

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

Chlorphenamine 10 mg IV bolus

PACLITAXEL 50mg/m² in #ml sodium chloride 0.9% IV infusion over 60 minutes

CARBOPLATIN AUC 2 in #ml 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

diluent and diluent volume for dose prescribed as per national standardised product specification

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 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 10⁹/L ≥1.5 (1-1.5 discuss with consultant)

Platelets x 10⁹/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

MAIN TOXICITIES 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.
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DOSE MODIFICATIONS

Haematological

Omit if neutrophil count $<1.5 \times 10^9/L$ and / or platelet count is $<100 \times 10^9/L$ on day of chemotherapy.

Non-haematological

Paclitaxel

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:

Transaminase $<10 \times ULN$ and bilirubin $\leq 1.25 \times ULN$	no dose reduction
Transaminase $<10 \times ULN$ and bilirubin 1.26-2xULN	give 77% of original dose
Transaminase $<10 \times ULN$ and bilirubin 2.01-5xULN	give 51% of original dose
Transaminase $\geq 10 \times ULN$ or bilirubin $>5 \times ULN$	contraindicated

Renal impairment

Carboplatin

GFR/ calculated CrCl $\leq 20 \text{ml/min}$ or $\leq 30 \text{ml/min}$ with pre-existing severe renal impairment	contraindicated
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REFERENCES

1. NeoSCOPE trial