North West Coast
Strategic Clinical Networks

Carboplatin gemcitabine

INDICATION:

Non-small cell lung cancer Stage III/IV

Advanced breast cancer

Prior to a course of chemotherapy

- Baseline bloods: FBC, U&E, LFT, Ca
- Creatinine clearance (calculated Cockcroft-Gault formula*)
- CT thorax
- Histological/cytological confirmation
- If appropriate discuss need for contraception and risk of infertility (offer sperm banking for males)
- Written informed consent for course

Prior to each cycle

- FBC, U&E, LFT, Ca
- CXR
- Creatinine clearance (calculated with Cockcroft-Gault formula*)
- Medical review
- Cockcroft-Gault formula

Female $\frac{(140 - \text{age[yrs]}) \times \text{wt[kg]} \times 1.04}{\text{Serum creatinine [micromol/l]}}$

Male $\frac{(140 - \text{age[yrs]}) \times \text{wt[kg]} \times 1.23}{\text{Serum creatinine [micromol/l]}}$

Gemcitabine	**1250mg/m^2**	**Over 30 min in 250ml N/Saline**	**day 1 and 8**
Carboplatin**	**AUC 5***	**Over 1 hour in 500 ml Dextrose 5%**	**Day 1**
Repeat every 21 days for up to 4 cycles			
***AUC 5 calculated according to Calvert formula (Creatinine Clearance + 25) x 5**			

Dose modification for haematological toxicity

DAY 1

• Neutrophils > 1.5 AND Plat>100	Proceed with full dose
• Neutrophils 1.0-1.5	Discuss with consultant
• Neutrophils < 1.0 AND/OR platelets < 100	Defer 1 week

DAY 8

• Neutrophils > 1.0 and/or platelets >100	Proceed with full dose
• Neutrophils < 1.0 and/or platelets <100	Defer

If there has been a dose delay reduce subsequent doses by 20%

Expected toxicities

Neutropenic sepsis & thrombocytopenia	Nausea & vomiting (severe)
Diarrhoea	Rash
Alopecia (mild)	Mucositis
Radiosensitisation – do not give RT within 10-14 days of Gemcitabine	

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: **March 2017**

Next review: **March 2019**