

# BCCA Protocol Summary for Treatment of Advanced Salivary Gland Cancers with Platinum, DOXOrubicin, and Cyclophosphamide

**Protocol Code:** HNSAVPAC

**Tumour Group:** Head and Neck

**Contact Physician:** Dr. Cheryl Ho

## ELIGIBILITY:

- Recurrent or metastatic carcinoma of the salivary glands
- Adequate hematologic, hepatic, and renal function:
- ECOG performance status 0, 1 or 2.
- Protocol **NOT** to be delivered with concurrent radiotherapy.

## EXCLUSIONS:

- History of congestive heart failure

## TESTS:

- Baseline: CBC & differential, platelets, creatinine, bilirubin.
- Before each treatment: CBC & differential, platelets, creatinine.
- If clinically indicated: bilirubin.

## PREMEDICATIONS:

Antiemetic protocol for highly emetogenic chemotherapy (see protocol SCNAUSEA).

## TREATMENT:

Drug	Dose	BCCA Administration Guideline
DOXOrubicin	50 mg/m <sup>2</sup>	IV push (may be given during prehydration)
CISplatin	50 mg/m <sup>2</sup>	Prehydrate with NS 1000 mL over 1 hour, then CISplatin IV in NS 500 mL with potassium chloride 20 mEq, magnesium sulfate 1 g, mannitol 30 g over 1 hour
Cyclophosphamide	500 mg/m <sup>2</sup>	IV in NS 100 to 250* mL over 20 min to 1 hour (*use 250 mL for doses greater than 1000 mg)

- Repeat every 21 days x 6 to 8 cycles (may continue until disease progression or toxicity per physician's discretion).
- If no response after 4 cycles, discontinue treatment.

## DOSE MODIFICATIONS:

## 1. HEMATOLOGY

For cyclophosphamide and DOXOrubicin:

ANC (x 10 <sup>9</sup> /L)		Platelets (x 10 <sup>9</sup> /L)	Cyclophosphamide and DOXOrubicin Dose
greater than or equal to 1.5	and	greater than or equal to 100	100%
1 to 1.49	or	75 to 99	50%
less than 1	or	less than 75	Delay

## 2. HEPATIC DYSFUNCTION

For DOXOrubicin:

Bilirubin (micromol/L)	DOXOrubicin Dose
25 to 36	50%
greater than 36	Delay

## 3. RENAL DYSFUNCTION

For CISplatin:

Calculated Creatinine Clearance (mL/min)	CISplatin dose
greater than or equal to 60	100%
45 to 59	75% (same prehydration as full dose)
less than 45	hold CISplatin or delay with additional IV fluids

For cyclophosphamide:

Calculated Creatinine Clearance (mL/min)	Cyclophosphamide dose
greater than or equal to 10	100%
less than 10	75%

## PRECAUTIONS:

- Extravasation:** DOXOrubicin can cause pain and tissue necrosis if extravasated. Refer to BCCA Extravasation Guidelines.
- Neutropenia:** Fever or other evidence of infection must be assessed promptly and treated aggressively.

3. **Renal Toxicity:** Nephrotoxicity is common with **CISplatin**. Encourage oral hydration. Avoid nephrotoxic drugs such as aminoglycoside antibiotics. Use caution with pre-existing renal dysfunction.
4. **Cardiac Toxicity:** **DOXOrubicin** is cardiotoxic and must be used with caution, if at all, in patients with severe hypertension or cardiac dysfunction. Cardiac assessment recommended if lifelong dose of 450 mg/m<sup>2</sup> to be exceeded. Refer to the BCCA Cancer Drug Manual for more information.
5. **Neuropathy:** Dose modification or discontinuation may be required. Refer to the BCCA Cancer Drug Manual for more information.

**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.**

Date activated: 1 Feb 2012

Date revised:

**REFERENCES:**

1. Dimery IW, Legha SS, Shirinian M, et al. Fluorouracil, doxorubicin, cyclophosphamide, and cisplatin combination chemotherapy in advanced or recurrent salivary gland carcinoma. *J Clin Oncol* 1990;8(6):1056-62.
2. Licitra L. et al. cisplatin, doxorubicin and cyclophosphamide in advanced salivary gland carcinoma. A phase II trial of 22 patients. *Ann Oncol* 1996;7:640-2.