



CARBOPLATIN ETOPOSIDE

INDICATION (ICD10) C34, C37, C44, C53, M-8246/3

- 1. Standard first line treatment for SCLC.
- 2. Merkel cell cancer
- 3. Neuroendocrine tumour
- 4. Advanced small cell gynaecological carcinomas PS 0, 1, 2

REGIMEN

Day 1 CARBOPLATIN AUC 5 in 500ml 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

ETOPOSIDE 100mg/m² in 1000ml* sodium chloride 0.9% IV infusion over 60 minutes 100mg/m² in 1000ml* sodium chloride 0.9% IV infusion over 60 minutes 100mg/m² in 1000ml* sodium chloride 0.9% IV infusion over 60 minutes 100mg/m² in 1000ml* sodium chloride 0.9% IV infusion over 60 minutes

*doses 48mg to 88mg in 250ml, doses 96mg to 180mg in 500ml sodium chloride 0.9%

NB Lung - days 2 and 3 can be given orally ETOPOSIDE 100mg bd but is not recommended as oral absorption is variable (it may cause reduced efficacy or severe toxicity in patients), the intravenous route is preferred, however for logistical reasons the oral route may be necessary. If days 2 and 3 are given orally the day 1 IV dose should be increased to 120mg/m². (This oral dose is not exactly equivalent but is the agreed oral dose).

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for 6 cycles (subject to tolerance and response)

ANTI-EMETICS

Moderate emetic risk day 1 Low emetic risk days 2 and 3

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		
	H ₂ antagonist		
	Carboplatin should be given at a slower rate e.g. 2-4 hours.		
GCSF	GCSF starting at least 24 hours after chemotherapy		

EXTRAVASATION AND TYPE OF LINE / FILTERS

Carboplatin – irritant Etoposide - irritant

Peripheral line





INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E and LFTs every cycle

Neutrophils x 10⁹/L ≥1.5

Platelets x 10⁹/L ≥100

Ideally EDTA GFR should be used

Creatinine clearance (GFR) calculated, at the Consultants discretion

Serum creatinine - each cycle,

Baseline weight and every cycle

MAIN TOXICITES AND ADVERSE REACTIONS

Carboplatin	Ototoxicity - monitor
	Neurotoxicity – monitor.

INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

	# /
Carboplatin	Aminoglycosides increased risk of nephrotoxicity and ototoxicity. Renal
	function should be well monitored and audiometric tests as required.
	Carboplatin can cause a decrease in phenytoin serum levels. This may
	lead to reappearance of seizures and may require an increase of
	phenytoin dosages.

DOSE MODIFICATIONS

Haematological

Neutrophil <0.5x10⁹/L for more than 5 days, or low neutrophils with fever or infection, or platelets <25x10⁹/L subsequent doses should be reduced.

Non-haematological

Any grade 3 or 4 toxicity subsequent doses should be reduced.

Hepatic impairment

Etoposide

В	ilirubin ≥50micromol/L or decreased albumin	give 50% dose

Renal impairment

Carboplatin

GFR / calculated CrCl ≤20ml/min or	contraindicated
≤30ml/min with pre-existing severe renal	
impairment	

Etoposide

CrCl >50ml/min	give 100% dose	
CrCl 15-50ml/min	give 75% dose	
CrCl <15ml/min	Further dose reduction	

REFERENCES

1. Skarlos DV et al. Ann Oncol 1994; 5: 601-607

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Carboplatin Etoposide	Lung /Skin / Rare / Gynae 🤍	Page 2 of 2	Approved: May 2022	Version
	CAG approval			5.3
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