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Capecitabine

Indication

Adjuvant treatment of biliary tract cancer following surgical resection.

ICD-10 codes

Codes with a prefix C23

Regimen details

Day	Drug	Dose	Route
1-14 Capecitabine		1250mg/m ² BD*	PO

* consider reducing dose to 1000 mg/m^2 BD for patients \geq 70 years old.

Treatment should commence within 16 weeks of surgery.

Cycle frequency

21 days

Number of cycles

8 cycles

Administration

Capecitabine is available as 150mg and 500mg tablets.

Tablets should be taken twice a day, ideally 12 hours apart. They should be taken after food, within 30 minutes of a meal, and swallowed whole with a glass of water.

Pre-medication

Nil

Emetogenicity This regimen has moderate-low emetic potential

Additional supportive medication

Loperamide if required. Topical emollients to prevent palmar plantar erythema. H_2 antagonist or proton pump inhibitor if required.

Extravasation

N/A

Investigations – pre first cycle

Investigation	Validity period (or as per local policy)	
FBC	14 days	
U+E (including creatinine)	14 days	
LFTs	14 days	

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Investigations – pre subsequent cycles

Investigation	Validity period (or as per local policy)	
FBC	96 hours	
U+E (including creatinine)	7 days	
LFTs	7 days	

Standard limits for administration to go ahead

If blood results not within range, authorisation to administer **must** be given by prescriber/ consultant

Investigation	Limit
Neutrophils	$\geq 1.0 \times 10^9/L$
Platelets	$\geq 100 \times 10^9 / L$
Creatinine clearance (CrCl)	>50 mL/min
Bilirubin	≤ 3 x ULN
AST/ALT	≤ 2.5 x ULN

Dose modifications

• Haematological toxicity

If neutrophils $<1.0 \times 10^9$ /L and/or platelets $<100 \times 10^9$ /L delay 1 week or until recovery.

• Renal impairment

CrCl (mL/min)	Capecitabine dose	
>50	100%	
30-50	75% (with close monitoring)	
<30	Contra-indicated	

Hepatic impairment

AST +/or ALT (x ULN)		Bilirubin (x ULN)	Capecitabine dose
≤ 2.5	and	≤ 3	100%
> 2.5	or	> 3	Consultant decision*

*current evidence does NOT suggest dose modification is necessary. Capecitabine is contra-indicated in severe hepatic impairment.

• Other toxicities

Other toxicities should be managed by symptomatic treatment and/or dose modification (i.e. by treatment interruption or undertaking a dose reduction).

Once the dose has been reduced, it should not be increased at a later time.

For those toxicities considered unlikely to become serious or life-threatening (e.g. alopecia, altered taste or nail changes) treatment can be continued at the same dose without reduction or interruption.

Patients should be informed of the need to interrupt treatment immediately if they develop moderate or severe side effects particularly diarrhoea – not controlled by loperamide, palmar-plantar erythema or infection.

Toxicity grade	1 st occurrence	2 nd occurrence	3 rd occurrence	4 th occurrence
0-1	100%	100%	100%	100%
2	Delay then 100%	Delay then 75%	Delay then 50%	Discontinue
3	Delay then 75%	Delay then 50%	Discontinue	
4	Discontinue or	Discontinue		
	Delay then 50%			

Dose modifications should be made as per the following table:

Any delays should be until the toxicity has resolved to grade 0-1.

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Adverse effects - for full details consult product literature/ reference texts

• Serious side effects

Cardiotoxicity Myelosuppression Diarrhoea Thrombus/embolism Severe toxicity due to DPD deficiency (see comments below)

• Frequently occurring side effects

Nausea and vomiting Stomatitis/Mucositis Myelosuppression PPE Fatigue Skin reactions Nail changes Taste disturbance

• Other side effects

Myalgia Fluid retention Alopecia Rash Deranged liver function

Significant drug interactions – for full details consult product literature/ reference texts

Folinates: Avoid concomitant use of folinic and folic acid – enhanced toxicity of fluorouracil.

Co-trimoxazole/trimethoprim: Avoid if possible – enhances antifolate effect. If essential, monitor FBC regularly.

Warfarin/coumarin anticoagulants: Avoid use due to elevations in INR. Switch to low molecular weight heparin during treatment.

Sorivudine, Allopurinol, Phenytoin: close monitoring is necessary if prescribed with any of these agents.

Antacids: Aluminium hydroxide and magnesium hydroxide containing antacids have been shown to produce a slight increase in plasma concentration of capecitabine.

Additional comments

This regimen is contraindicated if known or suspected dihydropyrimidine dehydrogenase (DPD) deficiency.

References

- Summary of Product Characteristics Capecitabine (Roche) accessed 1 May 2019 via <u>www.medicines.org.uk</u>
 - Primrose, J., et al. Capecitabine compared with observation in resected biliary tract cancer. The Lancet Oncology. Published March 2019 <u>https://doi.org/10.1016/S1470-2045(18)30915-X</u>

Written/reviewed by: Dr S Falk (Consultant Oncologist, UHBristol NHS Trust)

Checked by: Sarah Murdoch (Senior Oncology Pharmacist, SW Clinical Network)

Authorised by: Dr J Braybrooke (Consultant Oncologist, UHBristol NHS Trust, SW Clinical Network)

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