Systemic Anti Cancer Therapy Protocol

Cisplatin and Capecitabine + XRT (SCOPE trial protocol) Oesophageal Cancer

PROTOCOL REF: MPHACCXGA (Version No: 1.0)

Approved for use in:

• Locally advanced or inoperable carcinoma of the oesophagus

Dosage:

| Drug | Dose | Route | Frequency |
|--------------|-----------------------|-------------|--|
| Cisplatin | 60 mg/m² | IV infusion | Day 1 only of a 21 day cycle |
| Capecitabine | 625 mg/m ² | Oral | Twice Daily on days 1-21 of a 21 day cycle |

Maximum 4 cycles (2 cycles concurrent with radiotherapy)

Administration and Counselling Points:

Capecitabine

- Capecitabine is available in 150mg and 500mg tablets
- Tablets should be taken 12 hours apart, morning and evening. Swallow whole with water within 30 minutes of a meal
- Continue according to the treatment plan and stop taking on the originally scheduled day. Take missed doses if remembered within 2 hours of the normal scheduled time.
 Otherwise continue with the next scheduled dose. Do not double up missed doses
- In case of swallowing difficulties the tablets may be dissolved in 200ml warm water.
 Once dissolved stir the contents with a spoon and drink immediately. Wash well and reserve the glass and spoon for chemotherapy administration only

<u>Cisplatin</u>

- Review patients fluid intake over the previous 24 hours
- Ensure renal function is calculated and checked before commencing treatment

| Issue Date: 25 th May 2021 Review Date: May 2024 | Page 1 of 7 | Protocol reference: MPHACCXGA | A |
|--|---------------------|-------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Drug | g & Therapeutics Committee | Version No: 1.0 |

THE CLATTERBRIDGE CANCER CENTRE NHS FOUNDATION TRUST

- Weigh the patient before commencing IV hydration
- Monitor fluid balance throughout treatment (input and output)

Emetogenic risk:

Severely emetogenic

Supportive treatments:

- Aprepitant 125mg one hour before chemotherapy, 80mg on days 2 and 3
- Dexamethasone 4mg twice a day for 3 days
- Domperidone 10mg three times a day when required
- Loperamide 2mg when required

Extravasation risk:

Cisplatin – *Irritant* - apply warm compress to affected area for 20 mins to disperse and dilute 4 times a day for 24-48 hours. Refer to the CCC policy for the 'Prevention and Management of Extravasation Injuries' for further information

Dosing in renal and hepatic impairment:• CrCl 50-59 ml/min: 75% of th

| Renal | Cisplatin | CrCl 50-59 ml/min: 75% of the original dose CrCl 40-49 ml/min: 50% of the original dose CrCl < 40 ml/min: not recommended (consider switching to carboplatin) |
|-------|--------------|--|
| | Capecitabine | CrCl 51-80 ml/min: no dose adjustment required CrCl 30-50 ml/min: 75% of the original dose CrCl <30 ml/min: not recommended |
| | | |
| | Cisplatin | No dose adjustments, required |

| Hepatic | Cisplatin | No dose adjustments required |
|---------|--------------|------------------------------|
| | Capecitabine | No dose adjustments required |

Interactions:

Warfarin/coumarin anti-coagulants – can increase anticoagulant effect. Avoid if possible or consider switching patient to a LMWH during treatment.

Phenytoin - Capecitabine may increase the serum concentration of phenytoin. Cisplatin may reduce the serum level of phenytoin (probably due to reduced absorption and/or increased metabolism). For patients taking phenytoin, serum levels should be monitored along with checking response to therapy and adjust the dose accordingly.

| Issue Date: 25 th May 2021 Review Date: May 2024 | Page 2 of 7 | Protocol reference: MPHACCXGA | A |
|--|---------------------|-------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Drug | g & Therapeutics Committee | Version No: 1.0 |

Nephrotoxic drugs - Concomitant administration of nephrotoxic drugs (e.g. cephalosporins, aminoglycosides, or contrast media) will potentiate the toxic effect of cisplatin on the kidneys.

Loop diuretics – concomitant use with cisplatin should be approached with caution due to cumulative nephrotoxicity and ototoxicity.

Treatment schedule:

| Day | Drug | Dose | Route | Diluent and rate | | |
|------------|---|-----------------------|-------|--|--|--|
| 1 | Aprepitant | 125mg | PO | 60 mins before chemotherapy | | |
| | Dexamethasone | 12mg | PO | 30 mins before chemotherapy | | |
| | Ondansetron | 24mg | РО | 30 mins before chemotherapy | | |
| | Furosemide | 20mg | РО | Before cisplatin pre-hydration | | |
| | Sodium Chloride 0.9% 1000mLIV over 90 minutesWith 20mmol Potassium Chloride | | | | | |
| | Measure urine output volume and record If urine output averages 100mL/hour over previous 3 hours then proceed with cisplatin infusion If urine output is less than 100mL/hour the patient should be assessed and further 500mL sodium chloride 0.9% given IV over 30 minutes If urine output still not adequate contact the urology team | | | | | |
| | Cisplatin 60 mg | | IV | Sodium Chloride 0.9% 1000mL over 90 minutes | | |
| | Sodium Chloride 0.9% 1000mL With 20mmol Potassium Chloride | | | r 90 minutes | | |
| 1 to 21 | Capecitabine | 625 mg/m ² | РО | Twice a day (morning and evening) | | |

Main toxicities:

Author: Tara Callagy

Thrombocytopenia, neutropenia, anaemia, nausea, vomiting, diarrhoea, stomatitis, alopecia

| Cisplatin | | | | | |
|---|--|--|--|--|--|
| Nephrotoxicity, ototoxicity and neuropathy | | | | | |
| Capecitabine | | | | | |
| Abdominal pain, dyspepsia, rash, dry skin, pruritus, hyperpigmentation, palmer-plantar erythema, insomnia, depression, headache, dizziness. | | | | | |
| Elevated liver function tests. | | | | | |
| Cardiotoxicity (including myocardial infarction, angina and arrhythmias). | | | | | |
| ssue Date: 25 th May 2021 Review Date: May 2024 Page 3 of 7 Protocol reference: MPHACCXGA | | | | | |

Authorised by: Drug & Therapeutics Committee

Version No: 1.0

DPD deficiency – leads to severe early 5FU toxicity, affects approximately 3-6% of population, may be life threatening in up to 1% of cases.

| Issue Date: 25 th May 2021 Review Date: May 2024 | Page 4 of 7 | Protocol reference: MPHACCXG/ | A |
|--|---------------------|-------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Drug | g & Therapeutics Committee | Version No: 1.0 |

Investigations and treatment plan:

| | Pre | Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 | Ongoing |
|--|-----|------------|------------|------------|------------|--|
| Informed Consent | х | | | | | |
| Clinical Assessment | х | | | х | | As clinically indicated, prior to commencing concurrent radiotherapy or at the end of treatment |
| SACT Assessment (to include PS and toxicities) | Х | Х | х | Х | х | Every cycle |
| FBC | Х | х | х | Х | Х | Every cycle |
| U&E & LFTs & Magnesium | Х | Х | х | Х | Х | Every cycle |
| CrCl (Cockcroft and Gault) | Х | Х | Х | Х | Х | Every cycle |
| Dihydropyrimidine dehydrogenase (DPD) deficiency | Х | | | | | This test is normally only required if a patient has not had capecitabine, or fluorouracil in the past. However a consultant may still request this test if capecitabine or fluorouracil was not tolerated previously. The result must be available before administration of chemotherapy unless clear documentation from the consultant is available to the contrary. Treatment with capecitabine and fluorouracil is contraindicated in patients with known complete DPD deficiency. |
| CT scan | Х | | | | | At the end of treatment |
| ECG | Х | | | | | If clinically indicated |
| Blood pressure measurement | Х | | | | | Repeat if clinically indicated |
| Weight recorded | Х | х | х | x | х | Every cycle |
| Blood glucose | Х | | | | | Repeat if clinically indicated |
| Height | Х | | | | | |

During treatment and for a minimum of the following 6 months, appropriate measures must be taken to avoid pregnancy; this applies to patients of both sexes.

| Issue Date: 25 th May 2021 Review Date: May 2024 | Page 5 of 7 | Protocol reference: MPHACCXG/ | A |
|--|--------------------|-------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Dru | g & Therapeutics Committee | Version No: 1.0 |

Dose Modifications and Toxicity Management:

Haematological toxicity:

Proceed on day 1 if-

| ANC ≥ 1.0 x 10 ⁹ /L | Plt ≥ 100 x 10 ⁹ /L |
|--------------------------------|--------------------------------|

Delay 1 week on day 1 if-

These haematological guidelines assume that patients are well with good performance status, that other acute toxicities have resolved and the patient has not had a previous episode of neutropenic sepsis.

Non-Haematological toxicity:

| Common Toxicity Criteria | Dose changes within a treatment cycle | Dose adjustment for next cycle (% of starting dose) | | | | | |
|------------------------------|---|---|--|--|--|--|--|
| Grade 1 | Maintain dose level | Maintain dose level | | | | | |
| Grade 2 | | | | | | | |
| • 1 st appearance | | 100% | | | | | |
| 2 nd appearance | Interrupt until resolved to grade 0-1 | 75% | | | | | |
| 3 rd appearance | grade o T | 50% | | | | | |
| • 4 th appearance | Discontinue treatment | | | | | | |
| Grade 3 | | | | | | | |
| • 1 st appearance | Interrupt until resolved to | 75% | | | | | |
| 2 nd appearance | grade 0-1 | 50% | | | | | |
| 3 rd appearance | Discontinue treatment | | | | | | |
| Grade 4 | | | | | | | |
| • 1 st appearance | Discontinue permanently or If clinician deems it to be in | 50% | | | | | |
| | patients best interest to continue, interrupt until resolved to grade 0-1 | | | | | | |
| • 2 nd appearance | Discontinue treatment | | | | | | |

| lssue Date: 25 ^{ttt} May 2021 Review Date: May 2024 | Page 6 of 7 | Protocol reference: MPHACCXGA | A |
|---|--------------------|-------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Dru | g & Therapeutics Committee | Version No: 1.0 |

References:

- 1. <u>https://www.medicines.org.uk/emc</u>
- Hurt CN et al. SCOPE1: a randomised phased II/III multicentre clinical trial of definitive chemoradiation, with or without cetuximab, in carcinoma of the oesophagus. BMC Cancer 11, article number: 466 (2011)
- Krens S D, Lassche, Jansman G F G A, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment. Lancet Oncol 2019; 20: e201–08

| Issue Date: 25 th May 2021 Review Date: May 2024 | Page 7 of 7 | Protocol reference: MPHACCXG | Ą |
|--|--|------------------------------|-----------------|
| Author: Tara Callagy | Authorised by: Drug & Therapeutics Committee | | Version No: 1.0 |