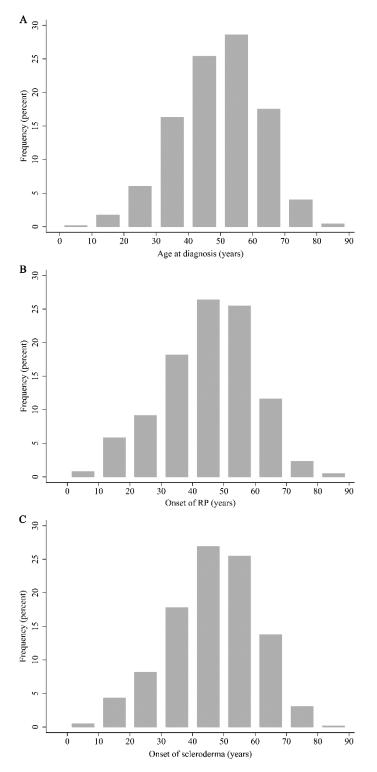
ONLINE SUPPLEMENTARY DATA

Supplementary Figure 1. Frequency of age at diagnosis (A), onset age of Raynaud phenomenon (B) and onset age of scleroderma (C) in patients with systemic sclerosis in each age decade.



Туре	SSc patients with malignancy (n=46)
Lung cancer, n (%)	11 (23.9%)
Stomach cancer, n (%)	6 (13%)
Breast cancer, n (%)	6 (13%)
Thyroid cancer, n (%)	5 (10.9%)
Cervical cancer, n (%)	4 (8.7%)
Lymphoma, n (%)	3 (6.5%)
Colon cancer, n (%)	2 (4.3%)
Tongue cancer, n (%)	2 (4.3%)
Duodenal cancer, n (%)	1 (2.2%)
Malignancy of unknown origin, n (%)	1 (2.2%)
Prostatic cancer, n (%)	1 (2.2%)
Rectal cancer, n (%)	1 (2.2%)
Renal cell cancer, n (%)	1 (2.2%)
Lung and thyroid cancer, n (%)	1 (2.2%)
Lymphoma and colon cancer, n (%)	1 (2.2%)

Supplementary Table 1. Type of malignancies in Korean patients with systemic sclerosis.

Supplementary Table 2. Differences in disease presentation according to the presence of anti-

Scl70 antibody.

Characteristics	positive (n =	negative (n =		
	302)	408)	p-value	
Female, n (%)	266 (88.1%)	348 (85.3%)	0.318	
dcSSc, n (%)	152 (50.3%)	94 (23.0%)	<0.001	
BMI, kg/m², mean ± SD	21.5 ± 3.7	22.9 ±18.0	0.255	
Age at diagnosis, years, mean ± SD	45.3 ± 13.9	51.5 ± 12.2	<0.001	
Onset age of RP, years, mean ± SD	39.8 ±15	48 ± 13.6	<0.001	
Onset age of scleroderma, years, mean ±	41.5 ± 14.4	49.2 ±13.4	<0.001	
SD	41.5 ± 14.4	49.2 ±13.4	<0.001	
Observation period, years, mean ± SD	6.4 ± 5.7	6.2 ± 5.5	0.729	
Residence in urban area, n (%)	240 (79.7%)	308 (76.0%)	0.273	
mRSS, mean ± SD	10.2 ± 7.7	6.6 ± 5.9	<0.001	
GERD, n (%)	105 (35.1%)	119 (29.5%)	0.12	
ILD, n (%)	223 (74.1%)	158 (38.9%)	<0.01	
Cardiovascular involvement, n (%)	34 (11.9%)	39 (10.1%)	0.531	
PAH, n (%)	38 (14.8%)	53 (14.7%)	0.982	
Isolated PAH, n (%)	1 (0.3%)	11 (2.7%)	0.017	
Renal crisis, n (%)	10 (3.3%)	7 (1.7%)	0.216	
Cancer, n (%)	15 (5.0%)	29 (7.1%)	0.272	

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Death, n (%)	35 (11.6%)	19 (4.7%)	0.001
Pulmonary function test			
FVC (% predicted), mean ± SD	72.8 ± 17.9	83.0 ± 20.1	<0.001
FEV1 (% predicted), mean ± SD	77.3 ± 18.7	87.7 ± 21.4	<0.001
FEV1/FVC (% predicted), mean ± SD	107.5 ± 14.9	106.5 ± 12.6	0.371
DLco (% predicted), mean ± SD	61.7 ± 20.6	68.6 ± 22.4	<0.001
Systolic PAP, mmHg mean ± SD	31.4 ± 16.2	32.8 ±16.8	0.363

dcSSc: diffuse cutaneous systemic sclerosis; body mass index; RP: Raynaud's phenomenon; mRSS: modified Rodnan skin score; GERD: gastroesophageal reflux disease; ILD: Interstitial lung disease; PAH: Pulmonary arterial hypertension; FVC: forced vital capacity; FEV1: forced expiratory volume in 1 second; DLco: diffusing capacity for carbon monoxide; PAP: pulmonary arterial pressure. **Supplementary Figure 2.** Comparisons of survival curve in patients with systemic sclerosis according to the presence of cardiovascular involvement (A) and ant-Scl70 antibody (B).

