

Etoposide/Cisplatin

INDICATION:

Small Cell Lung Cancer Limited Stage in patients with performance status 0-1 Small Cell Carcinoma of other primary site where cure is possible

Prior to a course of chemotherapy

- Baseline bloods: FBC, U&E, LFT inc LDH, Ca
- Creatinine clearance (Cockcroft-Gault formula) ≥ 60ml/min
- CT thorax/upper abdo (or imaging other anatomic site as appropriate)
- 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 \geq 50ml/min
- Medical review

Etoposide	120mg/m ² *	In 1 litre 0.9% sodium chloride over 1 hour IV	Day 1 –3*		
		Potassium chloride 20mmol & magnesium sulphate 10mmol in 1 litre 0.9% sodium chloride over 2 hours	Day 1		
Cisplatin	80mg/m ²	In 1 litre 0.9% sodium chloride over 2 hours IV	Day 1		
		Potassium chloride 20mmol & magnesium sulphate 10mmol in 1 litre 0.9% sodium chloride over 2 hours	Day 1		
Repeat every 21 days for 4-6 cycles					
*Oral Etoposide can be used on day 2+3 at dose of 240mg/m2 (rounded to nearest 50)					
Consider antibiotic prophylaxis with Levofloxacin or Ciprofloxacin day 7-17					

Dose modification for haematological toxicity				
Neutrophils > 1.5 AND Platelets > 100	Proceed with full dose			
Neutrophils 1.0-1.5	Discuss with consultant			
• Neutrophils < 1.0 OR Platelets < 100	Defer 1 week or until recovery			
	If there has been a dose delay or an episode of neutropenic fever, consider G-CSF prophylaxis			
Dose modification for neurological toxicity				
NCI grade 0-2	Proceed with full dose			



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NCI grade 3+	Replace Cisplatin with Carboplatin AUC5 (Calvert formula)*				
Dose modification for any other toxicity (except alopecia)					
Grade 3+	Wait until recovery, then consider dose reduction for Etoposide and Cisplatin by 20%				
Expected toxicities					
Neutropenic sepsis & thrombocytop	venia Nausea & vomiting (severe)				
Tinnitus	Peripheral neuropathy				
Alopecia	Mucositis				
Special considerations:					
This treatment can be given concurrently with thoracic radiotherapy with the radiotherapy starting with cycle 2 or 3 of chemotherapy. In this case the radiotherapy should start within 6 hours of Cisplatin infusion.					
Alternatively thoracic consolidation radiotherapy will be given after completion of chemotherapy					
Patients who achieved a respons	se to chemotherapy should be considered for prophylactic cranial irradiation				
Formulae: Calvert formula: (Cl _{Cr} (ml/min) + 25) x AUC					
N.B. The Calvert formula is not considered reliable if the creatinine clearance is <40 ml/min. However, prescribing according to surface area leads to excessive doses. Therefore, even in those patients with renal impairment the Calvert formula will be used and doses modified subsequently up or down depending on blood counts.					
Cockcroft-Gault					
Female	<u>(140 – age[yrs]) x wt[kg]</u> x 1.04 Serum creatinine [micromol/l]				
Male	<u>(140 – age[yrs]) x wt[kg]</u> x 1.23 Serum creatinine [micromol/l]				

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

Date: March 2017 Next review: March 2019