



Figure S1 Picture of the Edge™ LINAC, which is equipped with kV and MV imagers and a 6DOF PerfectPitch™ couch. The coordinate system used in this study is shown. All arrows point in the positive directions in 6DOF. MV, mega-voltage image; kV, kilo-voltage; EPID, electronic portal imaging device; LINAC, linear accelerator; 6DOF, six degrees of freedom.

Table S1 The available cone-beam CT scanning range and gantry angle for kV/MV image pairs acquisition corresponding to couch angle

Couch angle (°)	CBCT scanning range (°)	Arc length (°)	Gantry angle for kV/MV image pairs acquisition (°)
0	180–340	200	181
350	180–340	200	180
340	180–340	200	180
330	180–340	200	180
320	131–306	185	0
315	132–305	187	0
10	180–340	200	181
20	181–21	200	181
30	181–21	200	181
40	181–337	156	181
45	181–336	155	181

CT, computed tomography; kV/MV, kilo-voltage/mega-voltage image; CBCT, cone-beam computed tomography.