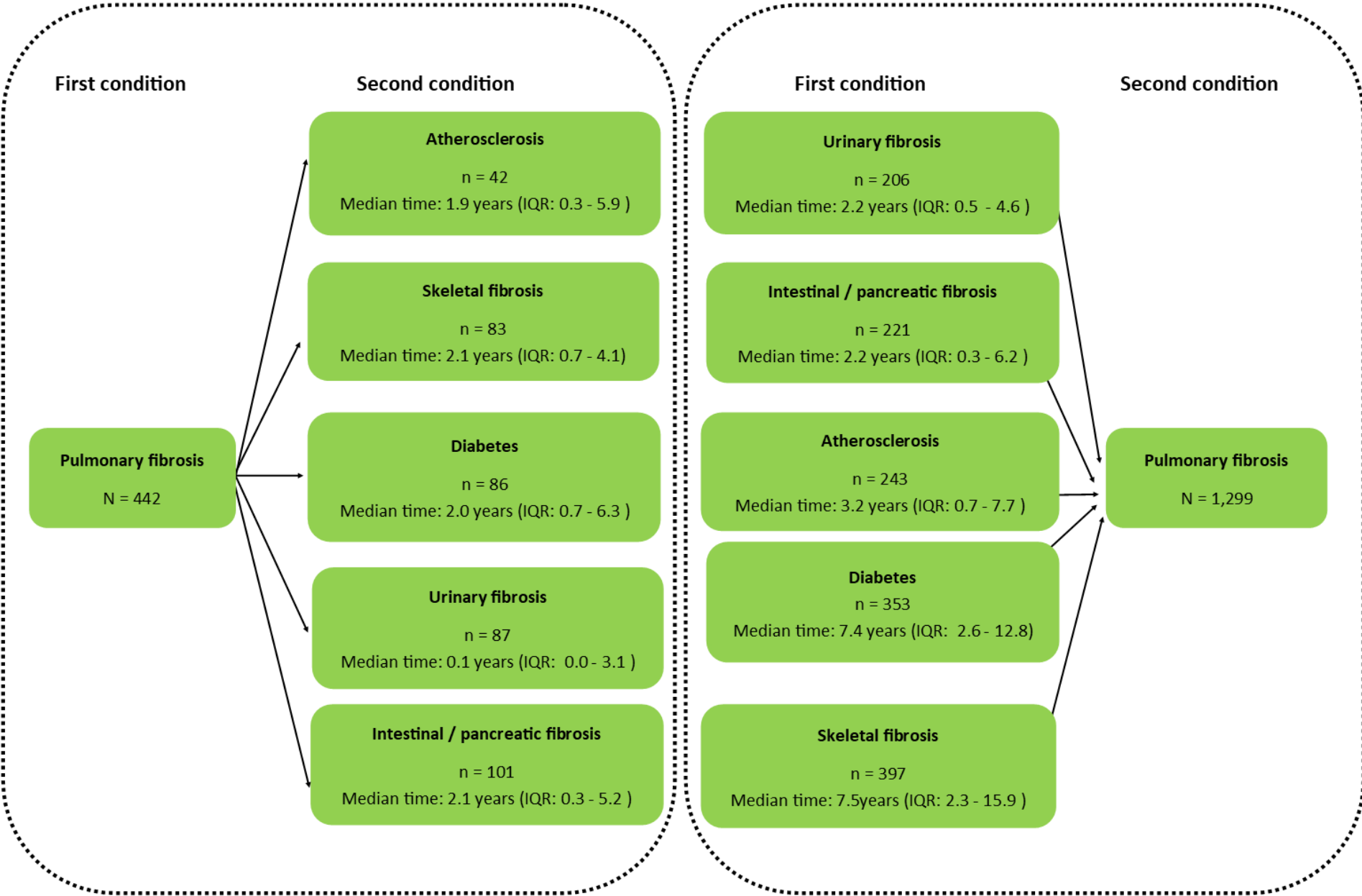
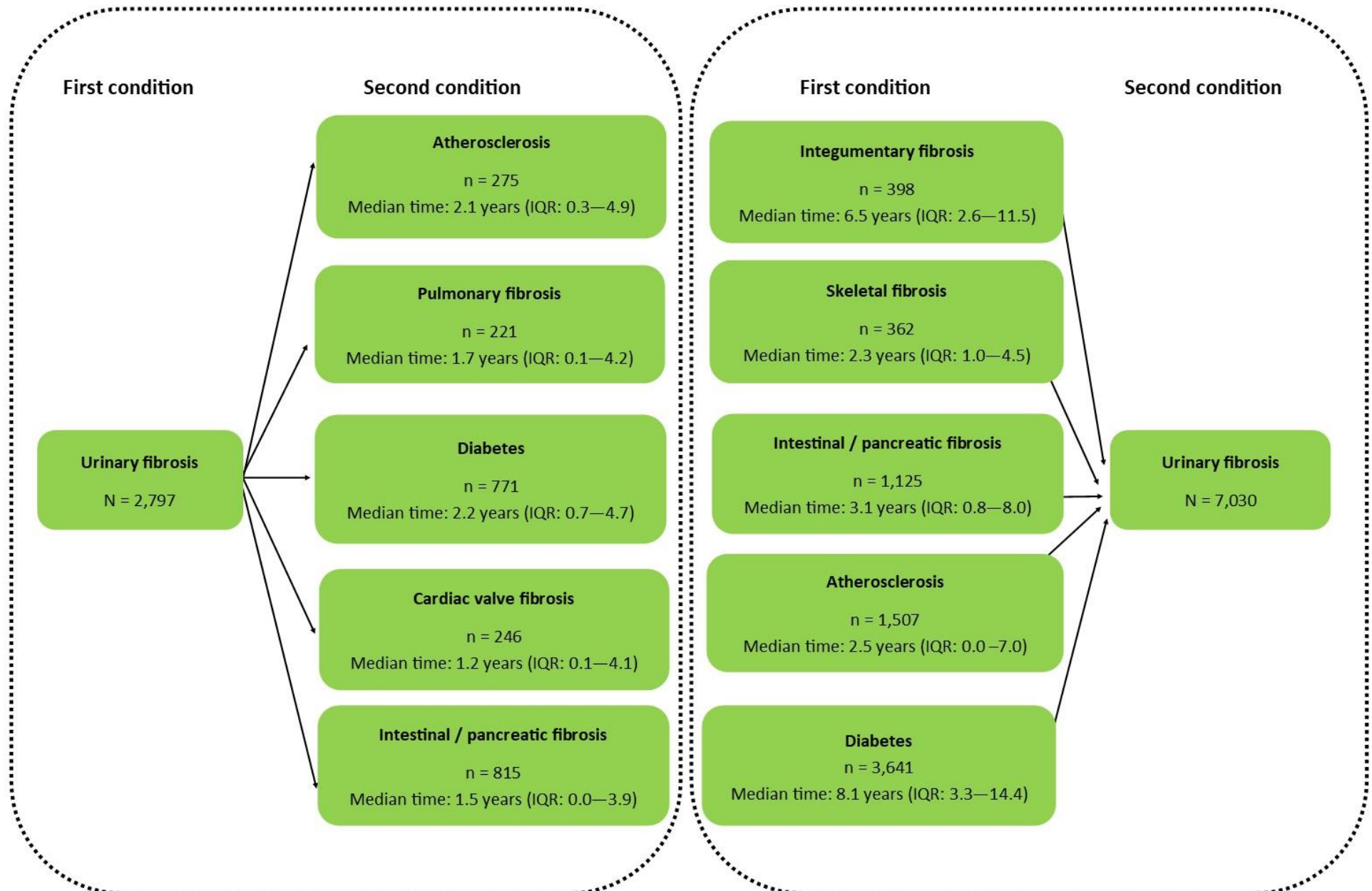


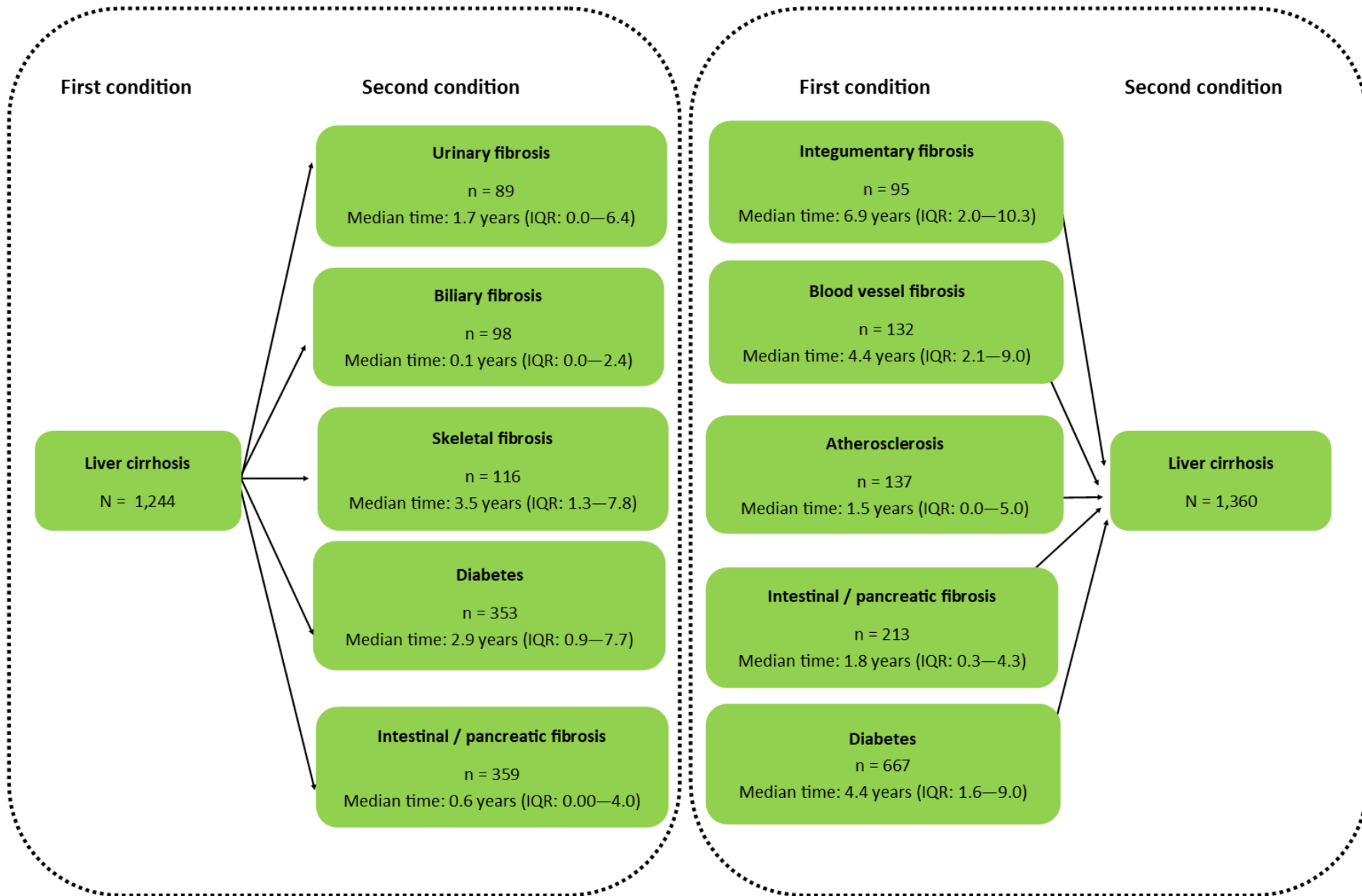
Supplementary figure 1 | Five most commonly co-occurring fibrotic conditions in people whose records included diagnosis of pulmonary fibrosis and on other fibrotic condition.



Supplementary figure 2 | Five most commonly co-occurring fibrotic conditions in people whose records included diagnosis of urinary fibrosis and on other fibrotic condition.



Supplementary figure 3 | Five most commonly co-occurring fibrotic conditions in people whose records included diagnosis of liver cirrhosis and on other fibrotic condition.



Supplementary table 1 | Baseline characteristics of age and sex per fibrotic condition.

Population	N	Prevalence (%)	Median age	Female (%)	Male (%)
General population	993,370	-	46	50.26	49.74
Atherosclerosis	32,466	3.27	72	31.67	68.33
Bile duct fibrosis	8,033	0.81	64	68.26	31.74
Blood vessel fibrosis	14,672	1.48	67	56.20	43.80
Cardiomyopathy	4,573	0.46	69	32.45	67.55
Diabetes	91,259	9.19	64	49.54	50.46
Integumentary fibrosis	27,810	2.80	62	57.65	42.35
Intestinal and pancreatic fibrosis	56,031	5.64	68	55.30	44.70
Liver cirrhosis	9,661	0.13	57	44.05	55.95
Lymphahtic fibrosis	1,278	0.13	64	46.79	53.21
Peritoneal fibrosis	783	0.08	62	44.83	55.17
Reproductive fibrosis	18,863	1.90	48	71.48	28.52
Pulmonary fibrosis	6,057	0.61	78	39.99	60.01
Skeletal fibrosis	14,597	1.47	67	67.67	32.33
Systemic fibrosis	2,636	0.27	64	75.04	24.96
Urinary fibrosis	32,765	3.30	77	52.40	47.60
Valve fibrosis	12,939	1.30	76	50.17	49.83
Any fibrotic condition	213,197	21.46	65	53.32	46.68

	Urinary	Liver	Diabetes	BloodVessel	Atherosclerosis	Biliary	Cardiomyopathy	Integumentary	Intest-Panc	Reproductive	Skeletal	Systemic	Valve
Pulmonary	0.16 (0.15 - 0.17)	N/A	0.17 (0.16 - 0.18)	N/A	0.13 (0.12 - 0.14)	N/A	N/A	N/A	0.16 (0.15 - 0.17)	N/A	0.05 (0.04 - 0.06)	N/A	0.07 (0.06 - 0.08)
Urinary		0.10 (0.09 - 0.11)	1.13 (1.11 - 1.16)	0.20 (0.19 - 0.21)	0.63 (0.61 - 0.65)	0.10 (0.09 - 0.11)	0.11 (0.10 - 0.12)	0.20 (0.19 - 0.22)	0.78 (0.76 - 0.80)	0.07 (0.06 - 0.08)	0.14 (0.13 - 0.15)	N/A	0.32 (0.31 - 0.33)
Liver			0.29 (0.28 - 0.30)	0.06 (0.05 - 0.07)	0.09 (0.08 - 0.09)	0.06 (0.06 - 0.07)	N/A	0.05 (0.05 - 0.06)	0.23 (0.22 - 0.24)	N/A	0.03 (0.03 - 0.04)	N/A	N/A
Diabetes				0.30 (0.29 - 0.32)	1.11 (1.09 - 1.14)	0.18 (0.17 - 0.19)	0.14(0.13 - 0.15)	0.45 (0.44 - 0.47)	1.24 (1.21 - 1.27)	0.21 (0.20 - 0.22)	0.30 (0.29 - 0.32)	0.05 (0.04 - 0.05)	0.35 (0.34 - 0.37)
BloodVessel					0.14 (0.13 - 0.15)	N/A	N/A	0.09 (0.08 - 0.10)	0.26 (0.25 - 0.27)	N/A	0.07 (0.06 - 0.08)	N/A	0.06 (0.06 - 0.07)
Atherosclerosis						0.08 (0.07 - 0.09)	0.14 (0.13 - 0.15)	0.18 (0.17 - 0.19)	0.66 (0.63 - 0.68)	0.06 (0.06 - 0.07)	0.14 (0.13 - 0.15)	N/A	0.48 (0.46 - 0.50)
Biliary							N/A	N/A	0.23 (0.22 - 0.24)	N/A	0.03 (0.03 - 0.04)	N/A	N/A
Cardiomyopathy								N/A	0.09 (0.08 - 0.09)	N/A	N/A	N/A	0.08 (0.07 - 0.09)
Integumentary									0.35 (0.33 - 0.36)	0.09 (0.08 - 0.10)	0.09 (0.09 - 0.10)	N/A	0.08 (0.07 - 0.08)
Intest-Panc										0.16 (0.15 - 0.17)	0.22 (0.21 - 0.23)	0.05 (0.04 - 0.06)	0.29 (0.28 - 0.30)
Reproductive											0.04 (0.03 - 0.05)	N/A	N/A
Skeletal												0.04 (0.03 - 0.05)	0.06 (0.05 - 0.07)
Systemic													N/A
Valve													N/A

	>1.00
	0.5 < X < 1.00
	0.25 < X < 0.5

Supplementary table 2 | Prevalences of multi-morbid fibrosis

The prevalences of multi-morbid fibrosis within the random sample of UK adults, derived from CPRD and HES admitted patient care. Displayed alongside a 99% confidence interval; the values recorded as N/A were less than 0.05% and therefore redacted. Lymphatic and peritoneal fibrosis were removed from this table due to having no values which were not redacted.

Fibrotic Condition	Location (first diagnosed)	Percentage
Atherosclerosis	GP	1.37374484
Atherosclerosis	Hospital	98.5708125
Atherosclerosis	Death Certificate	0.05544262
Biliary	GP	7.12062741
Biliary	Hospital	92.5183618
Biliary	Death Certificate	0.36101083
BloodVessel	GP	78.4487459
BloodVessel	Hospital	20.5766085
BloodVessel	Death Certificate	0.97464558
Cardiomyopathy	GP	43.0133392
Cardiomyopathy	Hospital	34.6818281
Cardiomyopathy	Death Certificate	22.3048327
Diabetes	GP	94.4827359
Diabetes	Hospital	5.44494242
Diabetes	Death Certificate	0.07232163
Integumentary	GP	81.700827
Integumentary	Hospital	18.1445523
Integumentary	Death Certificate	0.15462064
Intest-Panc	GP	11.959451
Intest-Panc	Hospital	87.9066945
Intest-Panc	Death Certificate	0.13385447
Liver	GP	22.2130214
Liver	Hospital	76.7622399
Liver	Death Certificate	1.02473864
Lymphatic	GP	47.4178404
Lymphatic	Hospital	34.8982786
Lymphatic	Death Certificate	17.6838811
Peritoneum	GP	6.1302682
Peritoneum	Hospital	90.5491699
Peritoneum	Death Certificate	3.32056194
Pulmonary	GP	22.238732
Pulmonary	Hospital	42.8264818
Pulmonary	Death Certificate	34.9347862
Reproductive	GP	42.1141918
Reproductive	Hospital	57.8805068
Reproductive	Death Certificate	0.00530138

Skeletal	GP	65.109269
Skeletal	Hospital	33.7946153
Skeletal	Death Certificate	1.09611564
Systemic	GP	55.6145675
Systemic	Hospital	44.0440061
Systemic	Death Certificate	0.3414264
Urinary	GP	53.1664886
Urinary	Hospital	46.3360293
Urinary	Death Certificate	0.49748207
Valve	GP	36.339748
Valve	Hospital	63.1810805
Valve	Death Certificate	0.4791715
All fibrotic conditions	GP	52.42582
All fibrotic conditions	Hospital	46.3015403
All fibrotic conditions	Death Certificate	1.27263974

Supplementary table 3 | Proportion of diagnoses first recorded in general practice (CPRD Aurum), hospital (HES admitted patient care) and death certificate (ONS records)