

Raltitrexed and radiotherapy (rectal)

Indication

Treatment of rectal cancer for patients who have experienced cardiotoxicity with standard fluoropyrimidine therapy.

ICD-10 codes

Codes with a prefix C18-20

Regimen details

Day	Drug	Dose	Route
1	Raltitrexed	2.5mg/m ²	IV

Cycle frequency

21 days

Number of cycles

2 cycles only (i.e. weeks 1 and 4)

Administration

Raltitrexed is administered in 100mL sodium chloride 0.9% over 15minutes.

Pre-medication

Antiemetics as per local policy.

Emetogenicity

This regimen has low emetogenic potential.

Additional supportive medication

Mouthwashes as per local policy.

Loperamide if required.

Extravasation

Raltitrexed is an inflammatant (Group 2)

Investigations – pre first cycle

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

Investigations – pre subsequent cycles

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

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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	≥ 1.5 x 10 ⁹ /L
Platelets	≥ 100 x 10 ⁹ /L
Creatinine clearance	> 65 mL/min
AST/ALT	< 5 x ULN
Bilirubin	< 10 x ULN

Dose modifications

Haematological toxicity

Neutrophils (x 10 ⁹ /L)		Platelets (x 10 ⁹ /L)	Dose
≥ 1.5	and	≥ 100	100%
1.0-1.49	or	75-99	75%
< 1.0	or	< 75	Delay until recover, then 75%

• Renal impairment

Creatinine Clearance (mL/min)	Dose	Dosing interval
> 65	100%	21 days
55-65	75%	28 days
25-54	50%	28 days
< 25	Contraindicated	

Hepatic impairment

Transient elevations of liver transaminase occur with raltitrexed. No dose modification is needed in mild or moderate hepatic impairment, but liver enzymes should be monitored carefully.

Raltitrexed is not recommended in severe hepatic impairment (Bilirubin > 10 x ULN and/or AST/ALT > 5 x ULN).

Other toxicities

Toxicity	Definition	Dose adjustment	
Diarrhoea*	Grade 1	100%	
	Grade 2	Delay until resolved then 75%	
	Grade 3	Delay until resolved then 50%	
	Grade 4	Discontinue	
Mucositis	Grade 1	100%	
	Grade 2	Delay until resolved then 75%	
	Grade 3	Delay until resolved then 50%	
	Grade 4	Discontinue	

^{*} Diarrhoea is often associated with myelosuppression, if grade 3-4, check FBC.

Once doses are reduced for toxicity they must not be re-escalated.

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

• Serious side effects

Myelosuppression

Frequently occurring side effects

Myelosuppression

Nausea and vomiting

Diarrhoea

Mucositis

Asthenia

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Anorexia Abdominal pain Rash

Other side effects

Elevated liver enzymes Dysgeusia

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

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

Folic acid, folinic acid/leucovorin (or vitamin preparations containing these agents) — may reduce efficacy of raltitrexed and should be avoided immediately before and during drug use.

Additional comments

Raltitrexed is mutagenic. Pregnancy should be avoided if either partner is receiving raltitrexed. It is also recommended that conception should be avoided for at least 6 months after cessation of treatment.

There is no clinically proven antidote available. In the case of inadvertent or accidental overdose, consider the use of folinic acid at a dose of 25mg/m² IV every 6 hours. As the time interval between raltitrexed administration and folinic acid rescue increases, its effectiveness in counteracting toxicity may diminish.

References

- Summary of Product Characteristics Raltitrexed (Hospira) accessed 10 Sept 2014 via www.medicines.org.uk
- Cunningham D. Mature results from three large controlled studies with raltitrexed ('Tomudex'). Br J Cancer 1998; 77 (Suppl 2): 15-21.

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