

Radiography				Value	95% CI	Agreement (Fleiss kappa)	value	95% CI	
	axSpA	no axSpA	Total	Sensitivity	0.663	0.560-0.753	Overall assessment	0.517	0.428-0.605
XR+	59	24	83	Specificity	0.676	0.563-0.771	Structural lesions	0.516	0.427-0.606
XR-	30	50	80	PPV	0.711	0.606-0.797	mNYC positivity	0.432	0.343-0.520
Total	89	74	163	NPV	0.625	0.516-0.723	ASAS MRI positivity	-	-
Computed tomography									
	axSpA	no axSpA	Total	Sensitivity	0.764	0.666-0.840	Overall assessment	0.875	0.786-0.964
CT+	68	2	70	Specificity	0.973	0.907-0.995	Structural lesions	0.866	0.778-0.955
CT-	21	72	93	PPV	0.971	0.902-0.995	mNYC positivity	0.796	0.707-0.884
Total	89	74	163	NPV	0.774	0.679-0.847	ASAS MRI positivity	-	-
Magnetic resonance imaging									
	axSpA	no axSpA	Total	Sensitivity	0.820	0.728-0.886	Overall assessment	0.665	0.576-0.753
MR+	73	10	83	Specificity	0.865	0.769-0.925	Structural lesions	0.695	0.606-0.784
MR-	16	64	80	PPV	0.880	0.793-0.933	mNYC positivity	0.617	0.529-0.706
Total	89	74	163	NPV	0.800	0.700-0.873	ASAS MRI positivity	0.290	0.201-0.380
Radiography and magnetic resonance imaging									
	axSpA	no axSpA	Total	Sensitivity	0.775	0.678-0.850	Overall assessment	0.662	0.573-0.751
XR+MR+	69	9	78	Specificity	0.878	0.785-0.935	Structural lesions	0.668	0.579-0.757
XR+MR-	20	65	85	PPV	0.885	0.795-0.938	mNYC positivity	0.437	0.348-0.526
Total	89	74	163	NPV	0.765	0.664-0.842	ASAS MRI positivity	0.420	0.330-0.509
Computed tomography and magnetic resonance imaging									
	axSpA	no axSpA	Total	Sensitivity	0.753	0.654-0.831	Overall assessment	0.732	0.643-0.821
CT+MR+	67	2	69	Specificity	0.973	0.907-0.995	Structural lesions	0.839	0.749-0.928
CT+MR-	22	72	94	PPV	0.971	0.900-0.995	mNYC positivity	0.799	0.710-0.887
Total	89	74	163	NPV	0.766	0.671-0.840	ASAS MRI positivity	0.254	0.165-0.344

Supplement 3 – Detailed results of the diagnostic accuracy and interrater reliability analysis. XR: X-ray, CT: computed tomography, MR: magnetic resonance imaging.