**Supplementary file 5. Association between the density of mixed cell clusters and clinical characteristics**

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|  |  |  | **Density of mixed cell clusters** |
|  |  | **Spearman r** | **95% confidence interval** | **P value** |
| Age (yrs.) | 0,03 | [-0.34 to 0.39] | 0,88 |
| Body-mass index (kg/m2)Pack years (no.)**LFT** FEV1 (% pred.) FEV1/FVC ratio (%) FVC (% pred.) RV (% pred.) TLCO (% pred.)**Six-minute walk test distance (m)****Arterial blood gases**PaO2 (mm Hg)PaCO2 (mm Hg)**CT parameters**Bronchi:WA4%WT4 (mm)WA5%WT5 (mm)Emphysema:LAA (%)Air trapping:MLA E (HU)MLA I (HU)MLA I-E (HU)Pulmonary Vessels%CSA<5%CSA5-10CSN<5CSN5-10 | -0,020,23-0,39 -0,36-0,35- 0,29-0,48 0,110,21 0,33 0,14 0,130,240,320,30-0,22-0,380,11-0,25-0,28-0,20-0,39 | [-0.38 to 0.35] [-0.16 to 0.55][-0.66 to -0.03][-0.65 to 0.009][-0.63 to 0.02][-0.08 to 0.59][-0.73 to -0.12] [-0.33 to 0.51][-0.18 to 0.54][-0.06 to 0.62][-0.29 to 0.51][-0.29 to 0.51][-0.19 to 0.59][-0.09 to 0.64][-0.09 to 0.61][-0.59 to 0.22][-0.66 to 0.006][-0.32 to 0.51[-0.58 to 0.13][-0.59 to 0.11][-0.54 to 0.19][-0.66 to -0.01] | 0,930,24**0,03****0,04**0,0570,11**0,008**0,620,28 0,080,520,540,250,120,120,30**0,047**0,600,180,150,29**0,04** |
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