

Table 1: Demographics and indications for transplantation of lung transplantation recipients

| | Without CRS | With CRS | | <i>P</i> |
|--|-------------|-------------|-------------|----------|
| | | ESS (-) | ESS (+) | |
| Number of patients | 120 | 21 | 7 | |
| Age (mean ± standard deviation) (years) | 40.3 ± 15.7 | 36.5 ± 17.9 | 46.4 ± 14.3 | 0.452 |
| Male / Female | 49 / 71 | 10 / 11 | 2 / 5 | 0.662 |
| Type of transplantation | | | | |
| Brain-dead donor / Living donor | 54 / 66 | 10 / 11 | 5 / 2 | 0.393 |
| Bilateral / Unilateral | 95 / 25 | 14 / 7 | 7 / 0 | 0.159 |
| Abnormal paranasal sinus shadow on CT (present / absent) | 22 / 98 | 21 / 0 | 7 / 0 | < 0.001 |
| <i>Pseudomonas aeruginosa</i> (present / absent) | 47 / 73 | 13 / 8 | 7 / 0 | 0.002 |
| Indication for transplantation (%) | | | | |
| Pulmonary hypertension | 29 (24.1) | 3 (14.3) | 0 | |
| Diffuse panbronchiolitis | 0 | 2 (9.5) | 3 (42.9) | |
| Idiopathic interstitial pneumonia | 39 (32.5) | 5 (23.8) | 0 | |
| Obliterative bronchiolitis | 21 (17.5) | 7 (33.3) | 1 (14.3) | |
| Bronchiectasis | 4 (3.3) | 2 (9.5) | 2 (28.6) | |
| Pulmonary emphysema | 5 (4.2) | 1 (4.8) | 1 (14.3) | |
| Congenital tracheal stenosis | 0 | 1 (4.8) | 0 | |
| Cystic fibrosis | 1 (0.8) | 0 | 0 | < 0.001 |
| Pulmonary lymphangiomyomatosis | 12 (10.0) | 0 | 0 | |
| Eisenmenger syndrome | 2 (1.7) | 0 | 0 | |
| Pulmonary eosinophilic granuloma | 1 (0.8) | 0 | 0 | |
| Multiple pulmonary arteriovenous fistulas | 2 (1.7) | 0 | 0 | |
| Erdheim-Chester disease | 1 (0.8) | 0 | 0 | |
| Hypoplastic pulmonary artery | 1 (0.8) | 0 | 0 | |
| Chronic obstructive pulmonary disease | 1 (0.8) | 0 | 0 | |
| Langerhans cell histiocytosis | 1 (0.8) | 0 | 0 | |

CRS: chronic rhinosinusitis

ESS: endoscopic sinus surgery

CT: computed tomography

Table 2: The univariate analysis with variables associated with mortality.

| Variables | Hazard ratio (95% CI) | <i>P</i> |
|--|-----------------------|----------|
| Age (year) | 0.986 (0.965 – 1.007) | 0.186 |
| Gender (male / female) | 0.717 (0.375 – 1.370) | 0.313 |
| Type of transplantation | | |
| Brain-dead donor / Living donor | 0.709 (0.364 – 1.379) | 0.311 |
| Bilateral transplantation / Unilateral transplantation | 1.393 (0.657 – 2.955) | 0.388 |
| Abnormal paranasal shadow on CT (present / absent) | 1.472 (0.754 – 2.874) | 0.257 |
| <i>Pseudomonas aeruginosa</i> (present / absent) | 0.724 (0.386 – 1.359) | 0.315 |
| Calendar year at transplantation (1998-2005 / 2006-2015) | 0.530 (0.247 – 1.136) | 0.103 |

CI: confidence intervals





