

Supplemental data table 1. Models of the scanners used in this study and the effect of scanner model on algorithm performance.

Scanner model	Count	%	Aidoc incorrect	%	<i>p</i> -value
Total	1904	100	161	100	0.82
GE Revolution HD	1131	59	101	63	
GE Revolution Evo	256	13	23	14	
GE Revolution Frontier	173	9	14	9	
GE Discovery CT750	148	8	9	6	
GE Optima CT660	122	6	10	6	
GE Revolution CT	48	3	2	1	
GE Optima CT580	16	1	1	1	
GE Lightspeed VCT	6	0	0	0	
GE Discovery STE	4	0	1	1	

Supplemental data table 2. Fracture characteristics and Aidoc performance.

Factor	All fractures					Acute fractures				
	Count	%	Aidoc incorrect	%	<i>P</i> value ¹	Count	%	Aidoc incorrect	%	<i>P</i> value ²
Chronicity	122		55		0.002			17		
Acute	63	52	17	31				17	100	
Non-acute	58	48	38	70						
Chronic	51									
Indeterminate	7									
Mixed	1									
Number of fractures	122		55		0.99	63		17		0.73
Single	91	75	41	75		42.0	67	12	71	
Multiple	31	25	14	25		21.0	67	5	29	
Vertebrae	164		76		0.24	63		26		0.21
C1	14	9	6	8		8	13	3	12	
C2	32	20	7	9		20	32	2	8	
C3	12	7	5	7		3	5	2	8	
C4	22	13	10	13		5	8	2	8	
C5	22	13	16	21		6	10	4	15	
C6	26	16	14	18		7	11	4	15	
C7	36	22	18	24		14	22	9	35	
Fracture location	164		76		0.002	63		17		0.12
Osteophyte	35	21	26	34		1	2	1	6	
Vertebral body	24	15	19	25		3	5	0	0	
Transverse process	15	9	9	12		7	11	3	18	
Articular process	14	9	4	5		7	11	1	6	
Dens	14	9	0	0		10	16	0	0	
Spinous process	9	5	1	1		4	6	1	6	
Lateral mass	4	2	2	3		2	3	1	6	
Posterior arch	4	2	2	3		2	3	0	0	
Lamina	3	2	0	0		1	2	0	0	
Transverse foramen	3	2	3	4		3	5	3	18	
Anterior arch	2	1	2	3		2	3	2	12	
Pedicel	1	1	0	0		0	0	0	0	
Multiple structures	36	22	8	11		21	33	5	29	
Transverse foramen	8	5	3	4		14	22	2	12	
No transverse foramen	28	17	5	7		7	11	3	18	

1: Chi-squared test comparing Aidoc false negatives to all fractures.

2: Chi-squared test comparing Aidoc acute fracture false negatives to all acute fractures.