Indication	HER2-positive unresectable locally advanced, recurrent and/or metastatic gastric cancer or
	oesophagogastric junction cancer histologically confirmed adenocarcinoma.
	NP: Tractuzumah is not licensed for use in combination with evalinating therefore Trust policy
	NB: Trastuzumab is not licensed for use in combination with oxaliplatin, therefore Trust policy regarding the use of unlicensed treatments must be followed.
Treatment	Palliative
Intent	Tullidate
Frequency	Repeat every 21 days
and number	Maximum of 8 cycles of OX with trastuzumab followed by maintenance trastuzumab.
of cycles	
	Maintenance trastuzumab: Continue until disease progression, intolerance 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 absolved before treatment is started.
	must be checked before treatment is started.
	Cardiotoxicity: Caution is noticents with prior history of caronary boart disease arrhythmias and angine nectoris.
	 Caution in patients with prior history of coronary heart disease, arrhythmias and angina pectoris. ECG prior to cycle 1.
	 ECG prior to cycle 1. ECHO should be monitored at baseline and then every 6 months during treatment or as clinically
	indicated.
	Trastuzumab:
	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.
	• FBC, U&Es and LFTs should be monitored prior to each cycle of cytotoxic chemotherapy and then
	every 3 months.
	If neuts 1.0-1.4 and/or Plts 75-100 d/w consultant.
	If neuts <1.0 or PLT <75 defer 1 week.
	Before starting treatment GFR (C+G) should be >/= 50ml/min.
	Renal Impairment:
	If CrCl <50ml/min dose reduce capecitabine (see SPC) and if CrCl <30ml/min consider dose
	reduction of oxaliplatin. Capecitabine is contraindicated if CrCl <30ml/min.
	There are no recommendations for dose adjustments of trastuzumab in renal impairment.
	Hepatic Impairment: no recommended dose adjustment in hepatic impairment for trastuzumab,
	oxaliplatin or capecitabine.
	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.
	Record on KOMs Cardiac Monitoring Record
	Baseline LVEF must be >/= 55%
	• It is the prescribers' responsibility to check that the ECHO/MUGA result is satisfactory before
	continuing treatment.
	• 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 <
Dunta and N	10% points below pre-treatment values.
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• Trastuzumab must not be given within 3 weeks of an anthracycline, therefore it must be started a minimum of 3 weeks after administration of the final dose of anthracycline therapy.

Dose Modification:

- Dose reduction of cytotoxic chemotherapy 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 1.
- Oxaliplatin Refer to Table 1 for oxaliplatin induced neuropathy guidance.
- Capecitabine Interrupt in the event of >/= grade 2 non-haematological toxicity (with the exception of side effects such as alopecia, alteration in taste etc, considered to be not serious) until resolution of toxicity to grade 0-1.
- Trastuzumab: No recommended dose modifications.

Infusion related reactions:

Trastuzumab:

- Patients must be observed closely for infusion related adverse effects for 6 hours after the start of the first dose, 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.

Common drug interactions: (for comprehensive list refer to BNF/SPC)

Capecitabine

Must not be given with concurrent sorivudine or derivatives (e.g. brivudine), see SPC. Monitor PT and INR regularly in patients taking coumarin-derivative anticoagulants. Monitor phenytoin levels with concomitant use.

Caution with folinic acid or folic acid – potential for increased toxicity. Avoid concomitant allopurinol.

Oxaliplatin

Caution is advised when oxaliplatin is co-administered with other medicinal products known to cause QT interval prolongation.

Caution is advised when oxaliplatin treatment is administered concomitantly with other medicinal products known to be associated with rhabdomyolysis.

Trastuzumab

No formal drug interaction studies have been performed.

- Skin reactions: Capecitabine can induce severe skin reactions such as Stevens-Johnson syndrome and Toxic Epidermal Necrolysis. Patients should be informed of the possibility of such reactions and informed to seek urgent medical advice should any symptoms of a severe skin reaction occur. Treatment should be permanently discontinued in affected patients.
- Driving and operating machinery: Dizziness, fatigue, nausea and somnolence have been reported during treatment, patients should be aware this may affect their ability to drive or operate machinery.
- **Missed dose:** 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.
- For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet and Macmillan information sheet.

References

UGI-070 V1 SPC accessed online 26.07.2023

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

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Cycle 1 only: 21 day cycle

Day	Drug	Dose	Route	Infusion	Administration
1	TRASTUZUMAB Loading dose	8mg/kg	IV	Duration 90 mins	In 250ml sodium chloride 0.9%
	_	rved closely for infu	sion related a	dverse effects	for 6 hours after the start of
2	Dexamethasone	8mg	РО		
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15 min	NaCl 0.9% 50ml
	Flush with 5% glucose	before and after ac	ministration	of oxaliplatin	
	OXALIPLATIN	130mg/ m ²	IV	2-6 hrs	250-500ml 5% glucose (to give a concentration between 0.2 mg/ml and 0.70 mg/ml)
TTO	Drug	Dose	Route	Directions	
	CAPECITABINE	1250mg/m²/day	РО	For 21 days (the 1st dose will be taken as the evening dose on day 1 and the last dose is taken th morning of day 22). Take within 30 minutes after food, and approximately every 12 hours.	
		doses		Available as 150mg and 500mg tablets	
	Dexamethasone	6mg	РО	OM for 3 day	
	Metoclopramide	10mg	РО	10mg TDS for 3 days then 10mg up to 3 times a day as required. Do not take for more than 5 days continuously.	

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Cycles 2 –8 repeat every 21 days

Day	Drug	Dose	Route	Infusion	Administration	
,	G			Duration		
1				30 mins	In 250ml sodium chloride 0.9%	
	TRASTUZUMAB	6mg/kg	IV	(see note		
				above)*		
	Start oxaliplatin after the end of the trastuzumab observation period (ie 2 hours after the start of the					
	trastuzumab for cycle 2, the	one hour from the st	art of the	infusion for cy	cle 3 onwards).	
	Dexamethasone	8mg	PO			
	Ondansetron	<75yrs 16mg	IV	15 min	NaCl 0.9% 50ml	
		>/=75yrs 8mg				
	Flush with 5% glucose before and after administration of oxaliplatin					
					250-500ml 5% glucose (to give a	
	OXALIPLATIN	130mg/ m ²	IV	2-6 hrs	concentration between 0.2	
					mg/ml and 0.70 mg/ml)	
TTO	Drug	Dose	Route	Directions		
Day 1					the 1st dose will be taken as the	
				_	on day 1 and the last dose is	
					rning of day 22). Take within 30	
	CAPECITABINE	1250mg/m²/day	PO		food, and approximately every 12	
				hours.		
		In 2 divided doses				
					L50mg and 500mg tablets	
	Dexamethasone	6mg	PO	OM for 3 days	S	
				_	3 days then 10mg up to 3 times a	
	Metoclopramide	10mg	PO	day as require		
				Do not take fo	or more than 5 days continuously.	

Cycle 9 onwards repeat every 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration Details
1	TRASTUZUMAB Maintenance dose	6mg/kg	IV	Over 30 mins if tolerated (see monitoring parameters)	In 250ml sodium chloride 0.9%

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TABLE 1: Introduction

- Use the neuropathy assessment tool on KOMS at each pre-chemo review.
- Symptoms of sensory or functional neuropathy may include tingling or numbness which may persist to the next pre-chemotherapy assessment.
- This guidance is for patients receiving treatment outside the context of a clinical trial. For patients being treated within a clinical trial setting, follow trial protocol (using assessment below as far as possible).
- Do not assess oxaliplatin induced neuropathy using CTC toxicity criteria.
- Dysaesthesia in the jaw is an unpleasant sensation and/or pain in the jaw.
- Laryngopharyngeal spasm is a sensation of difficulty in swallowing / breathing.

Normal	Symptoms	Action at nurse assessment	Consultant review required / Action by consultant
occurrence / Caution			
Normal occurrence with	Dysaesthesia (tingling in hands and feet) occurring with and up to 72 hours after infusion	No action required.	
oxaliplatin	Dysaesthesia in the jaw (during infusion) and cold induced laryngopharyngeal spasm up to 48 hrs after infusion.	Advise patients to avoid cold drinks / cold weather. Consider administering next oxaliplatin infusion over 6 hours (SmPC).	
First caution / warning sign	Tingling persisting beyond 72 hours or painful cold-induced neuropathy	d/w consultant or clinicians authorised to prescribe chemotherapy	
		Close monitoring at each subsequent cycle. Ask the following specific questions at each nursing assessment:	
		Is the dysaesthesia (during the infusion) and / or cold induced laryngopharyngeal spasm more severe?	If yes, consultant review required. For consideration of DR at next cycle or omission of oxaliplatin.
		Has the tingling continued for longer than during the previous cycle and / or is tingling still present when next cycle is due?	If yes, consultant review required, for consideration of DR at next cycle or omission of oxaliplatin
Serious caution	Numbness in hands or feet	Must be reviewed by a consultant	Consider DR or omission of oxaliplatin. Repeat consultant review before next cycle
	Severe excitability channel neuropathy during infusion (very rare) seen as severe pain and numbness on infusion	Must be reviewed by a consultant	Consider DR or omission of oxaliplatin. Repeat consultant review before next cycle
	Painful neuropathy	Must be reviewed by a consultant	Consider Duloxetine. Starting at 30mg-60mg OD where available on Trust formulary. Alternatively, d/w pain management specialist.
Other cautions	A cumulative dose of 700-800mg/m ² oxaliplatin has been reached	Must be reviewed by a consultant	

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All patients restarting oxaliplatin based	Must be reviewed by a consultant to assess for delayed onset neuropathy
chemotherapy after a break in treatment (this may	
be due to an intervention such as rectal cancer	
patients having surgery)	

Assessment and action

Notes

- Neurology referral should be considered in severe cases.
- Initial dose reductions should be at a 25% level. If there is no improvement or worsening symptoms, based on an assessment of risk and benefit, consider further dose reduction. Once reduced, doses should not be re-escalated.

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