Phesgo® (pertuzumab/trastuzumab SC) & weekly paclitaxel for locally advanced or metastatic breast cancer 1 of 7

cancer	1 01 /
Indication	The first line treatment of locally advanced or metastatic breast cancer in patients whose tumours
	significantly overexpress HER2 at the 3+ level or FISH positive and are not suitable for docetaxel.
	NB Any adjuvant HER2 therapy must have been completed more than 12 months prior to diagnosis of
	locally advanced or metastatic disease.
Treatment	Palliative
Intent	
Frequency	Repeat every 21 days
and number	
of cycles	Pertuzumab/trastuzumab SC and paclitaxel every 3 weeks for 6 cycles then continue pertuzumab / trastuzumab until progressive disease, unacceptable toxicity or patient choice. If disease progression is within the CNS alone, treatment with pertuzumab/trastuzumab can continue.
	NB patients can be switched between combination SC therapy (Phesgo®) or pertuzumab and trastuzumab
	IV therapy if the clinical need arises with the usual dosing interval.
Monitoring	• Virology screening: All new patients referred for systemic anti-cancer treatment should be screened
Parameters	for hepatitis B and C and the result reviewed prior to the start of treatment. Patients not previously
pre-treatment	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.
	Cardiac monitoring:
	 Cardiac function should be monitored at baseline (ECHO/MUGA and ECG), and every 12 weeks (ECHO or MUCA) during treatment or as clinically indicated
	 or MUGA) during treatment or as clinically indicated. Patients should have a pre-treatment left ventricular ejection fraction (LVEF) of >/= 50 %.
	 Record on cardiac monitoring record on KOMs.
	 It is the prescribers' responsibility to check that the ECHO/MUGA result is satisfactory before
	continuing treatment.
	• If signs of left ventricular dysfunction see SPC and algorithm for continuation and discontinuation of
	pertuzumab/trastuzumab SC based on LVEF assessments.
	 At each nurse assessment patients should be assessed for signs of dyspnoea.
	• Monitor FBC, U&E and LFT at each cycle and on day 8 and 15 of cycles 1 to 6.
	• FBC, U&Es and LFTs should be monitored every 3 months or as clinically indicated from cycle 7
	onwards.
	 Day 1: If neuts >/=1.5 and PLT >/=100 continue, otherwise delay 1 week. Day 8 and day 15:
	 If neuts 1.0-1.4 and PLT >/=100 and patient well continue with treatment.
	 If neuts <1.0 or PLT <100 defer 1 week.
	Hepatic impairment:
	• Paclitaxel: If bilirubin < 1.25 x ULN and transaminase < 10 x ULN, dose at full dose. Otherwise
	consider dose reduction see table 1, not recommended in severe hepatic impairment.
	 There are no recommendations for dose reductions of pertuzumab and trastuzumab SC in hepatic impairment.
	Renal impairment:
	• Paclitaxel : no dose reduction necessary.
	• Dose reductions of pertuzumab and trastuzumab SC are not required in mild to moderate renal
	impairment. There are no recommendations for dose reductions in severe renal impairment.
	Infusion-related/ injection reactions:
	• Paclitaxel: Patients developing hypersensitivity reactions to Paclitaxel may be re-challenged with
	full dose Paclitaxel following prophylactic medication (e.g. famotidine 40mg po given 4 hours prior
	to treatment plus Hydrocortisone 100mg iv and chlorphenamine 10mg iv 30 minutes prior to
	treatment), then give paclitaxel over 3-6 hours (i.e. starting at over 6 hours and gradually increase rate if possible)
	rate if possible).

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	 If patients experience no hypersensitivity reactions after the first two doses of paclitaxel, remove pre-medication with dexamethasone, chlorphenamine and (if applicable) H2 antagonist from dose 3 onwards.
	 Pertuzumab/trastuzumab SC: Injection duration and monitoring:
	• The loading dose of pertuzumab/trastuzumab SC should be administered over 8 minutes, and the
	maintenance dose over 5 minutes. Patients must be observed closely for injection related adverse
	effects during administration and for 30 minutes after the completion of the loading dose of
	pertuzumab/trastuzumab SC and for 15 minutes after the completion of maintenance doses. If a
	significant injection-related reaction occurs, the injection should be slowed down or paused and
	appropriate medical therapies should be administered. Patients should be evaluated and carefully
	monitored until complete resolution of signs and symptoms.
	 Discontinue pertuzumab/ trastuzumab SC in the event of grade 4 hypersensitivity reaction.
	Administration of pertuzumab/trastuzumab SC
	• Inject into the subcutaneous tissue of the thigh only. Injection sites should alternate between left
	and right thigh. New injections should be given at least 2.5 cm from the previous site. Do not
	inject at other sites of the body.
	• Pertuzumab/trastuzumab solution for subcutaneous injection should never be injected into areas
	where the skin is red, bruised, tender, or hard.
	 The dose should not be split between two syringes or between two sites of administration.
	 During treatment with pertuzumab/trastuzumab solution for subcutaneous injection, do not
	administer other medicinal products for subcutaneous use at the same site.
	• Re-loading: The loading doses of pertuzumab and trastuzumab SC should be repeated if the inter-
	val between injections is 6 weeks or more (i.e. if the doses are missed by 3 weeks or more), there-
	after the maintenance dose can be given. NB This applies regardless of whether treatment was
	pertuzumab iv and trastuzumab iv or pertuzumab and trastuzumab SC.
	Dose Modification:
	 Dose reduce Paclitaxel by 20% in the event of >/= grade 2 neuropathy and consider a delay until
	recovery to = grade 1.</th
	 Consider omitting paclitaxel in event of recurrent >/= grade 3 neuropathy or recurrent OR participation - /= grade 3 neuropathy following a doce reduction
	 persistent >/=grade 2 neuropathy following a dose reduction. Dose reduction of paclitaxel should be considered if any other grade 3 or 4 non-haematological
	 Dose reduction of paclitaxel should be considered if any other 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.</th
	 No dose reductions are recommended for pertuzumab and trastuzumab SC.
	 Common drug interactions (for comprehensive list refer to BNF/SPC):
	 Pertuzumab/trastuzumab SC: No formal drug interaction studies have been performed. Caution
	with other cardiotoxic drugs.
	 Paclitaxel: Caution should be exercised when administering paclitaxel concomitantly with
	medicines known to inhibit either CYP2C8 or CYP3A4 (e.g. ketoconazole, erythromycin, fluoxetine,
	clopidogrel, cimetidine, ritonavir and nelfinavir); toxicity may be increased. CYP2C8 or CYP3A4
	inducers (e.g. rifampicin, carbamazepine, phenytoin, efavirenz, nevirapine) may reduce efficacy.
	Missed dose:
	• Pertuzumab/trastuzumab SC Re-loading: The loading doses of pertuzumab/trastuzumab SC should be
	repeated if the interval between injections is 6 weeks or more (i.e. if the doses are missed by 3 weeks
	or more), thereafter the maintenance dose can be given. NB This applies regardless of whether prior
	treatment was pertuzumab iv and trastuzumab iv or pertuzumab / trastuzumab SC.
	• Driving and operating machinery: Pertuzumab/trastuzumab SC may have a minor influence on the
	ability to drive and use machines. Patients experiencing injection-related reactions or dizziness should
	be advised not to drive and use machines until symptoms resolve.
References	CDF list V 1.333 accessed online 26.11.2024. BlueTeq form accessed online 26.11.2024. SPC accessed
	online 27.11.2024 KMCC protocol BRE-078 V1

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

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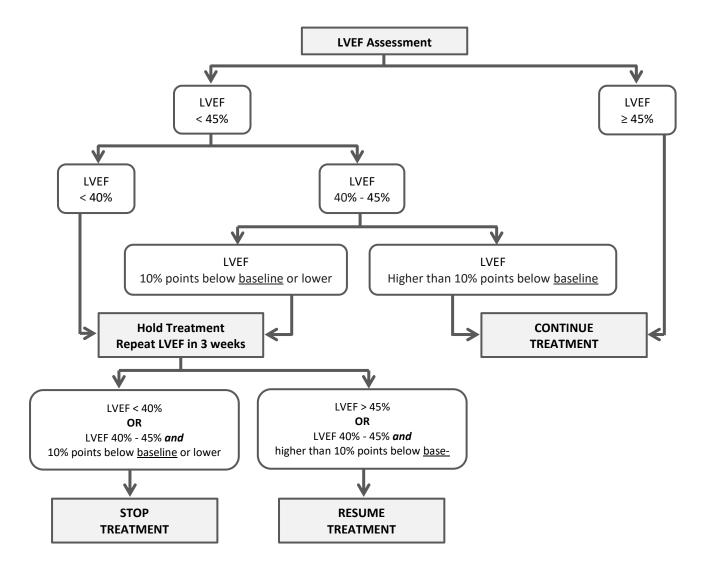
Table 1 Dose modification for paclitaxel in hepatic impairment

Bilirubin	Transaminase	Percentage dose
= 1.25 x ULN <b AND	<10 x ULN	100%
>1.25 to <2 x ULN		80 %
2-5 x ULN		50%
>5 xULN OR	>/= 10 x ULN	contraindicated

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Algorithm for Continuation and Discontinuation of Pertuzumab and Trastuzumab based on LVEF assessment



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Cycle 1 only 21 day cycle.

Day	Drug	Dose	Route	Infusion/	Administration		
- /				injection			
				Duration			
1	Phesgo®	1200mg pertuzumab	SC	Over 8	Inject 15 mL into the subcutaneous tissue of the		
	(pertuzumab/	/600mg trastuzumab		minutes	left or right thigh over 8 minutes. Do not inject at		
	trastuzumab)				other sites of the body. Injection sites should be		
					rotated for successive injections.		
					persensitivity reactions for 30 minutes eted prior to any subsequent administration of		
		nutes prior to paclitaxel					
	Dexamethasone	8mg	IV	bolus			
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running		
					Sodium chloride 0.9% intravenous infusion		
	Metoclopramide	20mg	IV	bolus			
					Diluted in 250ml sodium chloride 0.9% (non-PVC		
	PACLITAXEL	80mg/m ²	IV	Over 1	bag and non PVC giving set) via in-line 0.22micron		
				hour	filter		
					Flush with sodium chloride 0.9%		
8	Give pre-meds 30 mi	nutes prior to paclitaxel					
	Dexamethasone	8mg	IV	bolus			
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running		
					Sodium chloride 0.9% intravenous infusion		
	Metoclopramide	20mg	IV	bolus			
					Diluted in 250ml sodium chloride 0.9% (non-PVC		
	PACLITAXEL	80mg/m²	IV	Over 1	bag and non PVC giving set) via in-line 0.22micron		
				hour	filter.		
					Flush with sodium chloride 0.9%		
15	-	nutes prior to paclitaxel		1			
	Dexamethasone	8mg	IV	bolus			
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running		
					Sodium chloride 0.9% intravenous infusion		
	Metoclopramide	20mg	IV	bolus			
					Diluted in 250ml sodium chloride 0.9% (non-PVC		
	PACLITAXEL	80mg/m²	IV	Over 1	bag and non PVC giving set) via in-line 0.22micron		
				hour	filter.		
					Flush with sodium chloride 0.9%		
TT0	Drug	Dose	Route	Directions			
Day				3 times a day for 3 days after paclitaxel, then 10mg up to 3POtimes a day as required. (max. 30mg per day including 20mg pre-chemo dose) Do not take for more than 5 days continuously.POOM for 2 days starting the day after paclitaxel dose.			
1, 8	Metoclopramide	10mg	PO				
and							
15							
	Dexamethasone	4mg	PO				
				Take with or just after food, or a meal.			

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Cycle 2 to 6: Repeat every 21 days

Day	Drug	Dose	Route	Infusion/	Administration				
Duy	5105	Dose	noute	injection	A commission of the commission				
				Duration					
1	Phesgo®	600mg pertuzumab	SC	Over 5	Inject 10 mL into the subcutaneous tissue of the				
	(pertuzumab/	/600mg trastuzumab		minutes	left or right thigh over 5 minutes. Do not inject at				
	trastuzumab)				other sites of the body. Injection sites should be				
					rotated for successive injections.				
		Patients should be observed for injection-related reactions and hypersensitivity reactions for 15 minutes following administration of Phesgo [®] , observation should be completed prior to any subsequent administration of							
		nutes prior to paclitaxel							
	Dexamethasone	8mg	IV	bolus					
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running				
		Ū			Sodium chloride 0.9% intravenous infusion				
	Metoclopramide	20mg	IV	bolus					
					Diluted in 250ml sodium chloride 0.9% (non-PVC				
				Over 1	bag and non PVC giving set) via in-line 0.22micron				
	PACLITAXEL	80mg/m ²	IV	hour	filter				
					Flush with sodium chloride 0.9%				
8	Give pre-meds 30 mi	nutes prior to paclitaxel							
	Dexamethasone	8mg	IV	bolus					
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running				
					Sodium chloride 0.9% intravenous infusion				
	Metoclopramide	20mg	IV	bolus					
					Diluted in 250ml sodium chloride 0.9% (non-PVC				
	PACLITAXEL	80mg/m²	IV	Over 1	bag and non PVC giving set) via in-line 0.22micron				
				hour	filter.				
					Flush with sodium chloride 0.9%				
15	-	nutes prior to paclitaxel		1					
	Dexamethasone	8mg	IV	bolus					
	Chlorphenamine	10mg	IV	bolus	Over 3 min through a fast running				
					Sodium chloride 0.9% intravenous infusion				
	Metoclopramide	20mg	IV	bolus					
					Diluted in 250ml sodium chloride 0.9% (non-PVC				
	PACLITAXEL	80mg/m²	IV	Over 1	bag and non PVC giving set) via in-line 0.22micron				
				hour	filter.				
	-	_	_		Flush with sodium chloride 0.9%				
TTO	Drug	Dose	Route	Directions					
Day					day for 3 days after paclitaxel, then 10mg up to 3				
1, 8	Metoclopramide	10mg	PO	times a day as required.					
and				(max. 30mg per day including 20mg pre-chemo dose)					
15				Do not take for more than 5 days continuously.					
	Dexamethasone	4mg	PO	, , , ,					
				Take with or just after food, or a meal.					

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Cycles 7 onwards: repeat every 21 days

Day	Drug	Dose	Route	Injection Duration	Administration details		
1	Phesgo® (pertuzumab/ trastuzumab)	600mg pertuzumab/ 600mg trastuzumab	ab/ SC SC SC SC SC SC SC SC SC SC SC SC SC		Inject 10 mL into the subcutaneous tissue of the left or right thigh over 5 minutes. Do not inject at other sites of the body. Injection sites should be rotated for successive injections.		
	Patients should be observed for injection-related reactions and hypersensitivity reactions for 15 minutes following administration of Phesgo®						

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