

Chemotherapy Protocol

BREAST CANCER

CAPECITABINE 1250 (14 day)

Regimen

Breast Cancer – Capecitabine 1250 (14 day)

Indication

- Treatment of locally advanced or metastatic breast cancer where there has been an inadequate response to anthracycline containing therapy or when further anthracycline therapy is contra-indicated
- WHO Performance status 0, 1, 2

Toxicity

Drug	Adverse Effect		
Capecitabine	Palmar-plantar erythrodysesthesia, diarrhoea, mucositis, chest pain		

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

Monitoring

Regimen

- FBC, U&E's and LFT's prior to each cycle
- Patients with complete or partial dihydropyrimidine dehydrogenase (DPD)
 deficiency are at increased risk of severe and fatal toxicity during treatment
 with capecitabine. All patients should be tested for DPD deficiency before
 initiation (cycle 1) to minimise the risk of these reactions.

Dose Modifications

The dose modifications listed are for haematological, liver and renal function only. Dose adjustments may be necessary for other toxicities as well.

In principle all dose reductions due to adverse drug reactions should not be reescalated in subsequent cycles without consultant approval. It is also a general rule for chemotherapy that if a third dose reduction is necessary treatment should be stopped.

Please discuss all dose reductions / delays with the relevant consultant before prescribing, if appropriate. The approach may be different depending on the clinical circumstances. The following is a general guide only.



Haematological

Prior to prescribing cycle one the following treatment criteria must be met;

Criteria	Eligible Level
Neutrophil	equal to or more than 1x10 ⁹ /L
Platelets	equal to or more than 100x10 ⁹ /L

Consider blood transfusion if patient symptomatic of anaemia or has a haemoglobin of less than 8g/dL

On subsequent cycles if the counts on day one are below these criteria for neutrophil and/or platelets then delay treatment for seven days. Treatment should only be restarted when these levels are reached. The capecitabine may be resumed at the original dose or where the delay has been longer than seven days or has occurred for a second time with 80% of the original dose. If these levels are not reached despite a dose reduction consider stopping therapy.

Liver Impairment

Drug	Dose		
	(% of original dose)		
Capecitabine	There is a lack of information available. In patients with mild to moderate hepatic dysfunction due to liver metastases, 100% of the dose dose is probably acceptable.		

Renal Impairment

Drug	Creatinine Clearance (ml/min)	Dose (% of original dose)
	51-80	100%
Capecitabine	30-50	75%
	less than 30	C/I

Other

Dose reductions or interruptions in therapy are not necessary for those toxicities that are considered unlikely to be serious or life threatening. For example, alopecia, altered taste or nail changes. Dose limiting toxicities include diarrhoea, abdominal pain, emesis, stomatitis and palmar-plantar erythrodysesthesia among others. If chest pain occurs consider stopping capecitabine.

NCI-CTC Grade 2

Interrupt treatment until the toxicity resolves to NCI-CTC grade 1 or below then continue at the same dose. If the toxicity recurs for a second time again interrupt treatment until it resolves to NCI-CTC grade 1 or below then resume therapy at 75% of the original dose. If the same adverse effect develops on a third occasion once more interrupt treatment until it resolves to NCI-CTC grade 1 or below then continue at 50% of the original dose. Stop treatment if the toxicity re-appears on a fourth instance.



NCI-CTC Grade 3

Interrupt treatment until the toxicity resolves to NCI-CTC grade 1 or below then continue treatment using 75% of the original dose with prophylaxis if appropriate. If the toxicity recurs for a second time again interrupt treatment until it resolves to NCI-CTC grade 1 or below and then resume therapy at 50% of the original dose. If the same adverse effect develops on a third occasion discontinue capecitabine.

NCI-CTC Grade 4

Discontinue treatment unless the responsible consultant considers it to be in the best interest of the patient to continue at 50% of the original dose once the toxicity has resolved to NCI-CTC grade 1 or below.

When capecitabine is stopped for toxicity, the doses are omitted and not delayed.

Regimen

21 day cycle for 6 cycles

Drug	Dose	Days	Administration
Capecitabine	1250mg/m ² twice a day	1-14 incl.	Oral

Dose Information

Capecitabine will be dose banded in accordance with the national dose bands

Administration Information

- Capecitabine should start on the evening of day 1
- Capecitabine should be taken with or after food

Additional Therapy

Antiemetics

As take home medication;

- metoclopramide 10mg three times a day when required oral
- Loperamide 4mg oral after the first loose stool then 2-4mg four times a day when required for the relief of diarrhoea (maximum 16mg/24 hours).
- Mouthwashes according to local or national policy on the treatment of mucositis.
- Gastric protection with a proton pump inhibitor or H₂ antagonist may be considered in patients considered at high risk of GI ulceration or bleed.



Additional Information

- The National Patient Safety Agency alert NPSA/2008/RRR001 must be followed when prescribing, dispensing or administering oral chemotherapy.
- Ensure the total daily dose of capecitabine is divided into two doses given twelve hours apart (the first should be administered in the evening of day one of the cycle). Serious toxicity has occurred where the total daily dose has been given twice a day.
- It must be made clear to all staff, including those in the community, that this is a short course of oral chemotherapy that must not be continued.
- Patients should be assessed for suitability for oral chemotherapy prior to starting treatment.

References

1. Reichardt P, von Minckwitz G, Thuss-Patience PC et al. Multicentre phase II study or oral capecitabine ("Xeloda") in patients with metastatic breast cancer relapsing after treatment with a taxane-containing therapy. Ann Oncol 2003; 14 (8): 1227-33.



REGIMEN SUMMARY

Capecitabine 1250 (14 day)

Day One

- 1. Capecitabine 1250mg/m² twice a day for 14 days oral
- 2. Metoclopramide 10mg three times a day when required oral



DOCUMENT CONTROL

Version	Date	Amendment	Written By	Approved By
1.2	Nov 2020	Updated monitoring with DPD testing Dose banding statement updated Coding removed	Donna Kimber Pharmacy Technician	Rebecca Wills Pharmacist
1.1	August 2014	Header changed Toxicities removed Information tabulated throughout ≥ removed and written in full Hepatic and renal impairment updated Metoclopramide dose changed to 10mg Mucositis recommendation changed Disclaimer added	Donna Kimber Pharmacy Technician	Dr Debbie Wright Pharmacist
1	June 2011	None	Anna Bunch Pharmacist	Dr Ellen Copson Consultant Medical Oncologist
			Dr Debbie Wright Pharmacist	Dr Caroline Archer Consultant Medical Oncologist

This chemotherapy protocol has been developed as part of the chemotherapy electronic prescribing project. This was and remains a collaborative project that originated from the former CSCCN. These documents have been approved on behalf of the following Trusts;

Hampshire Hospitals NHS Foundation Trust NHS Isle of Wight Portsmouth Hospitals NHS Trust Salisbury Hospital NHS Foundation Trust University Hospital Southampton NHS Foundation Trust Western Sussex Hospitals NHS Foundation Trust

All actions have been taken to ensure these protocols are correct. However, no responsibility can be taken for errors which occur as a result of following these guidelines.