Systemic Anti Cancer Treatment Protocol

Modified De Gramont

PROTOCOL REF: MPHAMDGGA (Version No: 1.0)

Approved for use in:

Advanced colorectal cancer

Dosage:

Drug	Dosage	Route	Frequency
Folinic Acid	350mg	IV	Every 14 days
Fluorouracil	400mg/m ²	IV	Every 14 days
Fluorouracil	2800mg/m ²	IV	Every 14 days

Advanced – give for 6 cycles and review, continue subject to patient choice, tolerability and response

Fluorouracil dose can be reduced to 2400mg/m² in patients with poorer performance status

Supportive treatments:

Anti-emetic risk - low

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

Loperamide 4mg initially then 2mg after each loose stool

Extravasation risk:

PICC line will be usually inserted. Network guidelines suggest that fluorouracil is an IRRITANT and should be treated using Network guidance

Issue Date: 10 th August 2018 Review Date: August 2021	Page 1 of 5	Protocol reference: MPHAMDGGA	Ą
Author: David Sharpe	Authorised by: Dr. A Mor	ntezeri	Version No:1.0

Administration:

Day	Drug	Dosage	Route	Diluent and Rate
1	Dexamethasone 30 mins before chemotherapy	8mg	PO	
1	Folinic Acid	350mg	IV	250mL Glucose 5% infusion over 2 hours
1	Fluorouracil	400mg/m ²	IV	Bolus over 5 minutes
1 to 2	Fluorouracil	2800mg/m ²	IV	46 hour continuous infusion in Sodium Chloride 0.9%

Advanced – reassess after 6 cycles, continue subject to patient choice, tolerability and response

Notes:

Caution in patients with pre-existing heart disease, angina pectoris, arrhythmias Sorivudine and analogues – Potentially fatal interaction – avoid completely

Main Toxicities:

Diarrhoea, nausea and vomiting, conjunctivitis / sore eyes, skin rashes, Palmar Plantar Erythema (PPE or hand foot syndrome), stomatitis, chest pain (myocardial ischaemia or angina), ovarian failure / infertility, nail ridges, taste changes DPD deficiency – leads to severe early fluorouracil toxicity, affects approximately 3% of population, may be life threatening

Issue Date: 10 th August 2018 Review Date: August 2021	Page 2 of 5	Protocol reference: MPHAMDGGA	A
Author: David Sharpe	Authorised by: Dr. A Mor	ntezeri	Version No:1.0

Investigations and treatment plan

	Pre	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Ongoing	Last cycle
Medical / Senior Nurse / AHP Assessment	х		Х		Х	Alternate cycles or team discretion	
Nursing Assessment	Х	Х	Х	Х	Х	Every cycle	Check has OPD
FBC	Х	Х	Х	Х	Х	Every cycle	Х
U&E & LFT	Х	Х	Х	Х	Х	Every cycle	Х
CrCl	Х	Х	Х	Х	Х	Every cycle	Х
CT scan	х					Inform consultant team if not booked	Check has date for CT
Informed Consent	Х					Verbal each cycle	
PS recorded	Х	Х	Х	Х	Х	Every cycle	Х
Toxicities documented	Х	Х	Х	Х	Х	Every cycle	Х
Weight recorded	Х	Х	Х	Х	Х	Every cycle	

Dose Modifications and Toxicity Management:

Haematological toxicity

Proceed on day 1 if:-

ANC \geq 1.0 x 10 ⁹ /L Platelets \geq 75 x 10 ⁹ /L
--

Inform team and delay 1 week on day 1 if:-

ANC <1.0 x 10 ⁹ /L	Platelets < 75 x 10 ⁹ /L
-------------------------------	-------------------------------------

If platelets or ANC still below required levels for treatment at week 2, delay treatment again and patient will need assessment and chemotherapy dose reduction as follows.

Issue Date: 10 th August 2018 Review Date: August 2021	Page 3 of 5	Protocol reference: MPHAMDGGA	A
Author: David Sharpe	Authorised by: Dr. A Mor	ntezeri	Version No:1.0

Non-haematological toxicity

se 🛛
n

Fluorouracil

Chest pain, coronary artery spasm	Stop fluorouracil, standard angina investigations, refer to consultant, if symptoms persist stop permanently
Stomatitis	If mouth ulcers or > grade 2 symptoms develop treat symptomatically as per UKONS guide. Delay treatment until resolved to grade 1 and reduce fluorouracil dose by 20%. See table
Diarrhoea	Monitor increase of bowel/stoma output over pre-treatment normal. Treat diarrhoea between cycles symptomatically as per UKONS guide. Commence regimen specific antidiarrhoeal as indicated If diarrhoea has not resolved by next cycle - delay treatment by 1 week. If diarrhoea persists or more than 1 delay is required reduce both fluorouracil bolus and infusion doses by 20% and continue at the lower dose unless further toxicity occurs - See table

Issue Date: 10 th August 2018 Review Date: August 2021	Page 4 of 5	Protocol reference: MPHAMDGGA	
Author: David Sharpe	Authorised by: Dr. A Mor	ntezeri	Version No:1.0

THE CLATTERBRIDGE CANCER CENTRE NHS FOUNDATION TRUST

	Grade 0	Grade 1	Grade 2	Grade 3	Grade 4	
	None or no change from normal	Increase of up to 3 bowel movements a day over pre- treatment normal or mild increase in ostomy output	Increase of up to 4-6 episodes a day or moderate increase in ostomy output or nocturnal movement or moderate cramping	Increase of up to 7-9 episodes a day or severe increase in ostomy output or incontinence / severe cramping / bloody diarrhoea	Increase >10 episodes a day or grossly bloody diarrhoea	
PPE	Treat symptomatically, delay treatment until resolved to grade 1. Reduce fluorouracil doses (bolus and infusion) by 20% for subsequent doses if persistent troublesome PPE. See table					

Fluorouracil dose reductions for non haematological toxicity

	Non haematological toxicity (diarrhoea, stomatitis, PPE) As below or consultant discretion				
Grade	0-1	2	3	4	
1 st occurrence	100%	100%	80%	Stop treatment	
2 nd occurrence	80%	80%	60%	Stop treatment	
3 rd occurrence	60%	60%	50%or stop	Stop treatment	

References:

Cheshire and Merseyside Strategic Clinical Networks. Network Guidance for the prevention and management of extravasation injuries V6.0 accessed 11.49 on 26/01/2017 on http://nww.clatterbridgecc.nhs.uk/application/files/5814/5934/5142/Prevention_Management_of_Extravasation_Injuries_V6.0.pdf

Summary of Product Characteristics, Electronic Medicines Compendium, fluorouracil 50mg/ml accessed on 26/01/2017 at 12.02 at

http://www.medicines.org.uk/emc/medicine/636

de Gramont A, Bosset JF, Milan C, Rougier P, Bouche O, Etienne PL, et al. Randomized trial comparing monthly low-dose leucovorin and fluorouracil bolus with bimonthly high-dose leucovorin and fluorouracil bolus plus continuous infusion for advanced colorectal cancer: a French intergroup study. J Clin Oncol 1997 15(2): 808-15

Issue Date: 10 th August 2018 Review Date: August 2021	Page 5 of 5	Protocol reference: MPHAMDGGA	Ą
Author: David Sharpe	Authorised by: Dr. A Montezeri		Version No:1.0