### Supplementary Materials

**Primary parameters of the multiparametric MRI performed**

All patients underwent MRI by using a 1.5 T scanner (MAGNETOM Aera, Siemens Medical Solutions, Erlangen) with an 8-channel phased-array torso coil. MRI sequences, including T2W and DW imaging sequences, were performed to obtain the corresponding images. The main parameters of the T2W sequence included: the sequence name “'t2\_blade\_fs\_tra\_p2\_trig\_320-LUNG”, TR 2200 ms, TE 86 ms, Slice thickness 5 mm, Space between slices 1 mm, FOV 350 mm × 350 mm. The main parameters of the DW sequence included: the sequence name “ep2d\_diff\_stir\_b50\_800\_p2\_TRACEW\_DFC”, b value 50 and 800 s/mm2, TR 6800 ms, TE 63 ms, Slice thickness 5 mm, Space between slices 0.25 mm, FOV 400 mm × 400 mm.

The corresponding ADC maps were calculated using a custom-developed MATLAB R2015b package to solve the following equation:



where S(b800) and S(b50) represent the signal intensity of a certain voxel in the presence and absence of diffusion sensitization, respectively.