## **Systemic Anti Cancer Treatment Protocol**

## **CAPECITABINE**

PROTOCOL REF: MPHACOLCAP (Version No: 3.2)

Please see the Oral SACT Operational Changes during Covid-19. Amendments may include less frequent blood monitoring, telephone SACT assessments and longer durations of treatment being dispensed

This protocol has also been temporarily amended for lower GI cancer - please see the SRG Guidelines during COVID-19 Lower GI cancer regarding duration of therapy

## Approved for use in:

**Colorectal:** Adjuvant and advanced colorectal cancer

Adjuvant – completely resected biliary tract cancers

**ECOG PS 0 - 1** 

## Dosage:

Disease site	Dosage	Frequency
Colorectal - Adjuvant	1250mg/m <sup>2</sup> oral twice daily for	Repeat at 21 day intervals
_	14 days	for a maximum of 8 cycles
	Caution in elderly patients	
Advanced Colorectal	1250mg/m <sup>2</sup> oral twice daily for	Repeat at 21 day intervals
Cancer	14 days	until disease progression
	Or	
	1000mg/m <sup>2</sup> for patients over	
	70yrs	
Biliary Tract -	1250mg/m2 oral twice daily for	Repeat at 21 day intervals
Adjuvant	14 days	for a maximum of 8 cycles

Round doses to nearest whole dose using 150mg and 500mg tablets

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Supportive treatments:

Emetic Risk: Low – follow antiemetic policy

Loperamide 4mg immediately after first liquid stool followed by 2mg every 2 hours for at

least 12 hours

Domperidone 10mg oral tablets, up to 3 times a day or as required

Caution in patients with pre-existing coronary heart disease, angina pectoris,

arrhythmias or those on high dose aspirin or coumarin anticoagulants.

Administration:

Counselling points:

Tablets should be taken 12 hours apart, morning and evening.

Swallow whole with water within 30 minutes of a meal.

Do not add doses missed due to toxicity onto the end of the cycle. 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

**Drug Interactions** 

Allopurinol – reduced efficacy of capecitabine – avoid

Clozapine – additive risk of agranulocytotis

Folic acid – increased risk of side effects of capecitabine, avoid if possible – discuss with pharmacy

Phenytoin – potentially toxic levels of phenytoin have been reported- monitor carefully

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Warfarin and other coumarin anticoagulants – increased bleeding risk, monitor INR carefully, consider switch to LMWH.

## **Main Toxicities:**

Myelosuppression, diarrhoea, Palmar Plantar Erythema (PPE or hand- foot syndrome), stomatitis, fatigue, asthenia, anorexia, cardiotoxicity (uncommon), ovarian failure/infertility, increased renal dysfunction on those with preexisting compromised renal function, and thrombosis/embolism

DPD deficiency – leads to severe early fluorouracil toxicity, affects approximately 3% of population, may be life threatening

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# **Investigations:**

	Pre	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Ongoing	Last cycle
Clinical assessment	Х		Х		Х	Alternate cycles	
SACT Assessment	Х	Х	Х	Х	Х	Every cycle	Check has OPD
FBC	Х	Χ	Х	Х	Х	Every cycle	Х
U&E & LFT	Х	Χ	Х	Х	Х	Every cycle	Х
CrCl	Х	Х	Х	Х	Х	Every cycle	Х
Dihydropyrimidine dehydrogenase (DPD) deficiency test	X					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					As required if palliative	Check has date for CT
Informed Consent	Х					Verbal each cycle	
Weight recorded	Х	Х	Х	Х	Х	Every cycle	Х

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## **Dose Modifications:**

## Haematological toxicity

Proceed on day 1 if all apply:-

ANC ≥ 1.0 x 10 <sup>9</sup> /L Platelets ≥ 100 x 10 <sup>9</sup> /L
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# Non-haematological toxicity

Renal	Calculate CrCl using cycle and adjust dos	,	ault formula at baseline and before each able.
	Creatinine Cleara	nce (mL/min)	Capecitabine Dose
	>50		Give 100%
	30 to 50		Give 75%
	<30		Omit
	Cockroft and Gau	ult formula	
	Male patients		age) x weight (kg) inine (micromol/L)
	Female patients		age) x weight (kg) inine (micromol/L)

Hepatic				
	Liver function	Capecitabine dose		
	Bilirubin > 3 x ULN or ALT/AST > 2.5 x	Omit capecitabine		
	xULN			
	Note that significantly impaired hepatic function might be a sign of disease progression and require cessation or change of treatment.  Always discuss deteriorating organ function with consultant			

Diarrhoea	Loperamide at standard doses – ensure maximum dose reached, codeine may be added – see table below for dose reductions
Stomatitis	Regular mouthwashes (water, saline or non alcoholic proprietary brand), brush gently with a soft brush, adequate pain relief, nutritional support in severe cases – see below for dose reductions.

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Palmar plantar erythema (PPE) or hand foot syndrome	Manage as per trust policy, withhold treatment until resolved to grade 1, dose reductions as per table below.
Sore eyes / Conjunctivitis	Eye drops for symptomatic treatment such as hypromellose 0.3% – avoid antimicrobial eye drops unless indicated for infective conjunctivitis
Chest Pain / coronary artery spasm	Stop capecitabine, standard angina investigations, refer to consultant, if symptoms persist stop capecitabine permanently

# Capecitabine Dose adjustment guidelines according to Common Toxicity Criteria including diarrhoea, vomiting, stomatitis, and PPE

Common Toxicity Criteria	Dose changes within a treatment cycle	Dose adjustment for next cycle/dose(% of starting dose)
Grade 1	Maintain dose level	Maintain dose level
Grade 2		
-1st appearance	Interrupt until resolved to grade 0-1*	100%
-2nd appearance		75%
-3rd appearance		50%
-4th appearance	Discontinue treatment permanently	Not applicable
Grade 3		•
-1st appearance	Interrupt until resolved to grade 0-1*	75%
-2nd appearance		50%
-3rd appearance	Discontinue treatment permanently	Not applicable
Grade 4		
-1st appearance	Discontinue permanently Or If physician deems it to be in the patient's best interest to continue, interrupt until resolved to grade 0-1*	50% (consultant approval only)
-2nd appearance	Discontinue permanently	Not applicable

### References:

Electronic Medicines Compendium, Xeloda 150mg and 500mg film-coated tablets, <a href="https://www.medicines.org.uk/emc/medicine/4619">https://www.medicines.org.uk/emc/medicine/4619</a>

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Twelves C, Wong A, Nowacki MP et al. Capecitabine as Adjuvant Treatment for Stage III Colon Cancer. N Engl J Med 2005; 352:2696-2704

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