Vinorelbine/Cisplatin concurrent

INDICATION: Non-small cell lung cancer Stage III with concurrent thoracic radiotherapy

Prior to a course of chemotherapy

- Baseline bloods: FBC, U&E, LFT, Ca, Mg
- Creatinine clearance ≥ 60ml/min
- CT thorax
- If appropriate discuss need for contraception and risk of infertility (offer sperm banking for males)
- Written informed consent for course

Weekly

- FBC, U&E, LFT, Ca, Mg
- Creatinine clearance≥ 50ml/min (before final week of Cisplatin)
- Medical review

Vinorelbine	**15mg/m2***	**Over 5 min IV in 50ml 0.9% NaCl**	**Day 1,8,19,26 (Fraction 1,6,15,20)**
Cisplatin	**20mg/m2**	**1 litre sodium chloride 0.9% with potassium chloride 20mmol and magnesium sulphate 10mmol over 2 hours** **1 litre sodium chloride 0.9% over 4 hours** **500ml sodium chloride with potassium chloride 10mmol and magnesium sulphate 5mmol over 1 hour**	**Day 1-4 and 22-25 (Fraction 1-4 and 16-19)**

Radiotherapy has to start within 6 hours of Cisplatin infusion

Treatment should start on a Monday

Maintain Hb > 12g/dl throughout treatment

Dose modification for haematological toxicity

• **Neutrophils > 1.5 AND Platelets > 100**	**Proceed with full dose**
• **Neutrophils 0.8-1.5 OR Platelets 60-100**	**Omit Vinorelbine, full dose Cisplatin**
• **Neutrophils < 0.8 OR Platelets <60**	**Omit chemo**

Dose modification for hepatic toxicity

• **AST/ALT up to 5 x ULN, Bilirubin < 1.5xULN**	**Full dose**
• **AST/ALT 5.1-20 x ULN, Bilirubin 1.5-3 x ULN**	**Defer Vinorelbine by 1 week, full dose Cisplatin**
• **AST/ALT > 20xULN, Bilirubin > 3ULN**	**Discontinue Vinorelbine, continue Cisplatin if clinically indicated (and renal function adequate)**

Dose modification for neurological toxicity

• **NCI grade 0-1**	**Proceed with full dose**
• **NCI grade 2+**	**Defer until recovery, then replace Cisplatin with Carboplatin AUC5**
Dose modification for renal toxicity	
• **Creatinine clearance >60ml/min**	**Full dose**
• **Creatinine clearance 50-59 ml/min**	**Full dose Vinorelbine, 75% dose Cisplatin**
• **Creatinine clearance <50ml/min**	**Full dose Vinorelbine, replace Cisplatin with Carboplatin AUC5 (day 23 only)**

Expected toxicities	
Neutropenic sepsis & thrombocytopenia	**Nausea & vomiting (severe)**
Constipation	**Peripheral neuropathy**
Alopecia	**Mucositis**
Tinnitus	**Oesophagitis**

This protocol has been reviewed by the Lancashire & South Cumbria Lung Oncology Consultants' Group and responsibility for the template lies with the Head of Service.

Date: **August 2019**
Next review: **August 2021**