## On-line Table: Inter-reader agreement

Variable	Reader <sup>a</sup>				Agreement		
	Reader 1	Reader 2	P Value <sup>b</sup>	κ <sup>c</sup>	(95% CI)	Agree <sup>d</sup>	
Based on group B images							
Overall image T2WIs							
Overall image-quality grade	$3.7\pm0.8$	$4.2\pm0.5$	.011	0.09	(-0.10-0.28)	68%	
Fat-saturation grade							
Maxillary region	$4.8\pm0.4$	$4.5\pm0.6$	.008	0.07	(-0.17-0.30)	94%	
Mandibular region	$4.6 \pm 0.6$	$4.3\pm0.6$	.041	0.05	(-0.19-0.30)	87%	
Lower neck region	$4.7\pm0.5$	$4.6\pm0.6$	.81	0.14	(-0.16-0.44)	94%	
Post-Gad TIWIs							
Overall image-quality grade	3.7 ± 0.7	4.3 ± 0.6	.003	0.06	(-0.13-0.24)	65%	
Fat-saturation grade							
Maxillary region	$5.0 \pm 0.0$	4.6 ± 0.6	.003	_	_	97%	
Mandibular region	4.9 ± 0.2	$4.5 \pm 0.5$	.001	0.15	(-0.05-0.35)	100%	
Lower neck region	5.0 ± 0.2	4.6 ± 0.6	.005	0.12	(-0.10-0.33)	97%	
Based on group A images					,		
STIR images							
Overall image-quality grade	3.4 ± 0.7	$3.8 \pm 0.8$	.007	0.23	(-0.06-0.53)	52%	
Fat-saturation grade					,		
Maxillary region	$4.2 \pm 0.6$	$4.4 \pm 0.7$	.14	0.25	(-0.01-0.51)	91%	
Mandibular region	4.1 ± 0.7	$4.0 \pm 0.8$	.51	0.30	(0.05–0.56)	82%	
Lower neck region	4.3 ± 0.6	4.3 ± 0.6	.86	-0.07	(-0.33-0.19)	84%	
Post-Gad TIWIs							
Overall image-quality grade	$2.8 \pm 0.8$	$2.3 \pm 0.5$	.001	0.18	(-0.03-0.39)	39%	
Fat-saturation grade					· · · · ·		
Maxillary region	$4.2 \pm 0.8$	3.4 ± 0.8	<.001	0.25	(0.06–0.43)	52%	
Mandibular region	$3.2 \pm 0.7$	$2.4 \pm 0.5$	<.001	0.10	(0.00-0.20)	25%	
Lower neck region	$1.5 \pm 0.8$	$1.4 \pm 0.6$	.53	0.58	(0.39–0.77)	87%	

 $^{\rm a}$  Values are mean  $\pm$  SD or No. (%). All quality grades are on a 1–5 scale, with 5 being the best quality.

<sup>b</sup> Wilcoxon signed rank test for an average difference between the readers.

 $^{c}$  Cohen weighted  $\kappa$  (linear weights) for quality grades and Cohen unweighted  $\kappa$  for susceptibility artifacts.

<sup>d</sup> Percentage of subjects on which both readers agree, after grouping the 5-point scale as 1–2, 3, and 4–5.