

Supplemental Table. Comparison and differences of fusion scores between the rigid PET/CT and nonrigid PET/CT data sets.

Anatomical landmark	Rigid inspiration vs. Nonrigid inspiration	Rigid expiration vs. Nonrigid expiration	Rigid mid breath-hold vs. Nonrigid mid breath-hold
Lung apices			
Rigid	2.7±0.6	3.4±0.7	3.5±0.5
Non-rigid	3.3±0.7	3.8±0.8	3.7±0.5
p-value	<0.001	0.01	0.05
Aortic arch			
Rigid	3±0.5	3.5±0.7	3.7±0.5
Non-rigid	3.4±0.5	3.5±0.5	3.6±0.5
p-value	0.001	0.9	0.35
Heart			
Rigid	3.1±0.6	3.1±0.5	3.7±0.7
Non-rigid	3.2±0.6	3.4±0.7	3.5±0.6
p-value	0.48	0.06	*0.03
Spine			
Rigid	3.3±0.7	3.5±0.5	3.5±0.7
Non-rigid	3.3±0.7	3.5±0.6	3.4±0.6
p-value	0.89	0.84	0.47
Carina			
Rigid	3.1±0.6	3.4±0.7	3.5±0.6
Non-rigid	3.5±0.6	3.6±0.6	3.7±0.5
p-value	0.01	0.04	0.01
Sternum			
Rigid	3.3±0.7	3.8±0.7	3.8±0.7
Non-rigid	3.5±0.6	3.8±0.7	3.8±0.6
p-value	0.02	0.9	0.8
Diaphragm			
Rigid	3±0.8	3.3±0.7	3.3±0.7
Non-rigid	3±0.7	3.4±0.7	3.2±0.6
p-value	0.9	0.6	0.6
Tumor			
Rigid	3±0.7	3.5±0.8	3.8±0.7
Non-rigid	3.4±0.6	3.5±0.9	3.3±0.7
p-value	0.01	0.9	*<0.005

* Note better fusion alignment in the rigid mid-breath-hold group