Indication	For the treatment of HER-2 positive unresectable locally advanced, recurrent and/or metastatic
	gastric or oesophagogastric junction cancer histologically confirmed adenocarcinoma.
Treatment	Palliative
Intent	
Frequency and	Cycle 1 to 8 repeat every 21 days CarboF with trastuzumab.
number of	Cuela Canuarda tracturumah manatharany Cantinua until disassa prograssian unassantahla
cycles	Cycle 9 onwards, trastuzumab monotherapy. Continue until disease progression, unacceptable toxicity or patient choice.
Monitoring	Virology screening: All new patients referred for systemic anti-cancer treatment should be
Parameters	screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients
pre-treatment	not previously tested who are starting a new line of treatment, should also be screened for
	hepatitis B and C. Further virology screening will be performed following individual risk
	assessment and clinician discretion.
	DPD testing: DPD testing must be undertaken in all patients before starting treatment; the
	result must be checked before treatment is started.
	• The use of trastuzumab is restricted to patients whose tumours significantly overexpress HER2
	at the IHC 3+ level or greater or at the IHC 2+ level and a confirmatory SISH or FISH result
	At each nurse assessment patients should be assessed for signs of dyspnoea.
	Cardiac Function:
	Cardiac function should be monitored at baseline (ECHO/MUGA and ECG) and then every 6
	months (ECHO or MUGA) during treatment, or as clinically indicated.
	It is the prescriber's responsibility to check that the ECHO/MUGA result is satisfactory before antiquing treatment.
	continuing treatment.
	 Record on KOMs Cardiac Monitoring Record. Baseline LVEF must be >/= 55%.
	 Baseline LVEF must be >/= 55%. Caution in patients with prior history of coronary heart disease, arrhythmias and angina
	pectoris.
	• EDTA should be used to measure GFR prior to cycle 1 or 2.
	C+G may be used to estimate CrCl if delay in obtaining EDTA result.
	Haematological monitoring:
	• Cycles 1 to 8
	 Monitor FBC, U&E's and LFT's at each cycle.
	Day 1 If neuts 1.0-1.4 and PLT >/=100 d/w consultant. If neuts <1.0 or Plts <100 delay
	treatment one week.
	Day 8 & 15 continue 5FU provided neuts >/=0.5 and PLT >/=75
	Cycle 9 onwards
	FBC, U&Es and LFTs cycle 9 then every 3 months.
	Hepatic impairment:
	 Carboplatin – no dose adjustment required.
	5FU – caution is advised, dose reduction may be required. In moderate hepatic
	impairment consider reducing the dose by 30% and for severe impairment by 50%. If the
	bilirubin is >85umol/L and / or AST >180 fluorouracil is contra-indicated.
	• Renal impairment:
	If CrCl <30ml/min stop platinum. FELL caution is advised, does reduction may be required in severe renal impairment.
	 5FU - caution is advised, dose reduction may be required in severe renal impairment. Infusion-related reactions:
	 Carboplatin: Mild/moderate reactions (grade 1-2): If symptoms resolve after treatment
	with hydrocortisone and chlorphenamine, the infusion may be restarted at 50% rate for
	30 mins, then, if no further reaction, increase to 100% rate.

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If symptoms do not resolve after treatment with hydrocortisone and chlorphenamine, do not restart the infusion. At consultant's discretion, patients may be rechallenged at a later date with additional prophylaxis. In the event of further reaction (grade 1-3), stop infusion and consider alternative treatment.

Severe (grade 3): Do not restart infusion. Consider alternative treatment.

Anaphylaxis (grade 4): Follow anaphylaxis protocol. Discontinue permanently and consider alternative treatment.

o Trastuzumab:

- Patients must be observed closely for infusion related adverse effects for 6 hours after the start of the first dose, for 2 hours after the start of the second dose and one hour after the start of subsequent doses.
 - *If the first trastuzumab dose is well tolerated (no infusion related reactions), then the second and subsequent doses may be administered over the shorter infusion time of 30 minutes. As with the 90 minute schedule, no pre-medication is required.
- Infusion reactions, allergic-like reactions and hypersensitivity can occur. The majority of these events occur during or within 2.5 hours of the start of the first infusion. Interruption or slowing the rate of the infusion may help control such symptoms. The infusion may be resumed when symptoms subside.

Management of adverse reactions and dose adjustments:

- Dose reduction should be considered if grade 3 or 4 non-haematological toxicity or repeat appearance of grade 2 (except N&V and alopecia). Delay until resolution of toxicity to </= grade
- Cardiac Dysfunction: Trastuzumab should be withheld for at least 3 weeks in the event of signs and symptoms of CHF or drop in LVEF to less than 50% associated with a fall of >/=10% points below pre-treatment values. Trastuzumab may be resumed if the LVEF has recovered to >/=50% or to a difference of < 10% points below pre-treatment values.

Missed doses:

- o If the patient misses a dose of trastuzumab by 1 week or less, then a dose of 6mg/kg should be given as soon as possible.
- o If the patient misses a dose of trastuzumab by more than one week, a re-loading dose of trastuzumab should be given over 90 minutes.
- Common drug interactions (for comprehensive list refer to BNF/SPC): In patients receiving phenytoin, levels may be affected.

Carboplatin:

Caution when used concurrently with other nephrotoxic or ototoxic drugs.

5-FU

If used concomitantly with warfarin monitor INR and prothrombin time closely. Caution with folinic acid or folic acid – potential for increased 5FU toxicity.

5FU must not be given with concurrent sorivudine or derivatives (e.g. brivudine), see SPC.

• **Driving and operating machinery:** Dizziness, fatigue and nausea has been reported. Patients should be aware this may affect their ability to drive or operate machinery.

References

ARIA regimen UGI-053 KMCC protocol UGI-008 V6

NB For funding information, refer to CDF and NICE Drugs Funding List

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Cycle 1 only 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration	
1	TRASTUZUMAB Loading dose	8mg/kg	IV	90 min	In 250ml sodium chloride 0.9%	
	Patients must be observed closely for infusion related adverse effects for 6 hours after the start of trastuzumab					
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15 min	Sodium Chloride 0.9% 50ml	
	Dexamethasone	8mg	РО			
	CARBOPLATIN AUC=5	DOSE = (GFR + 25) x AUC Max dose 700mg	IV	30 min	Glucose 5% 500ml	
	5-FLUOROURACIL prescribe for a total of 7 days	300mg/m²/ day i.e. 2100mg/m²/7 days	IV	7 days	Continuous infusion pump	
8	5-FLUOROURACIL prescribe for a total of 7 days	300mg/m²/ day i.e. 2100mg/m²/7 days	IV	7 days	Continuous infusion pump	
15	5-FLUOROURACIL prescribe for a total of 7 days	300mg/m²/ day i.e. 2100mg/m²/7 days	IV	7 days	Continuous infusion pump	
TTO	Drug	Dose	Route	Directions		
Day 1	Dexamethasone	6mg	РО	OM for 3 d	ays	
	Metoclopramide	10mg	PO	10mg TDS for 3 days, then 10mg up to TDS PRN. Do not take for more than 5 days continuously.		

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Cycle 2 to 8 repeat every 21 days

Day	Drug	Dose	Route	Infusion	Administration	
-				Duration		
1				30min		
				if previously		
		- "		tolerated		
	TRASTUZUMAB	6mg/kg	IV	See	In 250ml sodium chloride 0.9%	
				monitoring		
				parameters		
				above*		
		•			cts for 2 hours after the start of the	
	trastuzumab for cycle 2				-	
	Ondansetron	<75yrs 16mg	IV	15 min	Sodium Chloride 0.9% 50ml	
		>/=75yrs 8mg				
	Dexamethasone	8mg	PO			
	CARBOPLATIN	DOSE = (GFR + 25)	IV	30 min	Glucose 5% 500ml	
	AUC=5	x AUC				
		Max dose 700mg				
	5-FLUOROURACIL	300mg/m ² / day	IV	7 days	Continuous infusion pump	
	prescribe for a total	i.e.				
	of 7 days	2100mg/m ² /7 days				
		202 / 2/ 1				
8	5-FLUOROURACIL	300mg/m ² / day	IV	7 days	Continuous infusion pump	
	prescribe for a total	i.e.				
	of 7 days	2100mg/m ² /7 days				
15	5-FLUOROURACIL	300mg/m²/ day	IV	7 dove	Continuous infusion numn	
15	prescribe for a total	i.e.	IV	7 days	Continuous infusion pump	
	of 7 days	2100mg/m ² /7 days				
	Oi / uays	ZIOOHIG/III / / days				
TTO	Drug	Dose	Route	Directions		
Day 1	Dexamethasone	6mg	РО	OM for 3 days		
-	Metoclopramide	10mg	РО	10mg TDS for 3 days, then 10mg up to TDS PRN. Do not take for more than 5 days continuously.		

Cycle 9 onwards repeat every 21 days

Day	Drug	Dose	Route	Infusion	Administration	
				Duration		
1				30mins if previously		
				tolerated		
	TRASTUZUMAB	6mg/kg	IV	See monitoring	In 250ml sodium chloride 0.9%	
				parameters		
				above*		
	Patients must be observed closely for infusion related adverse effects for 1 hour after the start of trastuzumab					

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