

## DOCETaxel (75), CISplatin (100) and 5-Fluorouracil (1000) Chemoradiation (Induction) Therapy (TCF)

### INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
Induction treatment of patients with locally advanced Stage III or IV non-metastatic squamous cell carcinoma of the head and neck	C76	00323a	Hospital

### 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 patient's individual clinical circumstances.

<b>Induction Chemotherapy</b>	DOCETaxel and CISplatin are administered on day 1 and 5-Fluorouracil is administered on days 1-4 of a <b>21</b> day cycle for 3 cycles unless disease progression or unacceptable toxicity develops (Ref Treatment Table 1).
<b>Chemoradiation</b> In patients who do not have progressive disease and with adequate bone marrow function	CARBOplatin AUC 1.5 weekly concomitantly with radiotherapy for 7 weeks to start 3 to 8 weeks (day 22 to day 56) following start of third cycle of induction chemotherapy (Reference NCCP Regimen 00322 CARBOplatin (AUC1.5) Chemoradiation Therapy-7 days).
<b>Surgery</b> is then considered after completion of chemoradiation.	

Facilities to treat anaphylaxis MUST be present when the systemic anti-cancer therapy (SACT) is administered on Day 1.

**Table 1: Treatment Table for Induction Chemotherapy with DOCETaxel, CISplatin and 5-Fluorouracil**

Admin. Order	Day	Drug	Dose	Route and Method of Administration	Diluent & Rate	Cycle
1	1	DOCETaxel	75mg/m <sup>2</sup>	IV infusion	<sup>a</sup> 250ml 0.9% NaCl over 60min	Every 21 days for 3 cycles
2	1	<sup>b</sup> CISplatin	100mg/m <sup>2</sup>	IV infusion	1000ml 0.9% NaCl over 2 hours	Every 21 days for 3 cycles
3	1-4	5-Fluorouracil <sup>c</sup>	1000mg/m <sup>2</sup> /day	Continuous IV infusion	<sup>d</sup> Over 96 hours in 0.9% NaCl	Every 21 days for 3 cycles

<sup>a</sup>75-185mg dose use 250mL infusion bag. For doses > 185mg use 500mL infusion bag  
Use non-PVC infusion bag.

**<sup>b</sup>Pre and post hydration therapy required for CISplatin**

See local hospital policy recommendations.

Suggested **pre hydration** for CISplatin therapy:

- Administer 10mmol magnesium sulphate (MgSO<sub>4</sub>) (+/-KCl 10-20mmol/L if indicated) in 1000 mL sodium chloride 0.9% over 60 minutes.

Administer CISplatin as described above.

**Post hydration:** Administer 1000 ml 0.9% NaCl over 60mins.

Mannitol 10% may be used as per local policy to induce diuresis, although there is no conclusive evidence that this is required. The routine use of furosemide to increase urine flow is not recommended unless there is evidence of fluid overload (4, 5).

<sup>c</sup>See dose modifications section for patients with identified partial dihydropyrimidine dehydrogenase (DPD) deficiency

<sup>d</sup>Alternatively can be administered at 1000mg/m<sup>2</sup> in 1000ml 0.9% NaCl as an intravenous infusion over 22 hours on days 1-4 for a total dose of 4000mg/m<sup>2</sup> over 96 hours.

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## ELIGIBILITY:

- Indications as above
- Life expectancy > 3months
- ECOG status 0-1
- Adequate organ function; ANC > 1.5 x10<sup>9</sup> cells/L, platelets 100 x10<sup>9</sup>/L

## EXCLUSIONS:

- Hypersensitivity to DOCetaxel, CISplatin, 5-Fluorouracil or any of the excipients
- Pregnancy
- Lactation
- Pre-existing neuropathies ≥ grade 2
- Severe liver impairment
- Moderate/severe renal impairment (creatinine clearance < 60 mL/min)
- Significant hearing impairment/tinnitus
- Known complete dihydropyrimidine dehydrogenase (DPD) deficiency

## PRESCRIPTIVE AUTHORITY:

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

## TESTS:

### Baseline tests:

- FBC, renal and liver profile
- ECG (if patient has compromised cardiac function)
- Audiology and creatinine clearance if clinically indicated
- DPD testing prior to first treatment with 5-Fluorouracil using phenotype and/or genotype testing unless patient has been previously tested

### Regular tests:

- FBC, renal and liver profile\* before each cycle

\*See Adverse Effects/Regimen specific complications for guidelines regarding hepatic dysfunction with DOCetaxel

### 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:

- Consider a reduced starting dose in patients with identified partial DPD deficiency
  - Initial dose reduction may impact the efficacy of treatment
  - In the absence of serious toxicity, subsequent doses may be increased with careful monitoring
- Any dose modification should be discussed with a Consultant

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## Haematological:

**Table 2: Dose modifications for haematological toxicity**

ANC ( $\times 10^9$ /L)		Platelets ( $\times 10^9$ /L)	Dose of DOCEtaxel
$\geq 1.5$	and	$>100$	100%
$<1.5$	or	$<100$	Delay until recovery
		$<25$	Delay until recovery and reduce DOCEtaxel dose to $60\text{mg}/\text{m}^2$
<ul style="list-style-type: none"> <li>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 <math>60\text{mg}/\text{m}^2</math>.</li> <li>If subsequent episodes of complicated neutropenia occur the DOCEtaxel dose should be reduced from 60 to <math>45\text{mg}/\text{m}^2</math>.</li> <li>In case of Grade 4 thrombocytopenia the DOCEtaxel dose should be reduced from 75 to <math>60\text{mg}/\text{m}^2</math>.</li> <li>In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (e.g. day 6-15) in all subsequent cycles.</li> </ul>			

## Renal and Hepatic Impairment:

**Table 3: Dose modification of DOCEtaxel, CISplatin and 5-Fluorouracil in renal and hepatic impairment**

Drug	Renal Impairment		Hepatic Impairment					
			Serum Bilirubin		AST and/or ALT	ALP	Dose	
DOCEtaxel	No data available in patients with severely impaired renal function				$> 1.5$ ULN	and	$> 2.5$ ULN	$75\text{mg}/\text{m}^2$
			$> \text{ULN}$	and/or	$> 3.5$ ULN (AST and ALT)	and	$> 6$ ULN	Stop treatment unless strictly indicated and should be discussed with a Consultant.
			No dose modifications for hepatic impairment					
CISplatin	Cr Cl (ml/min)	Dose	No dose modifications for hepatic impairment					
	$\geq 60$	100%						
	45-59	75%						
	$< 45$	Clinical decision. Consider using CARBOplatin						
5-Fluorouracil	Consider dose reduction in severe renal impairment only		Bilirubin (micromol/L)		AST	Dose		
			$< 85$		$< 180$	100%		
			$> 85$	or	$> 180$	Contraindicated		
			Clinical decision. Moderate hepatic impairment; reduce initial dose by 1/3. Severe hepatic impairment, reduce initial dose by 1/2. Increase dose if no toxicity.					

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**Table 4: Dose modification schedule based on adverse events**

Adverse reactions	Recommended dose modification
Grade 3 diarrhoea <ul style="list-style-type: none"> <li>1<sup>st</sup> episode</li> <li>2<sup>nd</sup> episode</li> </ul>	<ul style="list-style-type: none"> <li>Reduce 5-Fluorouracil dose by 20%</li> <li>Reduce DOCetaxel dose by 20%</li> </ul>
Grade 4 diarrhoea <ul style="list-style-type: none"> <li>1<sup>st</sup> episode</li> <li>2<sup>nd</sup> episode</li> </ul>	<ul style="list-style-type: none"> <li>Reduce DOCetaxel and 5-Fluorouracil dose by 20%</li> <li>Discontinue treatment</li> </ul>
Grade 3 stomatitis/mucositis <ul style="list-style-type: none"> <li>1<sup>st</sup> episode</li> <li>2<sup>nd</sup> episode</li> <li>3<sup>rd</sup> episode</li> </ul>	<ul style="list-style-type: none"> <li>Reduce 5-Fluorouracil dose by 20%</li> <li>Stop 5-Fluorouracil only, at all subsequent cycles</li> <li>Reduce DOCetaxel dose by 20%</li> </ul>
Grade 4 stomatitis/mucositis <ul style="list-style-type: none"> <li>1<sup>st</sup> episode</li> <li>2<sup>nd</sup> episode</li> </ul>	<ul style="list-style-type: none"> <li>Stop 5-Fluorouracil only, at all subsequent cycles</li> <li>Reduce DOCetaxel dose by 20%.</li> </ul>
Grade 3 skin reaction	Decrease dose of DOCetaxel to 60mg/m <sup>2</sup> . If the patient continues to experience these reactions at 60mg/m <sup>2</sup> , the treatment should be discontinued.
Grade >2 peripheral neuropathy	Decrease dose of DOCetaxel to 60mg/m <sup>2</sup> . If the patient continues to experience these reactions at 60mg/m <sup>2</sup> , the treatment should be discontinued. Consider dose reduction of CISplatin at discretion of prescribing consultant.
Grade ≥ 2 PPE	Delay 5-Fluorouracil until recovery to Grade ≤ 1 and reduce subsequent doses of 5-Fluorouracil by 20%.

## SUPPORTIVE CARE:

### EMETOGENIC POTENTIAL:

**DOCetaxel:** Low (Refer to local policy).

**CISplatin:** High (Refer to local policy).

**5-Fluorouracil:** Low (Refer to local policy).

### PREMEDICATIONS:

#### DOCetaxel

- Dexamethasone 8 mg PO twice daily for 3 days, starting one day prior to each DOCetaxel administration unless contraindicated. Patient must receive minimum of 3 doses pre-treatment
- 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 (6,7)**

#### CISplatin

- Hydration prior and post CISplatin administration (**Reference local policy or see recommendations above**)

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## OTHER SUPPORTIVE CARE:

Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. See comment above in dose modifications.

## ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

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

- **Neutropenia:** Most frequent adverse reaction. Fever or other evidence of infection must be assessed promptly and treated appropriately. DOCEtaxel should be administered when the neutrophil count is  $> 1.5 \times 10^9/L$ .
- **Neutropenic Enterocolitis:** A number of cases of neutropenic enterocolitis have been reported in patients treated with DOCEtaxel in France (8). This is a known and rare side effect of DOCEtaxel which may affect up to one in 1,000 people.
- **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.
- **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).
- **Hepatic Dysfunction:** DOCEtaxel undergoes hepatic metabolism. Hepatic dysfunction (particularly elevated AST) may lead to increased toxicity and usually requires a dose reduction.
- **Renal toxicity:** Renal toxicity is common with CISplatin. Encourage oral hydration.
- **Otototoxicity and sensory neural damage** should be assessed by history prior to each cycle.
- **Myocardial ischaemia and angina:** Cardiotoxicity is a serious complication during treatment with 5-Fluorouracil. Patients, especially those with a prior history of cardiac disease or other risk factors, treated with 5-Fluorouracil, should be carefully monitored during therapy.
- **DPD deficiency:** DPD is an enzyme encoded by the DPYD gene which is responsible for the breakdown of fluoropyrimidines. Patients with DPD deficiency are therefore at increased risk of fluoropyrimidine-related toxicity, including for example stomatitis, diarrhoea, mucosal inflammation, neutropenia and neurotoxicity. Treatment with 5-Fluorouracil, capecitabine or tegafur-containing medicinal products is contraindicated in patients with known complete DPD deficiency. Consider a reduced starting dose in patients with identified partial DPD deficiency. Initial dose reduction may impact the efficacy of treatment. In the absence of serious toxicity, subsequent doses may be increased with careful monitoring. Therapeutic drug monitoring (TDM) of 5-Fluorouracil may improve clinical outcomes in patients receiving continuous 5-Fluorouracil infusions.
- **Hand-foot syndrome (HFS),** also known as palmar-plantar erythrodysesthesia (PPE) has been reported as an unusual complication of high dose bolus or protracted continuous therapy for 5-Fluorouracil.

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## 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.
- Avoid concurrent use of CISplatin with nephrotoxic drugs (e.g. aminoglycosides, furosemide, NSAIDS) due to additive nephrotoxicity. If necessary, monitor renal function closely..
- Marked elevations of prothrombin time and INR have been reported in patients stabilized on warfarin therapy following initiation of 5-Fluorouracil regimens.
- Concurrent administration of 5-Fluorouracil and phenytoin may result in increased serum levels of phenytoin.
- Caution should be taken when using 5-Fluorouracil in conjunction with medications which may affect DPD activity. Current drug interaction databases should be consulted for more information.

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Version	Date	Amendment	Approved By
1	03/05/2016		Prof Maccon Keane
2	02/05/2018	Updated with revised CISplatin hydration regimen recommendations, dosing in renal impairment updated re neutropenic enterocolitis	Prof Maccon Keane
3	09/10/2019	Updated exclusion criteria Amended recommended dose modification for haematological toxicity	Prof Maccon Keane
4	13/05/2020	Updated exclusion criteria Dosing in renal and hepatic impairment for DOCEtaxel updated	Prof Maccon Keane
5	24/8/2020	Updated exclusion criteria, baseline testing, dose modifications and adverse events with respect to DPD deficiency as per DHPC from HPRA June 2020 Updated Adverse events regarding palmar-plantar erythrodysesthesia	Prof Maccon Keane
6	09/09/2021	Clarification of requirement for non-PVC infusion bag only	Prof Maccon Keane
7	21/12/2021	Updated 5-Fluorouracil infusion information to include use of 96hr pump. Updated emetogenic potential.	Prof Maccon Keane
7a	21/11/2023	Formatting changes and grammatical corrections.	NCCP

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