

# BCCA Protocol Summary for Treatment of Thymoma with CISplatin and Etoposide

**Protocol Code**

*LUOTPE*

**Tumour Group**

*Lung*

**Contact Physician**

*Dr. Nevin Murray*

## ELIGIBILITY:

- First-line or salvage treatment of thymoma/thymic carcinoma

## TESTS:

- Baseline: CBC & differential, platelets, creatinine, liver function tests, bilirubin
- Before each cycle: CBC, differential, platelets, creatinine
- If clinically indicated: bilirubin

## PREMEDICATIONS:

- Antiemetic protocol for High-Moderate emetogenic chemotherapy as long as CISplatin dose is not greater than or equal to 50 mg. If CISplatin is greater than or equal to 50mg use antiemetic protocol for High emetogenic chemotherapy (see protocol SCNAUSEA)
- Hydrocortisone & diphenhydrAMINE for history of hypersensitivity to etoposide

## TREATMENT:

Drug	Dose	BCCA Administration Guideline
<b>(Drugs can be given in any sequence)</b>		
CISplatin	25 mg/m <sup>2</sup> /day x 3 days (days 1-3)	IV in <b>100 to 250 mL</b> * NS over 20 to 30 min
Etoposide	100 mg/m <sup>2</sup> /day x 3 days (days 1-3)	IV in 500 mL NS over <b>45 min</b> (use non-PVC equipment)
<b>*If CISplatin dose less than or equal to 60 mg use 100 mL NS, if CISplatin dose greater than 60 mg use 250 mL NS</b>		

**In cases of CISplatin toxicity or poorly functioning patients or Age greater than75:**

DRUG	DOSE	BCCA Administration Guidelines
CARBOplatin	AUC 5 DAY 1 only Dose = AUC x (GFR* +25)	IV in 250mL D5W over 30 minutes.

\*GFR preferably from nuclear renogram, if not possible use:

$$\text{GFR} = \frac{N \times (140 - \text{age in years}) \times \text{wt (kg)}}{\text{serum creatinine (micromol/L)}} \quad N = 1.04 \text{ (women) or } 1.23 \text{ (men)}$$

The estimated GFR calculated using the Cockcroft-Gault equation should be capped at 125 mL/min when it is used to calculate the initial carboplatin dose. When a nuclear renogram is available, this clearance would take precedence.

- **Repeat every 21 days x 4-6 cycles**

**DOSE MODIFICATIONS:**

**1. Hematology:** for etoposide

ANC (X 10 <sup>9</sup> /L)		Platelets (x 10 <sup>9</sup> /L)	Dose
greater than or equal to 1.5	and	greater than or equal to 100	100%
1-1.49	or	75-99	75%
less than 1	or	less than 75	<b>Delay</b>

**2. Hepatic dysfunction:** for etoposide

Bilirubin (micromol/L)	Dose	
less than 25	100%	100 mg/m <sup>2</sup> /day x 3 days
25-50	50%	50 mg/m <sup>2</sup> /day x 3 days
51-85	25%	25 mg/m <sup>2</sup> /day x 3 days
greater than 85	<b>Delay</b>	

### 3. Renal dysfunction:

#### For CISplatin

Calculated Cr Clearance (mL/min)	Dose
greater than or equal to 60	100%
45-59	80% CISplatin or go to CARBOplatin option (if available)
less than 45	Hold CISplatin or delay with additional IV fluids or go to CARBOplatin option (if available)

#### For etoposide

Initial dose modification to 75% should be considered if creatinine clearance is less than 30 mL/min. Subsequent dosing should be based on patient tolerance and clinical effect.

#### **PRECAUTIONS:**

1. **Hypersensitivity:** Monitor infusion of etoposide for the first 15 minutes for signs of hypotension. Hypersensitivity reactions have also been reported for CISplatin. Refer to BCCA Hypersensitivity Guidelines.
2. **Extravasation:** Etoposide causes irritation if extravasated. Refer to BCCA Extravasation Guidelines.
3. **Neutropenia:** Fever or other evidence of infection must be assessed promptly and treated aggressively.
4. **Renal Toxicity:** Nephrotoxicity is common with CISplatin. Encourage oral hydration. Avoid nephrotoxic drugs such as aminoglycoside antibiotics.

**Contact Dr. Nevin Murray or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.**

Date activated: 1 Mar 2009 (replacing LUPE)

Date revised: 01 June 2011 (Infusion section revised)

#### **REFERENCES:**

1. Evans WK, Shepherd FA, Feld R, et al. VP-16 and cisplatin as first-line therapy for small-cell lung cancer. *J Clin Oncol* 1985; 3(11):1471-7.
2. Boni C, Cocconi G, Bisagni G, et al. Cisplatin and etoposide (VP-16) as a single regimen for small cell lung cancer. A phase II trial. *Cancer* 1989; 63(4):638-42.
3. Okamoto H, Watanabe K, Nishiwaki Y, et al. Phase II Study of Area Under the Plasma-Concentration-Versus-Time Curve-Based Carboplatin Plus Standard-Dose Intravenous Etoposide in Elderly Patients With Small-Cell Lung Cancer. *J Clin Oncol* 1999;17(11):3540-5.
4. Giaccone G, Ardizzoni A, Kirkpatrick A, et al. Cisplatin and etoposide combination chemotherapy for locally advanced or metastatic thymoma. A phase II study of the European Organization for Research and Treatment of Cancer Lung Cancer Cooperative Group. *J Clin Oncol* 1996; 14: 814-20.