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### **Residual Lung Abnormalities Following COVID-19** Hospitalization: Interim Analysis of the UKILD Post-COVID Study

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# SCHOLARONE<sup>™</sup> Manuscripts

# Residual lung abnormalities following COVID-19 hospitalization: interim analysis of the UKILD Post-COVID study

#### (Running head) Lung damage burden after COVID-19 hospitalization

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#### 9.23 Interstitial Lung Disease

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#### At a Glance Commentary

**Current scientific knowledge on the subject:** Current studies highlight persistent breathlessness and radiological patterns suggestive of lung fibrosis, as well as shared genetic architecture with idiopathic pulmonary fibrosis, in people who are discharged following severe COVID-19 hospitalisation. Survivors of COVID-19 may develop parenchymal abnormalities consistent with lung fibrosis.

What this study adds to the field: This study assesses the risk factors for residual lung abnormalities, provides evidence of persistent abnormalities within a year of discharge from over 200 CT scans, and estimates the prevalence of lung abnormalities after discharge to be up to 11% in a broad range of COVID-19 severity. The findings emphasise the importance for health services to undertake active radiological and physiological monitoring to assess progression or resolution over time.

This article is open access and distributed under the terms of the Creative Commons Attribution 4.0 International License (<u>https://creativecommons.org/licenses/by/4.0/</u>). Some of the results of these studies have been previously reported in the form of a preprint (medRxiv, 16 March 2022 https://www.medrxiv.org/content/10.1101/2022.03.10.22272081v2)"

This article has an online data supplement, which is accessible from this issue's table of content online at www.atsjournals.org.

#### Abstract

**Rationale.** Shared symptoms and genetic architecture between COVID-19 and lung fibrosis suggests SARS-CoV-2 infection may lead to progressive lung damage.

**Objectives.** The UKILD Post-COVID study interim analysis was planned to estimate the prevalence of residual lung abnormalities in people hospitalized with COVID-19 based on risk strata.

**Methods.** The Post-HOSPitalisation COVID Study (PHOSP-COVID) was used for capture of routine and research follow-up within 240 days from discharge. Thoracic CTs linked by PHOSP-COVID identifiers were scored for percentage of residual lung abnormalities (ground glass opacities and reticulations). Risk factors in linked CT were estimated with Bayesian binomial regression and risk strata were generated. Numbers within strata were used to estimate post-hospitalization prevalence using Bayesian binomial distributions. Sensitivity analysis was restricted to participants with protocol driven research follow-up.

**Measurements and Main Results.** The interim cohort comprised 3700 people. Of 209 subjects with linked CTs (median 119 days, interquartile range 83-155), 164 people (79.6%) had >10% involvement of residual lung abnormalities. Risk factors included abnormal chest X-ray (RR 1·21 95%CrI 1·05; 1·40), percent predicted DLco<80% (RR 1·25 95%CrI 1·00; 1·56) and severe admission requiring ventilation support (RR 1·27 95%CrI 1·07; 1·55). In the remaining 3491 people, moderate to very-high risk of residual lung abnormalities was classified in 7·8%, post-hospitalization prevalence was estimated at 8.5% (95%CrI 7.6%; 9.5%) rising to 11.7% (95%CrI 10.3%; 13.1%) in sensitivity analysis.

**Conclusions.** Residual lung abnormalities were estimated in up to 11% of people discharged following COVID-19 related hospitalization. Health services should monitor atrisk individuals to elucidate long-term functional implications.

#### **1.0** Introduction

Long term symptoms of COVID-19 have been widely reported and can have a severe impact on quality of life, frequently characterized by chronic breathlessness.[1-3] Postmortem studies on COVID-19 patients have highlighted diffuse parenchymal alterations, including alveolar damage, exudation, and development of pulmonary fibrosis, which may explain chronic respiratory symptoms in survivors.[4-6]

A number of studies have identified similarities between severe COVID-19 and idiopathic pulmonary fibrosis (IPF), an archetypal interstitial lung disease (ILD). These include shared genetic etiology, [7, 8] circulating biomarkers, [9, 10] similarities in pulmonary function and radiological features.[11] Viral injury may promote lung fibrosis, and chronic viral infection has been shown to be associated with developing IPF.[12] Consequently, survivors of COVID-19 may develop parenchymal abnormalities consistent with ILD, including radiological patterns of ground glass opacities and reticulations.

To understand the potential risk of COVID-19 leading to the development of longer term ILD and fibrosis, the UKILD-Post COVID study aims to investigate the risk factors and nature of long term lung damage from COVID-19 in a longitudinal observational study. To support clinical and research management, this planned interim analysis of the UKILD-Post COVID study addresses the extent of residual lung abnormalities post hospitalization following completion of an early follow-up visit of the prospective Post-HOSPitalisation COVID-19 Study (PHOSP-COVID). [13]

#### 2.0 Methods

#### 2.1 Participants

This interim analysis was restricted to participants of the PHOSP-COVID study, a prospective longitudinal cohort study of adults discharged from National Health Service hospitals across the United Kingdom following admission for confirmed or clinical-diagnosed COVID-19, previously described in detail.[14]

Individuals withdrawing consent from PHOSP-COVID were excluded. Individuals being managed for an *a priori* diagnosed interstitial lung disease or pulmonary fibrosis as recorded by site teams using hospital notes were identified by hand searches of comorbidities and subsequently excluded.

#### 2.2 Interim Study Design

Interim participants were discharged by end of March 2021 representing wave 1 of the pandemic, interim data were collected up to October 2021 and were restricted to within 240 days of discharge. Analyses were performed with data recorded through routine follow-up (PHOSP-COVID Tier 1) and those with completed early research follow-up visits (PHOSP-COVID Tier 2). Clinically indicated thoracic CT scans were identified through the PHOSP-COVID study via linkage to a radiological database, linked CT scans were requested at clinical discretion. The presence of residual lung abnormalities on volumetric CTs was scored on a lobar basis; percentage involvement of ground glass opacities, reticulations, or the sum of involvement were averaged across lobes to quantify residual abnormality. [15] The primary outcome was visually scored residual abnormalities >10% lung involvement on CT.[15]

Risk factors implicated in worse outcomes following COVID-19 hospitalization of individuals with ILD were described.[16] These included sex, age, ethnicity, Body Mass Index (BMI), and Index of Multiple Deprivation (IMD). A modified WHO clinical progression scale was used to define the severity of admission (i. no supplemental oxygen ii. supplemental oxygen only; iii. continuous positive airway pressure (CPAP); iv. invasive mechanical ventilation (IMV), extra-corporeal membrane oxygenation (ECMO)). Abnormal chest X-ray reports were classified at follow-up, defined as "suggestive of lung fibrosis", "extensive persistent changes greater than 1/3 lung involvement" and "indeterminate", compared with "other" or "normal". Breathless and cough symptoms were recorded at follow-up with the Patient Symptom Questionnaire developed for the PHOSP-COVID Study.[14] Percent predicted values for Forced Vital Capacity (ppFVC) and Diffusion capacity across the Lung

for carbon monoxide (ppDLco) were obtained at follow-up visits and calculated using GLI reference equations.

#### 2.3 Statistical analysis

Risk factor data were presented descriptively overall, according PHOSP-COVID Tier, and within the sample of linked and scored CTs. Chi-square tests were performed on nonmissing categories. Residual abnormalities on paired CT scans were tested with paired ttest; changes in scored residual lung abnormalities over time were estimated using linear mixed effect models, with random effects of timing at the level of the individual, adjusted for sex and IMD. A random sample of 70 CT scans were tested for inter-rater agreement by Cohen's kappa ( $\kappa$ ) with a second radiologist blinded to scores.

Univariate relative risk ratios of threshold >10% residual abnormalities, and difference in involvement on CT, were modelled with dichotomized exposure variables. Bayesian binomial and linear associations were estimated using 12,500 Markov Chain Monte Carlo iterations including a burn-in of 2,500 and 10,000 subsequent simulations using random-walk Metropolis Hastings sampling. Non-informative, flat priors were selected and estimates were reported with 95% credible interval (95%CrI). Linear associations were additionally adjusted for demographics of sex and IMD.

Clinical risk factors with consistent significant effects were selected to develop risk strata of suspected residual lung abnormalities Post-COVID hospitalization. For the indexing of risk strata, missing data on clinical indicators were imputed to the reference (lowest risk) category. The percentage of participants within moderate to very-high risk strata and no CT scored were defined as at-risk. Hospital admissions were compared between at-risk groups using chi-square, 15 index admission variables were selected from 61 by least absolute shrinkage and selection operator.

Bayesian inference with binomial distribution of at-risk cases and non-cases,[17] was used to estimate the prevalence of suspected residual lung abnormalities Post-COVID hospitalization within 240 days of discharge, reported with the 95%CrI. MCMC simulations

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were run as described above. Non-informative, uniform, beta priors were used and compared in sensitivity analyses with uniform Jeffrey's priors, as well as skeptical and power priors informed by published population studies of ILD.[18, 19] Sensitivity analyses were performed in PHOSP-COVID Tier 2 research follow-up participants where data completeness was greater. Analyses were performed in Stata SE16.0 within the Scottish National Safe Haven Trusted Research Environment.

#### 3.0 Results

#### 3.1 Cohort demographics and patterns of lung damage

A total of 3700 PHOSP-COVID participants reached criteria for inclusion in the interim UKILD cohort. This included 1304 patients with data available through routine clinical care (Tier 1) and 2396 who had completed an early follow-up research visit within 240 days of discharge (Tier 2; Figure 1). We observed that 255/3700 people of the interim cohort (6.9%) had a linkable thoracic CT scan performed, 220 were performed in Tier 2 participants (9.2% of 2396) and 35 were performed in Tier 1 participants (2.7% of 1304, p<0.001). Of 255 participants with linked CT scans within 240 days of discharge (median 113 days; IQR 69 to 166, Supplementary Figure 1), a total of 209 (82.0%) were visually scored with inter-rater agreement on 70% of scans (Cohen's  $\kappa$  0.33). Participants with a CT scored were majority male (68.4%), white (68.9%), had a median age of 58 (52 to 67) and had a median time to early follow-up visit of 140 days (IQR 106 to 170) (Table 1).

Residual lung abnormalities >10% were observed in 166/209 participants (79.4%). Visual scoring of involvement indicated ground glass opacities affected a mean 25.5% ±15.9 of the lung, reticulation a mean 15.1% ±11.0, with residual abnormalities involving in a mean a 40.6% ±20.8 of the lung (Figure 2A). 33 people had a repeat CT visually scored after a minimum of 90 days (median 161 days; IQR 109 to 187), 28/33 (84.8%) of whom were classified with residual abnormalities >10% on the initial scan, with 26/28 (92.9%) observed to have >10% involvement in subsequent scans. In paired analysis the overall

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change in residual lung abnormalities was -3.62% (95%CI -6.10; -1.13, p=0.006; Figure 2B). The involvement of lung reticulations and ground glass opacities did not significantly change with a mean difference of -2.08% (95%CI -4.66; 0.51, p=0.112) and -1.54% (95%CCI -4.74; 1.39, p=0.293), respectively (Figure 2C-2D). Using all scored CT scans, the mean weekly change in lung involvement was estimated at -0.13% per week (95%CI -0.20; -0.05) for reticulations and -0.13% per week (95%CI -0.22; -0.04) for ground glass opacities (Figure 2E). The weekly change in residual lung abnormalities was -0.20% per week (95%CI -0.28; -0.11, Figure 2F). Representative CT images of residual lung abnormality demonstrated persistent involvement >100 days post discharge (Figure 3).

Overall, the median time to follow-up in the UKILD interim cohort (N=3700) was 127 days (IQR 91 to 173), the median age was 59 (IQR 50 to 68) and the cohort was majority male (60.7%). Tier 1 participants (n=1304) had a median time to follow-up of 101 days (IQR 82 to 138), a median age of 60 (IQR 51 to 70) and the majority were male (58.9%); demographics were similar in Tier 2 participants (n=2396) with a median time to research visit of 141 days (IQR 100 to 180), a median age of 59 (IQR 50 to 67) and a majority male (61.7%) (Table 1). There was minimal evidence of systematic bias in the characteristics between Tier 2 and Tier 1 participants in non-missing data (Table 1), although the representation of people aged below 60 was greater in Tier 2 participants (52.5% vs 48.8%; p=0.027), similarly there were small differences in representation of ethnicity (p<0.001), greater representation of the lowest deprivation quintile (19.1% vs 16.1%; p=0.031), as well as lower representation of normal CXR (32.5% vs 39.2%; p=0.004).

Tier 2 participants had a median ppFVC at research follow-up of 90.2% (IQR 78.6 to 101.6) with missing records at 55.5%, whilst median ppDLCO was 87.5% (IQR 74.0 to 101.3) with missing records at 78.8%; lung function was largely missing in routine follow-up of Tier 1 participants. We observed 34.6% of people reported worsening cough or dyspnea since discharge in Tier 2. ILD diagnostic criteria of lung function (ppFVC and ppDLCO), CXR and symptoms was frequently missing, particularly in Tier 1 of clinical follow-up

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(Supplementary Figure 2). In Tier 1, 578/1304 (44.3%) were missing data on all four characteristics at interim analysis, whilst in Tier 2, 362/2396 people (15.1%) were missing data on all four characteristics. In contrast, a total of 202 Tier 2 participants had complete data on all (8.4%), no Tier 1 participants had complete lung function, CXR or symptom data. In the subsample of participants with scored CTs, data was missing at a rate similar to Tier 2 for lung function (ppDLco 70.3%; ppFVC 60.8%), CXR (47.4%), and Patient Symptom Questionnaire (43.1%) (Table 1).

3.2 Risk of residual lung abnormalities and persistence over time.

Univariate risk ratios were calculated to assess the risk of residual lung abnormalities >10% on CT. A greater risk was observed in males (RR 1.42 95%CrI 1.17; 1.77) and in those over 60 years of age (RR 1.22 95%CrI 1.06; 1.40). Clinical indicators, including severe illness on admission requiring CPAP, IMV or ECMO (RR 1.40 95%CrI 1.23; 1.63), abnormal CXR findings (RR 1.40 95%CrI 1.22; 1.61), and ppDLco <80% (RR 1.26 95%CrI 1.02; 1.58) were also associated with greater risk, with consistent effects for the relative mean difference of percent involvement after adjustment for sex and deprivation quintile (Table 2).

Three significant clinical indicators were selected to index the risk of residual lung abnormalities Post-COVID in the remaining cohort (n=3491) based on combined thresholds: ppDLco <80%; abnormal CXR; and severe illness on admission. Individuals were considered to be at very-high risk when reaching the defined thresholds in all three indicators (risk index 4), high risk when two thresholds were reached (risk index 3), or moderate risk if reaching ppDLco or CXR thresholds alone (risk index 2). Individuals reaching the threshold of severity of illness on admission alone were considered low-risk in the absence of other indicators (risk index 1). Those who did not reach any threshold were considered very low risk (risk index 0). A total 14/3419 participants (0.4%) were considered very-high risk, 143/3419 at high risk (4.1%), and 116/3419 at moderate risk (3.3%), 1256/3419 at low risk (36.0%) and 1962/3419 at very-low risk (56.2%) (Table 3). Combined, 273/3419 (7.8%) people in strata of moderate to very-high risk were

defined as at-risk, 8/46 (17.4%) people with an unscored clinically indicated CT were atrisk. In sensitivity analyses applying risk stratification to Tier 2 alone, 231/2219 (10.4%) people were at moderate to very-high risk including 20% of those with an unscored clinically indicated CT (Table 3).

No differences were observed between at-risk participants (n=273) and participants with >10% residual abnormalities on CT (n=166) according to representation of males, older age, ethnicity, deprivation, BMI, severity of admission, ppFVC <80% or Patient Symptom Questionnaire (Supplementary Table 1). There was lower representation of normal CXR in the at-risk group (14.7% vs 30.1%, p<0.001) and more representation of ppDLco <80% (55.3% vs 14.5%, p<0.001). The percentage of people who did not have a severe admission requiring CPAP, ECMO or IMV was similar in both groups (44.3% vs 45.2%), whilst CXR was missing in 26.0% of the at-risk group and 48.2% of people with residual abnormalities scored.

Comparing at-risk participants to low-risk participants, there were more records of immunosuppressant (18.3% vs 9.9%, p=0.001) and corticosteroid treatments (35.3% vs 26.5%, p=0.019) pre-admission, intensive care unit stays (50.0% vs 33.4%, p<0.001), and complications of acute respiratory distress syndrome (ARDS; 25.0% vs 13.7%, p<0.001) (Supplementary Table 2). Additionally, there were more recorded unscheduled emergency visits post discharge (34.8% vs 25.2%, p=0.001), with a greater representation of visits where patients presented with symptoms of shortness of breath (33.7% vs 24.3%, p=0.046). Findings were similar in comparisons of CT scored residual lung abnormalities >10% compared to those not reaching this threshold, although statistical significance was not always met (Supplementary Table 2).

Based on the distribution of at-risk cases, the prevalence of residual lung abnormalities post-COVID hospitalization was estimated at 8.51% (95%CrI 7.56; 9.51%) using non-informative priors, or 6.49% (95%CrI 5.75; 7.27) with skeptical priors based on ILD population prevalence estimated at 1 in 1,000 (Table 4, Supplementary Figure 3).[18, 19] In sensitivity analyses based on Tier 2 distribution, the prevalence of residual lung

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abnormalities post-COVID hospitalization was estimated at 11.67% (95%CrI 10.28; 13.14) using non-informative priors, or 7.74% (95%CrI 6.79; 8.72) using skeptical priors.

#### 4.0 Discussion

These data demonstrate that residual lung abnormalities were visually identifiable on clinically indicated thoracic follow-up CT imaging in a substantial proportion of patients within 8 months of discharge following COVID-19 hospitalization. The involvement of scored residual lung abnormalities minimally declined per week following discharge, whilst minimal resolution was observed in paired subsequent scans at least 90 days apart. Key clinical risk factors associated with residual abnormalities in the early follow-up period included abnormal CXR, ppDLco <80% and severe admissions requiring invasive support (IMV, CPAP, ECMO). In those without a scored CT, 0.4% were in very-high risk strata (all three indicators present), 4.1% in high risk strata (any two indicators present), and 3.3% in moderate risk strata (presence of either ppDLco<80% or abnormal CXR, alone). Combining these risk strata, 7.8% of the interim cohort had suspected residual lung abnormalities Post-COVID hospitalization, which increased to 10.4% in sensitivity analysis on those with planned research follow-up. Based on Bayesian modelling, we estimate the prevalence of suspected residual lung abnormalities with >10% lung involvement to be up to 11.7% in people hospitalized with acute COVID-19 infections before March 2021.

This UKILD Post-COVID interim analysis of residual abnormalities in patients hospitalized for COVID-19 offers the largest assessment of prevalence in hospitalized individuals to date, and is consistent with findings from a number of smaller studies that demonstrate persistent radiological patterns and impaired gas transfer during extended follow-up of patients with COVID-19.[20-23] At the time of this interim analysis it is not possible to determine whether the observed residual lung abnormalities represent early interstitial lung disease (ILD) with potential for progression, or whether they reflect residual pneumonitis that may be stable or resolve over time.[24] The 10% threshold used was determined to support distinction of interstitial lung damage from interstitial lung abnormalities.[15] Longer term follow-up and mechanistic studies will be required to determine the clinical trajectory of these observations.

Where linked longitudinal scans were available most patients did not show evidence of substantial improvement, although such clinically requested CTs may be over-represented by those with slower recovery. However, approximately half the people with visually scored residual abnormalities above the 10% threshold did not require CPAP, IMV or ECMO during their admission and less than one quarter had ARDS recorded as a complication, suggesting medium and longer term disability consequent to severe COVID-19 infection, consistent with prior studies. [18]

The risk factors for residual abnormality as scored in the CT subsample (abnormal CXR, ppDLco <80% and severe admissions requiring invasive support) were applied to the remaining hospitalized cohort to generate clinically applicable risk strata. For participants in receipt of a clinically indicated but unscored CT, 17.4% of people were in moderate to very-high risk strata for residual lung abnormalities (sensitivity 20.0%). These rates were similar to meta-analysis estimates of the percentage of clinically indicated CT scans with radiological patterns suggestive of fibrosis (29%; 95%CI 22% to 37%) and people with impaired gas transfer (17%; 95%CI 13% to 23%), neither of which were associated with timing of follow-up within the first year post-COVID.[25] In paired CT scans greater than 90 days apart we demonstrate no significant difference in the mean change for percent involvement of reticulations and ground glass opacities, whilst the scored involvement of reticulations and ground glass opacities based on all CT scans declined by 0.13% per week of study from discharge, suggesting persistence over time in at-risk groups.

Differences between individuals at moderate to very high risk and those at lower risk suggested more immunosuppressant and corticosteroid treatment pre-admission, intensive care unit stays and ARDS complications, as well as further unscheduled emergency visits post discharge both overall and including presentation with breathlessness. Classification of at-risk participants using clinically applicable strata identified those who may have had a more severe viral injury and inflammatory response

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during acute infection, as well as subsequent respiratory exacerbations post COVID. Recent analysis identified a hyper inflammatory phenotype of COVID-19 related ARDS was associated with worse outcomes, with better survival linked to corticosteroid treatment.[26] Surviving a hyper inflammatory response to COVID-19 may be consistent with residual lung abnormalities, including fibrosing non-specific interstitial pneumonia and alveolar damage.[27]

Residual lung abnormalities Post-COVID were not uncommon in this hospitalized population and may persist long-term, but indicators that could support diagnosis and clinical management of lung disease were frequently unavailable. Considering approximately 280,000 people were discharged following confirmed COVID-19 admission in the UK National Health Service by end of March 2021,[28] these results emphasize the importance for health services to undertake active radiological and physiological monitoring especially in people at moderate, or above, risk.[15]

#### 4.1 Strengths and Limitations

The UKILD long-COVID cohort excluded participants with any evidence of ILD prior to hospitalization, and we used informative skeptical priors and power priors for more conservative estimates of prevalence, which continued to suggest a substantial burden of residual lung abnormalities Post-COVID hospitalization. The approach we report can be reasonably applied to other cohorts and time points, with current findings used as informative priors for updating Bayesian inference.

Whilst included CTs were assumed to be representative of clinically indicated radiology, this is limited by local management protocols, timing of services, and changes to healthcare service prioritization during the COVID-19 pandemic, which increases chances of selection and ascertainment bias. Furthermore, individuals with linked CT may have unrecorded pre-existing disease or present with radiological patterns other than reticulation and ground glass opacities. Fair inter-rater agreement (kappa 0.33) of CT scoring was observed, representing agreement in 70% of scans.

We recognize these interim findings may also be limited by misclassification. Descriptive analyses identified substantial missing data in clinical risk factors, limiting multiple imputation techniques. We used dichotomized thresholds with single data imputation at the reference category to support risk strata classification, maintain denominators, and provide conservative estimates. In contrast, lung involvement of reticulation and ground glass opacities was frequently scored on CTs which were clinically indicated, contributing to selection bias. It is similarly likely that repeat CT scans reflect a sample of individuals that did not experience clinical improvement over time. We report estimates from multilevel models to support interpretation of residual lung abnormalities over time.

Whist our findings are based on people hospitalized with mixed severity of COVID-19 infection, we recognize that they may not be generalizable to all populations especially those people not admitted to hospital. Severe admissions requiring CPAP or IMV were over-represented in the PHOSP-COVID dataset relative to hospitalized survivors of COVID-19.[14] Linked clinical admission data suggested 50% of at-risk individuals and those scored with residual abnormalities attended intensive care units during admission, and up to 25% had complications of anemia and ARDS. Furthermore, these data reflect people who were discharged before end of March 2021, and do not represent later SARS-CoV-2 variants in fully vaccinated populations that more frequently led to milder infections.

#### 4.2 Conclusion

Thresholds of ppDLco, CXR and severity of admission can stratify risk of residual abnormalities on CT involving more than 10% of the lung, informing clinical management particularly of individuals meeting moderate to very-high risk strata. Longitudinal analysis of CT scans suggested persistence of abnormalities over study time, although the longer term functional consequence is unknown and may be limited by clinical indication. These findings highlight the importance of radiological and physiological monitoring of patients at both early and later follow-up, and suggest up to 11% of people discharged from an acute COVID-19 admission are at risk of residual lung abnormalities. Further study is

required to elucidate progressive development of radiological patterning, or resolution over time.

for Review Only

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#### **Competing Interests**

JJ reports fees from Boehringer Ingelheim, F. Hoffmann-La Roche, GlaxoSmithKline, NHSX, Takeda and patent: UK patent application number 2113765.8 all unrelated to the submitted work. PMG reports honoraria from Boehringer Ingelheim, Roche, AstraZeneca, Cipla, Brainomix. JCP reports grants from LifeArc, NIHR, Breathing Matters, consulting fees from Carrick Therapeutics, AstraZeneca and honoraria from The Limbic. RAE reports

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speaker fees from Boehringer Ingelheim and membership positions on European Respiratory Society and American Thoracic Society committees. PM reports consulting fees from EUSA pharma and SOBI, and honoraria from SOBI, UCB, Lilly, and Abbvie. MGS reports grants from NIHR, MRC, board positions on Pfizer External Data Monitoring Committee and Integrum Scientific LLC Infectious Disease Scientific Advisory Board, member positions of HMG UK SAGE and MHG UK NERVTAG, stocks in Integrum Scientific LLC and MedEx Solutions Ltd, gifts from Chiesi Farmaceutici S.p.A. AART reports grants and travel support from Janssen-Cilag Ltd. CEB reports consultancy fees paid to institution from GSK, AstraZeneca, Sanofi, Boehringer Ingelheim, Chiesi, Novartis, Roche, Genentech, Mologic, 4DPharma, TEVA. LVW reports recent and current research funding from GSK and Orion, and consultancy from Galapagos. RGJ reports honoraria from Chiesi, Roche, PatientMPower, AstraZeneca, GSK, Boehringer Ingelheim, and consulting fees from Bristol Myers Squibb, Daewoong, Veracyte, Resolution Therapeutics, RedX, Pliant, Chiesi. All remaining authors declare no competing interests.

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#### **Figure Legends**

#### Figure 1. CONSORT Flow diagram of UKILD interim cohort definition

White boxes derived from PHOSP-COVID database. Blue boxes represent CT sample linked with PHOSP-COVID identifiers a radiological database.

#### Figure 2. Extent of residual lung abnormalities on linked CT

A) Mean percentage lung involvement of reticulations, ground glass opacities, and residual abnormalities within 240 days of discharge with visually scored involvement >10%, presented with standard deviation (n=166). Percentage lung involvement of B) residual abnormalities, C) reticulations and D) ground glass opacities at initial and repeat CT scans with >90days between (n=33), with p-values from paired t-test. E) Estimated percent lung involvement of ground glass opacities (top, blue) and reticulations (bottom, red) from linear mixed effects by weeks post discharge (n=209, scans=242), F) estimated percent lung involvement of residual abnormalities from linear mixed effects by weeks post discharge, presented with mean weekly effect and 95% confidence intervals (n=209, scans=242).

#### Figure 3. Representative CT images of residual lung abnormalities

Representative A) coronal and B) axial non-contrast CT imaging from the same individual performed at 137 days post discharge following a COVID-19 admission, scored with 52.5% total lung involvement of residual lung abnormality of which 18.3% reticulation and 34.2% ground glass opacity. Peripheral reticulation (arrows) is evident surrounded by faint areas of ground glass density. Representative coronal CT images from the same individual at C) 114 days post discharge scored with 56.8% lung involvement (28.5% reticulation; 28.3% ground glass opacity) and D) 239 days post discharge scored with 49.2% total lung involvement (20.0% reticulation; 29.2% ground glass opacity). Peripheral areas of reticulation (black arrow) and ground glass density (white arrow) in the right lung.

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### Table 1: UKILD interim cohort demographics

	In	terim	CT score		Ti	er 1	Ti	er 2	χ <sup>2</sup> pval
	N=3700	percent	n=209	percent	n=1304	percent	n=2396 percent		
Sex									0.091
Male	2247	60.7%	143	68.4%	768	58.9%	1479	61.7%	
Female	1450	39.2%	66	31.6%	535	41.0%	915	38.2%	
Age									0.027
60+	1801	48.7%	99	47.4%	667	51.2%	1134	47.3%	
<60	1895	51.2%	110	52.6%	636	48.8%	1259	52.5%	
Ethnicity									<0.001
White	2804	75.8%	144	68.9%	1015	77.8%	1789	74.7%	
Asian	467	12.6%	40	19.1%	144	11.0%	323	13.5%	
Black	223	6.0%	15	7.2%	56	4.3%	167	7.0%	
Other	131	3.5%	6	2.9%	31	2.4%	100	4.2%	
Missing	75	2.0%			58	4.4%	17	0.7%	
IMD									0.031
1 Most	867	23.4%	38	18.2%	326	25.0%	541	22.6%	
2	817	22.1%	40	19.1%	268	20.6%	549	22.9%	
3	666	18.0%	41	19.6%	251	19.2%	415	17.3%	
4	659	17.8%	38	18.2%	241	18.5%	418	17.4%	
5 Least	667	18.0%	50	23.9%	210	16.1%	457	19.1%	
Missing	24	0.6%			8	0.6%	16	0.7%	
BMI									0.491
<25	262	7.1%	22	10.5%	45	3.5%	217	9.1%	
25 - <30	612	16.5%	59	28.2%	84	6.4%	528	22.0%	
30 - <40	880	23.8%	67	32.1%	121	9.3%	759	31.7%	
>=40	230	6.2%	12	5.7%	30	2.3%	200	8.3%	
Missing	1716	46.4%	49	23.4%	1024	78.5%	692	28.9%	
WHO severity									0.826
No O2 (i)	624	16.9%	35	16.7%	223	17.1%	401	16.7%	
Non-invasive O2 (ii)	1567	42.4%	77	36.8%	557	42.7%	1010	42.2%	
CPAP (iii)	860	23.2%	34	16.3%	306	23.5%	554	23.1%	
IMV (iv)	645	17.4%	63	30.1%	217	16.6%	428	17.9%	
CXR at follow-up									<0.004
Normal	1289	34.8%	70	33.5%	511	39.2%	778	32.5%	

Other	325	8.8%	19	9.1%	140	10.7%	185	7.7%	
Abnormal	162	4.4%	21	10.0%	45	3.5%	117	4.9%	
Missing	2139	57.8%	36	41.4%	677	52.2%	1462	60.8%	
CT at follow-up									
Linked records	255	6.9%	209	100.0%	35	2.7%	220	9.2%	< 0.001
Scored	209	5.6%	209	100.0%	29	2.2%	180	7.5%	< 0.001
Symptoms at follow-up									0.636
Present - worsen	850	23.0%	74	35.4%	21	1.6%	829	34.6%	
Present - no change	319	8.6%	21	10.0%	11	0.8%	308	12.9%	
Not present/improved	359	9.7%	24	11.5%	9	0.7%	350	14.6%	
Missing	2172	58.7%	90	43.1%	1263	96.9%	909	37.9%	
ppFVC at follow-up									-
80%+	786	21.2%	53	25.4%			773	32.3%	
<80%	297	8.0%	29	13.9%			294	12.3%	
Missing	2617	70.7%	127	60.8%	1288	98.8%	1329	55.5%	
ppDLco at follow-up									-
80%+	333	9.0%	37	17.7%			333	13.9%	
<80%	177	4.8%	25	12.0%			175	7.3%	
Missing	3190	86.2%	147	70.3%	1302	99.8%	1888	78.8%	
	Median	IQR	Median	IQR	Median	IQR	Median	IQR	
Age	59	50, 68	58	52 <i>,</i> 67	60	51, 70	59	50, 67	
ppFVC	90.3	78.6, 101.7	87.0	75.0 <i>,</i> 98.8	-		90.2	78.6, 101.6	-
ppDLco	87.6	74.2, 101.3	84.7	69.9, 96.2	-		87.5	74.0, 101.3	-
Time to follow-up	127	91, 173	140	106, 170	101	82, 138	141	100, 180	

Small numbers <5 have been suppressed. Chi-squared ( $\chi^2$ ) performed between Tier 1 and Tier 2 on non-missing categories. IMD: index of multiple deprivation in quintiles, BMI: body mass index, WHO: modified World Health Organisation severity score, CXR: chest X-ray, CT: computed tomography – chest, Symptoms: Patient Symptom Questionnaire breathless or cough, ppFVC: percent predicted forced vital capacity, ppDLco: percent predicted diffusion capacity across the lung for carbon monoxide.

Characteristic	Risk factor present (%)	Risk factor absent (%)	Univariate risk ratio	95% Credible Interval	Estimated mean difference (%)	95% Credible Interval	Adjusted mean difference (%)	95% Credible Interval
Male	87.4%	62.1%	1.42	(1.17; 1.77)	12.46	(5.76; 19.59)	11.26	(4.24; 18.04)
Age 60+	87.9%	71.8%	1.22	(1.06; 1.40)	8.29	(2.11; 14.44)	8.57	(3.61; 16.16)
Non-white	78.5%	79.9%	0.97	(0.84; 1.12)	3.48	(-3.78; 10.88)	3.84	(-4.95; 9.37)
IMD (Q1/2)	87.2%	74.4%	1.17	(1.02; 1.34)	6.91	(0.38; 13.33)	6.28	(-0.31; 12.91)
BMI >30	87.3%	71.6%	1.22	(1.04; 1.45)	3.93	(-3.70; 11.52)	4.54	(-2.40; 11.65)
CPAP/IMV	93.8%	67.0%	1.40	(1.23; 1.63)	20.56	(14.80; 26.36)	20.14	(14.34; 25.69)
aCXR	100.0%	73.0%	1.40	(1.22; 1.61)	14.96	(3.89; 25.78)	11.54	(0.53; 21.59)
ppFVC <80	86.2%	79.3%	1.07	(0.85; 1.31)	10.40	(-0.90; 22.00)	11.99	(-0.14; 23.52)
ppDLco <80	96.0%	75.7%	1.26	(1.02; 1.58)	19.04	(7.65; 30.71)	15.31	(2.84; 28.06)
PSQ worse	78.4%	80.0%	0.99	(0.81; 1.21)	4.49	(-4.58; 13.54)	4.71	(-4.31; 13.87)

#### Table 2: Risk factors of residual lung abnormalities on CT

Percentage of non-missing case observations reaching >10% threshold of residual lung abnormalities according to risk factor being present or absent. Univariate risk ratio (RR) of >10% threshold of residual lung abnormalities and 95% credible interval derived from binomial regression, mean effect difference in % lung involvement where risk factor present relative to risk factor absent estimated from univariate linear regression and adjusted for sex and index of multiple deprivation. Index of multiple deprivation (IMD); Body mass index (BMI); continuous positive airway pressure or invasive mechanical ventilation (CPAP/IMV); abnormal chest x-ray (aCXR); percent predicted forced vital capacity (ppFVC); percent predicted diffusion capacity across the lung for carbon monoxide (ppDLco); Patient Symptom Questionnaire (PSQ).

Interim cohort										
Strata	Unscored (N=3491)	Percent	Sensitivity (n=2219)	Percent						
Very high	14	0.4%	14	0.6%						
High	143	4.1%	123	5.5%						
Moderate	116	3.3%	94	4.2%						
Low	1256	36.0%	767	34.6%						
Very low	1962	56.2%	1221	55.0%						
Linked CT: un	scored									
	Interim (n=46)	Percent	Sensitivity (n=40)	Percent						
At-risk	8	17.4%	8	20.0%						
Low risk	38	82.6%	32	80.0%						

# Table 3: Risk stratification of residual lung abnormalities in unscored UKILDinterim cohort

Risk strata: very high – all three risk factors present (abnormal CXR, ppDLco <80%, severe admission requiring CPAP or IMV). High – at least two risk factors present. Moderate – either abnormal CXR or ppDLco<80% present. Low – severe admission present only. Very low – risk factors not present. Missing data were imputed at the reference category. Percent denominator is interim cohort without linked, scored CT (n=3491) and sensitivity analysis within Tier 2 research visit participants (n=2219). Moderate to very-high risk combined to at-risk; low to very-low risk combined to low risk, quantified in people with unscored linked CT.

Model	Prevalence (%)	95% Crl	Prior	а	b	DIC
1	8.51	(7.56; 9.51)	Uniform	1	1	9.38
1-i	8.48	(7.52;9.49)	Jeffreys	0.5	0.5	9.45
1-ii	6.49	(5.75; 7.27)	Skeptical	1	1000	28.67
1-iii	7.37	(6.53; 8.24)	Power	1	1000	14.99
2	11.67	(10.28; 13.14)	Uniform	1	1	9.20
2-i	11.61	(10.19; 13.04)	Jeffreys	0.5	0.5	9.27
2-ii	7.74	(6.79; 8.72)	Skeptical	1	1000	45.97
2-iii	9.32	(8.17; 10.54)	Power	1	1000	20.91

# Table 4: Prevalence estimate of residual lung abnormalities >10% followingCOVID-19 hospitalisation

Estimated prevalence of >10% residual lung abnormalities on CT following hospitalization for COVID-19, derived from posterior mean and 95% credibility interval using binomial distributions of at-risk vs low-risk numbers in interim UKILD cohort. Model 1, overall; Model 2, Tier 2 research visit participants. Uniform priors and in sensitivity analysis with Jeffreys non-informative (i), skeptical informative priors (ii) and skeptical informative priors with power weighting (iii). Beta prior distributions defined using cases (a) and non-cases (b). Deviance information criterion (DIC) presented to interpret model.

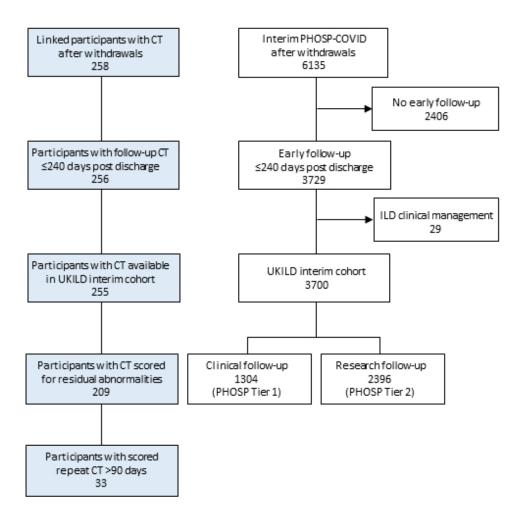
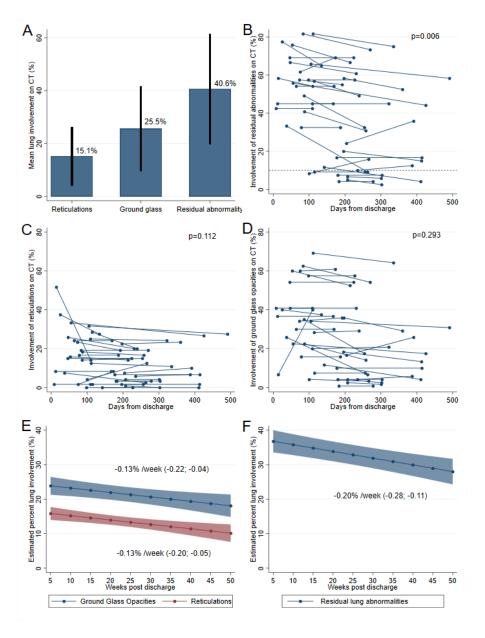
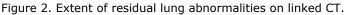


Figure 1. CONSORT Flow diagram of UKILD interim cohort definition. White boxes derived from PHOSP-COVID database. Blue boxes represent CT sample linked with PHOSP-COVID identifiers a radiological database.

109x119mm (118 x 118 DPI)





A) Mean percentage lung involvement of reticulations, ground glass opacities, and residual abnormalities within 240 days of discharge with visually scored involvement >10%, presented with standard deviation (n=166). Percentage lung involvement of B) residual abnormalities, C) reticulations and D) ground glass opacities at initial and repeat CT scans with >90days between (n=33), with p-values from paired t-test. E) Estimated percent lung involvement of ground glass opacities (top, blue) and reticulations (bottom, red) from linear mixed effects by weeks post discharge (n=209, scans=242), F) estimated percent lung involvement of ground glass opacities involvement of residual abnormalities from linear mixed effects by weeks post discharge, presented with mean weekly effect and 95% confidence intervals (n=209, scans=242).

149x199mm (118 x 118 DPI)

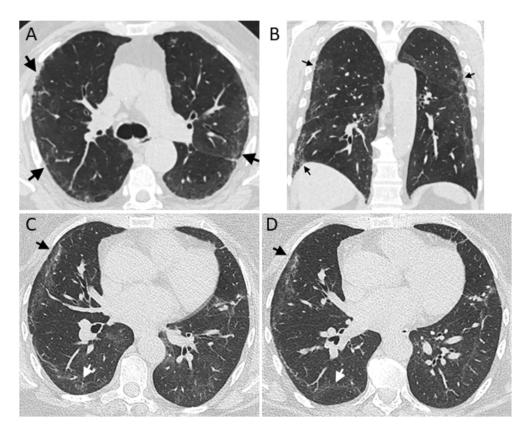


Figure 3. Representative CT images of residual lung abnormalities.Representative A) coronal and B) axial non-contrast CT imaging from the same individual performed at 137 days post discharge following a COVID-19 admission, scored with 52.5% total lung involvement of residual lung abnormality of which 18.3% reticulation and 34.2% ground glass opacity. Peripheral reticulation (arrows) is evident surrounded by faint areas of ground glass density. Representative coronal CT images from the same individual at C) 114 days post discharge scored with 56.8% lung involvement (28.5% reticulation; 28.3% ground glass opacity) and D) 239 days post discharge scored with 49.2% total lung involvement (20.0% reticulation; 29.2% ground glass opacity). Peripheral areas of reticulation (black arrow) and ground glass density (white arrow) in the right lung.

49x39mm (300 x 300 DPI)

## Residual lung abnormalities following COVID-19 hospitalization: interim analysis of the UKILD Post-COVID study

#### (Running head) Lung damage burden after COVID-19 hospitalization

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#### ONLINE DATA SUPPLEMENT

	Interim At-risk >10% involvement						
							χ² pval
- Cov	N=3700	percent	N=273	percent	N=166	percent	0.205
Sex	2247	60.7%	102	70.7%	125	75.20/	0.295
Male	2247	60.7%	193		125	75.3%	
Female	1450	39.2%	80	29.3%	41	24.7%	0.455
Age	4004	40 70/	162	50.00/	07	53.40/	0.155
60+	1801	48.7%	162	59.3%	87	52.4%	
<60	1895	51.2%	111	40.7%	79	47.6%	
Ethnicity		== 00/	100	79.00/		60.00/	0.567
White	2804	75.8%	199	72.9%	115	69.3%	
Asian	467	12.6%	41	15.0%	31	18.7%	
Black	223	6.0%	15	5.5%	11	6.6%	
Other	131	3.5%	sn	sn	sn	sn	
Missing	75	2.0%	sn	sn	sn	sn	
IMD							0.076
1 Most	867	23.4%	72	26.4%	32	19.3%	
2	817	22.1%	63	23.1%	36	21.7%	
3	666	18.0%	48	17.6%	31	18.7%	
4	659	17.8%	54	19.8%	28	16.9%	
5 Least	667	18.0%	35	12.8%	37	22.3%	
BMI							0.416
<25	262	7.1%	29	10.6%	15	9.0%	
25 - <30	612	16.5%	90	33.0%	43	25.9%	
30 - <40	880	23.8%	81	29.7%	58	34.9%	
>=40	230	6.2%	20	7.3%	11	6.6%	
Missing	1716	46.4%	52	19.0%	39	23.5%	
WHO severity							0.123
No O2 (i)	624	16.9%	21	7.7%	16	9.6%	
Non-invasive O2 (ii)	1567	42.4%	100	36.6%	59	35.5%	
CPAP (iii)	860	23.2%	73	26.7%	30	18.1%	
IMV (iv)	645	17.4%	79	28.9%	61	36.7%	
CXR							< 0.001
Normal	1289	34.8%	40	14.7%	50	30.1%	
Other	325	8.8%	21	7.7%	15	9.0%	
Abnormal	162	4.4%	141	51.6%	21	12.7%	
Missing	1924	52.0%	71	26.0%	80	48.2%	
CT		021070		_0.070		.0.1270	< 0.001
Performed	255	6.9%	8	2.9%	166	100.0%	
PSQ: cough/breathless			_	,			0.277
Present - worsen	850	23.0%	116	42.5%	58	34.9%	0.2,7
Present - no change	319	8.6%	22	8.1%	19	11.4%	
Not present/improved	359	9.7%	34	12.5%	17	10.2%	
	2172	58.7%	101	37.0%	72	43.4%	
Missing	21/2	50.770	101	57.070	72	43.470	0.920
ppFVC 80%+	786	21.2%	97	35.5%	42	25.3%	0.920
	297	8.0%	56	20.5%	42 25	25.5% 15.1%	
<80%							
Missing	2617	70.7%	120	44.0%	99	59.6%	10.001
ppDLco	222	0.0%	12	1 00/	20	16 00/	<0.001
80%+	333	9.0%	13	4.8%	28	16.9%	
<80%	177	4.8%	151	55.3%	24	14.5%	
Missing	3190	86.2%	109	39.9%	114	68.7%	

# Supplementary Table 1: Comparison of demographics between visually scored >10% residual abnormalities and at-risk group

Small numbers  $\leq 5$  have been suppressed. Chi-squared ( $\chi^2$ ) performed on non-missing categories. IMD: index of multiple deprivation in quintiles, BMI: body mass index, WHO: modified World Health Organisation severity score, CXR: chest X-ray, CT: computed tomography – chest, PSQ: Patient Symptom Questionnaire, ppFVC: percent predicted forced vital capacity, ppDLco: percent predicted diffusion capacity across the lung for carbon monoxide.

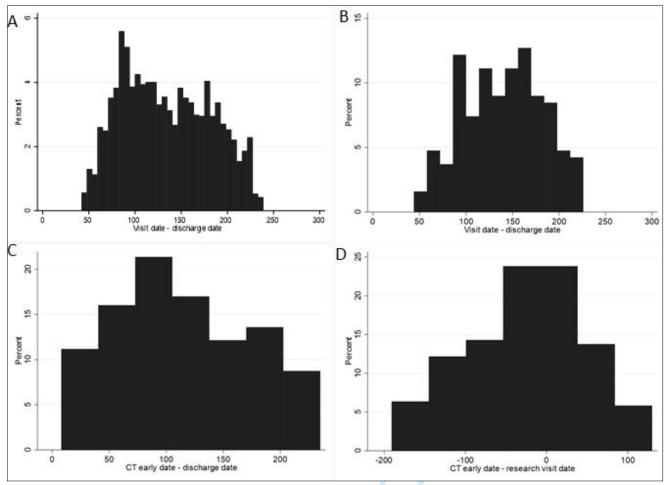
	No C	T scored (n=	3491)	Abnorma	alities score	d (n=209)
	At-risk	Low-risk	χ² pval	>10%	<10%	χ² pval
Pre admission						
Treatment for infection	23.4%	14.7%	0.004	19.6%	11.5%	0.342
Immunosuppressant	18.3%	9.9%	0.001	10.3%	3.9%	0.305
Corticosteroid treatment	35.3%	26.5%	0.019	33.3%	23.1%	0.318
Renal replacement therapy	9.0%	3.8%	0.002	9.7%	0.0%	0.099
lonotrope treatment	25.2%	12.7%	< 0.001	24.7%	7.7%	0.059
Admission						
Muscle aches	27.9%	24.7%	0.374	26.3%	50.0%	0.020
Headache	13.0%	16.9%	0.212	11.1%	19.2%	0.270
Sore throat	9.1%	8.8%	0.888	11.1%	0.0%	0.075
Intensive care unit	50.0%	33.4%	< 0.001	50.0%	15.4%	0.002
Invasive therapy	35.5%	20.1%	< 0.001	41.9%	7.7%	0.001
Oxygen	89.7%	79.4%	0.002	85.0%	61.5%	0.009
Complications						
Anaemia	15.1%	11.1%	0.138	23.9%	3.9%	0.023
Acute Respiratory Distress Syndrome	25.0%	13.7%	< 0.001	17.4%	11.5%	0.473
Liver dysfunction	7.9%	5.2%	0.157	12.0%	7.7%	0.540
Discharged home	44.7%	44.9%	0.937	48.2%	60.5%	0.151
Post discharge						
≥1 unscheduled emergency visit	34.8% 🧹	25.2%	0.001	15.7%	11.6%	0.507
≥1 unscheduled emergency visit*	24.5%	16.2%	< 0.001	13.3%	sn	0.258
Symptoms of emergency visit			n=906			n=31
Shortness of breath	33.7%	24.3%	0.046	34.6%	sn	0.818
Cough	14.7%	9.7%	0.129	sn	sn	0.656

#### Supplementary Table 2: Comparison of hospital admissions

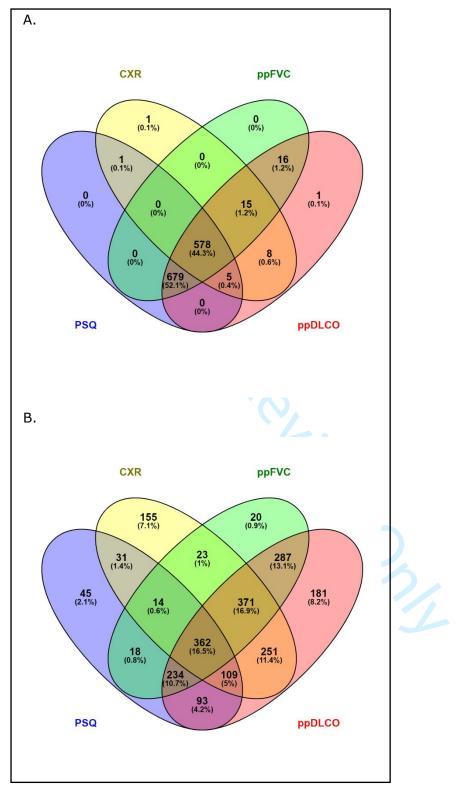
Percentages based on small numbers have been suppressed (sn). Index admission variables from linked ISARIC4C dataset were selected from a list of 61 using least absolute shrinkage and selection operator, using last lamda for at-risk associations (8 non zero coefficients) and >10% involvement associations (6 non-zero coefficients). Post discharge recorded in PHOSP-COVID Study. \*indicates participants with a minimum of 12 months research follow-up completed.

### Supplementary Figure 1. Histograms of follow-up time.

Where CTs were performed and linked. The time from discharge to follow-up visit in the interim cohort (A) and in those with CT scored (B) are plotted. Time between CT date and discharge date (C), and CT date to follow-up visit (D) are plotted.



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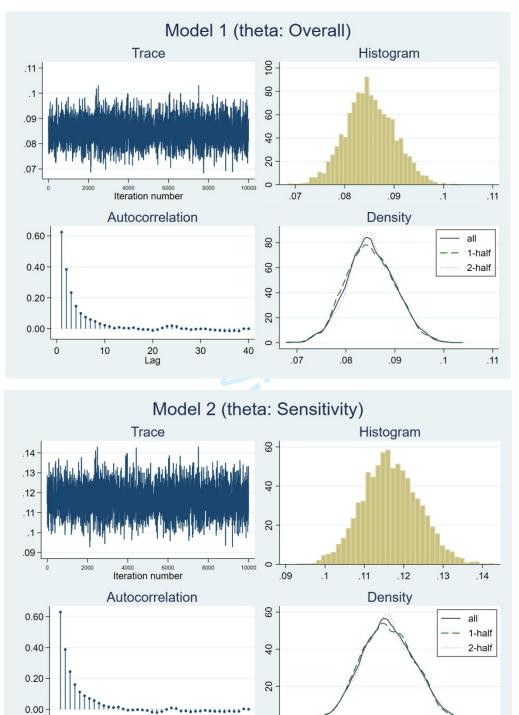


Supplementary Figure 2. Missing records in ILD diagnostic indicators

Missing data and representative percentage of missing data are reported for A) Tier 1 (n=1304) and B) Tier 2 (n=2396, of which 2194 had a missing value in one of the records) according to ppFVC (percent predicted forced vital capacity), ppDLco (percent predicted DLco gas transfer), PSQ (patient symptom questionnaire, cough and/or breathlessness), CXR (chest X-ray). *Venny (2007-2015) https://bioinfogp.cnb.csic.es/tools/venny/index.html* 

## **Supplementary Figure 3. Convergence traces**

Bayes convergence diagnostics provided for prevalence of suspected Post-COVID ILDam in hospitalised participants <240 days with non-informative flat priors (Model 1), and sensitivity based on cases in Tier 2 alone (Model 2).



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Brown	M	King's College London
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Clarke	J	Leeds Teaching Hospitals
Clohisey	S	NHS Lothian
Coakley	G	Lewisham & Greenwich NHS Trust
Coburn	Z	Sheffield Teaching NHS Foundation Trust
Coetzee	S	Hywel Dda University Health Board
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Coleman	C	University of Nottingham
Conneh	F	Oxford University Hospitals NHS Foundation Trust
Connell	D B	NHS Tayside Queen's University Belfast
Connolly Connor	L	Swansea Bay University Health Board
Cook	A	Swansea Bay University Health Board
Cooper	В	University Hospital Birmingham NHS Foundation Trust
Cooper	J	Wrightington Wigan and Leigh NHS trust
Cooper	S	Liverpool University Hospitals NHS Foundation Trust
Copeland	D	Imperial College Healthcare NHS Trust
Cosier	Т	East Kent Hospitals University NHS Foundation Trust
Coulding	Μ	Tameside and Glossop Integrated Care NHS Foundation Trust
Coupland	С	Leeds Teaching Hospitals
Сох	E	University of Nottingham
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Finney	S	University of Leicester
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Finnigan	L	University of Sheffield
Fisher	Н	Newcastle upon Tyne Hospitals NHS Foundation Trust
Fletcher	S	University Hospital Southampton NHS Foundation Trust
Flockton	R	Hull University Teaching Hospitals NHS Trust
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Fraile	E	The Great Western Hospital Foundation Trust
Francis	С	Newcastle upon Tyne Hospitals NHS Foundation Trust
Francis	R	Stroke Association
Francis	S	Nottingham University
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Garner	L	Royal Papworth Hospital NHS Foundation Trust
Gautam	N	University Hospital Birmingham NHS Foundation Trust
Geddes	JR	Oxford University Hospitals NHS Foundation Trust
George	J	NHS Tayside & University of Dundee
George	Р	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Gibbons	М	Royal Devon and Exeter NHS Trust
Gill	М	Sherwood Forest Hospitals NHS Foundation Trust
Gilmour	L	NHS Greater Glasgow and Clyde Health Board
Gleeson	F	Oxford University Hospitals NHS Foundation Trust
Glossop	J	Leeds Teaching Hospitals
Glover	S	University Hospitals of Leicester NHS Trust
Goodman	Ν	University Hospitals of Leicester NHS Trust
Goodwin	С	Sherwood Forest Hospitals NHS Foundation Trust
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Hall	I	University of Nottingham
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Halling-Brown	М	Royal Surrey NHS Foundation Trust
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Над	S	Imperial College Healthcare NHS Trust
Hardwick	ΗE	Liverpool University Hospitals NHS Foundation Trust
Hardy	E	Salford Royal NHS Foundation Trust
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Hayday	А	Kings College Hospital NHS Foundation Trust
Haynes	Μ	Cardiff and Vale University Healthy Board
Hazeldine	J	University Hospital Birmingham NHS Foundation Trust
Hazelton	Т	East Kent Hospitals University NHS Foundation Trust
Heaney	LG	Belfast Health & Social Care Trust
Heeley	С	Sherwood Forest Hospitals NHS Foundation Trust
Heeney	JΓ	University of Cambridge
Heightman	М	University College London Hospital
Henderson	М	University of Leeds
Hesselden	L	Sheffield Teaching NHS Foundation Trust
Hewitt	M	Kettering General Hospital NHS Trust
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Hillman	Т	University College London Hospital
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Holbourn	A	Sheffield Teaching NHS Foundation Trust
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Holdsworth	L	Hull University Teaching Hospitals NHS Trust
Holgate	- D	Salford Royal NHS Foundation Trust
Holland	М	East Cheshire NHS Trust
Holloway	L	Sherwood Forest Hospitals NHS Foundation Trust
Holmes	К	NIHR Office for Clinical Research Infrastructure
Holmes	Μ	Sherwood Forest Hospitals NHS Foundation Trust
Holroyd-Hind	В	Sheffield Teaching NHS Foundation Trust
Holt	L	Sheffield Teaching NHS Foundation Trust
Hormis	А	The Rotherham NHS Foundation Trust
Horsley	А	Manchester University NHS Foundation Trust
Hosseini	А	Nottingham University Hospitals NHS Trust
Hotopf	Μ	South London and Maudsley NHS Foundation Trust
Houchen	L	University Hospitals of Leicester NHS Trust
Howard	K	York & Scarborough NHS Foundation Trust
Howard	L	Imperial College London
Howell	A	Sheffield Teaching NHS Foundation Trust
Hufton	E	University of Nottingham

Hughes	A D	University College London
Hughes	J	Newcastle upon Tyne Hospitals NHS Foundation Trust
Hughes	R	Hywel Dda University Health Board
Humphries	А	Leeds Teaching Hospitals & University of Leeds
Huneke	Ν	University of Southampton
Hurditch	Е	Sheffield Teaching NHS Foundation Trust
Hurst	J	Royal Free London NHS Foundation Trust
Husain	М	University of Oxford
Hussell	т	Manchester University NHS Foundation Trust
Hutchinson	J	Sherwood Forest Hospitals NHS Foundation Trust
Ibrahim	W	University Hospitals of Leicester NHS Trust
Ilyas	F	Sheffield Teaching NHS Foundation Trust
Ingham	J	The Rotherham NHS Foundation Trust
Ingram	L	University Hospitals of Leicester NHS Trust
Ionita	D	York & Scarborough NHS Foundation Trust
Isaacs	К	University Hospital Birmingham NHS Foundation Trust
Ismail	К	King's College London
Jackson	Т	University Hospital Birmingham NHS Foundation Trust
Jacob	J	University College London Hospital
James	WY	Barts Health NHS Trust
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Jenkins	R G	Imperial College London
Jezzard	Р	Oxford University Hospitals NHS Foundation Trust
Jiwa	К	Newcastle upon Tyne Hospitals NHS Foundation Trust
Johnson	С	Royal Papworth Hospital NHS Foundation Trust
Johnson	S	University of Nottingham
Johnston	D	Imperial College London
Jolley	Cl	King's College Hospital NHS Foundation Trust
Jones	D	University of Leicester
Jones	G	Newcastle upon Tyne Hospitals NHS Foundation Trust
Jones	Н	Cambridge University Hospitals NHS Foundation Trust
Jones	I	Cardiff University, National Centre for Mental Health
Jones	L	Cardiff and Vale University Healthy Board
Jones	M	University Hospital Southampton NHS Foundation Trust
Jones	S	Action for Pulmonary Fibrosis
Jose	S	Cambridge University Hospitals NHS Foundation Trust
Kabir	T	McPin Foundation
Kaltsakas	G	Guy's and St Thomas' NHS Foundation Trust
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Kaprowska	s T	Liverpool University Hospitals NHS Foundation Trust
Kausar	Z	Manchester University NHS Foundation Trust
Keenan	N	East Cheshire NHS Trust
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Key	AL	Liverpool University Hospitals NHS Foundation Trust
Khan	F	University of Nottingham
Khunti	K	University Hospitals of Leicester NHS Trust
Kilroy	S	Tameside and Glossop Integrated Care NHS Foundation Trust
King	B	Belfast Health & Social Care Trust
King	C	Imperial College Healthcare NHS Trust
Kirk	J	Sherwood Forest Hospitals NHS Foundation Trust
Kitterick	P	University of Nottingham
Klenerman	P	University of Oxford
Knibbs	L	Cardiff and Vale University Healthy Board
Knight	S	Salford Royal NHS Foundation Trust
Knighton	A	King's College Hospital NHS Foundation Trust
Kon	0	Imperial College Healthcare NHS Trust
Kon	S	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
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Manley	R	Betsi Cadwallader University Health Board
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Marino	Р	Guy's and St Thomas' NHS Foundation Trust
Mariveles	М	Imperial College Healthcare NHS Trust
Marks	М	London School of Hygiene & Tropical Medicine
Marouzet	Е	University Hospital Southampton NHS Foundation Trust
Marsh	S	Liverpool University Hospitals NHS Foundation Trust
Marshall	В	University Hospital Southampton NHS Foundation Trust
Marshall	Μ	Sheffield Teaching NHS Foundation Trust
Martin	J	Hampshire Hospitals NHS Foundation Trust
Martineau	А	Barts Health NHS Trust
Martinez	LM	Guy's and St Thomas' NHS Foundation Trust
Maskell	N	North Bristol NHS Trust & University of Bristol
Matila	D	Royal Free London NHS Foundation Trust
Matimba-Mupaya	W	Salisbury NHS Foundation Trust
Matthews	L	Nottingham University Hospitals NHS Trust
Mbuyisa	A	Sheffield Teaching NHS Foundation Trust
McAdoo	S	Imperial College London
Weir McCall	1	University of Cambridge
McAllister-Williams	Н	Newcastle University
McArdle	A	University of Liverpool
McArdle	P	University of Birmingham Belfast Health & Social Care Trust
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McGarvey	L	Belfast Health & Social Care Trust
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McGinness	J	Belfast Health & Social Care Trust
McGlynn	K	University of Oxford
, McGovern	А	University of Exeter
McGuinness	н	Hywel Dda University Health Board
McInnes	ΙB	NHS Greater Glasgow and Clyde Health Board
McIntosh	J	Tameside and Glossop Integrated Care NHS Foundation Trust
Mclvor	E	Betsi Cadwallader University Health Board
McIvor	К	Manchester Centre for Clinical Neurosciences, Salford Royal NHS Foundation Trust
McLeavey	L	Imperial College Healthcare NHS Trust
McMahon	А	Imperial College Healthcare NHS Trust Kidney Research UK NHS Dumfries and Galloway Salford Royal NHS Foundation Trust University Hospitals of Leicester NHS Trust
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McNarry	Μ	Swansea University
McNeill	J	Sheffield Teaching NHS Foundation Trust
McQueen	A	Cardiff and Vale University Healthy Board
McShane	H	Oxford University Hospitals NHS Foundation Trust
Mears	C	Liverpool University Hospitals NHS Foundation Trust
Megson	C	Oxford University Hospitals NHS Foundation Trust
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Mencias	M	St George's University Hospitals NHS Foundation Trust
Menzies	D	Betsi Cadwallader University Health Board
Merida Morillas	M	University College London Hospital
Michael	A	Royal Papworth Hospital NHS Foundation Trust
Milligan	L	MQ Mental Health Research,
Miller	c	University of Manchester
Mills	c	Harrogate and District NHD Foundation Trust
Mills	NL	BHF Centre for Cardiovascular Science, University of Edinburgh
Milner	L	Sheffield Teaching NHS Foundation Trust
Misra	S	Sheffield Teaching NHS Foundation Trust
Mitchell	J	Imperial College London
Mohamed	А	Hywel Dda University Health Board

Mohamed	N	Imperial College Healthcare NHS Trust
Mohammed	S	NHS Tayside
Molyneaux	ΡL	Imperial College London
Monteiro	W	University Hospitals of Leicester NHS Trust
Moriera	S	Imperial College Healthcare NHS Trust
Morley	А	North Bristol NHS Trust & University of Bristol
Morrison	L	North Bristol NHS Trust & University of Bristol
Morriss	R	University of Nottingham
Morrow	А	NHS Greater Glasgow and Clyde Health Board
Moss	ΑJ	University of Leicester
Moss	Р	University of Birmingham
Motohashi	K	University of Oxford
Msimanga	N	St George's University Hospitals NHS Foundation Trust
Mukaetova-Ladinska	E	University of Leicester
Munawar Murira	J	Imperial College Healthcare NHS Trust Leeds Teaching Hospitals
Nanda	IJ	University Hospitals of Derby and Burton
Nassa	н	Aneurin Bevan University Health Board
Nasseri	M	The Hillingdon Hospitals NHS Foundation Trust
Neal	A	University Hospital Birmingham NHS Foundation Trust
Needham	R	Nottingham University Hospitals NHS Trust
Neill	Р	NHS Dumfries and Galloway
Neubauer	S	Oxford University Hospitals NHS Foundation Trust
Newby	DE	University of Edinburgh
Newell	н	Sheffield Teaching NHS Foundation Trust
Newman	Т	Sheffield Teaching NHS Foundation Trust
Newton-Cox	А	University Hospital Birmingham NHS Foundation Trust
Nicholson	т	King's College London
Nicoll	D	Oxford University Hospitals NHS Foundation Trust
Nolan	СM	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Noonan	ΜJ	Liverpool University Hospitals NHS Foundation Trust
Norman	С	Sheffield Teaching NHS Foundation Trust
Novotny	Р	University of Leicester
Nunag	J	Imperial College Healthcare NHS Trust
Nwafor	L U	Sheffield Teaching NHS Foundation Trust
Nwanguma Nyaboko	1	Imperial College Healthcare NHS Trust University Hospital Birmingham NHS Foundation Trust
O'Donnell	ĸ	University of Glasgow
O'Brien	C	Kings College Hospital, Guys and St Thomas NHS FT
O'Brien	L	Hywel Dda University Health Board
O'Regan	D	Imperial College London
Odell	Ν	Manchester University NHS Foundation Trust
Ogg	G	Oxford University Hospitals NHS Foundation Trust
Olaosebikan	0	Royal Free London NHS Foundation Trust
Oliver	С	Cardiff and Vale University Healthy Board
Omar	Z	Hywel Dda University Health Board
Openshaw	РЈМ	National Heart and Lung Institute, Imperial College London, London, United Kingdom
Orriss-Dib	L	Imperial College Healthcare NHS Trust
Osborne	L	United Lincolnshire Hospitals NHS Trust
Osbourne	R	Manchester University NHS Foundation Trust
Ostermann	M C	Guy's and St Thomas' NHS Foundation Trust
Overton Owen	J	University of Leicester Hampshire Hospitals NHS Foundation Trust
Oxton	]	Salford Royal NHS Foundation Trust
Pack	J	Royal Papworth Hospital NHS Foundation Trust
Расрасо	E	Oxford University Hospitals NHS Foundation Trust
Paddick	S	Newcastle University
Painter	S	Shropshire Community Health NHS Trust
Pakzad	А	University College London
Palmer	S	Somerset NHS Foundation Trust
Papineni	Р	London North West University Healthcare NHS Trust
Paques	К	Royal Papworth Hospital NHS Foundation Trust
Paradowski	К	Cardiff and Vale University Healthy Board
Pareek	Μ	University Hospitals of Leicester NHS Trust
Parekh	D	University Hospital Birmingham NHS Foundation Trust
Parfrey	H	Royal Papworth Hospital NHS Foundation Trust
Pariante	С	King's College London

Parker	S	University Hospitals of Leicester NHS Trust
Parkes	M	Cambridge University Hospitals NHS Foundation Trust
Parmar	J	Royal Papworth Hospital NHS Foundation Trust
Patale	S	King's College Hospital NHS Foundation Trust
Patel	В	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Patel	М	NHS Lanarkshire
Patel	S	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Pattenadk	D	Sheffield Teaching NHS Foundation Trust
Pavlides	М	Oxford University Hospitals NHS Foundation Trust
Payne	S	Hampshire Hospitals NHS Foundation Trust
Pearce	L	Gateshead NHS Trust
Pearl	JΕ	University of Leicester
Peckham	D	Leeds Teaching Hospitals
Pendlebury	J	Salford Royal NHS Foundation Trust
Peng	Y	Oxford University Hospitals NHS Foundation Trust
Pennington	C	Aneurin Bevan University Health Board
Peralta	I	King's College Hospital NHS Foundation Trust
Perkins	E	Hywel Dda University Health Board
Peterkin	Z	University Hospital Birmingham NHS Foundation Trust
Peto Petousi	T	Queen's University Belfast
Petrie	N J	Oxford University Hospitals NHS Foundation Trust University of Glasgow
Pfeffer	P	Barts Health NHS Trust
Phipps	F J	Hywel Dda University Health Board
Pimm	J	Oxford University Hospitals NHS Foundation Trust
Piper Hanley	ĸ	Manchester University NHS Foundation Trust
Pius	R	University of Edinburgh
Plant	н	University College London Hospital
Plein	S	Leeds Teaching Hospitals
Plekhanova	Т	University of Leicester
Plowright	М	Sheffield Teaching NHS Foundation Trust
Poinasamy	К	Asthma UK and British Lung Foundation Partnership
Polgar	0	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Poll	L	Liverpool University Hospitals NHS Foundation Trust
Porter	J C	University College London Hospital
Porter	J	Sheffield Teaching NHS Foundation Trust
Portukhay	S	The Hillingdon Hospitals NHS Foundation Trust
Powell	Ν	King's College Hospital NHS Foundation Trust
Prabhu	A	Hampshire Hospitals NHS Foundation Trust
Pratt	J	Liverpool University Hospitals NHS Foundation Trust
Price	A	Aneurin Bevan University Health Board
Price	С	East Kent Hospitals University NHS Foundation Trust
Price	D	Newcastle upon Tyne Hospitals NHS Foundation Trust
Price	L	Royal Brompton Hospital
Prickett	A	University Hospitals of Leicester NHS Trust
Propescu	J S	University of Oxford Gateshead NHS Trust
Pugmire Quaid	S	London North West University Healthcare NHS Trust
Quigley	J	NHS Lanarkshire
Quint	J	Imperial College London
Qureshi	н	University Hospital Birmingham NHS Foundation Trust
Qureshi	I N	University Hospitals of Leicester NHS Trust
Radhakrishnan	К	Manchester University NHS Foundation Trust
Rahman	NM	Oxford University Hospitals NHS Foundation Trust
Ralser	М	Francis Crick Institute
Raman	В	Oxford University Hospitals NHS Foundation Trust
Ramos	А	King's College Hospital NHS Foundation Trust
Ramos	Н	East Kent Hospitals University NHS Foundation Trust
Rangeley	J	Leeds Teaching Hospitals
Rangelov	В	University College London
Ratcliffe	L	University Hospital Birmingham NHS Foundation Trust
Ravencroft	Р	Sheffield Teaching NHS Foundation Trust
Reddington	A	Wirral University Teaching Hospital
Reddy	R	Kettering General Hospital NHS Trust
Redfearn	Н	York & Scarborough NHS Foundation Trust
Redwood	D	Somerset NHS Foundation Trust
Reed	A	Hampshire Hospitals NHS Foundation Trust

Rees	М	Cwm Taf Morgannwg University Health Board
Rees	Т	Swansea Bay University Health Board
Regan	К	Bradford Teaching Hospitals NHS Foundation Trust
Reynolds	W	University of Liverpool
Ribeiro	С	Cambridge University Hospitals NHS Foundation Trust
Richards	А	Hull University Teaching Hospitals NHS Trust
Richardson	Е	Liverpool University Hospitals NHS Foundation Trust
Richardson	М	University of Leicester
Rivera-Ortega	Р	Manchester University NHS Foundation Trust
Roberts	К	Betsi Cadwallader University Health Board
Robertson	E	Diabetes UK, University of Glasgow
Robinson	E	Wrightington Wigan and Leigh NHS trust
Robinson	L	Borders General Hospital, NHS Borders
Roche	L	Cwm Taf Morgannwg University Health Board
Roddis	C	Sheffield Teaching NHS Foundation Trust
Rodger	J	Sheffield Teaching NHS Foundation Trust
Ross	A	Imperial College Healthcare NHS Trust
Ross	G	Hywel Dda University Health Board
Rossdale	J	Guy's and St Thomas' NHS Foundation Trust
Rostron	A	University of Newcastle
Rowe	A	Liverpool University Hospitals NHS Foundation Trust
Rowland	A	University Hospitals of Leicester NHS Trust
Rowland	J	NHS Tayside & University of Dundee
Rowland Janes	M J S L	Oxford University Hospitals NHS Foundation Trust
Rowland-Jones	S L K	Sheffield Teaching NHS Foundation Trust
Roy Roy	M	University College London Hospital Imperial College Healthcare NHS Trust
Rudan	IVI	University of Edinburgh
Russell	R	University Hospitals of Leicester NHS Trust
Russell	E	Imperial College Healthcare NHS Trust
Saalmink	G	Leeds Teaching Hospitals
Sabit	R	Cardiff and Vale University Healthy Board
Sage	ΕK	NHS Highland
Samakomva	Т	St George's University Hospitals NHS Foundation Trust
Samani	Ν	University of Leicester
Sampson	С	Chesterfield Royal Hospital NHS Trust
Samuel	К	Imperial College Healthcare NHS Trust
Samuel	R	University Hospital Southampton NHS Foundation Trust
Sanderson	А	Barnsley Hospital NHS Foundation Trust
Sapey	Е	University Hospital Birmingham NHS Foundation Trust
Saralaya	D	Bradford Teaching Hospitals NHS Foundation Trust
Saratzis	А	University of Leicester
Sargant	J	University of Leicester
Sarginson	С	York & Scarborough NHS Foundation Trust
Sass	Т	University Hospital Southampton NHS Foundation Trust
Sattar	Ν	University of Glasgow
Saunders	K	Oxford University Hospitals NHS Foundation Trust
Saunders	R	University of Leicester
Saunders	Р	Sheffield Teaching NHS Foundation Trust
Saunders	LC	University of Sheffield
Savill	H	Tameside and Glossop Integrated Care NHS Foundation Trust
Saxon	W	Betsi Cadwallader University Health Board
Sayer	A	Newcastle upon Tyne Hospitals NHS Foundation Trust
Schronce Schwaeble	J	Imperial College Healthcare NHS Trust
Scott	JT	University of Cambridge MRC - University of Glasgow Centre for Virus Research
Scott	K	NHS Greater Glasgow and Clyde Health Board
Selby	N	Nottingham University
Semple	MG	Liverpool University Hospitals NHS Foundation Trust
Sereno	M	University Hospitals of Leicester NHS Trust
Sewell	TA	Sherwood Forest Hospitals NHS Foundation Trust
Shah	AM	King's College Hospital NHS Foundation Trust
Shah	K	Diabetes UK
Shah	P	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Shankar-Hari	M	University of Edinburgh
Sharma	M	University of Leicester
Sharpe	С	King's College London
		-

Sharpe	M	Oxford University Hospitals NHS Foundation Trust		
Shashaa	S	East Cheshire NHS Trust		
Shaw Shaw	A K	Airedale NHS Foundation Trust Nottingham University Hospitals NHS Trust		
Shaw	N V	Liverpool University Hospitals NHS Foundation Trust		
Sheikh	Å	NHS Lothian & University of Edinburgh		
Shelton	S	Sherwood Forest Hospitals NHS Foundation Trust		
Shenton	L	Airedale NHS Foundation Trust		
Shevket	К	King's College Hospital NHS Foundation Trust		
Shikotra	А	University Hospitals of Leicester NHS Trust		
Short	J	University Hospital Birmingham NHS Foundation Trust		
Siddique	S	St George's University Hospitals NHS Foundation Trust		
Siddiqui	S	University Hospitals of Leicester NHS Trust		
Sidebottom	J	Sheffield Teaching NHS Foundation Trust		
Sigfrid	L	University of Oxford		
Simons	G	University of Southampton		
Simpson Simpson	J N	Newcastle upon Tyne Hospitals NHS Foundation Trust Imperial College Healthcare NHS Trust		
Singapuri	A	University Hospitals of Leicester NHS Trust		
Singh	c	Royal Free London NHS Foundation Trust		
Singh	S	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.		
Singh	SJ	University Hospitals of Leicester NHS Trust		
Sissons	D	Sherwood Forest Hospitals NHS Foundation Trust		
Skeemer	J	University Hospitals of Leicester NHS Trust		
Slack	К	Sherwood Forest Hospitals NHS Foundation Trust		
Smith	А	NHS Lanarkshire		
Smith	D	Imperial College London		
Smith	S	Sherwood Forest Hospitals NHS Foundation Trust		
Smith	J	Sheffield Teaching NHS Foundation Trust		
Smith	L	Sheffield Teaching NHS Foundation Trust		
Soares Solano	M T S	University Hospitals of Leicester NHS Trust Guy's and St Thomas' NHS Foundation Trust		
Solly	R	East Kent Hospitals University NHS Foundation Trust		
Solstice	AR	NHS Tayside		
Soulsby	Т	University Hospital Birmingham NHS Foundation Trust		
Southern	D	Betsi Cadwallader University Health Board		
Sowter	D	Sherwood Forest Hospitals NHS Foundation Trust		
Spears	Μ	University of Glasgow		
Spencer	LG	University of Liverpool		
Speranza	F	King's College Hospital NHS Foundation Trust		
Stadon	L	North Bristol NHS Trust		
Stanel	S	University of Manchester		
Steele	N	Sheffield Teaching NHS Foundation Trust University of Leicester		
Steiner Stensel	M D	Loughborough University		
Stephens	G	Sheffield Teaching NHS Foundation Trust		
Stephenson	L	Harrogate and District NHD Foundation Trust		
Stern	М	Whittington Health NHS Trust		
Stewart	I	Imperial College London		
Stimpson	R	Sheffield Teaching NHS Foundation Trust		
Stockdale	S	Manchester University NHS Foundation Trust		
Stockley	J	University Hospital Birmingham NHS Foundation Trust		
Stoker	W	Gateshead NHS Trust		
Stone	R	Belfast Health & Social Care Trust & Queen's University Belfast		
Storrar	W	Hampshire Hospitals NHS Foundation Trust		
Storrie	A K	Aneurin Bevan University Health Board		
Storton Stringer	E	Bradford Teaching Hospitals NHS Foundation Trust University Hospitals of Leicester NHS Trust		
Strong-Sheldrake	S	Salisbury NHS Foundation Trust		
Stroud	N	Cwm Taf Morgannwg University Health Board		
Subbe	C	Betsi Cadwallader University Health Board		
Sudlow	CL	University of Edinburgh		
Suleiman	Z	University Hospital Birmingham NHS Foundation Trust		
Summers	С	University of Cambridge		
Summersgill	С	Salford Royal NHS Foundation Trust		
Sutherland	D	NHS Tayside		
Sykes	DL	Hull University Teaching Hospitals NHS Trust		

Sykes	R	NHS Greater Glasgow and Clyde Health Board
Talbot	Ν	Oxford University Hospitals NHS Foundation Trust
Tan	AL	Leeds Teaching Hospitals
Tarusan	L	Imperial College Healthcare NHS Trust
Tavoukjian	V	St George's University Hospitals NHS Foundation Trust
Taylor	А	Hywel Dda University Health Board
Taylor	С	University of Leicester
Taylor	J	Cambridge University Hospitals NHS Foundation Trust
, Te	А	King's College Hospital NHS Foundation Trust
Tedd	Н	Newcastle upon Tyne Hospitals NHS Foundation Trust
Tee	CJ	NHS Tayside
Teixeira	J	St George's University Hospitals NHS Foundation Trust
Tench	Ч	Hywel Dda University Health Board
	S	
Terry		University of Leicester
Thackray-Nocera	S	Hull University Teaching Hospitals NHS Trust
Thaivalappil	F	Swansea Bay University Health Board
Thamu	В	Sheffield Teaching NHS Foundation Trust
Thickett	D	University of Birmingham
Thomas	С	Swansea Bay University Health Board
Thomas	DC	Imperial College Healthcare NHS Trust
Thomas	S	Newcastle upon Tyne Hospitals NHS Foundation Trust
Thomas	AK	Nottingham University Hospitals NHS Trust
Thomas-Woods	Т	Cwm Taf Morgannwg University Health Board
Thompson	Т	University Hospital Birmingham NHS Foundation Trust
Thompson	AAR	Sheffield Teaching NHS Foundation Trust
Thornton	Т	University Hospitals of Leicester NHS Trust
Thorpe	М	University of Edinburgh
Thwaites	RS	Imperial College London
Tilley	J	Somerset NHS Foundation Trust
Tinker	N	Sheffield Teaching NHS Foundation Trust
Tiongson	GF	London North West University Healthcare NHS Trust
Tobin	M	University Hospitals of Leicester NHS Trust
Tomlinson	J	Shropshire Community Health NHS Trust
Tong	C	University of Leicester
Toshner	M	Cambridge University Hospitals NHS Foundation Trust
Touyz	R	Institute of Cardiovascular & Medical Sciences, University of Glasgow
Tripp	ΚA	Liverpool University Hospitals NHS Foundation Trust
Tunnicliffe	E	Oxford University Hospitals NHS Foundation Trust
Turnbull	A	York & Scarborough NHS Foundation Trust
Turner	E	University of Leicester
Turner	S	Sherwood Forest Hospitals NHS Foundation Trust
Turner	V	Tameside and Glossop Integrated Care NHS Foundation Trust
Turner	K	Sheffield Teaching NHS Foundation Trust
Turney	S	East Kent Hospitals University NHS Foundation Trust
Turtle	L	Liverpool University Hospitals NHS Foundation Trust
Turton	Н	Sheffield Teaching NHS Foundation Trust
Ugoji	J	The Great Western Hospital Foundation Trust
Ugwuoke	R	Salford Royal NHS Foundation Trust
Upthegrove	R	University of Birmingham
Valabhji	J	Imperial College London
Ventura	М	University Hospital Birmingham NHS Foundation Trust
Vere	J	Tameside and Glossop Integrated Care NHS Foundation Trust
Vickers	C	Somerset NHS Foundation Trust
Vinson	В	University of Liverpool
Wade	E	Leeds Teaching Hospitals
Wade	P	Sheffield Teaching NHS Foundation Trust
Wain	L V	University Hospitals of Leicester NHS Trust
	T	Somerset NHS Foundation Trust
Wainwright		
Wajero	LO	Liverpool University Hospitals NHS Foundation Trust
Walder	S	University Hospital Birmingham NHS Foundation Trust
Walker	S	Sheffield Teaching NHS Foundation Trust
Wall	E	University College London Hospital
Wallis	Т	University Hospital Southampton NHS Foundation Trust
Walmsley	S	University of Edinburgh
Walsh	JA	Royal Brompton and Harefield Clinical Group, Guy's and St Thomas' NHS Foundation trust.
Walsh	S	Imperial College London
Warburton	L	Shropshire Community Health NHS Trust

Ward	ТJС	University Hospitals of Leicester NHS Trust
Warwick	К	Kettering General Hospital NHS Trust
Wassall	Н	East Cheshire NHS Trust
Waterson	S	North Bristol NHS Trust
Watson	Е	London North West University Healthcare NHS Trust
Watson	L	Cambridge University Hospitals NHS Foundation Trust
Watson	J	Sheffield Teaching NHS Foundation Trust
Welch	С	University Hospital Birmingham NHS Foundation Trust
Welch	н	North Bristol NHS Trust
Welsh	В	NHS Lanarkshire
Wessely	S	King's College London
West	S	Newcastle upon Tyne Hospitals NHS Foundation Trust
Weston	Н	East Kent Hospitals University NHS Foundation Trust
Wheeler	Н	University Hospital Southampton NHS Foundation Trust
White	S	Kettering General Hospital NHS Trust
Whitehead	V	Betsi Cadwallader University Health Board
Whitney	J	King's College London
Whittaker	S	Salford Royal NHS Foundation Trust
Whittam	В	Leeds Teaching Hospitals
Whitworth	V	Sherwood Forest Hospitals NHS Foundation Trust
Wight	A	Wirral University Teaching Hospital
Wild	J	University of Sheffield
Wilkins	M	Imperial College London
Wilkinson	D	University of Birmingham
Williams Williams	B N	University College London Hampshire Hospitals NHS Foundation Trust
Williams	J	Cardiff and Vale University Healthy Board
Williams-Howard	S A	Liverpool University Hospitals NHS Foundation Trust
Willicombe	M	Imperial College London
Willis	G	Aneurin Bevan University Health Board
Willoughby	J	University College London
Wilson	A	Gateshead NHS Trust
Wilson	D	University Hospital Birmingham NHS Foundation Trust
Wilson	I	Sheffield Teaching NHS Foundation Trust
Window	Ν	Leeds Teaching Hospitals
Witham	М	Newcastle upon Tyne Hospitals NHS Foundation Trust
Wolf-Roberts	R	Hywel Dda University Health Board
Wood	С	Imperial College Healthcare NHS Trust
Woodhead	F	University Hospitals of Leicester NHS Trust
Woods	J	Leeds Teaching Hospitals
Wootton	DG	Liverpool University Hospitals NHS Foundation Trust
Wormleighton	J	University of Leicester
Worsley	J	Cambridge University Hospitals NHS Foundation Trust
Wraith	D	University of Birmingham
Wrey Brown	C	Hampshire Hospitals NHS Foundation Trust
Wright	C	Hull University Teaching Hospitals NHS Trust
Wright	L	University of Nottingham
Wright Wylos	S J	Newcastle upon Tyne Hospitals NHS Foundation Trust Liverpool University Hospitals NHS Foundation Trust
Wyles Wynter	J	Sherwood Forest Hospitals NHS Foundation Trust
Xie	C	University of Oxford, Division of Cardiovascular Medicine
Xu	M	University College London
Yasmin	N	Imperial College Healthcare NHS Trust
Yasmin	S	University Hospital Birmingham NHS Foundation Trust
Yates	T	University Hospitals of Leicester NHS Trust
Yip	K P	University Hospital Birmingham NHS Foundation Trust
Young	В	DUK   NHS Digital, Salford Royal Foundation Trust
Young	S	Aneurin Bevan University Health Board
Young	A	Newcastle upon Tyne Hospitals NHS Foundation Trust
Yousuf	AJ	University Hospitals of Leicester NHS Trust
Zawia	А	Sheffield Teaching NHS Foundation Trust
Zeidan	L	The Rotherham NHS Foundation Trust
Zhao	В	University of Leicester
Zongo	0	Barts Health NHS Trust
Zheng	В	University of Edinburgh