

CISPLATIN (100) with concurrent RT

INDICATION (ICD10) C49

1. Radical treatment of squamous cell carcinoma in patients of WHO PS 0.

REGIMEN

Day 1 Prehydration
CISPLATIN 100mg/m² in 1000ml sodium chloride 0.9% IV infusion over 2 hours
Post hydration

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for 2 cycles (usually days 1 and 22 of radiotherapy 42 day cycle)

ANTI-EMETICS

High emetic risk day 1

CONCURRENT MEDICATION REQUIRED

Cisplatin	Ensure adequate pre and post hydration. If urine output is <100ml/hour or if patient gains >2kg in weight during IV administration post cisplatin give 20-40mg furosemide PO/IV.
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EXTRAVASATION AND TYPE OF LINE / FILTERS

Cisplatin – exfoliant

Filter not required
Central or peripheral line

INVESTIGATIONS

Blood results required before SACT administration
FBC, U&E, Mg⁺⁺ and LFTs every week
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
Baseline weight and every cycle

MAIN TOXICITIES AND ADVERSE REACTIONS

Cisplatin	Nephrotoxicity – ensure adequate pre and post hydration is prescribed. Ototoxicity – assess patient for tinnitus or hearing abnormalities.
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INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

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

Non-haematological

If patient complains of tinnitus, tingling of fingers and/or toes, discuss with SpR or Consultant before administration.

Renal impairment

Cisplatin

CrCl >60ml/min	give 100% dose
CrCl 50-59ml/min	give 75% dose
CrCl 40-49ml/min	give 50% dose (curative intent) not recommended (palliative intent)
CrCl <40ml/min	not recommended

REFERENCES

1. Al-Sarraf, M. et al; JCO 1998; Vol 16 (4):1310–1317
2. Szturz, P et al; Frontiers in Oncology 201