# BC Cancer Protocol Summary Treatment of Recurrent and Metastatic Squamous Cell Cancer with Platinum and Etoposide

Protocol CodeHNAVPETumour GroupHead and NeckContact PhysicianDr. Cheryl Ho

## **ELIGIBILITY**:

- Recurrent or metastatic squamous head and neck cancer
- Fit for combination chemotherapy (ECOG 0-2)
- Adequate renal function (Cr less than 140 micromol/L)
- Normal bone marrow function
- If there is a contraindication to CISplatin (e.g. deafness, intolerance to fluid load, neuropathy), consideration should be given to using CARBOplatin.

#### TESTS:

- Baseline: CBC & Diff, creatinine, total bilirubin
- Before each cycle: CBC & Diff, creatinine
- If clinically indicated: total bilirubin

### PREMEDICATIONS:

- Antiemetic protocol for moderately emetogenic chemotherapy (see <u>SCNAUSEA</u>)
  - For CISplatin doses greater than or equal to 50 mg, or if using CARBOplatin, use antiemetic protocol for highly emetogenic chemotherapy (see <u>SCNAUSEA</u>)
- hydrocortisone and diphenhydrAMINE for history of hypersensitivity to etoposide

## TREATMENT:

CISplatin and etoposide

Drug	Dose	BC Cancer Administration Guideline
CISplatin	25 mg/m²/day x 3 days (Days 1,2,3)	IV in NS 100 to 250 mL* over 20 to 30 minutes
etoposide	100 mg/m²/day x 3 days (Days 1,2,3)	IV in NS 250 to 1000 mL over 45 minutes to 1 hour 30 minutes (use non-DEHP equipment with 0.2 micron inline filter)

<sup>\*</sup>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

Repeat every 3 weeks for 4 cycles.

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# Alternatively, CARBOplatin may be used instead of CISplatin:

Drug	Dose	BC Cancer Administration Guidelines	
CARBOplatin	AUC 5 or 6 DAY 1 only Dose = AUC <sup>†</sup> x (GFR* + 25)	IV in 100 to 250 mL NS over 30 minutes.	

<sup>&</sup>lt;sup>†</sup> determined at discretion of the attending medical oncologist.

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

The estimated GFR 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.

## **DOSE MODIFICATIONS:**

# 1. Hematological

Modify etoposide dose according to scheduled treatment day counts

ANC (x 10 <sup>9</sup> /L)		Platelets (x 10 <sup>9</sup> /L)	Dose (etoposide)
greater than or equal to 1.5	and	greater than or equal to 100	100% of full daily dose
1 to less than 1.5 or		75 to less than 100	75% of full daily dose
less than 1	or	less than 75	Delay one week *

<sup>\*</sup> Give a reduced dose according to the table for the treatment day count

# 2. Renal dysfunction

Calculated Creatinine clearance (mL/min)	Dose (CISplatin)	Dose (etoposide)
Greater than or equal to 60 mL/min	100%	100%
45 to less than 60 mL/min	75% or go to CARBOplatin option	75%
Less than 45 mL/min	Hold CISplatin or delay with additional fluids or go to CARBOplatin option	50%

<sup>\*</sup>GFR preferably from nuclear renogram, if not possible use:

3. Hepatic dysfunction

Total bilirubin (micromoL/L)	Dose (etoposide)
Less than 25	100%
25 to 50	50%
51 to 85	25%
Greater than 85	Do not administer

#### PRECAUTIONS:

- 1. **Neutropenia:** Fever or other evidence of infection must be assessed promptly and treated aggressively.
- 2. **Renal Toxicity**: Nephrotoxicity is common with CISplatin. Encourage oral hydration. Avoid nephrotoxic drugs such as aminoglycoside.

Call Dr. Cheryl Ho or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

#### References:

- 1. Osoba D, et al. Phase II study on the efficacy of weekly cisplatin-based chemotherapy in recurrent and metastatic head and neck cancer. Ann Oncol 1992;3 (Suppl.3):S57-S62.
- 2. Gedlicka C, Kornfehl J, Turhani D, et al. Salvage therapy with oral etoposide in recurrent and/or metastatic squamous cell carcinoma of the head and neck. Cancer Invest 2006;24(3):242-5.