

Title	Lung Transplantation
Version	1.1

1	Introduction
2	Referral criteria
3	Contraindications
4	Advanced Care Planning
5	Referral form and Centres

1. Introduction

Lung transplant is an option for people with cystic fibrosis who aren't responding to standard treatment. Transplantation of other organs, including liver and kidney, can also be necessary due to the detrimental consequences of the CF and its treatment being inflicted across multiple organs (CF trust 2018) (2).

2. Referral criteria

The criteria for lung transplant are dependent on a number of factors individual to each pwCF. Factors that would be considered as relevant include but are not isolated to:

- Rapidly declining lung function or a lung function declining below 30%
- Life threatening haemoptysis or recurrent pneumothorax
- Increased dependence on medical therapy such as need ventilation or being dependent on oxygen
- A severely impaired quality of life

These factors would be considered in the context of each individual pwCF and it would be important that they and / or their family were committed to considering a referral for transplant

Timing of listing

Listing for lung transplantation should be considered by the individual centre in which the patient has been referred to.

3. Contraindications (1)

Contraindications differ between centres and may change over time with new treatments and surgical expertise.

Major

- Other organ failure (excluding hepatic when a lung/liver transplant could be considered).
- Untreated Mycobacteria tuberculosis.
- Invasive pulmonary aspergillosis.
- Malignancy in the last 2 years.
- Infection with Burkholderia cenocepacia and Mycobacterium abscessus - all subspecies.
- pwCF does not want the procedure despite receiving and understanding information.

Relative

- Long term corticosteroids > 20mg/day.
- Non-pulmonary infections e.g., Hepatitis B or C, HIV.
- Previous thoracic surgery - pleurodesis will make the procedure more difficult and should be discussed with the surgical team.
- Multi-resistant organisms e.g., non-abscessus NTM, some genomovars of B cepacia complex, MRSA, pan-resistant P aeruginosa, treatment-resistant fungi.
- Severe osteoporosis.
- Some extreme psycho-social issues, for example, long standing and entrenched nonadherence to treatments despite interventions
 - BMI > 35 kg/m² or BMI <16 kg/m²

4. Advanced Planning

What is advance care planning?

Advance care planning means having conversations and making decisions about the care you'd like in future with your friends, family, and healthcare team.

Although a sensitive topic for patients, it is important to discuss advanced care planning around time of referral for transplant. This document can be completed with the patient and a member of the CF MDT. The document used to complete this can be found on the CF trust website.

5. Referral form and Centres

There is a standardised UK Lung and Heart Transplantation Referral Pro Form for adults and children covering centres within the UK. This can usually be accessed online or by contacting the transplant co-ordinators.

The five centres within the UK are:

Adult and Paediatric

NEWCASTLE

Cardiopulmonary Transplant Unit

Freeman Hospital

High Heaton



North West Midlands
Cystic Fibrosis Centre

The Royal Wolverhampton
NHS Trust



Midlands Partnership
NHS Foundation Trust



The Shrewsbury and
Telford Hospital
NHS Trust



University Hospitals
of North Midlands
NHS Trust



Newcastle Upon Tyne
NE7 7DN
Office: 0191 223 1132
Fax: 0191 223 1439

Adult

HAREFIELD
Transplant Office
Harefield Hospital
Hill End Road
Harefield
Middlesex
UB9 6JH
Office: 01895 828716
Fax: 01895 824983

PAPWORTH
Papworth Hospital Transplant Unit
Papworth Hospital
Papworth Everard
Cambridge
CB23 3RE
Office: 01480 830 541
ext 4195/4993/4994
Fax: 01480 364 336

WYTHENSHAW
Cardiopulmonary Transplant Unit
Wythenshawe Hospital
Southmoor Road
Manchester
M23 9LT
Office: 0161 291 2352
Fax: 0161 291 2659

BIRMINGHAM
Heart Lung Transplantation Office
Queen Elizabeth Hospital
Edgbaston
Birmingham
B15 2TH
Office: 0121 627 2544
Fax: 0121 627 5702