To whom it may concern,

Your patient may fit initial criteria to be eligible for consideration of a **Lung Volume Reduction** procedure that could help with their symptomatic breathlessness caused by emphysema.

Lung volume reduction can be performed surgically, by removing sections of emphysematous tissue that does not contribute to gas exchange, and traps air that is a cause of their breathlessness.

Lung Volume Reduction Surgery

Zephyr® Endobronchial Valve

It can also be performed by minimally invasive means via a bronchoscope and the insertion of small one-way valves called endobronchial valves. These valves slowly remove the trapped air from the diseased portions of the lung and allow the patient to breath much more effectively and efficiently to reduce their symptoms.1

These treatment options are recommended by both **GOLD2** and **NICE3** and can be performed once some initial criteria are met from various tests. NICE guidance in relation to lung volume reduction can be found here:

<https://www.nice.org.uk/guidance/ng115/chapter/Recommendations>

Late in 2020 NHS England recognised the value of such a procedure in the correct population and granted National Commissioning for Lung Volume Reduction by surgery or Endo-Bronchial Valves in adults with severe emphysema (NHS Reference 200806P (1622)).

#### Lung surgery and lung volume reduction procedures3

1.2.88 Offer a respiratory review to assess whether a lung volume reduction procedure is a possibility for people with COPD when they complete pulmonary rehabilitation and at other subsequent reviews, if all of the following apply:

* they have severe COPD, with FEV1 less than 50% and breathlessness that affects their quality of life despite optimal medical treatment (see [recommendations 1.2.11 to 1.2.17](https://www.nice.org.uk/guidance/ng115/chapter/recommendations#inhaled-combination-therapy))
* they do not smoke or are willing to give up smoking
* they can complete a 6‑minute walk distance of at least 140 m (if limited by breathlessness). **[2018]**

1.2.89 At the respiratory review, refer the person with COPD to a lung volume reduction multidisciplinary team to assess whether lung volume reduction surgery or endobronchial valves are suitable if they have:

* hyperinflation, assessed by lung function testing with body plethysmography **and**
* emphysema on unenhanced CT chest scan **and**
* optimised treatment for other comorbidities. **[2018]**

Please can you review the points above in relation to your patient and refer to one of the centres below, where your patient will be considered for treatment.

National Advanced Emphysema Services and MDT contact details April 2023:

Risk Statement: Complications of the Zephyr Endobronchial Valve treatment can include but are not limited to pneumothorax, worsening of COPD symptoms, hemoptysis, pneumonia, dyspnea and, in rare cases, death. International Brief Statement: The Zephyr® Endobronchial Valve is an implantable bronchial valve intended to control airflow in order to improve lung functions in patients with hyperinflation associated with severe emphysema and/or to reduce air leaks. The Zephyr Valve is contraindicated for: Patients for whom bronchoscopic procedures are contraindicated; Evidence of active pulmonary infection; Patients with known allergies to Nitinol (nickel-titanium) or its constituent metals (nickel or titanium); Patients with known allergies to silicone; Patients who have not quit smoking. Use is restricted to a trained physician. Prior to use, please reference the Zephyr Endobronchial System Instructions for more information on indications, contraindications, warnings, all precautions, and adverse events.

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EMEA-EN-870-v1 April 2023 | Pulmonx UK ltd | Highlands House, Basingstoke Road, Spencers Wood, RG7 1NT Reading, Berkshire

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| **City** | **Hospital/Facility** | **Contact** |
| Birmingham | Queen Elizabeth Hospital Birmingham | Mr Naidu | Mr Fallouh | Dr Turner |
| Blackpool | Blackpool Victoria Hospital |  Mr Purohit | Dr Khan  |
| Bristol | Bristol Royal Infirmary |  Dr Curtis | Mr Perikleous |
| Cambridge | Addenbrookes Hospital | Dr Mahadeva |
| Cardiff | University Hospital Wales | Ms Kornaszewska | Dr Sabit |
| Coventry | Uni Hospitals Coventry and Warwickshire | Mr Hernandez| Dr Ortiz-Comino |
| Hull | Castle Hill Hospital | Mr Tentzeris | Mr Crooks |
| Leeds | Spire Leeds Hospital (Private) | Mr Papagiannopoulos |
| Leeds | St James University Hospital | Mr Chaudhuri | Dr Hambleton | Dr Ellames |
| Leicester | Glenfield Hospital | Mr Rathinam | Mr Caruana | Dr Panchal |
| Liverpool | Liverpool Heart & Chest Hospital | Dr Mohan | Mr Shackcloth |
| London | Guys and St Thomas’s | Dr Dewar | Mr Okiror | Dr Batista |
| London | Royal Brompton Hospital | Dr Shah | Prof Hopkinson |
| London | St Bartholomew’s Hospital | Mr Waller | Mr Tim Batchelor |
| London | St George’s Hospital | Mr Vaughan | Dr Ruickbie |
| London | The Harley Street Clinic (Private) | Prof Shah |
| London | University College London Hospital | Dr Thakrar | Dr Kay Roy |
| Manchester | Wythenshawe Hospital | Dr Barraclough | Mr Granato  |
| Middlesbrough | James Cook University Hospital | Dr Sathyamurthy | Mr Dunning |
| Norfolk | Norfolk and Norwich University Hospitals | Mr Kouritas | Dr Hand  |
| Nottingham | City Hospital Nottingham | Dr Kemp | Dr Binnion | Mr Burnside  |
| Oxford | The John Radcliffe Hospital | Ms Belcher | Dr Moore |
| Oxford | The Manor Hospital (Private) | Ms Belcher |
| Scotland | Golden Jubilee National Hospital | Mr Kirk | Mr R Bilancia | Mr Kostoulas | Dr Anderson | Dr Bayes |
| Sheffield | Northern General Hospital | Miss Tenconi | Mr Rao  |
| Southampton | Uni Hospital Southampton NHSFoundation Trust | Mr Alzetani | Dr Havelock |
| Staffordshire | Royal Stoke Hospital | Miss Srinivasan | Dr Haris | Mr Ghosh |
| West Yorkshire | Nuffield Health, Leeds Hospital (Private) | Mr Papagiannopoulos | Mr Milton |
| Wolverhampton | New Cross Hospital Heart and Lung Centre | Dr Ejiofor | Dr Habib |