

Additional file 4. Association of MMPs and TIMPs with measures of IPF severity, adjusted for anti-fibrotic treatment.

Protein	Association with FVC % predicted		Association with DL _{CO} % predicted		Association with CPI	
	Estimated effect* (β)	Corrected p-value [†]	Estimated effect* (β)	Corrected p-value [†]	Estimated effect* (β)	Corrected p-value [†]
MMP1	-0.69	0.7391	-1.79	0.2615	1.27	0.3376
MMP2	4.86	0.3012	-1.38	0.7044	0.08	0.9725
MMP3	2.34	0.7391	-4.01	0.2615	2.26	0.4278
MMP7	-10.49	0.1465	-13.63	0.0080	11.20	0.0049
MMP8	-6.49	0.1465	-6.06	0.0359	5.57	0.0140
MMP9	-8.14	0.1359	-3.97	0.2615	5.44	0.0260
MMP12	-3.91	0.1942	-5.53	0.0084	4.42	0.0073
MMP13	-2.97	0.2547	-6.36	0.0006	4.71	0.0017
TIMP1	-1.48	0.8237	0.22	0.9684	1.37	0.8309
TIMP2	-3.54	0.7391	-6.82	0.4064	5.61	0.4278
TIMP4	-2.83	0.7391	-11.90	0.0257	8.10	0.0460

*Estimated effect (β) is the estimated difference in disease severity measure per 10-fold increase in protein concentration, as determined by linear regression.

[†]p-value determined by linear regression corrected for multiplicity using the Benjamini-Hochberg method to control the false discovery rate at 5%.

CPI, composite physiologic index; DL_{CO}, diffusing capacity of the lungs for carbon monoxide; FVC, forced vital capacity.