

UK Guidance for the monitoring and management of ENHERTU® (trastuzumab deruxtecan)-related ILD (interstitial lung disease)

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These guidelines have been developed by the UK Breast Cancer Group (UKBCG) in collaboration with national ILD experts. The scope, content and final wording in the recommendation has been generated and agreed by all named authors. The summary of product characteristics (SmPC) should always be consulted for management guidance of patients on ENHERTU.

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Adverse events should be reported. ENHERTU has a conditional marketing authorisation. Reporting forms and information can be found at https:// yellowcard.mhra.gov.uk/ or search for MHRA Yellow Card in Google Play or Apple App store. Adverse events should also be reported to Daiichi Sankyo UK Pharmacovigilance on 0800 028 5122 or by email to pharmacovigilance@daiichi-sankyo.co.uk As ENHERTU is a biological medicine, healthcare professionals should report adverse reactions by brand name and batch number.



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Monitoring and management of ENHERTU®-related ILD

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Assess ILD risk factors to stratify patients into higher vs. lower risk Educate patients on risk and reporting signs and symptoms of ILD

Click on for more information



CTPA=computed tomography pulmonary angiogram; HRCT=high-resolution computed tomography; ILD=interstitial lung disease; PFT=pulmonary function test; SpO2=pulse oximetry.

Identified risk factors for developing ILD or a poorer outcome following a diagnosis of ILD^{1–3}

STEP 1: Assess your patient's risk of developing ENHERTU-related ILD

Consensus is needed regarding stratification and subsequent management for patients at high vs. low risk of developing ILD. Based on risk factors; if any of the below apply to the patient proceed with higher frequency on-treatment screening (this list is based on identified risk factors for ILD and is not necessarily exhaustive)

□ Age ≥65 years	□ Baseline SpO2 <95%	
History of lung comorbidities* including prior ILD	Decreased baseline renal function	
Japanese heritage	History of smoking	
STEP 2: HCPs within the oncology team to assess patients using these questions, to evaluate the development of new respiratory symptoms. These questions can be used in pre-assessment clinics to obtain a baseline and monitor symptoms throughout ENHERTU treatment. Reinforce the need for patients to immediately report symptoms/ any worsening in symptoms compared to baseline, to their oncologist or another healthcare professional, if their oncologist is unavailable.		
Have they been coughing recently? If yes, is it a dry cough?	Are they feeling unusually tired without obvious cause?	
Do they feel short of breath, especially during or after physical activity?	Do they currently have or have they had a fever?	

□ Have they experienced any new breathing or respiratory problems?

□ Have any of their existing respiratory problems become worse recently?

*Includes asthma, chronic obstructive pulmonary disease, prior ILD/pneumonitis, pulmonary fibrosis, pulmonary emphysema, and radiation pneumonitis. ILD=interstitial lung disease; SpO2=pulse oximetry.

1. Powell C, et al. ESMO Open. 2022;7:1–11; 2. Canellas, A. et al. Ann Oncol. 2024;35:S360; 3. Rugo H, et al. JCO Oncol Pract. 2023;19:537–546.





Screening recommended for patients at higher-risk of developing ENHERTU[®]-related ILD¹

STEP 1: Baseline assessment prior to initiating ENHERTU

- Baseline HRCT scan
- □ Baseline resting SpO2
- Consider baseline full PFTs (including gas transfer, spirometry*), sit to stand test in consultation with respiratory

STEP 2: On-treatment monitoring

- □ 6–9-weekly HRCT scans
- □ Baseline resting SpO2 readings wherever possible
- Consider full PFTs (including gas transfer, spirometry*), sit to stand test and mobilising patient to seek early desaturation compared to baseline SpO2 in consultation with respiratory and local guidelines
- Consider assessing patients SpO2 pre- and post- mobilisation (e.g. ask patients to walk around waiting room)
- Regular breathlessness questionnaire completion

Useful resources

□ NHS sit to stand guidance: <u>https://www.rbht.nhs.uk/our-services/heart/pulmonary-hypertension-service/tests</u>

*Note that no evidence exists to support the use of spirometry to detect low-grade ILD.

HRCT=high-resolution computed tomography; ILD=interstitial lung disease; PFT=pulmonary function test; SpO2=pulse oximetry.

1. Recommendations based on discussions between specialist breast oncologists, representing the UKBCG, and national ILD specialists





Screening recommended for patients at lower-risk of developing ENHERTU[®]-related ILD¹

STEP 1: Baseline assessment prior to initiating ENHERTU

Baseline HRCT scan

□ Baseline resting SpO2

STEP 2: On-treatment monitoring

- □ 6–9-weekly HRCT scans
- Regular breathlessness questionnaire completion
- Consider assessing patients SpO2 pre- and post- mobilisation (e.g. ask patients to walk around waiting room)

Useful resources

- □ NHS sit to stand guidance: <u>https://www.rbht.nhs.uk/our-services/heart/pulmonary-hypertension-service/tests</u>
- G-minute walk test guidance: https://www.cuh.nhs.uk/patient-information/six-minute-walk-test/

*Note that no evidence exists to support the use of spirometry to detect low-grade ILD.

HRCT=high-resolution computed tomography; ILD=interstitial lung disease; SpO2=pulse oximetry.

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No single clinical factor definitively confirms ILD, but any of the following observations should trigger suspicion



COP=cryptogenic organising pneumonia; HRCT=high-resolution computed tomography; ILD=interstitial lung disease; PFT=pulmonary function test; SpO2=pulse oximetry.

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1. Tarantino P, et al. JAMA Oncol. 2021;7:1873–1881; 2. Yonemori K, et al. Cancer Sci. 2016;107:1830–1836; 3. Antoine M and Mlika M. StatPearls Publishing. 2023; 4. Kahlmann V, et al. Chest. 2020;158:2026–2033; 5. Nishino M, et al. JCO Precis Oncol. 2023;7:e2300391; 6. Swain SM, et al. Cancer Treat Rev. 2022;106:102378.

Scan using non-contrast volumetric HRCT followed by CTPA with narrow slices

STEP 1: Perform scans without contrast first

□ Non-contrast volumetric HRCT scan (to diagnose ILD)

STEP 2: Perform scans with contrast second

□ CTPA with narrow slices (to exclude PE)

Considerations

- Specify non-contrast volumetric HRCT followed by CTPA with narrow slices (1.0–1.5 mm) in scan request (HRCT and CTPA can be performed in one sitting with 2 single breath holds [1 per scan])
- Contrast interferes with the images required for ILD diagnosis; ground glass opacities caused by contrast displacing the air, cannot be discerned from physiological ground glass opacities due to disease
- · Refer to a respiratory specialist if scans are unclear

CTPA=computed tomography pulmonary angiogram; HRCT=high-resolution computed tomography; ILD=interstitial lung disease; PE=pulmonary embolism.

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Support MDT and educate patients to communicate signs and symptoms of ILD

STEP 1: Support patients

- □ Emphasise the importance of carrying alert cards
- □ Recommend the use of an alert wristband
- Educate patients on the signs and symptoms of ILD

STEP 2: Support front-line HCPs (e.g., GPs and Acute Services)

- □ Ensure patients are educated on the importance of presenting wrist bands, alert cards and are aware of the signs and symptoms of ILD
- **D** Reiterate to patients the importance of immediately reporting these symptoms and flagging to HCPs that these could be associated with ENHERTU treatment

STEP 3: Support nurses

Educate nurses on the signs and symptoms of ILD and the appropriation escalation pathways

STEP 4: Support MDT collaboration in suspected cases

- Identify local referral pathways to respiratory specialists
- Collaborate with other disciplines e.g. radiology and respiratory to facilitate fast diagnosis

GP=General Practitioner; HCP=healthcare professional; ILD=interstitial lung disease; MDT=multidisciplinary team.



There are many common differential diagnoses and comorbidities of ILD that need to be considered:



Ruling out opportunistic infections, such as pneumocystis pneumonia* (PCP), is essential towards establishing a diagnosis of ENHERTU[®]-induced ILD Refer to local Trust Guidelines for the management of patients receiving long-term high-dose steroids for the treatment of PCP

*Caused by pneumocystis jirovecii.

CAP=community-acquired pneumonia; ILD=interstitial lung disease; PCP=pneumocystis pneumonia.

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Grade 1: Once ILD is diagnosed, initiate steroids

HCPs should manage ENHERTU-related ILD in collaboration with an MDT; a pulmonologist should be involved early to benefit from their expertise

	Grade 1
Toxicity management ^{1–4}	 Monitor and closely follow-up in 2–7 days for onset of clinical symptoms and pulse oximetry Consider follow-up imaging in 1–2 weeks (or as clinically indicated) Consider starting systemic steroids (e.g. at least 0.5 mg/kg/day prednisone or equivalent) until improvement, followed by gradual taper over at least 4 weeks, especially for cases with extensive lung involvement or in patients at increased risk for progression of ILD/pneumonitis If diagnostic observations continue to worsen despite initiation of corticosteroids, then follow Grade 2 guidelines*
T–DXd dose modification ^{1–4}	 Withhold ENHERTU until recovery (resolved to Grade 0) If resolved in ≤28 days from date of onset, maintain dose If resolved in >28 days from date of onset, reduce dose one level If ILD/pneumonitis occurs beyond Day 22 and has not resolved within 49 days from the last infusion, discontinue ENHERTU

*If patient is asymptomatic, then patient should still be considered as Grade 1 even if steroid treatment is given.

CT=computed tomography; HCP=healthcare professional; ILD=interstitial lung disease; IV=intravenous; MDT=multidisciplinary team; PI=Prescribing Information; SmPC=Summary of Product Characteristics. 1. Supplement to: Cortes J, et al. *N Engl J Med* 2022;386:1143–1154; 2. Swain SM, et al. *Cancer Treat Rev.* 2022;106:102378; 3. Daiichi Sankyo, Inc. ENHERTU PI. April 2024. Available from: <u>https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/761139s028lbl.pdf</u>. Accessed November 2024; 4. Daiichi Sankyo UK Ltd. ENHERTU SmPC. April 2024. Available from: <u>https://www.medicines.org.uk/emc/product/12135</u>. Accessed November 2024.

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Grade 2: Once ILD is diagnosed, initiate steroids

HCPs should manage ENHERTU-related ILD in collaboration with an MDT; a pulmonologist should be involved early to benefit from their expertise

	Grade 2
Toxicity management ^{1–4}	 Promptly treat with systemic steroids (e.g. at least 1.0 mg/kg/day prednisone or equivalent) until complete resolution of clinical symptoms and chest CT findings, then followed by a gradual taper over at least 4 weeks Monitor symptoms closely Re-image as clinically indicated If worsening or no improvement in clinical or diagnostic observations in 5 days: Consider increasing dose of steroids (e.g. 2.0 mg/kg/day prednisone or equivalent) and administration may be switched to IV (e.g. methylprednisolone) followed by a gradual taper over at least 4 weeks Re-consider additional work-up for alternative aetiologies as described above Escalate care as clinically indicated
T-DXd dose modification ¹⁻⁴	 Permanently discontinue ENHERTU in patients who are diagnosed with any symptomatic (≥Grade 2) ILD/pneumonitis

*If patient is asymptomatic, then patient should still be considered as Grade 1 even if steroid treatment is given.

CT=computed tomography; HCP=healthcare professional; ILD=interstitial lung disease; IV=intravenous; MDT=multidisciplinary team; PI=Prescribing Information; SmPC=Summary of Product Characteristics. 1. Supplement to: Cortes J, et al. *N Engl J Med* 2022;386:1143–1154; 2. Swain SM, et al. *Cancer Treat Rev.* 2022;106:102378; 3. Daiichi Sankyo, Inc. ENHERTU PI. April 2024. Available from: <u>https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/761139s028lbl.pdf</u>. Accessed November 2024; 4. Daiichi Sankyo UK Ltd. ENHERTU SmPC. April 2024. Available from: <u>https://www.medicines.org.uk/emc/product/12135</u>. Accessed November 2024.

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Grade 3/4: Once ILD is diagnosed, initiate steroids

HCPs should manage ENHERTU-related ILD in collaboration with an MDT; a pulmonologist should be involved early to benefit from their expertise

	Grade 3/4
Toxicity management ^{1–4}	 Hospitalisation required Promptly initiate empiric high-dose methylprednisolone IV treatment (e.g. 500–1000 mg/day for 3 days), followed by at least 1.0 mg/kg/day of prednisone (or equivalent) for at least 14 days or until complete resolution of clinical symptoms and chest CT findings, then followed by a gradual taper over at least 4 weeks Re-image as clinically indicated If still no improvement within 3 to 5 days: Re-consider additional work-up for alternative aetiologies as described above Consider other immuno-suppressants and/or treat as per local practice
T-DXd dose modification ¹⁻⁴	 Permanently discontinue ENHERTU in patients who are diagnosed with any symptomatic (≥Grade 2) ILD/pneumonitis

*If patient is asymptomatic, then patient should still be considered as Grade 1 even if steroid treatment is given.

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