Appendix A: Level of use of Artificial Intelligence/Deep Learning Radiology

Level of use of AI/DL Radiology					
LoU0	I have no experience in AI/DL Radiology ; I have no significant knowledge about it and I am doing nothing towards becoming involved in it				
LoU1	I have acquired or am acquiring information about AI/DL Radiology ; I am exploring its value and its demands upon physicians and health institutions				
LoU2	I think I am ready for AI/DL Radiology implementation and am preparing for my first use				
LoU3	I have already made my first steps in AI/DL Radiology ; I am using it superficially or whenever I need it				
LoU4a	I am using AI/DL Radiology in my routine practice but I have no idea about its impact on my patients or the quality of care				
LoU4b	I am using AI/DL Radiology and attempting to optimize my use to meet my patients' needs and or improve my clinical practice				
LoU5	I am using AI/DL Radiology and coordinating my efforts with other colleagues and health professionals for best effect on patient care				
LoU6	I am using AI/DL Radiology and I think there are some necessary modifications to the system to achieve increased impact of patients; Or, I am using AI/DL Radiology and I think its scope should be expanded to new goals				

Appendix B: Opinions about the opportunities of artificial intelligence in radiology

To what extent do you think Artificial intelligence, Machine learning, and Deep learning can or will impact the following steps of standard radiology workflow? 3 o Moderate 2 o Small impact 1 o No impact 4 o Large impact 5 o Drastic impact impact Enhance clinical decision for imaging exam ordering by 01 5 0 1 0 2 0 3 0 4 0 analyzing patient's electronic medical record (EMR) Optimize scheduling for patients and resources 1 0 2 0 02 3 0 4 0 5 0 03 Enable automated protocol selection 1 0 2 0 3 0 4 0 5 0 Enhance image acquisition by improving image quality 04 1 0 2 0 5 0 3 0 4 0 with less time and radiation 05 Enable automated finding detection 1 0 2 0 3 0 4 0 5 0 Enable automated diagnosis generation and differential 06 1 0 2 0 3 0 4 0 5 0 diagnosis augmentation 07 Expedite abnormal image interpretation 1 0 2 0 3 0 4 0 5 0 Enhance structured reporting 80 1 0 2 0 3 0 4 0 5 0 Enhance communication of findings and guidance 09 1 0 2 0 3 0 4 0 5 0 through EMR 10 Optimize billing 1 0 2 0 3 0 4 0 5 0

Appendix C: Attitudes regarding AI Radiology impact on the Radiologist Profession

How would the implementation of Al radiology impact each of the following aspects of the radiologist profession?											
(-2)		(-1)	(0)	(+1)		(+2	2)				
Very negative impact		Negative impact Mixed opinion, or Posi no impact		Positive impact		t Very positive impact					
01	Medical Imc	iging Ethics	-2 0	-1 0	0 0	+1 0	+2 0				
02	Medical liab	ility of radiologists	-2 0	-1 0	0 0	+1 0	+2 0				
03	Quality of im	nage acquisition	-2 0	-1 0	0 0	+1 0	+2 0				
04	Accuracy of	image interpretation	-2 0	-1 0	0 0	+1 0	+2 0				
05	Wait times a	nd appointment delay	ys -2 ∘	-1 0	0 0	+1 0	+2 0				
06	Work load in	radiology	-2 0	-1 0	0 0	+1 0	+2 0				
07	Radiologist's	role in society	-2 0	-1 0	0 0	+1 0	+2 0				
80	Radiologist's	income	-2 0	-1 0	0 0	+1 0	+2 0				
09	Radiologist's	training and skills	-2 0	-1 0	0 0	+1 0	+2 0				
10	Radiologist's	iob satisfaction	-2 0	-1 0	0 0	+1 0	+2 0				

Appendix D: Perceived ease of use (PEoU) and behavioral intention (BI) of AI radiology use in routine practice

Please rate your level of agreement to the following statements:										
	1 2	3	4			5				
Extreme	y disagree Disagree	l do not know	Agree		Extremely agree					
PEoU1	Understanding the principles of AI R for me	Radiology would	be easy 1 o	2 0	3 0	4 0	5 0			
PEoU2	Learning to operate Al Radiology w	ould be easy for	me							
PEoU3	I would find it easy to do all what I r practice using AI Radiology	need to do in my	1 0	2 0	3 0	4 0	5 0			
BI1	Assuming I have access to the syste Radiology	em, I intend to use	AI 10	2 0	3 0	4 0	5 0			
BI2	To the extent possible, I intend to us dimensions of my radiology practic		gy in all 1 o	2 0	3 0	4 0	5 0			
BI3	I intend to encourage my colleagu	es to use Al Radi	ology 1 o	2 0	3 0	4 0	5 0			