Table S1 Univariate Cox regression analysis of the clinical features in patients with idiopathic pulmonary fibrosis

	HR	95% CI	P
Age	1.039	1.018–1.061	<0.001
FVC%	0.981	0.970–0.992	0.001
FEV1%	0.977	0.966–0.989	<0.001
DLCO%	0.968	0.956–0.980	<0.001
FVC absolute change in 12 months	0.983	0.971–0.995	0.006
DLCO absolute change in 12 months	0.988	0.977–0.998	0.020
Gender, female	Reference		
Male	1.619	1.071–2.447	0.022
Ever-smoker	1.162	0.798–1.692	0.433
Dyspnea	1.088	0.716–1.653	0.693
Cough	0.654	0.454–0.943	0.023
Oxygen therapy	0.843	0.580–1.224	0.368

P value <0.05 regarded as significant. HRCT, high-resolution computed tomography; HR, hazard ratio; CI, confidence interval; FVC%, forced vital capacity percent predicted; FEV1%, forced expiratory volume in one second percent predicted; DLCO%, diffusion capacity to carbon monoxide percent predicted.

Table S2 Median survival in patients with IPF in the presence of specific HRCT patterns according to the unadjusted Kaplan-Meier estimator analysis

Radiological pattern	Median survival in months (95% CI)	Log Rank P
Honeycombing: no/yes	75 (54.3–95.7)/37 (27.7–46.3)	0.001
Traction bronchiectasis: no/yes	67 (45.2–88.8)/37 (28.3–45.7)	0.021
Emphysema: no/yes	52 (37.2–66.8)/36 (27.4–44.6)	0.006
Architectural distortion: no/yes	59 (43.1–74.9)/32 (22.0–42.0)	<0.001
Possible UIP/UIP	56 (29.5–82.5)/37 (28.0–46.0)	0.032

P value <0.05 regarded as significant. IPF, idiopathic pulmonary fibrosis; HRCT, high resolution computed tomography; CI, confidence interval; UIP, usual interstitial pneumonia.

Table S3 Correlations between the extent of HRCT patterns and selected features in patients with IPF according to Spearman's correlation coefficient

	Traction bronchiectasis Score	Honeycombing Score	Architectural distortion Score	Reticulation Score	GGO Score	Emphysema Score
FVC%	−0.187*	−0.225*	−0.193*	−0.281**	−0.059	0.240**
FEV1%	−0.196*	−0.275**	−0.235**	−0.150	0.021	0.094
DLCO%	−0.347***	−0.284**	−0.298**	−0.279**	−0.039	−0.083
FVC6[†]	0.257*	0.036	−0.129	0.113	−0.081	−0.111
DLCO12[‡]	−0.245*	−0.152	−0.157	0.104	0.072	−0.034
DLCO12[§]	0.197	0.232*	0.177	−0.081	−0.046	0.023
Ever-smoker	−0.064	0.206*	0.207*	−0.141	−0.106	0.280**
Gender	0.127	0.289**	0.253**	−0.051	−0.081	0.208*
ReHosp	0.008	−0.077	0.027	0.125	0.120	−0.191*
UIP	0.401***	0.742***	0.419***	−0.202*	−0.522***	0.233**
GGO	−0.184*	−0.364***	−0.249**	0.443***	1.000	−0.224*
HC	0.645***	1.000	0.680***	−0.105	−0.364***	0.205*
Ret	0.180*	−0.105	−0.147	1.000	0.443***	−0.284**
Em	0.003	0.205*	0.289**	−0.284**	−0.224*	1.000
TX	1.000	0.645***	0.617***	0.180*	−0.184*	0.003
AD	0.617***	0.680***	1.000	−0.147	−0.249**	0.289**

*, P<0.05; **, P<0.01; ***, P<0.001; [†], classified change in six months; [‡], absolute change in 12 months; [§], classified change in 12 months. IPF, idiopathic pulmonary fibrosis; HRCT, high resolution computed tomography; GGO, ground glass opacity; FVC%, forced vital capacity percent predicted; FEV1%, forced expiratory volume in one second percent predicted; DLCO%, diffusion capacity to carbon monoxide percent predicted; ReHosp, hospitalization due to respiratory reasons (yes/no); UIP, usual interstitial pneumonia; HC, honeycombing; Ret, reticulation; Em, emphysema; TX, traction bronchiectasis; AD, architectural distortion.

Table S4 The extent of specific HRCT patterns in patients with IPF categorized according to gender and different smoking habits

Feature	Female	Male	Non-smoker	Ever-smoker
Reticulation	9.06±2.6 (3–13)	8.89±3.3 (0–19)	9.40±2.3 (4–13)	8.73±3.4 (0–19)
Traction bronchiectasis	2.83±2.6 (0–10)	3.68±2.9 (0–13)	3.74±3.1 (0–13)	3.27±2.8 (0–12)
Honeycombing	2.12±2.8 (0–10)	4.18±3.6 (0–14)*	2.63±3.2 (0–14)	4.03±3.6 (0–13)*
Architectural distortion	0.89±1.7 (0–6)	2.34±3.2 (0–14)*	1.20±2.1 (0–8)	2.34±3.3 (0–14)*
GGO	4.13±5.4 (0–18)	2.94±3.9 (0–16)	4.05±4.9 (0–18)	2.91±4.0 (0–16)
Emphysema	0.37±1.1 (0–4)	1.82±3.6 (0–14)*	0.50±2.0 (0–12)	1.98±3.6 (0–14)*

Score numbers are presented as mean ± SD (min–max). *, P<0.05. IPF, idiopathic pulmonary fibrosis; HRCT, high resolution computed tomography; GGO, ground glass opacity.