

## SCHEDULE 2 – THE SERVICES

#### A. Service Specifications

Service Specification No.	A14/S/c	1
Service	Interstitial Lung Disease (Adult)	
Commissioner Lead	Kathy Blacker	
Clinical Lead	Dr Toby Maher	
Period	12 months	
Date of Review		

## 1. Population Needs

## 1.1 National/local context and evidence base

The interstitial lung diseases (ILD) comprise a broad spectrum of conditions all of which are characterised by inflammation or fibrosis of the alveolar wall with impairment of gas exchange. The commonest of these conditions are idiopathic pulmonary fibrosis (IPF), extrinsic allergic alveolitis (EAA) and sarcoidosis. In addition, there is also a large group of patients with connective tissue diseases (also known as collagen vascular diseases or CTD) such as rheumatoid arthritis and scleroderma with up to 30% of these patients thought to have ILD, and a myriad of less common ILDs (non-specific interstitial pneumonitis, desquamative interstitial pneumonitis, respiratory bronchiolitis interstitial lung disease, acute interstitial pneumonia, lymphocytic interstitial pneumonitis, histiocytosis X and lymphangioleiomyomatosis - for which there exists a nationally commissioned service - to name but a few).

The relative rarity of the individual ILDs makes diagnosis difficult and the emergence of novel, often highly specialised treatments has increased the need for delivery of care by dedicated centres. Furthermore, existing national and international guidelines emphasise the need for a multi-disciplinary approach to diagnosis of ILD – this therefore requires the involvement of respiratory physicians with ILD-interest expertise, thoracic radiologists, thoracic pathologists

and, in a proportion of cases, a thoracic surgeon. Growing evidence points to the importance of combined multi-disciplinary team (MDT) input for assigning correct diagnoses and initiating appropriate therapy in individuals with ILD. Misdiagnosis contributes to increased morbidity and mortality in this patient group. A recent US study has demonstrated that care delivered in a specialist ILD centre improved outcomes in patients with IPF independent of their disease severity at diagnosis. In addition to the importance of diagnosis, the progressive nature of many of the ILDs, particularly the most frequently occurring, IPF, necessitates that the appropriate delivery of care to this patient group requires the integration of Respiratory, Palliative Care and Transplant services. In the case of ILDs such as lymphangioleiomyomatosis (LAM), histiocytosis X and connective tissue disease associated ILD, the use of cytotoxic and immunosuppressive agents (in some cases intravenously) requires that centres treating these diseases have in place appropriate systems and guidelines for monitoring both drug levels and for potential signs of drug toxicity. For these reasons, the diagnosis and management of ILDs should be considered a specialised service.

Clinical trial data are emerging to support the value of a number of therapies in the various ILDs. The novel anti-fibrotic drugs pirfenidone and nintedanib slow disease progression in IPF. Rapamycin results in improved lung function and quality of life in individuals with LAM. Intravenous cyclophosphamide improves outcomes in individuals with CTD associated ILD.Appropriate use and monitoring of all these therapies requires the integration of several disciplines and is therefore best suited to regionally delivered specialist centres.

Estimates of the incidence of the different ILDs vary. The commonest, IPF and sarcoidosis, have an incidence of between 2000 – 4000 in the UK per annum. Whilst the prognosis for individuals with sarcoidosis is reasonably good, the median survival for those with IPF is only 3 – 3.5 years and the disease now accounts for more than 3000 deaths in the UK each year. Rarer conditions such as LAM and histiocystosis X have an incidence of 2- 6 per million per annum whilst a recent epidemiological study utilising the UK GPR database identified only 563 new cases of CTD-ILD diagnosed in the last decade. Importantly however, mortality for those with CTD-ILD was 40% higher than for those with CTD alone.

## 2. Outcomes

## 2.1 NHS Outcomes Framework Domains & Indicators

<mark>Domain</mark>	Preventing people from dying prematurely	N
1		
<b>Domain</b>	Enhancing quality of life for people with long-term	<mark>√</mark>
2	conditions	
<mark>Domain</mark>	Helping people to recover from episodes of ill-	<mark>√</mark>

	3	health or following injury			
	<mark>Domain</mark> 4	Ensuring peop e have a care	positive experience of		
	4 Domain		eople in safe environment		
	5	and protecting them from			
<mark>mpro</mark>	ve outcome	s for individuals with ILD	Data on disease progression (Forced vita vita vital capacity) will be collected annually by specialist centres.		
			Mortality data for all patients seen at ILE specialist centres will be collected via HES		
mpro	ve ILD relat	ed quality of life	Health related quality of life will be collected annually for all patients under specialis centre follow up.		
Maximise activity of IPF patients through participation in pulmonary rehabilitation program					
		e possible, patients receive ccurate diagnosis for their	The proportion of patients assigned a diagnosis and provided a management plan at their first visit to an ILD specialist centre will be reported by each centre		
oetwe centre	en speci	joint working practices alist and non-specialist sure patient safety and of access.	Evidence of shared care protocols and the development of remote access MDTs		
		will be collected annually to	monitor clinical outcomes:		
<mark>he fol</mark>	<del>lowing data</del>				
•	<mark>Lung functi</mark> Capacity ar	on (% predicted forced expired to the second s	<del>atory volume in 1 second (FEV1), Forced V</del> i		
•	<mark>Lung functi</mark> Capacity ar	on (% predicted forced expire	<del>atory volume in 1 second (FEV1), Forced V</del> i		

# 3.1 Aims and objectives of service

The interstitial lung diseases comprise a broad spectrum of over 200 conditions all of which are characterised by inflammation or fibrosis of the alveolar wall with impairment of gas exchange. These include;

The commonest of these conditions are:

- idiopathic pulmonary fibrosis (IPF),
- extrinsic allergic alveolitis (EAA) hypersensitivity pneumonitis
- sarcoidosis

In addition there is also a large group of patients with Connective tissue disease (also known as collagen vascular diseases) associated ILD. such as:

- rheumatoid arthritis
- Idiopathic inflammatory myositis
- Sjogren's disease
- scleroderma with up to 30% of these patients thought to have ILD

Plus a myriad of less common ILDs:

- idiopathic non-specific interstitial pneumonitis,
- desquamative interstitial pneumonitis,
- respiratory bronchiolitis interstitial lung disease,
- acute interstitial pneumonia,
- lymphocytic interstitial pneumonitis,
- histiocytosis X
- lymphangioleiomyomatosis (for which there exists a nationally commissioned service)
- pulmonary arterio-venous malformations alveolar proteinosis
- Drug-induced interstitial lung disease.

The overall aim of the specialist service is to ensure equality of patient access to multidisciplinary team diagnosis, to guarantee that patients with ILD have equal access to current treatment modalities and that their disease-specific management plans are drawn up following MDT assessment at regional specialist units. Networks of care need developing so that the majority of subsequent follow up and, where necessary, end-of-life care, is provided in local secondary care units.

The objectives of the service are to:

- provide a specialist multi-disciplinary service for diagnosis (thus improving diagnostic accuracy for individuals with ILD)
- initiate appropriate pharmacological and non-pharmacological treatment for individuals with ILD
- reduce morbidity and mortality due to ILD, including reducing hospitalisation
- ensure equity of access to specialised therapies for all patients with ILD in England

- identify individuals requiring referral to lung transplant centres
- oversee those aspects of care that fall out with the expertise of local units (e.g. administration of cytotoxic chemotherapy, monitoring blood levels of immunosuppressants etc).

The purpose of the service will be to:

- develop an equitable national ILD service whereby individuals with ILD will have access to specialist ILD-MDT diagnosis.
- where appropriate, provide personal management plans for each patient annually, the provision of which will, in most cases, be delivered locally.
- provide specialist advice and support to local providers of care, and in difficult cases to review patients between annual visits
- provide equitable access to specialist therapies and to provide appropriate support and ancillary services (e.g. drug level monitoring) to ensure the safe local management of individuals requiring cytotoxic or immunosuppressant therapy
- develop and share national ILD protocols and guidelines. Ensure local clinical teams are provided with management guidelines, and have access to specialist advice when needed.
- provide a national forum to discuss difficult management decisions.
- improve awareness and management of ILD within England the UK by education and provision of an excellent service.
- raise standards of care for patients with ILD in England the UK so as to improve prognosis and reduce disease and treatment related morbidity.
- offer patient centred assessment and management regarding the disease complications and organ specific problems associated with certain ILDs (e.g. sarcoidosis, CTD-associated ILD)
- minimise the disease impact of ILDs on the patient and their family life and work practice
- enable integration of clinical services with clinical trials and translational research to ensure on going developments in the care of individuals with these rare diseases.
- ensure equitable patient access to related services e.g. lung transplant assessment, pulmonary hypertension services, end-of life palliative care input etc.

## 3.2 Service description/care pathway

and this document is currently undergoing peer-review:

<u>http://eng.mapofmedicine.com/evidence/map/interstitial\_lung\_disease1.html</u>

Currently management and diagnosis of the ILDs is guided by a number of guidelines:

 NICE Idiopathic Pulmonary Fibrosis Guideline (CG163) June 2013 http://guidance.nice.org.uk/CG163

- The 2008 British Thoracic Society SIGN guidelines on interstitial lung disease
- The diagnosis of IPF has been formalised in a consensus guideline developed by the American Thoracic Society (ATS) and European Respiratory Society (ERS) (published in 2011)
- NICE IPF Pirfenidone Technology Appraisal (ID334) http://guidance.nice.org.uk/index.jsp?action=byID&o=13039are\_undertaking\_a technology\_appraisal\_of the novel\_anti-fibrotic\_agent, pirfenidone.
- The Map of Medicine http://eng.mapofmedicine.com/evidence/map/interstitial\_lung\_disease1.html
- Sarcoidosis is covered by the 1999 ATS/World Association of Sarcoidosis and other Granulomatous Disorders (WASOG) guidelines
- LAM is addressed by 2010 ERS management and diagnosis guidelines
- The Gold Standards Framework for palliative care (http://www.goldstandardsframework.org.uk/)
- NICE IPF Quality Standard QS79 IPF in adults published January 2015
- NICE IPF Nintedanib Technology Appraisal (ID752)

The ICD 10 codes to be used for interstitial lung disease are given in the table below:

ICD-10 codes for interstitial lung disease

- D76.0 Langerhan's cell histiocytosis
- J67 Hypersensitivity pneumonitis
- D86.0 Sarcoidosis
- D86.2 Sarcoidosis
- J84.0 J84.9 Interstitial Lung Disease (including IPF and CTD-associated)

Therapies associated with the diagnostic codes will also be identified for pirfenidone, nintedanib, rapamycin, rituximab, cyclophosphamide, infliximab, and cladrabine and nebulised GM-CSF.

Sarcoidosis will only be considered for specialist centre assessment in cases where there is extensive multi-organ involvement (to include lungs, heart or brain and other organ involvement) or in individuals who develop progressive pulmonary fibrosis despite standard therapy.

The flows and pathways required at specialist centres will be those centred around 1) diagnosis, 2) treatment planning, 3) in some cases, treatment administration and 4) in cases requiring the above named therapies, disease monitoring.

## Diagnostic assessment

Patients will be referred to the centre that is geographically most convenient for them and will then be systematically assessed. Where possible, this will require a single visit to the centre

but in cases of diagnostic uncertainty assessment may require over the course of two to three day case visits (depending on the need-including for bronchoscopy). In approximately 10-15% of cases, diagnostic video assisted surgical lung biopsy will be necessary. For individuals It is expected that specialist centres will have the facilities to undertake, as required by individual cases, assessed at specialist centres the following investigations will be required:

- Full pulmonary function tests (PFT) including carbon monoxide diffusing capacity (DLco) and estimation of total lung capacity (either by plethysmography or helium dilution).
- 6 minute walk test (or equivalent)
- High Resolution Computed Tomography of the thorax.
- Bone densitometry (dual energy X-ray absorptiometry (DEXA)).
- Full Blood Count, Erythrocyte Sedimentation Rate, C-Reactive Protein, Autoimmune profile, Anti-neutrophil Cytoplasmic Antibody and serum precipitins-Immunology including extended autoimmune panel and serum precipitins.
- Echocardiogram with right heart assessment.
- Overnight oximetry.
- In selected cases Bronchoscopy with bronchoalveolar lavage (BAL) and bronchoalveolar lavage with or without transbronchial biopsyavailability of a pathology service able to provide formal BAL differential cell counts.
- In 10-15% of cases Surgical lung biopsy (pre-operative planning to include a case conference between physician, surgeons and, when necessary, thoracic radiologist).
- In suspected LAM patients will require tuberous sclerosis genotyping and pelvic and abdominal ultrasound for-Genotyping for relevant ILDs (e.g. tuberous sclerosis, alveolar microlithiasis, Burt-Hogg-Dubae syndrome etc).
- In multi-organ sarcoid, patients require c abdominal ultrasound, upper airway assessment, 24 hour urinary calcium estimation and, in selected cases, brain MRI for cases of suspected cardiac sarcoid.
- Patients with a confirmed diagnosis of pulmonary langerhan's hystiocytosis should have screening for systemic disease to include; dermatology review, MRI pituitary and bone scan.
- For patients with pulmonary alveolar proteinosis, testing for granulocyte/macrophage colony stimulating factor (anti-GM CSF) antibody testing for suspected cases of alveolar proteinosis.

Following the completion of the assessments the results of test will be discussed at a diagnostic multi-disciplinary team (MDT) meeting. A fully constituted MDT will consist of a respiratory physician with specialist interest in ILD, a thoracic radiologist with expertise in ILD, a thoracic pathologist, an ILD Specialist Nurse and an MDT co-ordinator. The necessary level of clinical expertise and training required by MDT members is described in detail in the NICE IPF Guidelines 2013

Treatment planning

Following diagnosis, treatment will be planned in accordance with national and international guidelines. This will involve input from respiratory physicians with an interest training in ILD, an ILD specialist nurse and, where necessary, respiratory physiotherapists, occupational therapists and physicians from other disciplines (e.g. rheumatologists, ear, nose and throat (ENT), cardiology, transplant, pulmonary hypertension, palliative care etc.). Provision should be made to ensure patient access to pulmonary rehabilitation. In most cases, it is envisaged that treatment will be delivered locally and reviewed annually at specialist centres.

Treatment Administration

In certain cases, it will be necessary for specialist centres to administer therapy to patients rather than rely on local services. Such treatments include:

- parentral cytotoxic agents (intravenous cyclophosphamide, intra muscular methotrexate)
- biological agents (rituximab, infliximab)
- chemotherapeutic agents (e.g. cladrabine for Langerhans Cell Histiocytosis)
- plasmapheresis
- intra venous immunoglobulins
- whole lung lavage for pulmonary alveolar proteinosis (this will only be available in only two centres to ensure adequate case load and expertise)
- nebulised granulocyte macrophage colony stimulating factor (GM-CSF)
- monitoring of immunosuppressant serum levels (rapamycin, cyclosporine, tacrolimus)
- embolisation of arteriovenous malformations.

Disease monitoring

For patients receiving treatment at specialist centres, follow up and monitoring of disease (in most cases through clinical assessment and full lung function testing) will be dictated by disease severity and treatment regimen, but is likely to be once every 3-4 months. For the majority of individuals for whom care is being delivered locally, specialist centre review will occur annually. These reviews will comprise clinical assessment, full lung function and chest radiograph thoracic imaging. Patients will also, where necessary, be seen at the same visit by other members of the multi- disciplinary team and in advanced disease should undergo appropriate assessment of oxygen requirements.

## Discharge

Individuals will be discharged from specialist centre care in the following circumstances:

- if diagnostic assessment fails to confirm a diagnosis of an ILD
- patients with disease that remains stable at 2 consecutive visits following withdrawal of treatment.

- individuals with end stage disease transitioning to palliative care services
- individuals with end-stage disease who have undergone lung transplantation.

Additional roles of specialist centres

- Patient education
- Patient support groups
- Outreach support to local centres (electronically or by teleconference).
- Inpatient care and transfer of individuals with treatment responsive ILD or patients requiring emergency, inpatient assessment following first presentation of acute onset ILD
- Intensive care support for ILD inpatients.
- Education of health care professionals

## 3.3 Population covered

The service outlined in this specification is for patients ordinarily resident in England; or otherwise the commissioning responsibility of the NHS in England (as defined in Who Pays?: Establishing the responsible commissioner, and other Department of Health guidance relating to patients entitled to NHS care or exempt from charges).

Specifically individuals to be assessed at specialist centres will fulfil the following criteria;

- all adult patients with suspected rare interstitial lung disease (estimated incidence < 1 per 500 000) e.g. LAM, Langerhans cell histiocytosis, pulmonary alveolar proteinosis</li>
   These very rare disorders will only be cared for at a small number (c. 1 to 3) of nominated highly specialist ILD centres.
- all adult patients with ILD of uncertain aetiology (for specialist multi- disciplinary team diagnosis)
- all adult patients fulfilling criteria for treatment with specialist drugs (e.g. pirfenidone for IPF, infliximab for sarcoidosis) or interventions - (e.g. treatment of AVMs)
- patients with multi-organ or progressive sarcoidosis requiring specialist MDT input.

## 3.4 Any acceptance and exclusion criteria and thresholds

Acceptance criteria

- Individuals with ILD of unknown aetiology to be identified by local secondary care physician
- Individuals with a known or suspected rare ILD as identified through ICD-

10 codes and registries

 Individuals with progressive or multi-organ sarcoid requiring assessment for specialist therapies or multi-disciplinary assessment  All individuals fulfilling criteria for specialist pharmacological therapy (e.g. pirfenidone for idiopathic pulmonary fibrosis (IPF), rapamycin for LAM) or specialist interventions e.g. embelization of pulmonary-Arteriovenous Malformations whole lung lavage for alveolar proteinosis

Exclusion criteria

• This specification does not cover paediatric interstitial lung disease.

#### 3.5 Interdependencies with other services/providers

#### Co-located services:

- Immediate onsite access to critical care.
- Advanced diagnostics including lung physiology, and bronchoscopy
- Day unit available for patient assessment, rituximab and other high cost novel biological agent administration.
- In-patient beds available for management of acute exacerbations of ILD.
- Specialist thoracic radiology services
- Dedicated thoracic pathology
- Palliative care services
- Thoracic surgery.

#### Interdependent services:

- Rheumatology
- Clinical Immunology
- ENT
- Physiotherapy for exercise and pulmonary rehabilitation
- Pulmonary hypertension
- Lung transplant
- Cardiology with expertiese in cardiac sarcoid
- Dermatology with expertiese in cutaneous sarcoid
- Pharmacy
- Neurology with expertiese in neurosarcoid
- Opthalmology with expertiese in occular sarcoid

#### Related services:

#### Occupational lung disease

o ILD MDTs require specialist thoracic radiology and pathology input together with a respiratory physician. There will be some overlap with rheumatology services for patients with CTD-ILD. Centres providing an inpatient service will need access to critical care services. Palliative care input and links with transplant and pulmonary hypertension centres will also be of importance. Treatment provision requires access to respiratory physiotherapy, occupational therapy and palliative care services.

<del>o Complex sarcoidosis requires input from dermatology, cardiology, neurology, ENT and</del> r <del>heumatology specialists.</del>		
4. Applicable Servic	ce Standards	
BTS ILD G     NICE IPF (	nal standards e.g. NICE Guidelines 2008 Guidelines (CG163, June <del>expected</del> 2013) Quality Standards (QS79January 2015)	
Service Standards Core Standards	<ul> <li>Fully constituted ILD MDT (to consist a minimum of two Respiratory physicians with dedicated expertise and training in ILD, Thoracic radiologist, thoracic pathologist, ILD Nurse Specialist and MDT co- ordinator).</li> <li>Dedicated ILD nurse specialist to provide patient education and supervision of immunosuppressant and anti-fibrotic therapy.</li> <li>Able to undertake full lung function including spirometry, plethysmography and measurement of gas transfer</li> <li>Able to undertake bronchoscopy including bronchoalveolar lavage, transbronchial biopsy and endobronchial ultrasound guided biopsy (EBUS) with capacity to develop other services as technology develops (e.g. cryobiopsy)</li> <li>Cytology service able to perform cell differential counts to standard outlines in National and International guidelines</li> <li>Access to immunological laboratory services for testing of autoimmune serology</li> <li>Facilities for monitoring immunosuppressant serum levels</li> <li>Dedicated thoracic surgery for diagnostic biopsy and pre-biopsy planning of target sites</li> <li>Where appropriate, centres will be able to undertake whole lung lavage for pulmonary atverio-venous malformations</li> <li>Access to pulmonary rehabilitation services</li> </ul>	

	<ul> <li>transplant centre</li> <li>Intensive care services and inpatient beds to support the assessment of new cases of ILD presenting with</li> </ul>	
	acute onset respiratory failure	
	Access to pulmonary hypertension services	
	<ul> <li>Dedicated link with palliative care services</li> <li>Dedicated ILD pharmacist to handle dispensing and</li> </ul>	
	Dedicated ILD pharmacist to handle dispensing and accountability of cytotoxic drugs and specialist therapies	
	<ul> <li>Cardiac MRI for assessment of multisystem disorders e.g. sarcoidosis, myositis and vasculitis</li> </ul>	
Recommended Standards	<ul> <li>Multi-disciplinary service for multi-organ sarcoid including; neurology, cardiology, opthalmology, dermatology and ENT</li> </ul>	
	<ul> <li>Links with rheumatology services for management of</li> </ul>	
	multi-system connective tissue disease	
	Availability of specific investigations for sarcoidosis	
	including; PET scanning and Cardiac MRI	
	<ul> <li>Integrated clinical trials unit (linked with CLRN network) offering trial access for patients with IPF and other ILDs</li> </ul>	
4.2 Applicable stan Royal Colleges	ndards set out in Guidance and/or issued by a competent body ( s)	(e.g
Royal Colleges		(e.g
Royal Colleges		(e.g.
Royal Colleges		(e.g
Royal Colleges5. Applicable qualit5.1Applicable qu	s) ty requirements and CQUIN goals	(e.g.
Royal Colleges5. Applicable qualit5.1Applicable qu	s) ty requirements and CQUIN goals uality requirements (See Schedule 4 Parts A-D) QUIN goals (See Schedule 4 Part E)	(e.g.
Royal Colleges5. Applicable qualit5.1Applicable qualit5.2Applicable Colleges	ty requirements and CQUIN goals Uality requirements (See Schedule 4 Parts A-D) QUIN goals (See Schedule 4 Part E) the commissioner.	(e.g.
Royal Colleges         5. Applicable qualit         5.1 Applicable qualit         5.2 Applicable Qualit         5.2 Applicable Qualit         6. Location of Prov	ty requirements and CQUIN goals Uality requirements (See Schedule 4 Parts A-D) QUIN goals (See Schedule 4 Part E) the commissioner.	(e.g.
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# <mark>Appendix Two</mark>

# Quality standards specific to the service using the following template :

Quality Requirement	Threshold	Method of	Consequence of	
		Measurement	breach	
Domain 1: Preventin	a people dving prem		Dicucii	
Domain I. Proventin	g pe opie a fing pi cin			~
Improved Outcomes		1) Annual data		
for ILD patients		on Forced	0	
· · ·		vital capacity		
		and DLco		
		<ol> <li>Mortality data</li> </ol>		
Domain 2: Enhancing	g the quality of life o	f people with long-term of	conditions	
Improved ILD related		Annual collection of		
quality of life		HRQoL		
Domain 3: Helping p	eople to recover from	n episodes of ill-health o	or following injury	
		Dete to be previded		
Maximise activity of	<mark>50%</mark>	Data to be provided		
IPF patients through		by specialist centres		
participation in		on proportion of IPF		
pulmonary		patients participating		
rehabilitation		in pulmonary		
program		rehabilitation		
		programs within 12		
	th at we are le la avec a re	months of diagnosis		
Domain 4: Ensuring	that people have a p	ositive experience of car	re	
To ensure, where	50%	The proportion of		
possible, patients		patients assigned a		
receive a prompt and		diagnosis and		
accurate diagnosis		provided a		
for their ILD		management plan at		
		their first visit to an		
		ILD specialist centre		
		will be reported by		
		each centre		
Domain 5: Treating a	nd caring for people	e in a safe environment a	nd protecting them	
from avoidable harm				
Doubloom ont of joint	Т	1) Evidence of		
Development of joint		1) Evidence of		
working practices		shared care		
between specialist		protocols		
and non-specialist		2) Proportion of		
centres to ensure		patients		
patient safety and		diagnosed via		
guarantee equity of		remote		
access.	L	access MDTs		