

SUPPLEMENTARY MATERIAL

Table S1 - Complete imaging dataset demographics
Demographic characteristics for all cases (both normal and abnormal) by body part and NHS trust (n = 500).
KCH – King’s College Hospital NHS Foundation Trust; SGH – St. George’s University Hospitals NHS Foundation Trust

	Laterality		Gender		Total Cases	Age Range (years)	Median Age (years)	Average Age (years)
	R	L	M	F				
Wrist								
KCH	26	33	24	35	59	2 – 15	11	10
SGH	32	34	40	26	66	4 – 16	11	12
Combined Wrist	58	67	64	61	125	2 – 16	11	11
Elbow								
KCH	26	31	26	31	57	2 – 14	7	7
SGH	35	33	37	31	68	2 – 14	8	8
Combined Elbow	61	64	63	62	125	2 – 14	8	8
Knee								
KCH	34	26	29	31	60	2 – 15	10	10
SGH	34	31	37	28	65	3 – 16	11	11
Combined Knee	68	57	66	59	125	2 – 17	11	10
Ankle								
KCH	25	27	27	27	52	3 – 14	10	10
SGH	39	34	36	36	73	3 – 16	10	10
Combined Ankle	64	61	63	63	125	3 – 16	10	10
TOTAL CASES	244 (48.8%)	257 (51.4%)	256 (51.2%)	245 (49.0%)	500 (100%)	2 – 17	10	10

Table S2 - Abnormal imaging dataset demographics
Demographic characteristics for abnormal radiographic examinations, separated by body part and NHS trust (n = 181).
KCH – King’s College Hospital NHS Foundation Trust; SGH – St. George’s University Hospitals NHS Foundation Trust

	Laterality		Gender		Total Examinations	Age Range (years)	Median Age (years)	Average Age (years)
	R	L	M	F				
Wrist								
KCH	12	13	11	14	25	3 – 15	10	10
SGH	11	9	14	6	20	8 – 16	12	12
Combined Wrist	23	22	25	20	45	3 – 16	11	11
Elbow								
KCH	11	12	12	11	23	3 – 14	5	6
SGH	14	9	13	10	23	3 – 14	6	6
Combined Elbow	25	21	25	21	46	3 – 14	6	6
Knee								
KCH	13	9	9	13	22	3 – 15	10	9
SGH	12	12	18	6	24	3 – 16	11	11
Combined Knee	25	21	27	19	46	3 - 17	10	10
Ankle								
KCH	6	8	6	8	14	3 – 13	10	9
SGH	17	13	14	16	30	3 – 16	10	9
Combined Ankle	23	21	20	24	44	3 – 16	10	9
TOTAL CASES	96 (53.0%)	85 (47.0%)	97 (53.5%)	84 (46.4%)	181 (100%)	3 - 17	9	9

Table S3 - Abnormal imaging dataset pathologies
Abnormal fracture pathologies in our imaging dataset by fracture type and body part (n, %).

	Buckle	Bowing	Salter Harris 1	Salter Harris 2	Salter Harris 3	Salter Harris 4	Greenstick	Avulsion	Transverse	Spiral	Supracondylar	Epiphyseal	Vertical	TOTAL
WRIST														
Distal radius	25	1	1	8	1	0	3	0	2	0	0	0	0	41 (22.4)
Distal ulna	0	0	0	0	0	0	0	0	3	0	0	0	0	3 (1.6)
Metacarpus	0	0	0	0	0	0	0	0	2	0	0	0	0	2 (1.1)
ELBOW														
Proximal radius	1	0	0	4	0	0	0	1	6	0	0	0	0	12 (6.6)
Proximal ulna	0	0	0	0	0	0	0	0	5	0	0	0	0	5 (2.7)
Distal humerus	0	0	0	0	0	0	0	2	1	0	26	0	0	29 (15.8)
KNEE														
Distal femur	2	0	0	3	1	0	0	1	2	0	0	0	0	9 (4.9)
Proximal tibia	6	0	0	5	0	1	0	8	0	0	0	0	0	23 (12.6)
Proximal fibula	0	0	0	0	0	0	0	0	1	0	0	0	0	2 (1.1)
Patella	0	0	0	0	0	0	0	6	6	0	0	0	1	13 (7.1)
ANKLE														
Talus	0	0	0	0	0	0	0	1	0	0	0	0	0	1 (0.5)
Distal fibula	5	0	1	12	0	0	0	2	0	0	0	0	0	26 (14.2)
Distal tibia	0	0	0	9	2	1	0	0	0	5	0	0	0	17 (9.3)
TOTAL CASES	39 (21.3)	1 (0.5)	2 (1.1)	41 (22.4)	4 (2.2)	2 (1.1)	3 (1.6)	21 (11.5)	28 (15.3)	5 (2.7)	26 (14.2%)	10 (5.5)	1 (0.5)	183

Table S4 - Normal imaging dataset demographics
Imaging dataset – demographic characteristics for normal cases by body part and NHS trust (n = 319)
KCH – King’s College Hospital NHS Foundation Trust; SGH – St. George’s University Hospitals NHS Foundation Trust

	Laterality		Sex		Total Cases	Age Range (years)	Median Age (years)	Average Age (years)
	R	L	M	F				
Wrist								
KCH	14	20	13	21	34	2-15	11	10
SGH	21	25	26	20	46	4-16	10	11
Combined Wrist	35	45	39	41	80	2-16	11	11
Elbow								
KCH	15	19	14	20	34	2-13	8	8
SGH	21	24	24	21	45	2-14	10	9
Combined Elbow	36	43	38	41	79	2-14	9	9
Knee								
KCH	17	21	20	18	38	2-15	10	10
SGH	19	22	19	22	41	3-16	11	10
Combined Knee	36	43	39	40	79	2-16	11	10
Ankle								
KCH	19	19	19	19	38	4-14	10	10
SGH	22	21	23	20	43	3-16	10	10
Combined Ankle	41	40	42	39	81	3-16	10	10
TOTAL CASES	148 (46.4%)	171 (53.9%)	158 (49.8%)	161 (50.5%)	319 (100%)	2 - 16	10	10