Date: 09-December-2020 Study number: 1199-0389 Page 1 of 13

Title	Epidemiology of interstitial lung diseases and their progressive-fibrosing
	behaviour in six mid-size European countries: the PERSEIDS study
Keywords	Interstitial lung diseases, progressive-fibrosing, incidence, prevalence
Rationale and	Among fibrosing interstitial lung diseases (F-ILDs), idiopathic pulmonary
background	fibrosis (IPF) is the most frequent. It is characterized by a progressive-
	fibrosing behaviour and a usual interstitial pneumonia (UIP) pattern. IPF
	remains the ILD with the worst prognosis, but other subtypes of F-ILD
	(non-IPF F-ILDs) may have a similar prognosis when a progressive-
	fibrosing behaviour and/or UIP pattern are present. Of these subtypes,
	systemic sclerosis-related ILD (SSc-ILD) is of particular interest as it is the
	leading cause of death related to SSc. Despite their associated mortality, few studies have addressed the epidemiology of ILDs and their progressive-
	fibrosing behaviour in Europe. Overall in Europe, data on the epidemiology
	of the different ILD are scarce or outdated.
Research	Estimate incidence and prevalence of ILDs, F-ILDs, IPF, non-IPF F-ILDs
question and	and SSc-ILD; and to further characterize non-IPF F-ILDs in terms of
objectives	progressive-fibrosing behaviour and UIP pattern.
Study design	Non-interventional, epidemiological, retrospective, two-phase, database
Study design	study, using aggregate data for the 2014-2018 period. In Phase 1, an
	algorithm based on codes/keywords was used to search the source databases
	and identify incident/prevalent cases of ILDs for each year of the study
	period, and crude incidence/prevalence was estimated for each country
	based on its total adult population. In Phase 2, a subset of the
	non-IPF F-ILD cases identified at each centre were manually reviewed to
	determine the percentages of UIP pattern and progressive-fibrosing
	behaviour. For the latter, a weighted mean percentage was calculated for
	each country, and used to extrapolate incidence/prevalence of progressive-
	fibrosing ILDs. This review also delivered the algorithm's positive
	predictive value (PPV), which was used to adjust incidence/prevalence
	estimates obtained in both phases.
Setting	Pulmonary and/or Rheumatology departments at 14 centres in Belgium,
	Denmark, Finland, Norway, Greece and Portugal; of these, 13 participated
	in Phase 1 and 10 in Phase 2.
Subjects and	Phase 1: all adults listed in source databases during 2014-2018.
study size	Phase 2: first 100 patients at each database with a code/keyword for any
37 * 11 1	non-IPF F-ILD from 2016.
Variables and	Primary outcomes were crude incidence/prevalence of ILDs, F-ILDs, IPF,
data sources	non-IPF F-ILDs, and SSc-ILD in each country, annually and for the study period (Phase 1) and percentages of each non-IPF F-ILD subtype with
	progressive-fibrosing behaviour, UIP pattern, both or none, overall for all
	countries (Phase 2). Secondary outcomes of Phase 2 included PPV of the
	algorithm by centre and country; crude incidence/prevalence of
	progressive-fibrosing ILDs in each country, annually and for the study
	period; and adjusted incidence/prevalence estimates for both phases.
Results	The PPVs of the search algorithm are shown in Table 1.
	In the latest year assessed (2018), incidences per 10 ⁵ person-years in the
	participating countries ranged between 9.4-83.6 (ILDs), 7.7-76.2 (F-ILDs),
	0.4-10.3 (IPF), 6.6-71.7 (non-IPF F-ILDs) and 0.3-1.5 (SSc-ILD). In the
	same year, prevalences per 10 ⁵ persons ranged from 33.6-247.4 (ILDs),
	26.7-236.8 (F-ILDs), 2.8-31.0 (IPF), 22.3-205.8 (non-IPF F-ILDs) and 1.4-
	10.1 (SSc-ILD) (Table 2).

Date: 09-December-2020 Study number: 1199-0389 Page 2 of 13

	The percentage of progressive-fibrosing behaviour ranged between
	10.4-50.0%, and of UIP pattern between 6.7-70.2%.
	The extrapolated incidences of progressive-fibrosing ILDs ranged between
	2.1-14.5 per 10 ⁵ person-years, and the prevalences between 6.9-78.0 per 10 ⁵
	persons (Table 3).
Discussion	In general, the algorithm used to identify ILD cases showed a high PPV.
	The incidence and prevalence of the ILDs assessed (including
	progressive-fibrosing ILDs) was relatively stable in all countries
	throughout the study period. The prevalence of IPF, SSc-ILD and
	progressive-fibrosing ILDs is below the threshold number (50 per
	10 ⁵ persons) defined by the European Union for an orphan disease. Overall,
	approximately a third of non-IPF F-ILDs showed a progressive-fibrosing
	behaviour. The non-IPF F-ILD subtype most prone to progression was
	hypersensitivity pneumonitis.
Marketing	hypersensitivity pheumomitis.
authorization	Not applicable.
holder	Not applicable.
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Date: 09-December-2020 Study number: 1199-0389 Page 3 of 13

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Date: 09-December-2020 Study number: 1199-0389 Page 4 of 13

Table 1. PPV of the search algorithm used in Phase 1, by centre and country

	Centre 1	Centre 2	Centre 3	Country
Belgium	0.75			0.75
Denmark	0.73			0.73
Finland	0.49			0.49
Greece	0.64	0.93	0.80	0.79
Norway	0.75			0.75
Portugal	0.68	0.77		0.73

Belgium: Centre 1 —Ghent University Hospital. This was a reference centre for SSc-ILD, and only provided data for this condition. The participating unit did not perform a systematic search. Instead, they retrieved SSc-ILD cases from a pre-existing departmental database which captured all patients with SSc-ILD presenting for assessment each year. As a result, the PPV for this centre was 1.00. As this could lead to overestimation, a conservative approach was chosen, and the PPV used was the average for the rest of countries (0.75).

Denmark: Centre 1 (Vejle Hospital).

Finland: Centre 1(Turku University Hospital)

Greece: Centre 1 (University Hospital of Larissa), Centre 2 (General Hospital of Thessaloniki), Centre 3 (Athens Medical Centre).

Norway: Centre 1 (Oslo University Hospital, Rikshospitalet).

Portugal: Centre 1 (Centro Hospitalar Universitário de Sao Joao), Centre 2 (Hospital Beatriz Angelo).

Abbreviations: PPV, positive predictive value; SSc-ILD, systemic sclerosis-associated ILD.

Date: 09-December-2020 Study number: 1199-0389 Page 5 of 13

Table 2. Incidence (A) and prevalence (B) of ILD, F-ILD, IPF, non-IPF F-ILD, and SSc-ILD in each country, annually and for the study period (A) Incidence per 10⁵ person-years (95% CI)

			Study period	2014	2015	2016	2017	2018
ILD	Belgium	Min	17.9 (16.9,18.9)	14.0 (12.3,16.0)	17.5 (15.4,19.9)	17.2 (15.1,19.5)	21.0 (18.7,23.7)	20.5 (18.1,23.1)
	Beigiani	Max	71.1 (67.7,74.7)	55.3 (49.3,62.1)	63.5 (56.8,71.1)	71.4 (63.9,79.7)	86.9 (78.4,96.3)	83.6 (75.2,93.0)
	Denmark	Min	41.3 (40.5,42.1)	41.0 (39.1,42.9)	43.8 (41.9,45.8)	43.1 (41.2,45.0)	38.5 (36.8,40.4)	40.1 (38.3,42.0)
	Demmark	Max	56.9 (56.0,57.9)	56.5 (54.3,58.8)	60.4 (58.2,62.8)	59.4 (57.2,61.7)	53.1 (51.0,55.3)	55.3 (53.2,57.5)
	Finland	Min	26.2 (24.1,28.6)	36.7 (31.2,43.3)	20.8 (16.7,25.9)	22.6 (18.3,27.8)	24.8 (20.3,30.2)	26.3 (21.7,31.9)
1 1111	1 imana	Max	53.5 (50.4,56.9)	75.0 (66.8,84.1)	42.4 (36.4,49.4)	46.1 (39.8,53.3)	50.6 (44.0,58.2)	53.7 (46.9,61.4)
	Greece	Min	10.6 (10.1,11.1)	5.8 (5.1,6.6)	10.0 (9.0,11.1)	11.4 (10.3,12.6)	13.3 (12.1,14.5)	12.5 (11.4,13.7)
	Greece	Max	24.1 (23.2,25.1)	20.2 (18.1,22.5)	21.7 (19.8,23.8)	23.2 (21.3,25.4)	29.2 (27.0,31.7)	25.2 (23.2,27.5)
	Norway	Min	12.4 (11.8,13.1)	NA	12.3 (11.0,13.7)	16.6 (15.2,18.2)	11.1 (10.0,12.4)	9.9 (8.8,11.1)
	TVOTWay	Max	31.8 (30.4,33.2)	NA	31.4 (28.6,34.5)	43.2 (39.9,46.7)	29.4 (26.7,32.3)	24.2 (21.9,26.7)
	Portugal	Min	8.0 (7.6,8.5)	6.3 (5.3,7.3)	8.2 (7.1,9.4)	7.3 (6.3,8.4)	8.7 (7.6,9.9)	9.4 (8.3,10.5)
	1 Ortugui	Max	11.1 (10.5,11.7)	8.6 (7.5,9.9)	11.3 (10.1,12.7)	10.1 (8.9,11.4)	11.9 (10.7,13.4)	12.9 (11.7,14.2)
F-ILD	Belgium	Min	16.7 (15.8,17.7)	13.3 (11.6,15.2)	16.4 (14.4,18.7)	16.0 (14.0,18.2)	19.9 (17.6,22.5)	18.7 (16.5,21.2)
	Beigiani	Max	66.4 (63.1,69.8)	52.3 (46.5,58.8)	59.5 (53.0,66.7)	66.3 (59.2,74.3)	82.2 (74.1,91.3)	76.2 (68.3,85.1)
	Denmark	Min	40.2 (39.4,41.1)	40.0 (38.2,41.9)	42.8 (40.9,44.8)	42.0 (40.1,43.9)	37.5 (35.7,39.3)	39.1 (37.3,40.9)
	Deminark	Max	55.5 (54.5,56.5)	55.1 (53.0,57.4)	59.0 (56.8,61.3)	57.9 (55.7,60.1)	51.7 (49.6,53.8)	53.9 (51.8,56.0)

Date: 09-December-2020

Study number: 1199-0389

Page 6 of 13

			Study period	2014	2015	2016	2017	2018
	Finland	Min	22.4 (20.4,24.6)	33.1 (27.8,39.3)	18.3 (14.5,23.1)	18.2 (14.4,23.0)	21.3 (17.2,26.4)	21.5 (17.4,26.6)
	Filliand	Max	45.8 (42.9,48.9)	67.5 (59.8,76.2)	37.3 (31.7,43.9)	37.1 (31.6,43.7)	43.5 (37.4,50.5)	43.8 (37.8,50.9)
	Greece	Min	9.8 (9.4,10.3)	5.3 (4.6,6.1)	9.4 (8.5,10.5)	10.6 (9.6,11.7)	12.3 (11.2,13.5)	11.5 (10.4,12.7)
	Greece	Max	22.4 (21.5,23.4)	18.9 (16.9,21.1)	20.4 (18.6,22.5)	21.6 (19.7,23.7)	27.2 (25.1,29.6)	23.1 (21.1,25.2)
	Norway	Min	11.2 (10.6,11.8)	NA	11.0 (9.8,12.4)	14.5 (13.2,16.0)	10.1 (9.0,11.4)	9.1 (8.1,10.2)
	Norway	Max	28.5 (27.2,29.9)	NA	28.2 (25.6,31.1)	37.7 (34.7,41.0)	26.8 (24.3,29.6)	22.2 (20.1,24.6)
	Portugal	Min	6.3 (5.8,6.7)	4.6 (3.9,5.6)	6.0 (5.1,7.1)	5.4 (4.5,6.4)	7.2 (6.2,8.3)	7.7 (6.8,8.7)
	ronugai	Max	8.6 (8.1,9.2)	6.4 (5.5,7.5)	8.3 (7.2,9.5)	7.4 (6.4,8.6)	9.9 (8.7,11.2)	10.6 (9.5,11.8)
IPF	Belgium	Min	0.9 (0.7,1.3)	0.7 (0.3,1.5)	1.1 (0.6,2.1)	0.6 (0.3,1.4)	1.2 (0.7,2.2)	1.1 (0.6,2.1)
	Deigium	Max	3.8 (2.9,4.9)	2.7 (1.4,5.5)	4.1 (2.4,7.0)	2.5 (1.2,5.3)	5.0 (3.0,8.4)	4.6 (2.7,7.9)
	Denmark	Min	0.4 (0.4,0.5)	0.4 (0.4,0.5)	0.5 (0.5,0.6)	0.4 (0.4,0.5)	0.4 (0.3,0.4)	0.4 (0.4,0.5)
	Denmark	Max	10.6 (10.2,11.1)	10.3 (9.4,11.3)	11.4 (10.4,12.4)	11.4 (10.5,12.4)	9.8 (8.9,10.7)	10.3 (9.4,11.2)
	Finland	Min	3.5 (2.7,4.4)	4.2 (2.6,6.8)	3.5 (2.1,6.0)	3.0 (1.7,5.3)	3.5 (2.1,5.9)	3.2 (1.9,5.6)
	riilaliu	Max	7.1 (6.0,8.4)	8.5 (6.1,12.0)	7.2 (5.0,10.4)	6.1 (4.1,9.2)	7.1 (4.9,10.3)	6.6 (4.5,9.7)
	Crana	Min	3.5 (3.3,3.8)	1.5 (1.2,2.0)	3.5 (3.0,4.2)	3.8 (3.2,4.5)	4.3 (3.6,5.0)	4.5 (3.9,5.3)
	Greece	Max	8.0 (7.4,8.5)	4.3 (3.4,5.4)	7.6 (6.5,8.9)	8.2 (7.0,9.5)	9.2 (8.0,10.6)	9.7 (8.5,11.2)
	Norwey	Min	2.2 (1.9,2.5)	NA	2.1 (1.6,2.7)	2.4 (1.9,3.0)	2.2 (1.7,2.8)	2.0 (1.6,2.6)
	Norway	Max	5.5 (5.0,6.2)	NA	5.3 (4.2,6.6)	6.2 (5.0,7.6)	5.8 (4.7,7.2)	4.9 (4.0,6.2)
	Portugal	Min	0.9 (0.7,1.1)	0.7 (0.4,1.1)	0.7 (0.4,1.1)	0.6 (0.4,1.0)	1.2 (0.9,1.8)	1.1 (0.8,1.5)

Date: 09-December-2020

Study number: 1199-0389

Page 7 of 13

		Study period	2014	2015	2016	2017	2018
	Max	1.2 (1.0,1.4)	1.0 (0.7,1.5)	0.9 (0.6,1.4)	0.9 (0.6,1.3)	1.7 (1.3,2.3)	1.5 (1.1,2.0)
Relaium	Min	15.8 (14.9,16.7)	12.6 (11.0,14.4)	15.3 (13.3,17.5)	15.4 (13.5,17.5)	18.7 (16.6,21.2)	17.6 (15.4,20.0)
Deigium	Max	62.6 (59.5,65.9)	49.5 (43.9,55.8)	55.4 (49.3,62.3)	63.8 (56.9,71.6)	77.2 (69.4,86.0)	71.7 (64.1,80.1)
Danmark	Min	32.5 (31.8,33.3)	32.5 (30.8,34.2)	34.6 (32.9,36.3)	33.7 (32.0,35.4)	30.4 (28.8,32.0)	31.6 (30.0,33.3)
Dennark	Max	54.9 (53.9,55.9)	54.6 (52.4,56.8)	58.3 (56.1,60.6)	57.3 (55.1,59.6)	51.1 (49.1,53.3)	53.3 (51.2,55.4)
Einland	Min	19.0 (17.1,21.0)	28.9 (24.0,34.8)	14.7 (11.4,19.1)	15.2 (11.8,19.6)	17.8 (14.1,22.5)	18.2 (14.5,23.0)
rillanu	Max	38.7 (36.0,41.5)	58.9 (51.8,67.1)	30.1 (25.1,36.1)	31.0 (25.9,37.0)	36.4 (30.9,42.8)	37.2 (31.7,43.8)
Crosss	Min	6.3 (5.9,6.7)	3.8 (3.2,4.5)	5.9 (5.1,6.7)	6.8 (6.0,7.7)	8.0 (7.2,9.0)	6.9 (6.1,7.9)
Greece	Max	15.5 (14.8,16.3)	15.2 (13.4,17.2)	13.5 (12.0,15.2)	14.4 (12.9,16.1)	19.6 (17.8,21.6)	14.8 (13.3,16.6)
Name	Min	9.0 (8.5,9.6)	NA	9.0 (7.9,10.2)	12.1 (10.9,13.5)	7.9 (7.0,9.0)	7.1 (6.2,8.1)
Noiway	Max	23.0 (21.8,24.2)	NA	22.9 (20.6,25.6)	31.5 (28.8,34.6)	21.0 (18.8,23.5)	17.3 (15.4,19.4)
Portugal	Min	5.4 (5.0,5.8)	3.9 (3.2,4.8)	5.3 (4.5,6.3)	4.7 (4.0,5.7)	5.9 (5.0,7.0)	6.6 (5.7,7.6)
Fortugai	Max	7.4 (7.0,7.9)	5.4 (4.6,6.4)	7.4 (6.4,8.5)	6.5 (5.6,7.6)	8.2 (7.1,9.4)	9.1 (8.1,10.2)
Dalaina	Min	0.9 (0.7,1.0)	0.4 (0.2,0.8)	1.1 (0.8,1.6)	1.1 (0.8,1.6)	0.7 (0.4,1.1)	1.0 (0.6,1.4)
Deigiuiii	Max	1.1 (1.0,1.4)	0.5 (0.3,0.9)	1.5 (1.1,2.0)	1.5 (1.1,2.1)	1.0 (0.6,1.4)	1.3 (0.9,1.8)
Danmanla	Min	0.5 (0.4,0.6)	0.5 (0.3,0.7)	0.5 (0.3,0.7)	0.4 (0.3,0.7)	0.5 (0.3,0.7)	0.5 (0.3,0.7)
Denmark	Max	0.6 (0.5,0.7)	0.7 (0.5,1.0)	0.6 (0.4,0.9)	0.6 (0.4,0.8)	0.6 (0.4,0.9)	0.6 (0.4,0.9)
Finland	Min	0.3 (0.1,0.7)	0.4 (0.1,1.9)	0.1 (0.0,2.1)	0.4 (0.1,1.9)	0.2 (0.0,1.8)	0.5 (0.1,2.0)
Finiand	Max	0.7 (0.4,1.1)	0.8 (0.3,2.4)	0.3 (0.0,1.8)	0.8 (0.2,2.4)	0.5 (0.1,2.0)	1.0 (0.4,2.7)
	Belgium Denmark Finland Greece Norway Portugal Belgium Denmark Finland	Belgium Min Max Min Max	Belgium Min 15.8 (14.9,16.7) Max 62.6 (59.5,65.9) Min 32.5 (31.8,33.3) Max 54.9 (53.9,55.9) Finland Min 19.0 (17.1,21.0) Max 38.7 (36.0,41.5) Min 6.3 (5.9,6.7) Max 15.5 (14.8,16.3) Norway Min 9.0 (8.5,9.6) Max 23.0 (21.8,24.2) Portugal Min 5.4 (5.0,5.8) Max 7.4 (7.0,7.9) Belgium Min 0.9 (0.7,1.0) Max 1.1 (1.0,1.4) Denmark Min 0.5 (0.4,0.6) Max 0.6 (0.5,0.7) Min 0.3 (0.1,0.7)	Belgium Min 15.8 (14.9,16.7) 12.6 (11.0,14.4) Max 62.6 (59.5,65.9) 49.5 (43.9,55.8) Denmark Min 32.5 (31.8,33.3) 32.5 (30.8,34.2) Max 54.9 (53.9,55.9) 54.6 (52.4,56.8) Min 19.0 (17.1,21.0) 28.9 (24.0,34.8) Max 38.7 (36.0,41.5) 58.9 (51.8,67.1) Greece Min 6.3 (5.9,6.7) 3.8 (3.2,4.5) Max 15.5 (14.8,16.3) 15.2 (13.4,17.2) Norway Min 9.0 (8.5,9.6) NA Portugal Min 5.4 (5.0,5.8) 3.9 (3.2,4.8) Portugal Min 5.4 (5.0,5.8) 3.9 (3.2,4.8) Belgium Min 0.9 (0.7,1.0) 0.4 (0.2,0.8) Max 1.1 (1.0,1.4) 0.5 (0.3,0.9) Max 1.1 (1.0,1.4) 0.5 (0.3,0.7) Denmark Min 0.5 (0.4,0.6) 0.5 (0.3,0.7) Min 0.3 (0.1,0.7) 0.7 (0.5,1.0)	Belgium Min 15.8 (14.9,16.7) 12.6 (11.0,14.4) 15.3 (13.3,17.5) Max 62.6 (59.5,65.9) 49.5 (43.9,55.8) 55.4 (49.3,62.3) Denmark Min 32.5 (31.8,33.3) 32.5 (30.8,34.2) 34.6 (32.9,36.3) Max 54.9 (53.9,55.9) 54.6 (52.4,56.8) 58.3 (56.1,60.6) Min 19.0 (17.1,21.0) 28.9 (24.0,34.8) 14.7 (11.4,19.1) Max 38.7 (36.0,41.5) 58.9 (51.8,67.1) 30.1 (25.1,36.1) Greece Min 6.3 (5.9,6.7) 3.8 (3.2,4.5) 5.9 (5.1,6.7) Max 15.5 (14.8,16.3) 15.2 (13.4,17.2) 13.5 (12.0,15.2) Norway Min 9.0 (8.5,9.6) NA 9.0 (7.9,10.2) Max 23.0 (21.8,24.2) NA 22.9 (20.6,25.6) Portugal Min 5.4 (5.0,5.8) 3.9 (3.2,4.8) 5.3 (4.5,6.3) Max 7.4 (7.0,7.9) 5.4 (4.6,6.4) 7.4 (6.4,8.5) Belgium Min 0.9 (0.7,1.0) 0.4 (0.2,0.8) 1.1 (0.8,1.6) Max 1.1 (1.0,1.4) 0.5 (0.3,0.7) 0.5 (0.3,0.7)<	Belgium Min 15.8 (14.9,16.7) 12.6 (11.0,14.4) 15.3 (13.3,17.5) 15.4 (13.5,17.5) Max 62.6 (59.5,65.9) 49.5 (43.9,55.8) 55.4 (49.3,62.3) 63.8 (56.9,71.6) Denmark Min 32.5 (31.8,33.3) 32.5 (30.8,34.2) 34.6 (32.9,36.3) 33.7 (32.0,35.4) Max 54.9 (53.9,55.9) 54.6 (52.4,56.8) 58.3 (56.1,60.6) 57.3 (55.1,59.6) Finland Min 19.0 (17.1,21.0) 28.9 (24.0,34.8) 14.7 (11.4,19.1) 15.2 (11.8,19.6) Max 38.7 (36.0,41.5) 58.9 (51.8,67.1) 30.1 (25.1,36.1) 31.0 (25.9,37.0) Greece Min 6.3 (5.9,6.7) 3.8 (3.2,4.5) 5.9 (5.1,6.7) 6.8 (6.0,7.7) Max 15.5 (14.8,16.3) 15.2 (13.4,17.2) 13.5 (12.0,15.2) 14.4 (12.9,16.1) Norway Min 9.0 (8.5,9.6) NA 9.0 (7.9,10.2) 12.1 (10.9,13.5) Max 23.0 (21.8,24.2) NA 22.9 (20.6,25.6) 31.5 (28.8,34.6) Portugal Min 5.4 (5.0,5.8) 3.9 (3.2,4.8) 5.3 (4.5,6.3) 4.7 (4.0,5.7)	Belgium Min 15.8 (14.9,16.7) 12.6 (11.0,14.4) 15.3 (13.3,17.5) 15.4 (13.5,17.5) 18.7 (16.6,21.2) Max 62.6 (59.5,65.9) 49.5 (43.9,55.8) 55.4 (49.3,62.3) 63.8 (56.9,71.6) 77.2 (69.4,86.0) Denmark Min 32.5 (31.8,33.3) 32.5 (30.8,34.2) 34.6 (32.9,36.3) 33.7 (32.0,35.4) 30.4 (28.8,32.0) Max 54.9 (53.9,55.9) 54.6 (52.4,56.8) 58.3 (56.1,60.6) 57.3 (55.1,59.6) 51.1 (49.1,53.3) Finland Min 19.0 (17.1,21.0) 28.9 (24.0,34.8) 14.7 (11.4,19.1) 15.2 (11.8,19.6) 17.8 (14.1,22.5) Max 38.7 (36.0,41.5) 58.9 (51.8,67.1) 30.1 (25.1,36.1) 31.0 (25.9,37.0) 36.4 (30.9,42.8) Greece Min 6.3 (5.9,6.7) 3.8 (3.2,4.5) 5.9 (5.1,6.7) 6.8 (6.0,7.7) 8.0 (7.2,9.0) Max 15.5 (14.8,16.3) 15.2 (13.4,17.2) 13.5 (12.0,15.2) 14.4 (12.9,16.1) 19.6 (17.8,21.6) Norway Max 23.0 (21.8,24.2) NA 22.9 (20.6,25.6) 31.5 (28.8,34.6) 21.0 (18.8,23.5)

Date: 09-December-2020

Study number: 1199-0389

Page 8 of 13

		Study period	2014	2015	2016	2017	2018
Greece	Min	0.4 (0.3,0.5)	0.4 (0.2,0.6)	0.4 (0.2,0.6)	0.4 (0.2,0.6)	0.5 (0.3,0.8)	0.4 (0.3,0.7)
Greece	Max	1.1 (0.9,1.4)	1.4 (0.9,2.1)	1.0 (0.6,1.5)	0.7 (0.4,1.2)	1.7 (1.2,2.3)	1.0 (0.7,1.5)
Norway	Min	0.9 (0.7,1.1)	NA	0.7 (0.4,1.1)	1.5 (1.1,2.0)	0.7 (0.5,1.1)	0.6 (0.4,1.0)
Tionway	Max	2.2 (1.9,2.6)	NA	1.8 (1.2,2.6)	3.8 (2.9,5.0)	1.9 (1.3,2.8)	1.5 (1.0,2.2)
Portugal	Min	0.3 (0.3,0.5)	0.3 (0.1,0.6)	0.5 (0.3,0.9)	0.3 (0.1,0.6)	0.3 (0.1,0.6)	0.3 (0.2,0.6)
1 Ortugui	Max	0.5 (0.4,0.6)	0.4 (0.2,0.7)	0.7 (0.5,1.2)	0.4 (0.2,0.8)	0.4 (0.2,0.8)	0.5 (0.3,0.8)

(B) Prevalence per 10⁵ persons (95% CI)

Г	Т	Г	Т	\mathbf{r}
		٠,	н	

		Study period	2014	2015	2016	2017	2018
Belgium	Min	49.8 (46.7,53.0)	37.5 (34.9,40.1)	45.5 (42.5,48.5)	52.0 (48.8,55.3)	55.4 (52.0,58.9)	61.4 (57.8,65.1)
D vi giuiii	Max	195.1 (184.3,205.8)	145.4 (136.7,154.2)	163.3 (154.1,172.6)	213.1 (201.5,224.6)	225.4 (213.4,237.5)	247.4 (234.6,260.1)
Denmark	Min	132.2 (128.9,135.6)	130.8 (127.4,134.2)	141.1 (137.6,144.6)	128.5 (125.2,131.8)	121.7 (118.5,124.9)	139.2 (135.7,142.6)
	Max	182.4 (178.5,186.3)	180.4 (176.5,184.4)	194.7 (190.6,198.7)	177.2 (173.3,181.1)	167.9 (164.1,171.6)	191.9 (187.9,195.9)
Finland	Min	90.9 (81.4,100.3)	90.8 (81.3,100.3)	85.8 (76.6,95.0)	87.8 (78.5,97.1)	90.7 (81.3,100.1)	99.0 (89.2,108.8)
	Max	185.4 (172.0,198.9)	185.3 (171.8,198.9)	175.1 (162.0,188.3)	179.2 (166.0,192.5)	185.2 (171.7,198.6)	202.1 (188.1,216.1)
Greece	Min	23.8 (21.0,26.6)	16.3 (14.0,18.6)	17.5 (15.1,19.8)	23.0 (20.3,25.8)	28.5 (25.4,31.5)	33.6 (30.3,36.9)
	Max	93.3 (85.0,101.5)	67.7 (60.7,74.7)	67.4 (60.4,74.4)	90.3 (82.2,98.4)	113.0 (103.9,122.1)	128.3 (118.6,138.0)
Norway	Min	55.8 (53.0,58.5)	48.2 (45.5,50.8)	49.5 (46.8,52.1)	59.9 (57.0,62.7)	63.4 (60.5,66.3)	56.8 (54.1,59.5)
	Max	142.1 (136.0,148.2)	121.1 (115.3,126.9)	126.5 (120.6,132.4)	155.6 (149.1,162.0)	167.4 (160.8,174.0)	138.8 (133.1,144.5)

Date: 09-December-2020

Study number: 1199-0389

Page 9 of 13

		Study period	2014	2015	2016	2017	2018
Portugal	Min	31.3 (28.1,34.4)	NA	NA	NA	NA	35.4 (32.1,38.8)
r Ortugar <u> </u>	Max	52.4 (47.9,56.9)	35.9 (32.2,39.5)	45.9 (41.8,49.9)	51.8 (47.5,56.2)	58.0 (53.4,62.6)	76.7 (70.6,82.9)
Relgium	Min	48.3 (45.2,51.4)	36.6 (34.1,39.2)	44.3 (41.4,47.2)	50.3 (47.2,53.5)	53.9 (50.5,57.2)	58.9 (55.3,62.4)
Deigium _	Max	189.0 (178.5,199.5)	142.0 (133.4,150.6)	159.0 (149.9,168.0)	205.9 (194.6,217.1)	219.0 (207.2,230.8)	236.8 (224.5,249.1)
Denmark	Min	129.7 (126.3,133.0)	128.1 (124.8,131.4)	138.6 (135.2,142.1)	125.9 (122.7,129.2)	119.2 (116.0,122.3)	136.6 (133.2,139.9)
Denmark _	Max	178.8 (175.0,182.7)	176.7 (172.8,180.6)	191.2 (187.2,195.3)	173.7 (169.9,177.5)	164.4 (160.7,168.1)	188.3 (184.4,192.3)
Finland	Min	83.0 (73.9,92.0)	84.3 (75.2,93.5)	79.9 (71.0,88.8)	79.3 (70.5,88.1)	82.3 (73.3,91.2)	89.0 (79.7,98.3)
rimana _	Max	169.3 (156.4,182.2)	172.1 (159.1,185.2)	163.1 (150.4,175.7)	161.8 (149.2,174.4)	167.9 (155.1,180.7)	181.6 (168.3,194.9)
Grago	Min	22.7 (20.0,25.4)	15.7 (13.4,17.9)	16.8 (14.4,19.1)	22.1 (19.4,24.8)	27.1 (24.1,30.0)	31.7 (28.5,35.0)
Greece _	Max	89.5 (81.4,97.6)	65.5 (58.6,72.3)	65.2 (58.3,72.1)	87.2 (79.2,95.2)	108.3 (99.4,117.2)	121.6 (112.1,131.0)
Norway	Min	50.9 (48.3,53.5)	44.0 (41.4,46.5)	44.8 (42.2,47.3)	53.1 (50.4,55.8)	58.6 (55.8,61.4)	52.9 (50.2,55.5)
Norway _	Max	129.7 (123.9,135.5)	110.6 (105.1,116.2)	114.4 (108.8,120.0)	138.0 (131.9,144.1)	154.8 (148.5,161.2)	129.2 (123.7,134.7)
Dortugal	Min	20.3 (17.8,22.8)	NA	NA	NA	NA	26.7 (23.8,29.6)
Tortugar _	Max	34.0 (30.4,37.6)	21.0 (18.2,23.7)	28.4 (25.1,31.6)	32.2 (28.8,35.6)	36.9 (33.2,40.5)	57.9 (52.5,63.2)
Ralgium	Min	4.4 (3.0,5.8)	0.9 (0.3,1.6)	2.9 (1.8,4.0)	4.9 (3.5,6.4)	5.8 (4.2,7.4)	7.5 (5.7,9.3)
Deigiuiii _	Max	17.8 (12.9,22.6)	3.8 (1.5,6.0)	10.6 (7.0,14.2)	20.9 (15.5,26.2)	24.2 (18.5,30.0)	31.0 (24.5,37.4)
Denmark	Min	2.7 (2.2,3.1)	2.6 (2.2,3.1)	2.8 (2.3,3.3)	2.7 (2.2,3.2)	2.3 (1.9,2.7)	2.8 (2.4,3.3)
Delilliai K	Max	27.7 (26.2,29.3)	25.9 (24.4,27.4)	29.3 (27.8,30.9)	27.4 (25.9,28.9)	25.7 (24.2,27.1)	30.4 (28.8,32.0)
Finland	Min	11.2 (7.8,14.5)	8.5 (5.6,11.4)	10.5 (7.2,13.7)	11.3 (8.0,14.6)	12.5 (9.0,16.0)	13.0 (9.5,16.6)
	Portugal Belgium Denmark Finland Greece Norway Portugal Belgium Denmark Finland		Portugal Min 31.3 (28.1,34.4) Max 52.4 (47.9,56.9) Belgium Min 48.3 (45.2,51.4) Max 189.0 (178.5,199.5) Denmark Min 129.7 (126.3,133.0) Max 178.8 (175.0,182.7) Finland Min 83.0 (73.9,92.0) Max 169.3 (156.4,182.2) Max 89.5 (81.4,97.6) Max 89.5 (81.4,97.6) Max 129.7 (123.9,135.5) Max 129.7 (123.9,135.5) Max 34.0 (30.4,37.6) Max 34.0 (30.4,37.6) Max 17.8 (12.9,22.6) Max 17.8 (12.9,22.6) Max 27.7 (26.2,29.3)	Portugal Min 31.3 (28.1,34.4) NA Max 52.4 (47.9,56.9) 35.9 (32.2,39.5) Belgium Min 48.3 (45.2,51.4) 36.6 (34.1,39.2) Max 189.0 (178.5,199.5) 142.0 (133.4,150.6) Denmark Min 129.7 (126.3,133.0) 128.1 (124.8,131.4) Max 178.8 (175.0,182.7) 176.7 (172.8,180.6) Finland Min 83.0 (73.9,92.0) 84.3 (75.2,93.5) Max 169.3 (156.4,182.2) 172.1 (159.1,185.2) Greece Min 22.7 (20.0,25.4) 15.7 (13.4,17.9) Max 89.5 (81.4,97.6) 65.5 (58.6,72.3) Norway Min 50.9 (48.3,53.5) 44.0 (41.4,46.5) Max 129.7 (123.9,135.5) 110.6 (105.1,116.2) Portugal Min 20.3 (17.8,22.8) NA Portugal Max 34.0 (30.4,37.6) 21.0 (18.2,23.7) Belgium Max 17.8 (12.9,22.6) 3.8 (1.5,6.0) Denmark Min 2.7 (26.2,29.3) 25.9 (24.4,27.4)	Portugal Min 31.3 (28.1,34.4) NA NA Max 52.4 (47.9,56.9) 35.9 (32.2,39.5) 45.9 (41.8,49.9) Belgium Min 48.3 (45.2,51.4) 36.6 (34.1,39.2) 44.3 (41.4,47.2) Max 189.0 (178.5,199.5) 142.0 (133.4,150.6) 159.0 (149.9,168.0) Denmark Min 129.7 (126.3,133.0) 128.1 (124.8,131.4) 138.6 (135.2,142.1) Max 178.8 (175.0,182.7) 176.7 (172.8,180.6) 191.2 (187.2,195.3) Finland Min 83.0 (73.9,92.0) 84.3 (75.2,93.5) 79.9 (71.0,88.8) Finland Max 169.3 (156.4,182.2) 172.1 (159.1,185.2) 163.1 (150.4,175.7) Greece Min 22.7 (20.0,25.4) 15.7 (13.4,17.9) 16.8 (14.4,19.1) Max 89.5 (81.4,97.6) 65.5 (58.6,72.3) 65.2 (58.3,72.1) Norway Max 129.7 (123.9,135.5) 110.6 (105.1,116.2) 114.4 (108.8,120.0) Portugal Min 20.3 (17.8,22.8) NA NA Max 34.0 (30.4,37.6) 21.0 (18.2,23.7) 28.4 (25.1,31.6)	Portugal Min 31.3 (28.1,34.4) NA NA NA Max 52.4 (47.9,56.9) 35.9 (32.2,39.5) 45.9 (41.8,49.9) 51.8 (47.5,56.2) Belgium Min 48.3 (45.2,51.4) 36.6 (34.1,39.2) 44.3 (41.4,47.2) 50.3 (47.2,53.5) Max 189.0 (178.5,199.5) 142.0 (133.4,150.6) 159.0 (149.9,168.0) 205.9 (194.6,217.1) Denmark Min 129.7 (126.3,133.0) 128.1 (124.8,131.4) 138.6 (135.2,142.1) 125.9 (122.7,129.2) Max 178.8 (175.0,182.7) 176.7 (172.8,180.6) 191.2 (187.2,195.3) 173.7 (169.9,177.5) Finland Min 83.0 (73.9,92.0) 84.3 (75.2,93.5) 79.9 (71.0,88.8) 79.3 (70.5,88.1) Max 169.3 (156.4,182.2) 172.1 (159.1,185.2) 163.1 (150.4,175.7) 161.8 (149.2,174.4) Greece Min 22.7 (20.0,25.4) 15.7 (13.4,17.9) 16.8 (14.4,19.1) 22.1 (19.4,24.8) Norway Min 50.9 (48.3,53.5) 44.0 (41.4,46.5) 44.8 (42.2,47.3) 53.1 (50.4,55.8) Norway Max 129.7 (123.9,135.5)	Portugal Min 31.3 (28.1,34.4) NA NA NA NA Max 52.4 (47.9,56.9) 35.9 (32.2,39.5) 45.9 (41.8,49.9) 51.8 (47.5,56.2) 58.0 (53.4,62.6) Belgium Min 48.3 (45.2,51.4) 36.6 (34.1,39.2) 44.3 (41.4,47.2) 50.3 (47.2,53.5) 53.9 (50.5,57.2) Denmark Min 129.7 (126.3,133.0) 128.1 (124.8,131.4) 138.6 (135.2,142.1) 125.9 (122.7,129.2) 119.2 (116.0,122.3) Denmark Min 129.7 (126.3,133.0) 128.1 (124.8,131.4) 138.6 (135.2,142.1) 125.9 (122.7,129.2) 119.2 (116.0,122.3) Max 178.8 (175.0,182.7) 176.7 (172.8,180.6) 191.2 (187.2,195.3) 173.7 (169.9,177.5) 164.4 (160.7,168.1) Max 169.3 (156.4,182.2) 172.1 (159.1,185.2) 163.1 (150.4,175.7) 161.8 (149.2,174.4) 167.9 (155.1,180.7) Greece Min 22.7 (20.0,25.4) 15.7 (13.4,17.9) 16.8 (14.4,19.1) 22.1 (19.4,24.8) 27.1 (24.1,30.0) Morway Max 89.5 (81.4,97.6) 65.5 (58.6,72.3) 65.2 (58.3,72.1) 87.2 (79.2,95.2) 108.3 (99.4,117.2)

Date: 09-December-2020

Study number: 1199-0389

Page 10 of 13

			Study period	2014	2015	2016	2017	2018
	_	Max	22.8 (18.0,27.5)	17.3 (13.2,21.5)	21.3 (16.8,25.9)	23.0 (18.3,27.8)	25.4 (20.4,30.4)	26.6 (21.5,31.7)
	Greece	Min	6.2 (4.8,7.7)	2.9 (1.9,3.9)	4.1 (2.9,5.2)	5.9 (4.5,7.3)	8.0 (6.4,9.6)	10.3 (8.4,12.1)
	Greece _	Max	17.8 (14.2,21.4)	8.2 (5.8,10.7)	11.7 (8.8,14.6)	16.9 (13.4,20.5)	23.0 (18.9,27.1)	29.3 (24.7,33.9)
	Norway	Min	8.1 (7.1,9.2)	8.1 (7.0,9.2)	6.5 (5.5,7.4)	8.1 (7.0,9.1)	8.7 (7.6,9.8)	9.0 (7.9,10.1)
	1101way _	Max	20.7 (18.3,23.0)	20.5 (18.1,22.8)	16.5 (14.4,18.7)	21.0 (18.6,23.4)	22.9 (20.5,25.4)	22.0 (19.7,24.3)
	Portugal _	Min	2.8 (1.9,3.7)	NA	NA	NA	NA	3.1 (2.1,4.1)
	i ortugur <u>-</u>	Max	4.7 (3.4,6.0)	2.8 (1.8,3.8)	4.1 (2.9,5.3)	4.9 (3.6,6.3)	5.5 (4.1,6.9)	6.8 (4.9,8.6)
Non-IPF F-ILD	Belgium _	Min	44.2 (41.3,47.0)	35.7 (33.2,38.2)	41.4 (38.7,44.2)	45.4 (42.5,48.3)	48.1 (45.0,51.2)	51.4 (48.2,54.6)
r-ILD	Deigiaiii <u>-</u>	Max	172.4 (162.6,182.1)	138.2 (129.8,146.6)	148.4 (139.8,157.0)	185.0 (174.6,195.3)	194.8 (184.0,205.6)	205.8 (194.8,216.9)
	Denmark	Min	109.6 (106.6,112.7)	109.3 (106.2,112.4)	117.7 (114.5,120.9)	106.3 (103.3,109.3)	100.3 (97.4,103.3)	114.7 (111.6,117.8)
	Bennark _	Max	175.3 (171.5,179.2)	173.0 (169.1,176.9)	187.8 (183.7,191.8)	170.2 (166.4,174.0)	160.9 (157.2,164.6)	184.8 (180.8,188.7)
	Finland	Min	71.8 (63.4,80.2)	75.9 (67.2,84.5)	69.4 (61.2,77.7)	68.0 (59.8,76.2)	69.8 (61.5,78.0)	75.9 (67.4,84.5)
	_	Max	146.5 (134.6,158.5)	154.8 (142.4,167.2)	141.7 (129.9,153.5)	138.8 (127.1,150.5)	142.4 (130.6,154.2)	155.0 (142.7,167.3)
	Greece	Min	17.2 (14.9,19.6)	13.7 (11.6,15.8)	13.4 (11.3,15.5)	16.9 (14.6,19.3)	19.8 (17.3,22.4)	22.3 (19.6,25.0)
	_	Max	69.0 (61.9,76.1)	55.5 (49.2,61.8)	51.9 (45.7,58.0)	67.8 (60.8,74.9)	82.1 (74.3,89.8)	88.1 (80.0,96.1)
	Norway	Min	42.8 (40.4,45.2)	35.9 (33.6,38.2)	38.3 (35.9,40.6)	45.0 (42.5,47.5)	49.9 (47.4,52.5)	43.9 (41.5,46.2)
	_	Max	109.0 (103.7,114.4)	90.2 (85.1,95.2)	97.9 (92.7,103.0)	117.0 (111.4,122.6)	131.9 (126.0,137.8)	107.2 (102.2,112.2)
	Portugal _	Min	17.5 (15.1,19.8)	NA	NA	NA	NA	23.6 (20.8,26.3)
		Max	29.3 (25.9,32.6)	18.2 (15.6,20.8)	24.3 (21.3,27.3)	27.3 (24.1,30.4)	31.4 (28.0,34.7)	51.1 (46.1,56.1)

Date: 09-December-2020 Study number: 1199-0389 Page 11 of 13

			Study period	2014	2015	2016	2017	2018
Sc-ILD	Belgium	Min	4.1 (3.0,5.3)	3.0 (2.0,4.0)	3.7 (2.6,4.8)	4.5 (3.3,5.7)	4.4 (3.3,5.6)	4.9 (3.7,6.2)
	Beigium .	Max	5.5 (4.2,6.8)	4.0 (2.9,5.1)	4.9 (3.7,6.2)	6.0 (4.6,7.4)	5.9 (4.5,7.3)	6.5 (5.1,8.0)
	Denmark	Min	2.2 (1.8,2.7)	2.5 (2.1,3.0)	2.6 (2.1,3.0)	2.3 (1.8,2.7)	1.6 (1.3,2.0)	2.3 (1.8,2.7)
	Denmark .	Max	3.1 (2.6,3.6)	3.5 (2.9,4.0)	3.5 (3.0,4.1)	3.1 (2.6,3.6)	2.2 (1.8,2.7)	3.1 (2.6,3.6)
=	Einland	Min	2.0 (0.6,3.4)	1.6 (0.4,2.9)	1.9 (0.5,3.3)	2.0 (0.6,3.4)	1.9 (0.5,3.2)	2.6 (1.0,4.2)
	Finland	Max	4.1 (2.1,6.1)	3.4 (1.5,5.2)	3.9 (1.9,5.8)	4.1 (2.1,6.1)	3.8 (1.9,5.7)	5.3 (3.0,7.6)
	Cassas	Min	1.3 (0.7,2.0)	1.2 (0.6,1.8)	1.1 (0.5,1.7)	1.3 (0.6,1.9)	1.5 (0.8,2.3)	1.6 (0.9,2.4)
	Greece	Max	4.1 (2.4,5.9)	2.0 (0.8,3.2)	2.7 (1.3,4.2)	3.9 (2.2,5.6)	5.8 (3.7,7.8)	6.2 (4.1,8.4)
	Name	Min	5.3 (4.4,6.1)	4.9 (4.0,5.7)	4.3 (3.5,5.0)	6.1 (5.2,7.0)	6.9 (5.9,7.8)	4.2 (3.4,4.9)
	Norway	Max	13.4 (11.5,15.3)	12.3 (10.4,14.1)	10.9 (9.1,12.6)	15.8 (13.7,17.9)	18.2 (16.0,20.4)	10.1 (8.6,11.7)
	D1	Min	1.3 (0.7,2.0)	NA	NA	NA	NA	1.4 (0.8,2.1)
	Portugal	Max	2.3 (1.3,3.2)	1.4 (0.7,2.1)	2.1 (1.2,3.0)	2.3 (1.4,3.2)	2.6 (1.6,3.6)	3.1 (1.9,4.3)

The ILD category includes F-ILD; the F-ILD category includes IPF and non-IPF F-ILD; and the non-IPF F-ILD category includes SSc-ILD.

For the participating centres receiving referrals from other (satellite) centres, there was uncertainty over the most valid population to be used as denominator for incidence/prevalence estimates. To address this, both maximum and minimum estimates were obtained using as denominator, respectively, each centre's reference population and extended population (for the latter, the satellite centres' reference population was added). In Denmark and Finland there was a single participating centre, which searched a national or regional database (respectively) instead of the centre's own database. Therefore, the distinction between reference and extended population was not applicable, and only single crude and adjusted estimates were obtained (not minimum-maximum for each).

For convenience, the table shows the maximum range of estimates obtained in the analysis: minimum adjusted (by the corresponding PPV shown in Table 1) and maximum crude. For Denmark and Finland, the single adjusted and the single crude estimate are shown. Minimum adjusted incidences for all ILD subtypes in Portugal and for Scc-ILD in Belgium could not be obtained, so maximum adjusted values are reported instead.

Abbreviations: CI, confidence interval; F-ILD, fibrosing interstitial lung disease; ILD, interstitial lung disease; IPF, idiopathic pulmonary fibrosis; NA, not available; SSc-ILD, systemic sclerosis-associated interstitial lung disease; PPV, positive predictive value.

Date: 09-December-2020 Study number: 1199-0389 Page 12 of 13

Table 3. Incidence (A) and prevalence (B) of progressive-fibrosing ILDs in each country, annually and for the study period (A) Incidence per 10⁵ person-years (95% CI)

		Study period	2014	2015	2016	2017	2018
Belgium	Min	5.8 (5.5,6.1)	4.6 (4.1,5.2)	5.6 (5.0,6.4)	5.7 (5.1,6.4)	6.9 (6.2,7.7)	6.5 (5.8,7.3)
	Max	13.7 (13.0,14.6)	12.0 (10.5,13.8)	12.8 (11.2,14.6)	13.7 (12.0,15.6)	15.9 (14.0,18.0)	14.5 (12.7,16.5)
Denmark	Min	8.5 (8.3,8.5)	8.5 (7.9,8.9)	9.1 (8.5,9.4)	8.8 (8.2,9.2)	8.0 (7.4,8.3)	8.3 (7.7,8.6)
Demmark	Max	14.4 (13.9,14.9)	14.3 (13.2,15.5)	15.3 (14.2,16.5)	15.0 (14.0,16.2)	13.4 (12.4,14.5)	14.0 (12.9,15.1)
Finland	Min	5.0 (4.5,4.5)	7.6 (6.3,7.5)	3.9 (3.0,4.1)	4.0 (3.1,4.2)	4.7 (3.7,4.9)	4.8 (3.8,5.0)
Timana	Max	10.1 (8.8,11.6)	15.4 (12.0,19.9)	7.9 (5.5,11.2)	8.1 (5.7,11.5)	9.5 (6.9,13.1)	9.7 (7.1,13.4)
Greece	Min	2.1 (1.9,1.9)	1.3 (1.0,1.5)	2.0 (1.6,2.0)	2.3 (1.9,2.2)	2.7 (2.3,2.6)	2.3 (2.0,2.3)
Greece	Max	5.2 (4.8,5.7)	5.1 (4.1,6.3)	4.5 (3.7,5.5)	4.8 (4.0,5.9)	6.6 (5.6,7.8)	5.0 (4.1,6.0)
Norway	Min	2.7 (2.5,2.9)	NA	2.7 (2.2,3.2)	3.6 (3.1,4.2)	2.4 (2.0,2.8)	2.1 (1.8,2.6)
norway	Max	6.8 (6.2,7.5)	NA	6.8 (5.6,8.3)	9.4 (7.9,11.1)	6.2 (5.1,7.7)	5.2 (4.2,6.4)
Portugal	Min	2.1 (1.9,2.9)	1.5 (1.2,2.5)	2.1 (1.7,3.2)	1.8 (1.5,2.8)	2.3 (1.9,3.4)	2.6 (2.2,3.6)
	Max	2.9 (2.6,3.2)	2.1 (1.6,2.8)	2.9 (2.3,3.6)	2.5 (2.0,3.3)	3.2 (2.5,3.9)	3.5 (2.9,4.3)

(B) Prevalence per 10⁵ persons (95% CI)

		Study period	2014	2015	2016	2017	2018
Belgium	Min	16.7 (15.0,20.4)	13.5 (12.0,16.7)	15.7 (14.0,19.2)	17.2 (15.4,21.0)	18.2 (16.3,22.1)	19.5 (17.5,23.5)
	Max	65.3 (59.3,71.3)	52.4 (47.2,57.6)	56.2 (51.0,61.5)	70.1 (63.7,76.5)	73.8 (67.2,80.5)	78.0 (71.2,84.8)

Date: 09-December-2020 Study number: 1199-0389 Page 13 of 13

		Study period	2014	2015	2016	2017	2018
Denmark	Min	25.3 (NE)	25.2 (NE)	27.1 (NE)	24.5 (NE)	23.2 (NE)	26.5 (NE)
	Max	40.4 (38.6,42.3)	39.9 (38.1,41.8)	43.3 (41.4,45.2)	39.3 (37.4,41.1)	37.1 (35.4,38.9)	42.6 (40.7,44.5)
Finland	Min	18.4 (14.2,22.4)	19.5 (15.1,23.5)	17.8 (13.6,21.7)	17.4 (13.3,21.3)	17.9 (13.7,21.8)	19.5 (15.1,23.5)
	Max	37.6 (31.5,43.7)	39.7 (33.4,46.0)	36.3 (30.4,42.3)	35.6 (29.7,41.5)	36.5 (30.6,42.5)	39.8 (33.5,46.0)
Greece	Min	5.4 (4.0,15.2)	4.3 (3.1,11.7)	4.2 (3.0,14.1)	5.3 (4.0,15.7)	6.2 (4.8,16.7)	6.9 (5.4,17.7)
	Max	21.5 (17.5,25.4)	17.3 (13.7,20.8)	16.1 (12.7,19.6)	21.1 (17.2,25.0)	25.5 (21.2,29.9)	27.4 (22.9,31.9)
Norway	Min	13.1 (11.7,14.2)	11.0 (9.7,12.1)	11.7 (10.4,12.8)	13.8 (12.4,15.0)	15.3 (13.8,16.5)	13.4 (12.1,14.6)
	Max	33.3 (30.4,36.3)	27.5 (24.8,30.3)	29.9 (27.0,32.8)	35.7 (32.7,38.8)	40.3 (37.0,43.5)	32.7 (30.0,35.5)
Portugal	Min	6.7 (5.3,10.3)	NA	NA	NA	NA	9.1 (7.4,10.3)
	Max	11.3 (9.2,13.4)	7.0 (5.4,8.6)	9.4 (7.5,11.2)	10.5 (8.6,12.5)	12.1 (10.0,14.2)	19.7 (16.6,22.8)

The incidence/prevalence in each country was extrapolated from the weighted mean percentage of progressive-fibrosing behaviour. To calculate this weighted mean percentage for a given country, (1) the number of cases of each non-IPF F-ILD subtype in the country was divided by the total number of non-IPF F-ILD cases, and the result was multiplied by the overall (considering all countries) mean percentage of progressive-fibrosing behaviour of the corresponding non-IPF F-ILD subtype; and (2) the result of step 1 for all non-IFP F-ILDs was summed. This way, the incidence/prevalence estimates obtained accounted for the distribution of the different non-IPF F-ILD subtypes in the country, and for their individual potential for progression. Weighted country mean percentages used were 37.9% (Belgium), 23.1% (Denmark), 25.6% (Finland), 31.2% (Greece), 30.6% (Norway) and 38.5% (Portugal).

For convenience, the table shows the maximum range of estimates obtained in the analysis: minimum adjusted (by the corresponding PPV shown in Table 1) and maximum crude. For Finland, the table shows the single adjusted and the single crude estimate available. Minimum adjusted incidences in Portugal could not be obtained, so maximum adjusted values are reported instead. Abbreviations: CI, confidence interval; NA, not available; NE, not estimable; IPF, idiopathic pulmonary fibrosis; F-ILD, fibrosing interstitial lung disease; PPV, positive predictive value.