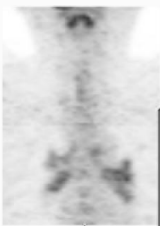
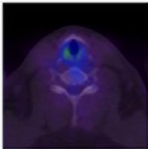
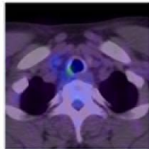
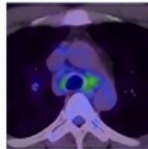
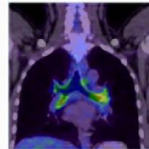
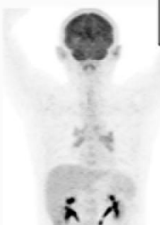
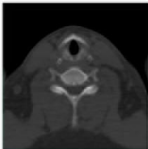
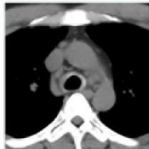
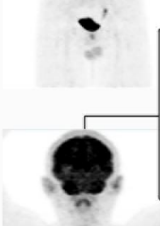
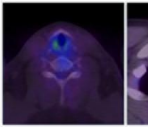
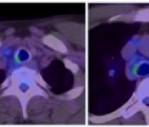
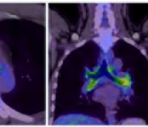
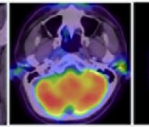
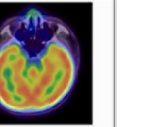
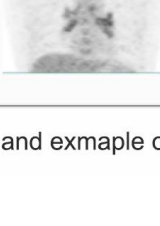
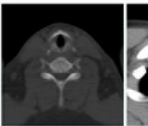
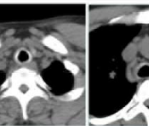
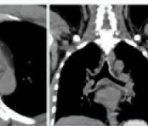
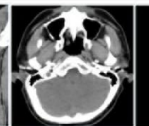


PET Parameters	Definition	Examples					
SUVmax_{airway}	The highest SUVmax of the laryngo-tracheo-bronchial tree.	SUVmax: 5.6					
PETFBS_{airway}	Summation of the visual scores of the laryngo-tracheo-bronchial tree.	     Visual Score:2 Visual Score: 2 Visual Score: 2 Visual Score:13 PETFBS_{airway}=19					
PETCTIndex_{airway}	Number of PET positive lesions / (number of PET positive lesions + number of CT positive lesions) of the laryngo-tracheo-bronchial tree.	    PET(+): 1, CT(+): 0 PET (+): 1, CT(+): 1 PET (+): 1, CT(+): 1 PET(+):5,CT(+):4 PETCTIndex_{airway}=(1+1+1+5)/(8+0+1+1+4)=0.57					
SUVmax_{all}	The highest SUVmax in the region of affected airway, ribs, nose, ears and peripheral joints.	SUVmax: 5.6					
PETFBS_{all}	Summation of the visual scores of the affected airway, ribs, nose, ears and peripheral joints.	      Visual Score:2 Visual Score: 2 Visual Score: 2 Visual Score:13 Visual Score: 3*2 Visual Score: 3 PETFBS_{all}=2+2+2+13+6+3=28					
PETCTIndex_{all}	Number of PET positive lesions / (number of PET positive lesions + number of CT positive lesions) of the whole body.	      PET(+):1, CT(+):0 PET (+):1,CT(+):1 PET(+):1, CT(+): 1 PET(+):6,CT(+):4 PET(+):2, CT(+): 2 PET(+):1,CT(+):1 PETCTIndex_{all}=(8+2+1)/(11+0+1+1+4+2+1)=0.55					

Supplementary Fig.2. Detailed definition and exmple of how to measure these parameters