

DOCEtaxel 75mg/m² –Prednisolone Combination Therapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	*Reimbursement Status
In combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer	C61	00546a	Hospital

**If the reimbursement status is not defined, the indication has yet to be assessed through the formal HSE reimbursement process.*

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Treatment administered every 21 days, until disease progression or unacceptable toxicity develops

Day	Drug	Dose	Route	Diluent & Rate	Cycle
1	DOCEtaxel	75mg/m ²	IV infusion	*250ml 0.9% sodium chloride over 60min	Repeat every 21 days
1-21 inclusive	Prednisolone	10mg**	PO	n/a	Repeat every 21 days
*75-185mg dose use 250mL infusion bag. For doses > 185mg use 500mL infusion bag Use non-PVC equipment					
** The dose of prednisolone is either 5mg orally twice daily or 10mg once daily					

ELIGIBILITY:

- Indications as above
- ECOG 0-2

EXCLUSIONS:

- Hypersensitivity to DOCEtaxel or to any of the excipients
- Severe liver impairment
- Baseline neutrophil count < 1.5 x 10⁹ cells/L

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist.

TESTS:

Baseline tests:

- FBC, renal and liver profile

Regular tests:

- FBC, renal and liver profile*
*See Adverse Effects/Regimen specific complications for guidelines regarding hepatic dysfunction

NCCP Regimen: DOCEtaxel75_prednisolone combination therapy	Published: 28/01/2019 Review: 05/02/2021	Version number:1
Tumour Group: Genitourinary NCCP Regimen Code: 00546	ISMO Contributor: Prof Maccon Keane	Page 1 of 4
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Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant

Haematological:

Table 1: Dose modification of DOCEtaxel for haematological toxicity

ANC ($\times 10^9/L$)	Dose
≥ 1.5	75mg/m ²
0.5 to less than 1.5	Delay treatment until recovery
Febrile neutropenia or <0.5 for more than 1 week	Reduce dose from 75 to 60mg/m ² . Discontinue treatment if continues at lower dose.

Renal and Hepatic Impairment:

No data available in patients with severely impaired renal function

Table 2 : Dose modification of DOCEtaxel in hepatic impairment.

Alkaline Phosphatase		AST and/or ALT		Serum Bilirubin	Dose
> 2.5 ULN	and	> 1.5 ULN			75 mg/m ²
> 6 ULN	and/or	> 3.5 ULN (AST and ALT)	and	$> ULN$	Stop treatment unless strictly indicated and should be discussed with a Consultant.

Management of adverse events:

Table 3: Dose modification schedule based on adverse events

Adverse reactions	Recommended dose modification
Grade 3 skin reaction	Decrease dose to 60mg/m ²
Grade >2 peripheral neuropathy	If the patient continues to experience these reactions at 60 mg/m ² , the treatment should be discontinued
Grade 3 or 4 stomatitis	

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL: Low (Refer to local policy).

PREMEDICATIONS:

- Premedicate with oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the DOCEtaxel infusion.
- Consideration may be given, at the discretion of the prescribing consultant, to the use of a single dose of dexamethasone 20mg IV immediately before chemotherapy where patients have missed taking the oral premedication dexamethasone as recommended by the manufacturer**

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OTHER SUPPORTIVE CARE:

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

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

- **Fluid Retention:** Dexamethasone premedication must be given to reduce the incidence and severity of fluid retention. It can also reduce the severity of the hypersensitivity reaction.
- **Neutropenic Enterocolitis:** A number of cases of neutropenic enterocolitis have been reported in patients treated with DOCEtaxel in France (5). This is a known and rare side effect of DOCEtaxel which may affect up to one in 1,000 people)
- **Hypersensitivity Reactions:** Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of DOCEtaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localized cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of DOCEtaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with DOCEtaxel.
- **Extravasation:** DOCEtaxel causes pain and tissue necrosis if extravasated. (Refer to local extravasation guidelines).
- **Neutropenia:** Most frequent adverse reaction. Fever or other evidence of infection must be assessed promptly and treated aggressively. DOCEtaxel should be administered when the neutrophil count is $> 1.5 \times 10^9$ cells/L.
- **Hepatic Dysfunction:** DOCEtaxel undergoes hepatic metabolism. Hepatic dysfunction (particularly elevated AST) may lead to increased toxicity and usually requires a dose reduction

DRUG INTERACTIONS:

- Risk of drug interactions causing increased concentrations of DOCEtaxel with CYP3A inhibitors. Patients should also be counselled with regard to consumption of grapefruit juice.
- Risk of drug interactions causing decreased concentrations of DOCEtaxel with CYP3A inducers.
- Current drug interaction databases should be consulted for more information.

ATC CODE:

DOCEtaxel - L01CD02

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3. Tannock IF, de Wit R, Berry WR, et al. DOCEtaxel plus prednisone or mitoxantrone plus prednisone for advanced prostate cancer. N Engl J Med 2004;351(15):1502-12.
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Version	Date	Amendment	Approved By
1	29/11/2018		Dr Maccon Keane

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

ⁱ ODMS – Oncology Drug Management System

CDS – Community Drug Schemes (CDS) including the High Tech arrangements of the PCRS community drug schemes

Further details on the Cancer Drug Management Programme is available at;

<http://www.hse.ie/eng/services/list/5/cancer/profinfo/medonc/cdmp/>

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