Incidence and prevalence of interstitial lung diseases worldwide: a systematic literature review

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ABSTRACT

Interstitial lung disease (ILD) is a collective term representing a diverse group of pulmonary fibrotic and inflammatory conditions. Due to the diversity of ILD conditions, paucity of guidance and updates to diagnostic criteria over time, it has been challenging to precisely determine ILD incidence and prevalence. This systematic review provides a synthesis of published data at a global level and highlights gaps in the current knowledge base. Medline and Embase databases were searched systematically for studies reporting incidence and prevalence of various ILDs. Randomised controlled trials, case reports and conference abstracts were excluded. 80 studies were included, the most described subgroup was autoimmune-related ILD, and the most studied conditions were rheumatoid arthritis (RA)-associated ILD, systemic sclerosis associated (SSc) ILD and idiopathic pulmonary fibrosis (IPF). The prevalence of IPF was mostly established using healthcare datasets, whereas the prevalence of autoimmune ILD tended to be reported in smaller autoimmune cohorts. The prevalence of IPF ranged from 7 to 1650 per 100 000 persons. Prevalence of SSc ILD and RA ILD ranged from 26.1% to 88.1% and 0.6% to 63.7%, respectively. Significant heterogeneity was observed in the reported incidence of various ILD subtypes. This review demonstrates the challenges in establishing trends over time across regions and highlights a need to standardise ILD diagnostic criteria.

INTRODUCTION

Interstitial lung disease (ILD) is a collective term representing a diverse group of lung conditions characterised by the presence of non-infective infiltrates, most commonly in the pulmonary interstitium and alveoli, which in certain cases manifest as architectural distortion and irreversible fibrosis. These conditions vary in their aetiology, clinical pathways, severity and prognosis. Some conditions resolve completely without pharmacological intervention, whereas others, such as idiopathic pulmonary fibrosis (IPF) and non-IPF progressive fibrosing (PF) ILDs, inexorably progress to respiratory failure and premature mortality despite treatment.

Given its universally progressive nature and poor prognosis, IPF has attracted the most research attention and the current literature suggests a wide variation in disease distribution across Europe and USA. IPF prevalence varies between 0.63 and 7.6 per 100 000 persons in the USA and Europe with a sharp increase with age.

More recently, there have been several studies investigating the incidence and prevalence of non-IPF ILDs, mainly autoimmune ILDs. Most of these reviews included studies drawn from single centres. Epidemiological data for non-IPF ILDs is inconsistent which makes it challenging to fully appreciate the ILD landscape. A recent review reported the prevalence of ILD in myositis conditions ranged from 23% in America to 50% in Asia. Sambataro et al reported about 20% of primary Sjogren’s syndrome patients were diagnosed with ILD. Additionally, there have been a few studies evaluating the incidence of drug induced ILD (DILD). Guo et al reported ILD incidence ranged from 4.6 to 31.5 per 100 000 persons in Europe and North America. A recent study using Global Burden of Disease data indicated the global ILD incidence in the past 10 years has risen by 51% (313.2 cases in 1990 to 207.2 per 1 000 000 cases in 2019). These published estimates highlight a discernible variation in the ILD epidemiology across countries. It is unclear whether this is an ‘actual’ difference in the numbers across regions or whether the heterogeneity is driven by lack of guidelines and inconsistencies in ILD diagnostic pathways and standards of care. Likewise, while evidence suggests that the incidence of ILD has been rising over time, whether this increase reflects a true increase in the disease burden, possibly related to an ageing population or whether this is due to improvements in detection, increased availability of cross-sectional imaging or coding practices over time is unknown.
This systematic review appraises the published literature on the incidence and prevalence of various ILDs over the last 6 years. We aimed to provide a comprehensive understanding of global incidence and prevalence. Specifically, we sought to identify areas where data are robust, to better appreciate the burden of ILD conditions and to comprehend the implications on healthcare utilisation and resources. We also set out to highlight areas where there remains a need for further study.

METHODS

Study registration
This protocol has been drafted following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Protocols guidelines11 and registered with the International Prospective Register of Systematic Reviews, PROSPERO (CRD42020203035). Please refer to the online supplemental material for the full study protocol.

Search strategy and selection criteria
A systematic search of Medline and Embase was carried out in September 2021 to identify relevant studies investigating the incidence and prevalence of various ILDs. The search criteria were developed with support of librarian (online supplemental figure E1). Due to the high volume of papers, we restricted this study period to papers published in the past 6 years. This search was limited to human studies written in English that were published between 2015 and 2021. The full search strategy and data sources included are described in online supplemental material.

Study population
Inclusion criteria included observational studies reporting the incidence and/or prevalence of individual ILDs, with study participants aged over 18 years old. Randomised controlled trials, case reports, reviews and conference abstracts were excluded. Studies which referred to DILD only were excluded because (1) there were many abstracts reporting on DILD, therefore this could be a standalone review and (2) epidemiology of DILD was a subject of a recent systematic review.2 The first author (RG) screened all records by title and abstract; to begin with, the second reviewer (AK) independently screened 10% of all records. If there was a discrepancy between RG and AK, then additional 15% were extracted and/or reviewed by AK.

It was noted that for IPF, many authors adopted what they termed ‘broad’ and ‘narrow’ case definitions. For example, Raghu et al2 defined patients with International Classification of Disease, Ninth Revision (ICD-9) code 516.3 as a broadly defined case of IPF, and those who had this ICD-9 code alongside a claim for a surgical lung biopsy, transbronchial lung biopsy, or CT thorax as a narrowly defined case. We summarised the data using various reported case definitions. If multiple estimates were reported in a study, only the most recent estimate was included in this review.

There were two common themes around the reporting of prevalence. Studies drawn from the general population (reported prevalence per 100,000 persons) and studies drawn from multicentre or single centres (reported prevalence as the proportion of patients with ILD in the study cohort).

For this review, we have classified ILDs based on aetiology, grouped by conditions linked to environmental or occupational exposures, conditions typified by granulomatous inflammation, autoimmune ILDs and ILDs with no known cause (online supplemental figure E2).1

Evidence synthesis
The initial plan for this review was to conduct meta-analysis. However, due to high heterogeneity, we were unable to meta-analyse. Therefore, we have proceeded with data synthesis across the ILD subgroups.

RESULTS

Total number of included studies
The literature search yielded a total of 12924 studies, of which 80 were included in this review. Online supplemental figure E3 demonstrates the selection process for all studies and highlights reasons for exclusion at each stage.

Although 80 unique publications were included, some papers explored the epidemiology of more than one ILD, the total count of reported estimates is 88. Half of the included publications explored autoimmune-related ILDs (n=44/88) (online supplemental figure E4).

Geographically, ILD publications represented all major world regions, but were predominantly from Asia (n=30, 34.1%) and Europe (n=23, 26.1%) (figure 1).

Studies reporting prevalence
Eight studies reported the prevalence of IPF in general population. Prevalence of IPF was commonly reported and/or prevalence using a modified Newcastle Ottawa Scale (NOS). There were two NOS modified scales, one each for studies reporting prevalence and incidence. AK independently assessed the quality of 25% of included studies. If there was a discrepancy between the data extraction and/or quality assessment conducted by RG and AK, then additional 15% were extracted and/or reviewed by AK.

Although 80 unique publications were included, some papers explored the epidemiology of more than one ILD, the total count of reported estimates is 88. Half of the included publications explored autoimmune-related ILDs (n=44/88) (online supplemental figure E4).
applying ‘primary’, ‘broad’, ‘intermediate’ and/or ‘narrow’ case definitions. In the general population, the prevalence of IPF ranged from 7 to 1650 per 100 000 persons (table 1). When explored within various case definitions, the prevalence for ‘broad’ cases ranged from 11 (USA, 2010) to 1160 (USA, 2021); for ‘narrow’ cases, this ranged from 7 (USA, 2010) to 725 (USA, 2019). There was only one study that reported IPF prevalence of 8.6% using a multicentre study setting.

Twelve studies reported estimates for non-IPF ILDs in the general population (online supplemental figure E5), with most of these conducted in the USA. The prevalence of systemic sclerosis (SSc) ILD in the general population ranged from 2.3 (Canada, 2018) to 19 (USA, 2017) per 100 000 persons. The highest SSc-ILD prevalence was reported in Medicare data which included patients aged 65 years and above. For rheumatoid arthritis (RA) ILD, prevalence in an RA Medicare cohort was 2%.

Forty-six studies reported the prevalence of autoimmune-related ILD in cohorts of patients with an autoimmune condition or occupational ILD in workers with specific exposures. These studies primarily reported prevalence as a proportion, with the denominator representing patients with an autoimmune disorder or people working at a factory with exposure to certain agents, such as silica or asbestos (figure 2). Most of these estimates were drawn from cohorts at single or multiple tertiary centres, disease registries or a factory in the case of occupational ILD. Significant heterogeneity was noted in the reported prevalence of ILD associated with SSc, RA and Sjogren’s (figure 2). The prevalence of ILD in SSc ranged from 26.1% (Australia, 2015) to 88.1% (India, 2013). Similarly, Sjogren’s ILD ranged from 1% (Sweden, 2011) to 87.8% (Saudi Arabia, 2021). In addition to dissimilarities in the prevalence across various regions, we also observed variation within region-specific estimates. For example, the 4 studies which reported Sjogren’s ILD prevalence within China, estimated a 4-fold variation in magnitude (18.6% in 2011 to 78.6% in 2014). Likewise, for RA ILD, there was substantial variation in the reported prevalence in Egypt (0.8% vs 63.7%). Among the occupational-related ILDs (figure 2), silicosis was the most explored condition (n=8). Among these eight studies, there was a considerable variation in the reported prevalence of silicosis. Souza et al...
reported an approximately 7-fold higher estimate of silicosis prevalence than that reported by Siribaddana et al (37% vs 5.6%, respectively).  

**Studies reporting incidence**  
Significant discrepancies were observed in reported ILD incidence across subgroups and individual conditions, mainly due to differences in the study setting. Depending on the study setting and type of data source used, some authors reported an incidence rate (per 100,000 person-years), while others reported incidence proportion. **Table 2** lists IPF incidence by case classification and country, and **figure 5** provides a list of studies reporting incidence of non-IPF ILDs.

**DISCUSSION**  
In this review, we synthesised the evidence for the incidence and prevalence of ILDs from studies published between 2015 and 2021. Considering the changing ILD nomenclature and the desire to reflect more current estimates, in this review, we decided to restrict the study period to past 6 years. We took this conscious effort with the aim to limit the heterogeneity across reported estimates. We evaluated 39 incidence and 78 prevalence estimates for individual ILD disorders that were distributed globally. We noted an increase in the number of studies investigating non-IPF ILDs and more specifically autoimmune ILDs in recent years. There was a 6-fold rise in the autoimmune ILDs studies, in 2021 when compared with 2015 (18 vs 3 studies, respectively). This increase in non-IPF ILD studies may be related to the emergence of anti-fibrotic therapies for non-IPF fibrosing lung diseases. Interestingly, the publication trend for IPF has remained unchanged.

This review revealed considerable inconsistencies in the incidence and prevalence estimated of the main ILD subgroups. The reported prevalence of IPF ranged from 7 to 1650 per 100,000 persons,  

<table>
<thead>
<tr>
<th>Case definitions</th>
<th>Prevalence estimate (per 100,000 persons)</th>
<th>Case descriptions</th>
<th>Country, author-published year</th>
</tr>
</thead>
<tbody>
<tr>
<td>General/primary 36</td>
<td>Patients with at least 1 hospitalisation or at least 1 outpatient visit with IPF diagnosis</td>
<td>Italy, Harari, 2016</td>
<td></td>
</tr>
<tr>
<td>General/primary 13</td>
<td>Patients with at least 1 claim with IPF diagnosis.</td>
<td>USA, Raghu, 2016</td>
<td></td>
</tr>
<tr>
<td>Overall IPF 20</td>
<td>Patients with at least 1 IPF inpatient claim, or 2 IPF outpatient claims with ICD code with no other ILD claim</td>
<td>USA, Raimundo, 2016</td>
<td></td>
</tr>
<tr>
<td>Overall IPF 35</td>
<td>IPF diagnostic K codes</td>
<td>South Korea, Lee, 2016</td>
<td></td>
</tr>
<tr>
<td>Broad 1160</td>
<td>Patients who had a code for IPF with no other ILD</td>
<td>USA, Zhang, 2021</td>
<td></td>
</tr>
<tr>
<td>Broad 11</td>
<td>Patients with code of ICD 516.3, patients excluded if they had a claim with code 515 after the last ICD code 516.3</td>
<td>USA, Raghu, 2016</td>
<td></td>
</tr>
<tr>
<td>Broad 42</td>
<td>Patients with code ICD code J84.1, cases with diagnosis of another ILD excluded</td>
<td>Canada, Hopkins, 2016</td>
<td></td>
</tr>
<tr>
<td>Broad 22</td>
<td>Patients with IPF code and no claims for other ILD diagnosis</td>
<td>Italy, Harari, 2016</td>
<td></td>
</tr>
<tr>
<td>Broad 39</td>
<td>Patients with Read codes: H563.00, H563.12, H563300, H563.13, H563100, H563200 and H563.11</td>
<td>UK, Strongman, 2018</td>
<td></td>
</tr>
<tr>
<td>Narrow 13</td>
<td>Patients that satisfied the broad definition</td>
<td>Italy, Harari, 2016</td>
<td></td>
</tr>
<tr>
<td>Narrow 725</td>
<td>Patients who had a code for IPF</td>
<td>USA, Zhang, 2021</td>
<td></td>
</tr>
<tr>
<td>Narrow 7</td>
<td>Patients with an ICD code of 516.3 and they were excluded if they had a claim with the ICD code 515</td>
<td>USA, Raghu, 2016</td>
<td></td>
</tr>
<tr>
<td>Narrow 20</td>
<td>Patients with ICD codes J84.1 with no other ILD and excluded cases that did not have chest CT, bronchus or TLB or bronchoscopy</td>
<td>Canada, Hopkins, 2016</td>
<td></td>
</tr>
</tbody>
</table>

ICD, International Classification of Diseases; ILD, interstitial lung disease; IPF, Idiopathic pulmonary fibrosis; SLB, surgical lung biopsy; TLB, transbronchial lung biopsy.

In this study, the majority of studies reported a prevalence of IPF ranging from 7 to 42 per 100,000 persons across different case definitions. Unlike prevalence, we found considerable inconsistencies in how the incidence of IPF is reported. An important factor is the lack of uniformity in reporting units. Half of the studies reported incidence using person-years, whereas others reported per 100,000 person-years. We were, therefore, unable to compare incidence estimates in a similar fashion to prevalence. It is also important to note that changes in diagnostic guidelines for IPF over the years may have made it more challenging to accurately estimate its burden and temporal trends.

For non-IPF subgroups, such as autoimmune ILDs, there were wide variations in prevalence estimates between countries and within different healthcare settings in the same country. Overall, the variation in prevalence and incidence estimates was even greater for non-IPF ILDs than IPF. This can be attributed to several factors. First, in clinical practice, it is common for the clinical presentation and serological autoantibody profiles to result in overlap syndromes. Autoimmune conditions can coexist and patients with occupational ILDs may also have autoimmune conditions. Such fluidity of diagnoses at a clinical level reflects the challenges in estimating non-IPF ILDs. Second, the denominator more frequently differs for non-IPF ILDs, resulting in lack of standardised reporting. Unlike IPF, for which there are published validated algorithms to identify ‘true’ cases in the general population. For non-IPF ILDs, studies relied on disease registries or were conducted at single/multispecialist clinics.

Majority of the autoimmune-related ILD estimates were in RA and SSc ILD. When assessing SSc ILD prevalence, we observed a wide range (26.1% to 88.1%) in reported estimates, but when studies were dichotomised into single-centre studies and multicentre studies, it became clear that the highest variability was contributed by single centre studies (SSc prevalence, 31.2%–88.1%). Owing to a smaller number of studies reporting incidence, we were unable to observe whether the same challenge existed. The prevalence of silicosis ranged from 5.6% to 37% in workers exposed to silica. Occupational ILD studies...
were conducted at a factory, in a neighbourhood with proximity to industries, a registry or multicentre settings. Therefore, lack of generalisability and applicability of findings only to certain populations contributed largely to the wide variabilities of these reported estimates. The geographical distribution of occupational ILD papers alludes to dominance of exposure related ILDs in low-income and middle-income countries in Asia and South America (42.8% were in Asia).

While historical diagnostic classification has been founded on underlying aetiology or clinical pathways, there is now a growing emphasis on disease behaviour.98 99

Table 2  Published estimates of IPF incidence, stratified by various case definitions

<table>
<thead>
<tr>
<th>Incidence estimate</th>
<th>Case definitions</th>
<th>Case descriptions</th>
<th>Country, author, published year</th>
</tr>
</thead>
<tbody>
<tr>
<td>183.3 per 100 000 persons</td>
<td>NR</td>
<td>Self-reported</td>
<td>UK, Belbasis, 202117</td>
</tr>
<tr>
<td>5.8 per 100 000 py</td>
<td>Primary</td>
<td>Patients with at least one claim for idiopathic fibrosing alveolitis</td>
<td>USA, Raghu, 20162</td>
</tr>
<tr>
<td>5.2 (5.1–5.4) per 100 000 persons</td>
<td>General</td>
<td>Patients with at least one hospitalisation or at least one outpatient visits with IPF diagnosis</td>
<td>Italy, Harari, 201613</td>
</tr>
<tr>
<td>12.9 per 100 000 persons</td>
<td>Overall</td>
<td>Diagnostic codes</td>
<td>South Korea, Lee, 201615</td>
</tr>
<tr>
<td>35.8 per 100 000 persons</td>
<td>Overall</td>
<td>Diagnostic codes</td>
<td>South Korea, Lim, 201978</td>
</tr>
<tr>
<td>3.6–5.1 per 100 000 py</td>
<td>Broad</td>
<td>Primary patients with an exclusion of ICD code 515 after the last diagnosis code 516.3.</td>
<td>USA, Raghu, 20162</td>
</tr>
<tr>
<td>18.7 per 100 000 persons</td>
<td>Broad</td>
<td>Patients with IPF diagnosis excluding cases with a diagnosis for another ILD</td>
<td>Canada, Hopkins, 201617</td>
</tr>
<tr>
<td>331 per 100 000 py</td>
<td>Broad</td>
<td>Patients who had a diagnosis code for IPF</td>
<td>USA, Zhang, 202116</td>
</tr>
<tr>
<td>3.7 (3.6–3.9) per 100 000 persons</td>
<td>Broad</td>
<td>Patients that satisfied the general definition and had no claims with another ILD</td>
<td>Italy, Harari, 201613</td>
</tr>
</tbody>
</table>
| 8.7 (8.4–8.9) per 100 000 py | Broad | Included Read codes
  ► Idiopathic fibrosing alveolitis
  ► Cryptogenic fibrosing alveolitis
  ► Idiopathic fibrosing alveolitis NOS
  ► Usual interstitial pneumonia (UIP)
  ► IPF | UK, Strongman, 201818 |
| 2.4–2.9 per 100 000 py | Narrow | Broad cases further restricted by requiring a claim for a surgical lung biopsy, TLB or CT thorax scan | USA, Raghu, 20162 |
| 9 per 100 000 persons | Narrow | Patients with IPF diagnosis excluding cases that did not have chest CT, bronchus or lung biopsy, or bronchoscopy record | Canada, Hopkins, 201617 |
| 2.3 (2.2–2.5) per 100 000 persons | Narrow | Patients that satisfied the broad definition
  ► Patients with a claim for SLB, TLB or CT thorax | Italy, Harari, 201613 |
| 2.8 (2.7–3) per 100 000 py | Narrow | Additional Read codes to the broad definition | UK, Strongman, 201818 |
| 210 per 100 000 py | Narrow | Patients who had a diagnosis code for IPF
  ► And no other ILD diagnosis
  ► Patients with SLB or a CT thorax before the last IPF diagnosis | USA, Zhang, 202116 |
| 48.5 per 100 000 persons | Definition 1 | ICD codes; (bronchoalveolar lavage, BAL) or lung biopsy | South Korea, Gjonbrataj, 201579 |
| 32.2 per 100 000 persons | Definition 2 | Diagnostic ICD code and HRCT, bronchoalveolar lavage or SLB | South Korea, Gjonbrataj, 201579 |
| 16.2 per 100 000 persons | Definition 3 | ICD code | South Korea, Gjonbrataj, 201579 |
| 11.4 per 100 000 persons | Definition 4 | ICD code and HRCT, BAL or SLB; and | South Korea, Gjonbrataj, 201579 |
| 11.4 per 100 000 persons | Definition 5 | ICD code based on the 2011 international statement. | South Korea, Gjonbrataj, 201579 |

Details on the study population, sample size and ILD diagnosis methods are summarised in online supplemental tables E1–E31.

HRCT, high-resolution CT; ICD, International Classification of Disease; ILD, interstitial lung disease; IPF, idiopathic pulmonary fibrosis; NOS, Newcastle Ottawa scale; NR, not reported; py, person-years; SLB, surgical lung biopsy; TLB, transbronchial lung biopsy.
Attention has focused on a subgroup of ILD patients who go on to develop a PF phenotype. IPF is the archetypal PF ILD but other ILDs such as chronic hypersensitivity pneumonitis (HP), SSc ILD can exhibit ‘IPF-like’ behaviour, including rapid decline in lung function and early mortality. The epidemiology of PF ILD is particularly challenging to examine as accepted guidelines on definition and diagnosis have yet to be published. The reported prevalence of PF ILDs (per 100,000 persons) was 19.4 in France and 57.8 in the USA. The future direction of research will likely focus on PF ILD as a phenotype which transcends previously adhered-to diagnostic labels and is associated with poorer outcomes and increased mortality.

Among the 39 studies reporting ILD incidence, grouped by ILD subgroups. ICD-9-CM, International Classification of Disease, Ninth Revision, Clinical Modification; ILD, interstitial lung disease; py, person-years; RA, rheumatoid arthritis; SSc, systemic sclerosis. Narrow silicosis definition used: Medicare beneficiaries with any claim that included ICD-9-CM code 502, pneumoconiosis due to other silica or silicates, listed in any position during 1999–2014, with at least one inpatient, skilled nursing or home health agency claim, or at least two outpatient provider claims within 365 days of each other and cases with a chest X-ray or CT scan 30 days before or 30 days after a silicosis claim. Details on the study population, sample size and ILD diagnosis methods are summarised in online supplemental tables E1–E3.
prevalence of several ILD conditions globally and have grouped ILDs based on their aetiology to allow the appraisal of incidence and/prevalence at a disease level with as much granularity as possible. This review underlines the need for standardisation of diagnostic classifications for non-IPF ILDs—the narrower estimates for IPF provide the evidence that clear and consistent diagnostic guidelines are of great clinical utility. Guidelines have recently emerged for the diagnosis of HP and is also a key risk factor for other ILDs such as RA. This gain of function polymorphism is frequent in those of European decent but almost completely absent in those of African ancestry. As more research is performed on the role of African ancestry, genetic variability will be found to play an important role in the global variability of ILD.

It is possible that genetic differences between individuals from different ethnic backgrounds may play a role in the global variability in incidence and prevalence. For example, the MUC5B promoter polymorphism (rs35705950) is the dominant risk factor for IPF and is also a key risk factor for other ILDs such as RA. This gain of function polymorphism is frequent in those of European decent but almost completely absent in those of African ancestry. As more research is performed unravelling the complex interplay between genetics and environment in the development of ILD, it is likely that genetic variability will be found to play an important role in the global variability of ILD.

Despite the strengths, there are limitations to this systematic review. The certainty of the ILD case definition varied across studies. It was not always possible to be sure of how reliable the ascertainment method was. However, we attempted to reflect the differences in the ILD diagnostic methods in our risk of bias quality assessment. Along with the uncertainty in the diagnosis of ILD, there were different disease definitions used across studies. Therefore, in this review due to high heterogeneity, in how ILD was defined, we were unable to perform a meta-analysis. In this review, we have only included studies reporting ILD estimates in general populations, registries or populations with a specific disorder of interest. For single-centre studies reporting incidence and/or prevalence of autoimmune or exposure ILDs, the estimates were not generalisable and this has been reflected in the risk of bias quality assessment score. This review is limited to English publications only. However, due to high volume of papers found with the study period, we are confident it has a minimal effect on the overall conclusion.

CONCLUSION
This review highlights the lack of uniformity in the published estimates of incidence and prevalence of ILD conditions. In addition, there is a dissimilarity in disease definitions across the studies and geographical regions. Owing to these discrepancies, we were unable to derive estimates for the global incidence and prevalence of ILD and moreover unable to confirm whether there has been a ‘true’ increase in ILD incidence over time. Revisions to diagnostic criteria have augmented the challenges of estimating incidence and prevalence of individual ILD conditions and determining the drivers for temporal trends in incidence. Improving our estimates of the burden of fibrosing lung conditions is essential for future health service planning, a need that has been heightened by the development of new antifibrotic treatments. Guidelines have recently emerged for non-IPF ILDs, we envisage this may improve the epidemiological reporting for future research. There is a fundamental need to standardise ILD diagnosis, disease definitions and reporting in order to provide the data which will drive the provision of a consistently high level of care for these patients across the globe.


