**Additional file**

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| **Additional file 3.** Correlation of preoperative psoas muscle index with spirometry parameters  |
|  | Preoperative psoas muscle index |
| *Pulmonary function test* | Correlation coefficient | *p* value |
| *Spirometry parameters* |  |  |
|  FVC (L) | 0.185 | 0.008 |
|  FVC (%) | 0.238 | 0.001 |
|  FEV1 (L) | 0.255 | <0.001 |
|  FEV1 (%) | 0.303 | <0.001 |
|  FEV1/FVC (%) | 0.118 | 0.092 |
|  FEF25-75% (L.sec-1) | 0.188 | 0.009 |
| FEF25-75% (%) | 0.183 | 0.011 |
|  FEF75-85% (L.sec-1) | 0.081 | 0.269 |
| FEF75-85% (%) | 0.085 | 0.245 |
| **Abbreviations:** FVC, forced vital capacity; FEV1, the first second of forced expiration; FEF, forced expiratory flow |