

**Systemic Anti-Cancer Treatment Protocol**

**Carboplatin and Paclitaxel  
(chemoradiation)**

**PROTOCOL REF: MPHACAPAGI  
(Version No: 1.0)**

**Approved for use in**

First line concomitant treatment for resectable oesophageal cancer as preoperative treatment as per CROSS trial inclusion criteria.

**Dosage**

Drug	Dosage	Route	Frequency
Paclitaxel	50mg/m <sup>2</sup>	IV	Weekly for 5 weeks
Carboplatin	AUC 2	IV	Weekly for 5 weeks

**Calvert formula for Carboplatin dosage**

Carboplatin dose in mg = AUC x (creatinine clearance + 25)

If estimated GFR is used the **Wright formula** must be used for creatinine clearance.

Creatinine clearance should be capped at 125mL/min for carboplatin

Avoid the use of Cockcroft and Gault formulae as it is less accurate.

**Supportive Treatments:**

Domperidone tablets 10mg three times a day as required

## Extravasation risk

### Carboplatin

IRRITANT – refer to trust/network extravasation policy

### Paclitaxel

VESICANT – refer to trust/network extravasation policy – specific treatment may apply

## Administration

Paclitaxel must be administered using a non-PVC giving set with a 0.22 micron filter.

Day	Drug	Dose	Route	Diluent and rate
1	Chlorphenamine	10mg	IV Infusion	30 minutes prior to paclitaxel
1	Dexamethasone	8mg	IV Infusion	30 minutes prior to paclitaxel
1	Ranitidine	50mg	IV Infusion	30 minutes prior to paclitaxel
1	Ondansetron	8mg	Orally	30 minutes prior to paclitaxel
1	<b>Paclitaxel</b>	<b>50mg/m<sup>2</sup></b>	<b>IV Infusion</b>	<b>250 to 500mL Sodium Chloride 0.9% over 60 minutes</b>
1	<b>Carboplatin</b>	<b>AUC 2</b>	<b>IV Infusion</b>	<b>500mL Glucose 5% over 30 to 60 minutes</b>

**Cycle is repeated every 7 days for 5 weeks in total**

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## Main Toxicities

Paclitaxel
<p>Anaphylactic reactions: Dyspnoea and hypotension, angioedema and urticaria In the case of severe hypersensitivity reactions, paclitaxel infusion should be discontinued immediately, symptomatic therapy should be initiated.</p> <p>Diarrhoea, vomiting, nausea, mucositis, peripheral neuropathy, alopecia, transient and mild nail and skin changes, raised bilirubin, AST and/or alkaline phosphatase, neutropenia, anaemia, thrombocytopenia</p>
Carboplatin
<p>Risk of hypersensitivity and anaphylaxis may increase with previous exposure to platinum therapy</p> <p>Nausea, vomiting, diarrhoea, constipation, mucositis, renal function impairment, decreases in serum electrolytes (sodium, magnesium, potassium and calcium), hyperuricaemia, malaise, flu-like syndrome, rash, pruritus, alopecia, neutropenia, anaemia, thrombocytopenia, abnormalities of liver function tests, paraesthesia and decreased deep tendon reflexes, hearing loss</p>

## Investigations and Treatment Plan

	Pre	Week 1	Week 2	Week 3	Week 4	Week 5	Ongoing
Medical Assessment	X	X	X	X	X	X	Every treatment
Nursing Assessment		X	X	X	X	X	Every treatment
FBC	X	X	X	X	X	X	Every treatment
U&E & LFT	X	X	X	X	X	X	Every treatment
Informed Consent	X						
PS recorded	X	X	X	X	X	X	Every treatment
Toxicities documented	X	X	X	X	X	X	Every treatment
Weight recorded	X	X	X	X	X	X	Every treatment

## Dose Modifications and Toxicity Management

### Haematological Toxicity

Proceed with day 1 if:

Platelets $\geq 75 \times 10^9/L$	ANC $\geq 1.0 \times 10^9/L$
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Omit treatment on day 1 if:

Platelets $\leq 74 \times 10^9/L$	ANC $\leq 0.99 \times 10^9/L$
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### Hepatic Impairment

#### Paclitaxel

Paclitaxel is not recommended in patients with severely impaired hepatic function

#### Carboplatin

No adjustments required

### Renal Impairment

#### Paclitaxel

No adjustments required

#### Carboplatin

Review serum creatinine result at each cycle, if this has changed then recalculate clearance using Wright formula and amend the carboplatin dose if there will be a 10% difference. Carboplatin is contraindicated if glomerular filtration rate is  $\leq 20$  ml/min.

## References:

Neo-adjuvant chemoradiotherapy plus surgery versus surgery alone for oesophageal or junctional cancer (CROSS): long-term results of a randomised controlled trial. *Lancet Oncol.* 2015; 16 (9): 1090-8

Carboplatin 10 mg/ml concentrate for solution for infusion.

Summary of Product Characteristics. Accord Healthcare Ltd, Middlesex 09/11/2012.

Available from [www.medicines.org.uk/emc/medicine](http://www.medicines.org.uk/emc/medicine) last updated 26/02/2014

Paclitaxel 6 mg/ml concentrate for solution for infusion.

Summary of Product Characteristics. Hospira UK Ltd, Warwickshire 12/2016.

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Dosage Adjustment for Cytotoxics in Renal and Hepatic Impairment. University College London Hospital NHS Foundation Trust January 2009.

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