

Indication	<p>For unresectable locally advanced or metastatic HER2-positive breast cancer in patients:</p> <p>who have received 2 or more anti-HER2 therapies and who have received trastuzumab emtansine (Kadcyla®) in the advanced/metastatic disease setting.</p> <p>OR</p> <p>have been treated with 1 or more anti-HER2 therapies and who are treatment-naïve for trastuzumab emtansine in the advanced/metastatic disease setting and have been treated with a prior regimen which contained at least trastuzumab and a taxane for advanced /metastatic breast cancer or developed disease recurrence during or within 6 months of completing an adjuvant or neoadjuvant treatment regimen which contained at least trastuzumab and a taxane or adjuvant treatment with trastuzumab emtansine.</p> <p>NB The patient must have had no prior treatment with trastuzumab deruxtecan unless it has been received as part of the Daiichi Sankyo early access scheme.</p>
Treatment Intent	Palliative
Frequency and number of cycles	<p>Repeat every 21 days.</p> <p>Continue until disease progression or unacceptable toxicity or patient choice to stop treatment.</p> <p>NB May be continued if disease progression is within the CNS alone.</p>
Monitoring Parameters pre-treatment	<ul style="list-style-type: none"> • Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients 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. • The use of trastuzumab deruxtecan is restricted to patients whose tumours have documented HER2 positive at the 3+ level by IHC or a ratio of ≥ 2.0 by FISH/ISH positive disease. • FBC, U&Es and LFTs should be monitored at baseline and prior to each cycle. Proceed with treatment if neuts ≥ 1.0 and PLT ≥ 100. • Cardiac function should be monitored prior to treatment (ECHO/MUGA and ECG) and baseline left ventricular ejection fraction (LVEF) must be $\geq 50\%$. Thereafter, ECHO / MUGA every 3 months or as clinically indicated. See table 1 for management of decreased LVEF. • High resolution chest CT every 6 weeks, await results and consultant review before proceeding with next cycle. • The patient should not have untreated or symptomatic brain metastases prior to starting treatment. • Hepatic impairment: No adjustment to the starting dose is required for patients with total bilirubin ≤ 1.5 times upper limit of normal (ULN), irrespective of aspartate transaminase (AST) value. Limited data of use in patients with total bilirubin > 1.5 times ULN, irrespective of AST value, these patients should be closely monitored. • Renal impairment: No adjustment to the starting dose is needed in patients with mild or moderate renal impairment (CrCl 30 - 89ml/min). Limited data of use in

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	<p>patients with severe renal impairment (CrCl <30ml/min). A higher incidence of Grade 1 and 2 ILD has been observed in patients with moderate renal impairment. Patients with CrCl <60ml/min should be closely monitored.</p> <ul style="list-style-type: none"> • Dose Modification: If a dose reduction is required the first reduction should be to 4.4mg/kg and the second to 3.2mg/kg. No further dose reduction is permitted. Do not re-escalate a previously reduced dose. See table 1 for dose modification guidelines. • Infusion-related reactions: • The infusion rate of should be slowed or interrupted if the patient develops infusion-related symptoms. Treatment should be permanently discontinued in case of severe infusion reactions. • Management of adverse reactions and dose adjustments: • Interstitial lung disease (ILD), including pneumonitis, has been reported in patients treated with trastuzumab deruxtecan, see table 1 for recommended dose adjustments in ILD. At each nurse assessment assess for dyspnoea, cough & fatigue and patients should be advised to immediately report cough, dyspnoea, fever, and/or any new or worsening respiratory symptoms. Evidence of ILD/pneumonitis should be promptly investigated. Patients with suspected ILD/pneumonitis should be evaluated by radiographic imaging, preferably a computed tomography (CT) scan. Consultation with a pulmonologist should be considered. Patients with a history of ILD/pneumonitis or patients with moderate or severe renal impairment may be at increased risk of developing ILD/pneumonitis and should be monitored carefully. • Common drug interactions (for comprehensive list refer to BNF/SPC): No significant interactions. • Females of reproductive potential should be advised to use effective contraception during treatment and for at least 7 months following the last dose. Male patients with female partners of reproductive potential should be advised to use effective contraception during treatment and for at least 4 months after the last dose. • Missed dose: If a dose is missed, it should be administered as soon as possible and the schedule adjusted to maintain a 3-weekly interval between doses. • Driving: Patients should be advised to use caution when driving or operating machinery in case they experience fatigue, headache or dizziness during treatment. • Patients should be advised to carry the Enhertu® patient card.
References	<p>Blueteq form accessed online 20.12.2022 SPC accessed online 20.12.2022 KMCC protocol BRE-084 V1 1 (nice.org.uk)</p>

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

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Table 1: Dose modifications for adverse reactions

Adverse reaction	Severity	Treatment modification
Interstitial lung disease (ILD)/pneumonitis	Asymptomatic ILD/pneumonitis (Grade 1)	Interrupt until resolved to Grade 0, then: <ul style="list-style-type: none"> • if resolved in 28 days or less from date of onset, maintain dose. • if resolved in greater than 28 days from date of onset, reduce dose one level. • consider corticosteroid treatment (e.g. ≥ 0.5 mg/kg/day prednisolone or equivalent) as soon as ILD/pneumonitis is suspected.
	Symptomatic ILD/pneumonitis (Grade 2 or greater)	<ul style="list-style-type: none"> • Permanently discontinue. • Promptly initiate corticosteroid treatment (e.g. ≥ 1 mg/kg/day prednisolone or equivalent) as soon as ILD/pneumonitis is suspected and continue for at least 14 days followed by gradual taper for at least 4 weeks.
Neutropenia	Grade 3 (less than $1.0-0.5 \times 10^9/L$)	<ul style="list-style-type: none"> • Interrupt until resolved to Grade 2 ($\geq 1.0 \times 10^9/L$), or less, then maintain dose.
	Grade 4 (less than $0.5 \times 10^9/L$)	<ul style="list-style-type: none"> • Interrupt until resolved to Grade 2 ($\geq 1.0 \times 10^9/L$), or less. • Reduce dose by one level.
Febrile neutropenia	Absolute neutrophil count of less than $1.0 \times 10^9/L$ and temperature greater than $38.3^\circ C$ or a sustained temperature of $38^\circ C$ or greater for more than one hour.	<ul style="list-style-type: none"> • Interrupt until resolved. • Reduce dose by one level.
Left ventricular ejection fraction (LVEF) decreased	LVEF greater than 45% and absolute decrease from baseline is 10% to 20%	<ul style="list-style-type: none"> • Continue treatment.
	LVEF 40% to 45% And absolute decrease from baseline is less than 10%	<ul style="list-style-type: none"> • Continue treatment. • Repeat LVEF assessment within 3 weeks.
	And absolute decrease from baseline is 10% to 20%	<ul style="list-style-type: none"> • Interrupt treatment. • Repeat LVEF assessment within 3 weeks. • If LVEF has not recovered to within 10% from baseline, permanently discontinue. • If LVEF recovers to within 10% from baseline, resume treatment at the same dose.
	LVEF less than 40% or absolute decrease from baseline is greater than 20%	<ul style="list-style-type: none"> • Interrupt treatment. • Repeat LVEF assessment within 3 weeks. • If LVEF of less than 40% or absolute decrease from baseline of greater than 20% is confirmed, permanently discontinue.
	Symptomatic congestive heart failure (CHF)	<ul style="list-style-type: none"> • Permanently discontinue.

Toxicity grades are in accordance with National Cancer Institute Common Terminology Criteria for Adverse Events Version 5.0 (NCI-CTCAE v.5.0).

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Repeat every 21 days.

Day	Drug	Dose	Route	Infusion Duration	Administration
Day 1	Ondansetron	<75yrs 16mg ≥75yrs 8mg	IV	15 min	In 50ml Sodium chloride 0.9%
	Dexamethasone	8mg	PO		
	TRASTUZUMAB DERUXTECAN (Enhertu®)	5.4mg/kg	IV	1st infusion over 90mins. If the first dose is well tolerated then give subsequent doses over 30 minutes.	In 100ml 5% glucose with 0.22micron in-line PES filter.
TTO	Drug	Dose	Route	Directions	
Day 1	Dexamethasone	6mg	PO	OM for 3 days. Take with or just after food, or a meal.	
	Metoclopramide	10mg	PO	10mg 3 times a day for 3 days then 10mg up to 3 times a day as required. Do not take for more than 5 days continuously. (dispense 28 tablets on cycle 1, then only when required)	
	Loperamide	2mg-4mg	PO	Take 4mg initially then 2mg after each loose stool when required (max 16mg a day) (dispense 1x op on cycle 1, then only when required)	

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