

## Cisplatin Hydration Guidelines for Outpatients

### Introduction

There is increasing demand to treat more patients as outpatients. Higher doses of cisplatin are being given in DayCare, increasing the strain on the Chemotherapy suites and pharmacy.

In order to for patients to be treated as a day case, the regimens have been modified as follows:

- The maximum dose of cisplatin to be given as an outpatient is 100mg/m<sup>2</sup>.
- If patient has a low albumin, unbound cisplatin will increase, thereby possibly increasing the toxic effect. Discuss treatment with the medical team.
- If the patient vomits within 24hours of treatment, the patient should contact the chemotherapy suite immediately.
- 80% of cisplatin is excreted within 24 hours of dose, therefore hydration should continue for this period. Ensure the patient drinks 8 glasses of water in the 24 hours post cisplatin.

The patient should be weighed prior to and post treatment (using the same scales) – if they have gained >2kg, they should be prescribed furosemide 20mg PO stat or 100mls 10% mannitol. Furosemide usage may be appropriate in patients predisposed to cardiac failure from hydration.

### Pre-hydration

**Cisplatin dose < 50mg/m<sup>2</sup>:** N/Saline in 1000ml over 1 hour.

*If another drug is being given in the regimen e.g. etoposide then this would be used as prehydration i.e. etoposide in 1000ml N/Saline.*

**Cisplatin dose  $\geq$  50mg/m<sup>2</sup>  $\leq$  75mg/m<sup>2</sup>:** N/Saline + KCl 20mmol/L in 1000mls over 1hr plus 100mls 10% mannitol (or equivalent)

**Cisplatin dose > 75mg/m<sup>2</sup>  $\leq$  100mg/m<sup>2</sup>:** N/Saline + KCl 20mmol/L in 1000mls over 1hr plus 200mls 10% mannitol (or equivalent)

All regimens will stipulate that Cisplatin should **not** be given if urine output is < 100ml/hr.

If urine output is insufficient, give 500ml N/Saline over 30mins. Consider giving further mannitol. Do not administer cisplatin until urine output is > 100ml/hr.

### Post-hydration

**Cisplatin dose < 50mg/m<sup>2</sup>:** no post-hydration, recommend oral intake of 8 glasses of water.



**Cisplatin dose  $\geq 50\text{mg}/\text{m}^2 \leq 75\text{mg}/\text{m}^2$ :** N/Saline + KCl 20mmol/L + MgSO<sub>4</sub> 10mmol/L in 1000mls over 1 hour.

**Cisplatin dose  $> 75\text{mg}/\text{m}^2 \leq 100\text{mg}/\text{m}^2$ :** N/Saline + KCl 20mmol/L + MgSO<sub>4</sub> 10mmol/L in 1000ml over 1 hour x 2. Monitor blood pressure as required.