

# **PACLITAXEL CARBOPLATIN with concurrent RT**

## **INDICATION (ICD10) C15**

1. Oesophageal cancer chemo radiotherapy (unlicensed). PS 0, 1 or 2

#### REGIMEN

### Drugs can be given in any order

Days 1, 8, 15, 22 and 29

Premedication 30 minutes prior to infusion:

Dexamethasone 8mg IV bolus

H<sub>2</sub> antagonist

Chlorphenamine 10 mg IV bolus

PACLITAXEL 50mg/m<sup>2</sup> in 250ml sodium chloride 0.9% IV infusion over 60 minutes

CARBOPLATIN AUC 2 in 500ml glucose 5% IV infusion over 30 minutes

Dose calculated by EDTA GFR or calculated (CrCl + 25) x AUC.

Maximum dose when using CrCl 125+25 x AUC

### CYCLE FREQUENCY AND NUMBER OF CYCLES

One cycle

### **ANTI-EMETICS**

Moderate risk days 1, 8, 15, 22 and 29

#### **CONCURRENT MEDICATION REQUIRED**

Carboplatin	Anaphylaxis treatment should be prescribed if the patient has had an
	anaphylactic episode previously.
	Dexamethasone 20mg IV bolus
	Chlorphenamine 10mg IV bolus
	H <sub>2</sub> antagonist
	Carboplatin should be given at a slower rate e.g. 2-4 hours.
Paclitaxel	Ensure premedication given before paclitaxel

#### **EXTRAVASATION AND TYPE OF LINE / FILTERS**

Carboplatin - irritant Paclitaxel – vesicant

Administer paclitaxel via polyethylene lined administration set with ≤0.22micron filter Central or peripheral line

#### **INVESTIGATIONS**

Blood results required before SACT administration

FBC, U&E and LFTs, creatinine every dose

Neutrophils x 10<sup>9</sup>/L ≥1.5 (1-1.5 discuss with consultant)

Platelets x 10<sup>9</sup>/L ≥100 (75-100 discuss with consultant)

GFR assessed using EDTA result or calculated creatinine clearance at the Consultant's discretion.

Baseline weight and every cycle

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#### MAIN TOXICITES AND ADVERSE REACTIONS

Carboplatin	Ototoxicity – monitor
	Neurotoxicity - monitor
Paclitaxel	(2% risk of severe hypersensitivity)
	Reactions range from mild hypotension (light-headedness) to full cardiac
	collapse (anaphylactic shock).
	Discontinue infusion and resuscitate appropriate to reaction. If reaction is
	mild and settles promptly (i.e. within 5-10 minutes), cautiously restart at a
	slower rate under close supervision. If further reactions occur stop treatment.

# INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

Paclitaxel	DOACs to be used with caution, need dose modifications or to be avoided		
	eg apixaban.		
	Clopidogrel interacts with paclitaxel, potentially increasing the concentration		
	of paclitaxel.		
	Paclitaxel is catalysed, by cytochrome P450 isoenzymes CYP2C8 and		
	CYP3A4.		
	inhibitors (e.g. erythromycin, fluoxetine, gemfibrozil) use with caution.		
	inducers (e.g. rifampicin, carbamazepine, phenytoin, phenobarbital,		
	efavirenz, nevirapine) use with caution.		

#### **DOSE MODIFICATIONS**

# Haematological

Omit if neutrophil count <1.5x10<sup>9</sup>/L and / or platelet count is <100x10<sup>9</sup>/L on day of chemotherapy.

# Non-haematological

If patient complains of tinnitus, tingling of fingers and/or toes or motor weakness discuss with Consultant or Registrar before administration

If grade ≥2 neuropathy, consider giving 75% paclitaxel dose

If grade >3 peripheral neuropathy is >grade 3 omit further paclitaxel

# **Hepatic impairment**

Paclitaxel

In the absence of Gilbert's syndrome:

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Transaminase <10xULN and	no dose reduction		
bilirubin ≤1.25xULN			
Transaminase <10xULN and	give 77% of original dose		
bilirubin 1.26-2xULN			
Transaminase <10xULN and	give 51% of original dose		
bilirubin 2·01-5xULN			
Transaminase ≥10xULN or bilirubin >5xULN	contraindicated		

## Renal impairment

Carboplatin

GFR/ calculated CrCl ≤20ml/min or ≤30ml/min with pre-existing severe renal	contraindicated
impairment	

### **REFERENCES**

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