

Supplementary table 3. Uni- and multivariable analyses to identify the contributed factor to in-hospital mortality in patients with SSP.

| Variables | Univariable | | Multivariable | |
|---|---------------------------|-------------------|------------------------|---------------|
| | Odds ratio (95% CI) | p-value | Odds ratio (95% CI) | p-value |
| Mode of onset, first | 3.0700 (1.4000 to 6.7100) | 0.0051 | | |
| Underlying disease | | | | |
| COPD, + | 0.5100 (0.2690-0.9670) | 0.0390 | | |
| Interstitial pneumonia, + | 4.5800 (2.4100-8.7200) | <0.0001 | 2.4700 (1.1100-5.4800) | 0.0269 |
| CPFE, + | 1.1700 (0.4040-3.3800) | 0.7750 | | |
| Pulmonary malignancy, + | 1.5900 (0.6830-3.6900) | 0.2830 | | |
| Pulmonary infection, + | 4.3700 (2.1800-8.7800) | <0.0001 | | |
| Catamenial, + | 0.00000014 (0-Inf) | 0.9830 | | |
| Others, + | 0.7230 (0.2790-1.8800) | 0.5050 | | |
| Home oxygen therapy, + | 4.0100 (2.0000-8.0200) | <0.0001 | 1.6400 (0.6990-3.8500) | 0.2550 |
| Comorbidities except for pulmonary disease, + | 1.9100 (0.9000-4.0500) | 0.0919 | | |

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|---|--------------------------|-------------------|-------------------------|-------------------|
| Administration of steroid on admission, + | 3.8500 (1.8900-7.8400) | 0.0002 | | |
| Affected side, bilateral | 7.9600 (3.1400-20.2000) | <0.0001 | | |
| Age | 1.0300 (1.0100-1.0500) | 0.0095 | | |
| Gender, Male | 1.5000 (0.6820-3.2900) | 0.3140 | | |
| PS, 3 \leq | 15.2000 (7.6800-30.2000) | <0.0001 | 7.3900 (3.1900-17.2000) | <0.0001 |
| BMI | 0.8390 (0.7590-0.9280) | 0.0007 | | |
| Smoking index | 1.0000 (0.9910-1.0100) | 0.7740 | | |
| Serum CRP on admission | 1.1200 (1.0700-1.1700) | <0.0001 | 1.0400 (0.9730-1.1100) | 0.2520 |
| Serum albumin on admission | 0.2040 (0.1270-0.3290) | <0.0001 | 0.4060 (0.2140-0.7690) | 0.0057 |
| Degree of the collapsed lung, moderate \leq | 0.9400 (0.4400-2.0000) | 0.8720 | | |
| Surgery, + | 0.2660 (0.1290-0.5480) | <0.0001 | | |

SSP: secondary spontaneous pneumothorax

COPD: chronic obstructive pulmonary disease, CPFE: combined pulmonary fibrosis and emphysema

PS: performance status, BMI; body mass index, CRP: c-reactive protein