil 1000 | | |
| | (n= | 174) | mg | _J /m² | |
| | | | (n= | 251) | |
| | Any | Grade 3/4 | Any | Grade 3/4 | |
| | % | % | % | % | |
| | | | | | |
| Ear and labyrinth disorders | | | | | |
| Altered hearing | 5.7 | 0 | 11.2 | 1.2 | |
| | | | | | |
| Musculoskeletal, connective tissue and bone | | | | | |
| disorders | | | | | |
| Myalgia | 6.3 | 0.6 | 5.2 | 0.4 | |
| General disorders and administration site | | | | | |
| conditions | | | | | |
| Lethargy | 37.9 | 3.4 | 58.6 | 4.0 | |
| Cancer pain | 1.1 | 0.6 | 3.2 | 1.2 | |

^{*} Febrile neutropenia: grade ≥ 2 fever concomitant with Grade 4 neutropenia requiring I.V antibiotics and/or hospitalisation. Clinically important TEAEs were determined based upon frequency, severity and clinical impact of the adverse event.

Post-marketing Adverse Effects

The following information relates to serious events observed following the marketing of docetaxel. Voluntary reports of serious adverse events that have been received since market introduction (without causal relationship) that are not listed previously are cited below. Frequency estimates are as follows. Common: greater than or equal to 1 to 10%; uncommon: 0.1 to 1%; rare: 0.01 to 0.1%; very rare: < 0.01%.

Body as a whole

Uncommon: chest pain, diffuse pain.

Rare: abdominal pain.

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Very rare: radiation recall phenomenon.

Hypersensitivity

Rare: cases of anaphylactic shock have been reported.

Very rare: these cases resulted in a fatal outcome in patients who received premedication.

Hypersensitivity reactions such as bronchospasm and generalized rash have been reported.

Hypersensitivity reactions have been reported with docetaxel in patients who previously experienced hypersensitivity reactions to paclitaxel.

Cutaneous

Very rare: cases of cutaneous lupus erythematous and bullous eruptions such as erythema

multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis and scleroderma-like changes have been reported. Multiple factors such as

concomitant infections, concomitant medications and underlying disease may have

contributed to the development of these effects. Cases of permanent alopecia

have been reported.

Severe nail disorders characterised by hypo- or hyperpigmentation, and

infrequently onycholysis and pain.

Acute generalized exanthematous pustulosis has been reported.

Fluid retention

Rare: dehydration and pulmonary oedema have been reported.

Gastrointestinal

Rare: constipation, oesophagitis and taste perversion, ileus and intestinal obstruction,

gastrointestinal perforation, neutropenic enterocolitis^a, colitis^a, including ischaemic

colitisa, gastrointestinal haemorrhage, dehydration as a consequence of

gastrointestinal events

Very rare: duodenal ulcer

Neurological

^a Reported with a fatal outcome

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Rare: confusion, seizures, transient loss of consciousness. These reactions sometimes

occur during infusion of the drug.

Cardiovascular

Common: hypertension, hypotension

Uncommon: cardiac arrhythmia^b, congestive heart failure

Rare: atrial fibrillation, syncope, tachycardia^b

Very rare: deep vein thrombosis, myocardial infarction, ECG abnormalities, thrombophlebitis,

pulmonary embolism

Vein disorder, venous thromboembolism and haemorrhage have been reported.

^b In post-marketing, ventricular arrhythmia including ventricular tachycardia has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide, and may be associated fatal outcome.

Hepatic

Very rare: hepatitis, sometimes fatal, primarily in patients with pre-existing liver disorders, has

been reported.

Ear and labyrinth disorders

Rare: cases of ototoxicity, hearing disorders and/or hearing loss have been reported,

including cases associated with other ototoxic drugs.

Hypoacusis has been recorded.

Eye disorders

Rare: cases of lacrimation with or without conjunctivitis have been reported and very rare

cases of lacrimal duct obstruction resulting in excessive tearing have been reported primarily in patients receiving other antitumour agents concomitantly.

Cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during drug infusion and in association with hypersensitivity have been

reported. These were reversible upon discontinuation of the infusion.

Cases of Cystoid Macular Oedema (CMO) have been reported in patients treated with docetaxel, as well as with other taxanes.

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Respiratory, thoracic and mediastinal disorders

Uncommon: dyspnoea

Rare: acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial

lung disease, acute pulmonary oedema, pulmonary fibrosis, and radiation recall phenomena have rarely been reported. Rare cases of radiation pneumonitis have

been reported in patients receiving concomitant therapy.

Respiratory failure has been reported.

Haematological and lymphatic disorders

Very rare: cases of acute myeloid leukaemia and myelodysplastic syndrome have been

reported in association with docetaxel when used in combination with other

chemotherapy agents and/or radiotherapy.

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

Urogenital

Rare: renal insufficiency and renal failure associated with concomitant nephrotoxic drugs

have been reported.

Other

Common: generalised or localised pain including chest pain without cardiac or respiratory

involvement

Musculoskeletal and connective tissue disorders

Myositis has been reported.

Metabolism and nutrition disorders

Tumour lysis syndrome has been reported. Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia and hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular diarrhoea.

General disorders and administration site conditions

Fluid retention (pleural effusion, pericardial effusion, ascites), injection site recall reaction

(recurrence of skin reaction at a site of previous extravasation following administration of

docetaxel at a different site) has been observed at the site of previous extravasation.

Investigations

Liver function test abnormal, weight decreased, blood bilirubin increased, blood alkaline

phosphatase increased, AST increased, ALT increased.

11. DOSAGE AND ADMINISTRATION

Hospira Docetaxel Injection is for intravenous use only.

The use of docetaxel should be confined to units specialised in the administration of cytotoxic

chemotherapy and it should be administered under the supervision of a physician qualified in the

use of anticancer chemotherapy.

Recommended dosage:

For breast, non-small cell lung, ovarian, 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 administration, unless contraindicated, can be used.

Prophylactic G-CSF may be used to mitigate the risk of haematological 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 infusion.

Breast Cancer

In the adjuvant treatment of operable node-positive breast cancer, the recommended dose of

docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide

500 mg/m² every 3 weeks for 6 cycles (TAC regimen).

For the treatment of patients with locally advanced or metastatic breast cancer after failure of prior

chemotherapy, the recommended dosage of docetaxel is 60 - 100 mg/m² infused IV over 1 hour

and repeated every 3 weeks.

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In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every

3 weeks, combined with capecitabine at 1250 mg/m² twice daily, equivalent to a total daily dose of

2500 mg/m², for 2 weeks followed by 1-week rest period.

Non-Small Cell Lung Cancer

In chemotherapy naive patients treated for non-small cell lung cancer, the recommended dose

regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes

every 3 weeks. For treatment after failure of prior platinum based chemotherapy, the

recommended dosage is 75 mg/m² monotherapy, and recommended dose of docetaxel is

75 mg/m² administered IV over 1 hour every 3 weeks.

Prostate Cancer

The recommended dose of docetaxel is 75 mg/m². Prednisolone 5 mg orally twice daily is

administered continuously.

Gastric Adenocarcinoma

The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin

75 mg/m².

As a 1 to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given

as a 24-hour continuous infusion for 5 days, starting at the end of the 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 haematological toxicities.

Head and Neck Cancer

Patients must receive premedication with antiemetics and appropriate hydration (prior to and after

cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological

toxicities.

Induction chemotherapy followed by radiotherapy

For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head

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and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion followed by cisplatin 75 mg/m²/day over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m²/day for five days. This regimen is administered every 3 weeks for 4 cycles.

Following chemotherapy, patients should receive radiotherapy.

Induction chemotherapy followed by chemoradiotherapy

For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1-hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administered as a 30-minute to 3-hour infusion followed by 5-fluorouracil 1000 mg/m²/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.

Dosage adjustments during treatment:

General

Docetaxel should be administered when the neutrophil count is ≥1,500 cells/mm³. In patients who experienced either febrile neutropenia, neutrophil < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or 75 mg/m² to 60 mg/m². If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

Adjuvant therapy for breast cancer

Primary G-CSF prophylaxis should be considered in patients who receive TAC adjuvant therapy for breast cancer. In a pivotal trial in patients who received adjuvant therapy for breast cancer and who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia or infection), it was recommended to use G-CSF to provide prophylactic coverage in all subsequent cycles. Patients who continued to experience febrile neutropenia and/or neutropenic infection should remain on G-CSF and have their docetaxel dose reduced to 60 mg/m².

However, in clinical practice neutropenia could occur earlier. Thus the use of G-CSF should be

considered a function of the neutropenic risk of the patient and current recommendations. Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

In combination with cisplatin

For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-hematologic toxicities, the docetaxel dosage in subsequent cycles should be reduced to 65 mg/m² for subsequent cycles. If toxicity persists, further reduction to a docetaxel dose of 50 mg/m² is recommended.

In combination with cisplatin and 5-fluorouracil

If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level >1,500 cells/mm³ and platelets recover to a level >100,000 cells/mm³. Discontinue treatment if these toxicities persist.

Recommended dose modifications for gastrointestinal toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU)

| Toxicity | Dosage adjustment |
|------------------------------|---|
| Diarrhoea grade 3 | First episode: reduce 5-FU dose by 20% |
| | |
| | Second episode: then reduced docetaxel dose by 20% |
| Diarrhoea grade 4 | First episode: reduce docetaxel and 5-FU doses by 20% |
| | |
| | Second episode: discontinue treatment. |
| Stomatitis/mucositis grade 3 | First episode: reduce 5-FU dose by 20% |
| | Second episode: stop 5-FU only, at all subsequent cycles. |
| | |
| | Third episode: reduce docetaxel dose by 20% |
| Stomatitis/mucositis grade 4 | First episode: stop 5-FU only, at all subsequent cycles. |
| | |

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| Toxicity | Dosage adjustment |
|----------|--|
| | Second episode: reduce docetaxel dose by 20% |

In the pivotal trial in patients who received an induction treatment with docetaxel for inoperable locally advanced squamous SCCHN and who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage in all subsequent cycles.

Special populations:

Patients with hepatic impairment: Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT 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, should not receive docetaxel.

Children and adolescents: The experience in children and adolescents is limited.

<u>Elderly</u>: Certain toxicities associated with docetaxel therapy may occur more frequently and with greater severity in geriatric patients. Because of greater frequency of decreased hepatic, renal and/or cardiac function and of concomitant disease and drug therapy observed in the elderly, caution is advised in dose selection for geriatric patients.

Preparation of the final dilution for infusion

- Aseptically withdraw the required amount of initial solution (docetaxel 10 mg/ml) with a calibrated syringe and inject into a 250 ml infusion bag or bottle of either sodium chloride 0.9% solution or dextrose 5% solution to produce a final concentration of 0.3 to 0.74 mg/ml. If a dose greater than docetaxel 200 mg is required, use a larger volume of the infusion vehicle so that a concentration of docetaxel 0.74 mg/ml is not exceeded. Thoroughly mix the infusion by manual rotation.
- Visually inspect docetaxel for particulate matter of discoloration prior to administration
 whenever the solution and container permit. If the final dilution for infusion is not clear or
 appears to have precipitation, discard the dilution.
- Administer the final docetaxel solution for Infusion IV as a 1-hour infusion under ambient room temperature and lighting conditions.

12. OVERDOSAGE

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Symptoms

There were two reports of overdose. One patient received docetaxel 150 mg/m² and the other

received docetaxel 200 mg/m² as a one-hour infusion. They both recovered after experiencing

severe neutropenia, mild asthenia, cutaneous reactions and mild paraesthesia.

Treatment

In case of overdosage, the patient should be kept in a specialised unit and vital functions closely

monitored. Exacerbation of adverse events may be expected. There is no known antidote for

docetaxel overdosage. The primary anticipated complications of overdosage would consist of

bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should receive

therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate

symptomatic measures should be taken, as needed.

13. PRESENTATION AND STORAGE CONDITIONS

Presentation

Docetaxel Injection is a sterile clear, colourless to pale yellow solution free from visible

particulates. Docetaxel Injection is available in 20 mg/2 ml and 80 mg/8 ml single dose clear glass

vials with elastomeric stoppers, aluminium seals and flip off caps. Each presentation must be

diluted prior to intravenous administration. Use in one patient on one occasion only.

2 ml and 8 ml in a vial (Type I clear glass)

Pack size: 1 x 2 ml, 1 x 8 ml

Storage

Store below 25°C

Keep the vial in the outer carton in order to protect from light.

Warning (based on the Ministry of Public Health's Announcement)

This drug may cause serious harm, should be used under the supervision of a physician.

14. MANUFACTURER

Zydus Hospira Oncology Private Limited (ZHOPL)

Plot 3, Pharmez-Special Economic Zone, Sarkhej Bavla Highway (N.H. No.8A), Ahmedabad-

382213, Gujarat, India

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15. MARKETING AUTHORISATION HOLDER

Pfizer (Thailand) Limited

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Country: Thailand