

Supplemental materials

Table S1. Radiography Imaging Equipment used in Institution 2

	Examination room1	Examination room2	Examination room3
X-ray generator	BENEO FUJIFILM Medical Corporation	RAD speed Pro SHIMADZU Corporation	Radnext 80 FUJIFILM Healthcare Corporation
X-ray detector (scintillator)	BENEO(a-Se) FUJIFILM Medical Corporation	CALNEO MT(GOS) FUJIFILM Medical Corporation	CALNEO C 1717 wireless SQ (CsI) FUJIFILM Medical Corporation
Scattered Radiation Correction	Real Grid	Real Grid	Real Grid
Grid ratio	10:1 Mitaya Corporation	8:1 Mitaya Corporation	8:1 Mitaya Corporation

Table S2. MRI imaging Equipment and Magnetic Field Strength used in Institution 2

	Examination room1	Examination room2	Examination room3	Examination room4	Examination room5
MRI system	MAGNETOM Avanto SIEMENS Healthcare	Discovery MR750w 3.0T GE Healthcare	TRILLIUM OVAL FUJIFILM Healthcare	Achieva dStream Philips Healthcare	Ingenia Elition 3.0T Philips Healthcare
Magnetic field strength (T)	1.5	3.0	3.0	1.5	3.0

Table S3. Details of the Image Enhancement Process by the ImageAugmentation Layer on NNC.

	Parameter Range	
	Min	Max
Image scaling	0.8	1.05
Image rotation	-20°	+20°
Brightness change	-0.2	+0.2
Contrast change	1/1.5	1.5