

**Supplementary Material Table S1.** Distribution of criterion A, B, and C by radiographic and CT images between rounds R1 and R2.

Evaluator	Variable	Criteria (A, B, and C)	R1		R2		Agreement (%)	Kappa	p-value
			n	%	n	%			
SHOULDER 1	X-ray C1	P	1	5.0	2	10.0	70.0	0.46	0.009
		A	9	45.0	6	30.0			
		I	10	50.0	12	60.0			
	X-ray C2	P	13	65.0	8	40.0	75.0	0.61	<0.0001
		A	4	20.0	6	30.0			
		I	3	15.0	6	30.0			
	X-ray C3	P	0	0.0	0	0.0	70.0	0.08	0.72
		A	15	75.0	17	85.0			
		I	5	25.0	3	15.0			
	CT C1	P	3	15.0	5	25.0	55.0	0.18	0.26
		A	14	70.0	11	55.0			
		I	3	15.0	4	20.0			
	CT C2	P	11	55.0	10	50.0	70.0	0.48	0.004
		A	6	30.0	9	45.0			
		I	3	15.0	1	5.0			
	CT C3	P	1	5.0	1	5.0	90.0	“-0.05”	0.81
		A	19	95.0	19	95.0			
		I	0	0.0	0	0.0			
SHOULDER 2	X-ray C1	P	6	30.0	8	40.0	80.0	0.65	0.0002
		A	11	55.0	11	55.0			
		I	3	15.0	1	5.0			
	X-ray C2	P	9	45.0	10	50.0	80.0	0.63	0.001
		A	10	50.0	9	45.0			
		I	1	5.0	1	5.0			
	X-ray C3	P	4	20.0	2	10.0	65.0	0.36	0.025
		A	11	55.0	14	70.0			
		I	5	25.0	4	20.0			
	CT C1	P	5	25.0	7	35.0	80.0	0.53	0.014
		A	15	75.0	13	65.0			
		I	0	0.0	0	0.0			
	CT C2	P	10	50.0	10	50.0	80.0	0.60	0.007
		A	10	50.0	10	50.0			
		I	0	0.0	0	0.0			
	CT C3	P	3	15.0	5	25.0	80.0	0.38	0.070
		A	17	85.0	15	75.0			
		I	0	0.0	0	0.0			
	X-ray C1	P	4	20.0	15	75.0	35.0	0.11	0.31
		A	11	55.0	4	20.0			
		I	5	25.0	1	5.0			
		P	13	65.0	15	75.0			

SHOULDER 3	X-ray C2	A	7	35.0	5	25.0	80.0	0.53	0.014
		I	0	0.0	0	0.0			
		P	1	5.0	2	10.0			
	X-ray C3	A	18	90.0	17	85.0	80.0	0.12	0.47
		I	1	5.0	1	5.0			
		P	11	55.0	13	65.0			
	CT C1	A	9	45.0	7	35.0	80.0	0.59	0.007
		I	0	0.0	0	0.0			
		P	13	65.0	18	90.0			
	CT C2	A	7	35.0	2	10.0	75.0	0.34	0.042
		I	0	0.0	0	0.0			
		P	1	5.0	1	5.0			
	CT C3	A	19	95.0	19	95.0	100.0	1.0	<0.0001
		I	0	0.0	0	0.0			
SHOULDER 4	X-ray C1	P	2	10.0	18	90.0			
		A	18	90.0	2	10.0	0.0	"-0.22"	1
		I	0	0.0	0	0.0			
		P	3	15.0	15	75.0			
	X-ray C2	A	17	85.0	5	25.0	10.0	"-0.33"	1
		I	0	0.0	0	0.0			
		P	2	10.0	0	0.0	75.0	n/a	n/a
	X-ray C3	A	15	75.0	20	100			
		I	3	15.0	0	0.0			
		P	2	10.0	18	90.0			
	CT C1	A	18	90.0	2	10.0	0.0	"-0.22"	1
		I	0	0.0	0	0.0			
		P	3	15.0	16	80.0			
	CT C2	A	17	85.0	4	20.0	15.0	"-0.20"	1
		I	0	0.0	0	0.0			
		P	3	15.0	4	20.0	75.0	0.14	0.53
	CT C3	A	17	85.0	16	80.0			
		I	0	0.0	0	0.0			
	X-ray C1	P	10	50.0	13	65.0			
		A	7	35.0	5	25.0	65.0	0.39	0.019
		I	3	15.0	2	10.0			
		P	15	75.0	15	75.0			
	X-ray C2	A	2	10.0	3	15.0	80.0	0.51	0.002
		I	3	15.0	2	10.0			
		P	1	5.0	1	5.0			
	X-ray C3	A	16	80.0	17	85.0	90.0	0.67	0.0001
		I	3	15.0	2	10.0			
		P	13	65.0	13	65.0			
	CT C1	A	3	15.0	5	25.0	70.0	0.42	0.008
		I	4	20.0	2	10.0			
		P	12	60.0	16	80.0			
	CT C2	A	4	20.0	2	10.0	80.0	0.58	0.0001
		I	4	20.0	2	10.0			
		P	2	10.0	1	5.0			
	CT C3	A	14	70.0	17	85.0	85.0	0.61	0.0001

TRAUMA 1		I	4	20.0	2	10.0			
TRAUMA 2	X-ray C1	P	12	60.0	1	5.0	35.0	“-0.10”	0.21
		A	8	40.0	19	95.0			
		I	0	0.0	0	0.0			
	X-ray C2	P	11	55.0	15	75.0	80.0	0.58	0.004
		A	9	45.0	5	25.0			
		I	0	0.0	0	0.0			
	X-ray C3	P	4	20.0	5	25.0	85.0	0.57	0.009
		A	16	80.0	15	75.0			
		I	0	0.0	0	0.0			
	CT C1	P	12	60.0	1	5.0	35.0	“-0.10”	0.21
		A	8	40.0	19	95.0			
		I	0	0.0	0	0.0			
	CT C2	P	11	55.0	15	75.0	80.0	0.58	0.004
		A	9	45.0	5	25.0			
		I	0	0.0	0	0.0			
	CT C3	P	3	15.0	7	35.0	80.0	0.49	0.010
		A	17	85.0	13	65.0			
		I	0	0.0	0	0.0			
TRAUMA 3	X-ray C1	P	15	75.0	14	70.0	80.0	0.53	0.002
		A	3	15.0	6	30.0			
		I	2	10.0	0	0.0			
	X-ray C2	P	16	80.0	15	75.0	90.0	0.72	0.0001
		A	3	15.0	5	25.0			
		I	1	5.0	0	0.0			
	X-ray C3	P	1	5.0	1	5.0	85.0	0.59	0.001
		A	16	80.0	15	75.0			
		I	3	15.0	4	20.0			
	CT C1	P	15	75.0	12	60.0	50.0	“-0.06”	0.73
		A	4	20.0	8	40.0			
		I	1	5.0	0	0.0			
	CT C2	P	16	80.0	15	75.0	85.0	0.57	0.010
		A	4	20.0	5	25.0			
		I	0	0.0	0	0.0			
	CT C3	P	2	10.0	1	5.0	80.0	0.26	0.10
		A	16	80.0	18	90.0			
		I	2	10.0	1	5.0			
TRAUMA	X-ray C1	P	3	15.0	5	25.0	65.0	0.38	0.017
		A	13	65.0	11	55.0			
		I	4	20.0	4	20.0			
	X-ray C2	P	13	65.0	13	65.0	75.0	0.50	0.006
		A	6	30.0	5	25.0			
		I	1	5.0	2	10.0			
	X-ray C3	P	3	15.0	6	30.0	40.0	0.09	0.53
		A	9	45.0	5	25.0			
		I	8	40.0	9	45.0			
	CT C1	P	7	35.0	10	50.0	85.0	0.70	0.001
		A	13	65.0	10	50.0			
		I	0	0.0	0	0.0			
							80.0	0.56	0.012

4	CT C2	P	13	65.0	13	65.0	85.0	0.63	<b>0.004</b>
		A	7	35.0	7	35.0			
		I	0	0.0	0	0.0			
	CT C3	P	5	25.0	6	30.0			
		A	15	75.0	14	70.0			
		I	0	0.0	0	0.0			

Source: SOT-Nova, HMMC, 2022.

Legends: R1 – round 1; R2 – round 2; % – percentage; n – number of responses; X-ray – radiography; CT – computed tomography; C1 – criterion A; C2 – criterion B; C3 – criterion C; P – present; A – absent; I – inconclusive; n/a – not applicable.