

## CISPLATIN FLUOROURACIL with concurrent RT (CF75)

### INDICATION (ICD10) C15

1. Radical treatment oesophageal carcinoma (unlicensed). PS 0, 1, 2

### REGIMEN

Day 1 Prehydration  
 CISPLATIN 75mg/m<sup>2</sup> in 1000ml sodium chloride 0.9% IV infusion over 2 hours  
 Posthydration  
 FLUOROURACIL 4000mg/m<sup>2</sup> over 96 hours via an infusor

### CYCLE FREQUENCY AND NUMBER OF CYCLES

Cycles 1 and 2 - 3 weekly

Cycles 3 and 4 – 3-4 weekly, starting concurrently with RT

### ANTI-EMETICS

Highly emetogenic day 1

Low emetogenic risk days 2, 3 and 4

### 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.
Fluorouracil	Mouth and bowel support eg_Loperamide, benzydamine mouthwash

### EXTRAVASATION AND TYPE OF LINE / FILTERS

Cisplatin – exfoliant

Fluorouracil - inflammitant

Central line

### INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E and LFTs every cycle

Neutrophils x 10<sup>9</sup>/L ≥1.5

Platelets x 10<sup>9</sup>/L ≥100

Ideally EDTA GFR should be used

Creatinine clearance (GFR) calculated, at the Consultants discretion

Serum creatinine

DPYD (dihydropyrimidine dehydrogenase) test

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.
Fluorouracil	Palmar plantar (handfoot syndrome) causing red palms and soles – treat with pyridoxine 50mg tds Diarrhoea – treat with loperamide or codeine Cardiotoxicity – monitor cardiac function (consider ECG at baseline). Special attention is advisable in treating patients with a history of heart disease, arrhythmias or angina pectoris or those who develop chest pain during treatment with fluorouracil. Stomatitis

## 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.
Fluorouracil	Cimetidine slightly increases exposure to fluorouracil Metronidazole increased toxicity Phenytoin concentration increased Warfarin

## DOSE MODIFICATIONS

### Haematological

If neutrophils  $<1.5 \times 10^9/L$  and/or the platelet count  $<100 \times 10^9/L$  delay the second course by one week, recheck blood count. Then if satisfactory ( $>1.5 \times 10^9/L$  and  $>100 \times 10^9/L$ ) give 75% dose cisplatin and fluorouracil

If not satisfactory delay by a further week and recheck blood count, if satisfactory ( $>1.5 \times 10^9/L$  and  $>100 \times 10^9/L$ ) then give 50% dose cisplatin and fluorouracil.

If still unsatisfactory after 2 week delay chemotherapy should be discontinued.

### Non-haematological

#### Cisplatin

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

### Hepatic impairment

#### Cisplatin

No need for dose adjustment

#### Fluorouracil

Significantly impaired hepatic function eg bilirubin  $>50 \mu\text{mol/L}$  may be a sign of disease progression and require cessation of, or change in, treatment.  
Always discuss deteriorating liver function with consultant.

If hepatic function is impaired, the recommended dose can be reduced to give 50% to 70% dose, but no need for dose adjustment is expected in mild and moderate (without renal impairment).

Bilirubin $>85 \mu\text{mol/L}$	not recommended
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## 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 or switch to an appropriate oxaliplatin containing regimen

### Fluorouracil

If renal function is impaired, the recommended dose can be reduced to give 50% to 70% dose, but no need for dose adjustment is expected.

## REFERENCES

1. J Clin Onc 1997; 5 (No 1): 277-284