

Parameter		TP	FP	TN	FN	SE (95% CI)	SP (95% CI)	PPV (95% CI)	NPV (95% CI)	LR+ (95% CI)	LR- (95% CI)	DOR
Ankylosis	F	10	3	89	126	0.07 (0.04 – 0.13)	0.97 (0.91 – 0.99)	0.77 (0.49 – 0.92)	0.41 (0.40 – 0.42)	2.3 (0.6 – 8.0)	1.0 (0.9 – 1.0)	2.4
	M	59	1	54	184	0.24 (0.19 – 0.30)	0.98 (0.90 – 1.00)	0.98 (0.89 – 1.00)	0.23 (0.21 – 0.24)	13.3 (1.9 – 94.3)	0.8 (0.7 – 0.8)	17.3
Erosion	F	95	21	71	41	0.70 (0.61 – 0.77)	0.77 (0.67 – 0.85)	0.82 (0.75 – 0.87)	0.63 (0.57 – 0.70)	3.1 (2.1 – 4.5)	0.4 (0.3 – 0.5)	7.8
	M	167	7	48	76	0.69 (0.62 – 0.75)	0.87 (0.76 – 0.95)	0.96 (0.92 – 0.98)	0.39 (0.34 – 0.44)	5.4 (2.7 – 10.8)	0.4 (0.3 – 0.4)	15.1
Sclerosis	F	102	52	40	34	0.75 (0.67 – 0.82)	0.44 (0.33 – 0.54)	0.66 (0.62 – 0.71)	0.54 (0.45 – 0.63)	1.3 (1.1 – 1.6)	0.6 (0.4 – 0.8)	2.3
	M	140	19	36	103	0.58 (0.51 – 0.64)	0.66 (0.51 – 0.78)	0.88 (0.83 – 0.92)	0.26 (0.22 – 0.31)	1.7 (1.1 – 2.4)	0.6 (0.5 – 0.8)	2.6
Fat metaplasia	F	58	12	80	78	0.43 (0.34 – 0.51)	0.87 (0.78 – 0.93)	0.83 (0.73 – 0.89)	0.51 (0.47 – 0.55)	3.3 (1.9 – 5.7)	0.7 (0.6 – 0.8)	5.0
	M	143	2	52	100	0.59 (0.52 – 0.65)	0.96 (0.87 – 1.00)	0.99 (0.95 – 1.00)	0.35 (0.31 – 0.38)	16.2 (4.1 – 62.2)	0.4 (0.4 – 0.5)	37.9
Bone marrow oedema	F	84	27	65	52	0.62 (0.53 – 0.70)	0.71 (0.60 – 0.80)	0.76 (0.69 – 0.81)	0.56 (0.49 – 0.62)	2.1 (1.5 – 3.0)	0.5 (0.4 – 0.7)	3.9
	M	135	16	39	108	0.56 (0.49 – 0.62)	0.71 (0.57 – 0.82)	0.89 (0.85 – 0.93)	0.27 (0.22 – 0.31)	1.9 (1.3 – 2.9)	0.6 (0.5 – 0.8)	3.0
Erosion (middle and dorsal)	F	83	12	80	53	0.61 (0.52 – 0.69)	0.87 (0.78 – 0.93)	0.87 (0.80 – 0.92)	0.60 (0.55 – 0.65)	4.7 (2.7 – 8.1)	0.4 (0.4 – 0.6)	10.4
	M	155	6	49	88	0.64 (0.57 – 0.70)	0.89 (0.78 – 0.96)	0.96 (0.92 – 0.98)	0.36 (0.32 – 0.40)	5.8 (2.7 – 12.5)	0.4 (0.3 – 0.5)	14.4
Sclerosis (middle and dorsal)	F	85	35	57	51	0.63 (0.54 – 0.71)	0.62 (0.51 – 0.72)	0.71 (0.64 – 0.76)	0.53 (0.46 – 0.59)	1.6 (1.2 – 2.2)	0.6 (0.5 – 0.8)	2.7
	M	101	10	45	142	0.42 (0.35 – 0.48)	0.82 (0.69 – 0.91)	0.91 (0.85 – 0.95)	0.24 (0.21 – 0.27)	2.3 (1.3 – 4.1)	0.7 (0.6 – 0.8)	3.2
Fat metaplasia (middle and dorsal)	F	43	7	85	93	0.32 (0.24 – 0.40)	0.92 (0.85 – 0.97)	0.86 (0.74 – 0.93)	0.48 (0.45 – 0.51)	4.2 (2.0 – 8.8)	0.7 (0.7 – 0.8)	5.6
	M	131	2	53	112	0.54 (0.47 – 0.60)	0.96 (0.87 – 1.00)	0.99 (0.94 – 1.00)	0.32 (0.29 – 0.35)	14.8 (3.8 – 58.1)	0.5 (0.4 – 0.6)	31.0
Bone marrow oedema (middle and dorsal)	F	66	9	83	70	0.49 (0.40 – 0.57)	0.90 (0.82 – 0.95)	0.88 (0.79 – 0.93)	0.54 (0.50 – 0.59)	5.0 (2.6 – 9.5)	0.6 (0.5 – 0.7)	8.7
	M	114	9	46	129	0.47 (0.41 – 0.53)	0.84 (0.71 – 0.92)	0.93 (0.87 – 0.96)	0.26 (0.23 – 0.29)	2.9 (1.6 – 5.2)	0.6 (0.5 – 0.8)	4.5
Ankylosis and/or Erosion (middle and dorsal)	F	90	14	78	46	0.66 (0.58 – 0.74)	0.85 (0.76 – 0.91)	0.87 (0.80 – 0.91)	0.63 (0.57 – 0.69)	4.3 (2.7 – 7.3)	0.4 (0.3 – 0.5)	10.9
	M	189	6	49	54	0.78 (0.72 – 0.83)	0.89 (0.78 – 0.96)	0.97 (0.94 – 0.99)	0.48 (0.41 – 0.54)	7.1 (3.3 – 15.2)	0.2 (0.2 – 0.3)	28.6
Ankylosis and/or Sclerosis (middle and dorsal)	F	92	38	54	44	0.68 (0.59 – 0.75)	0.59 (0.48 – 0.69)	0.71 (0.65 – 0.76)	0.55 (0.48 – 0.62)	1.6 (1.3 – 2.2)	0.6 (0.4 – 0.7)	3.0
	M	150	10	45	93	0.62 (0.55 – 0.68)	0.82 (0.69 – 0.91)	0.94 (0.89 – 0.96)	0.33 (0.28 – 0.37)	3.4 (1.9 – 6.0)	0.5 (0.4 – 0.6)	7.3
Ankylosis and/or Fat metaplasia (middle and dorsal)	F	44	8	84	92	0.32 (0.25 – 0.41)	0.91 (0.84 – 0.96)	0.85 (0.73 – 0.92)	0.48 (0.44 – 0.51)	3.7 (1.8 – 7.5)	0.7 (0.7 – 0.9)	5.0
	M	143	2	53	100	0.59 (0.52 – 0.65)	0.96 (0.87 – 1.00)	0.99 (0.95 – 1.00)	0.35 (0.31 – 0.38)	16.2 (4.1 – 63.3)	0.4 (0.4 – 0.5)	37.9
Ankylosis and/or Bone marrow oedema (middle and dorsal)	F	73	11	81	63	0.54 (0.45 – 0.62)	0.88 (0.80 – 0.94)	0.87 (0.79 – 0.92)	0.56 (0.51 – 0.61)	4.5 (2.5 – 8.0)	0.5 (0.4 – 0.6)	8.5
	M	161	9	46	82	0.66 (0.60 – 0.72)	0.84 (0.71 – 0.92)	0.95 (0.91 – 0.97)	0.36 (0.31 – 0.41)	4.0 (2.2 – 7.4)	0.4 (0.3 – 0.5)	10.0
Ankylosis and/or Erosion (middle and dorsal) and/or Sclerosis (middle and dorsal)	F	108	40	52	28	0.79 (0.72 – 0.86)	0.57 (0.46 – 0.67)	0.73 (0.68 – 0.78)	0.65 (0.56 – 0.73)	1.8 (1.4 – 2.3)	0.4 (0.3 – 0.5)	5.0
	M	196	14	41	47	0.81 (0.75 – 0.85)	0.75 (0.61 – 0.85)	0.93 (0.90 – 0.96)	0.47 (0.39 – 0.54)	3.2 (2.0 – 5.0)	0.3 (0.2 – 0.4)	12.2
Ankylosis and/or Erosion (middle and dorsal) and/or Fat metaplasia (middle and dorsal)	F	90	16	76	46	0.66 (0.56 – 0.74)	0.83 (0.73 – 0.90)	0.85 (0.78 – 0.90)	0.62 (0.56 – 0.68)	3.8 (2.4 – 6.0)	0.4 (0.3 – 0.5)	9.3
	M	192	7	48	51	0.79 (0.73 – 0.84)	0.87 (0.76 – 0.95)	0.97 (0.93 – 0.98)	0.49 (0.42 – 0.55)	6.2 (3.1 – 12.4)	0.2 (0.2 – 0.3)	25.8
Ankylosis and/or Erosion (middle and dorsal) and/or Bone marrow edema (middle and dorsal)	F	102	19	73	34	0.75 (0.67 – 0.82)	0.79 (0.70 – 0.87)	0.84 (0.78 – 0.89)	0.68 (0.61 – 0.75)	3.6 (2.4 – 5.5)	0.3 (0.2 – 0.4)	11.5
	M	199	15	40	44	0.82 (0.76 – 0.87)	0.73 (0.59 – 0.84)	0.93 (0.90 – 0.95)	0.48 (0.40 – 0.55)	3.0 (1.9 – 4.6)	0.2 (0.2 – 0.3)	12.1
Ankylosis and/or Erosion (middle and dorsal) and/or Fat metaplasia (middle and dorsal) and/or Bone marrow oedema (middle and dorsal)	F	102	21	71	34	0.75 (0.67 – 0.82)	0.77 (0.67 – 0.85)	0.83 (0.77 – 0.88)	0.68 (0.60 – 0.74)	3.3 (2.2 – 4.8)	0.3 (0.2 – 0.4)	10.1
	M	202	16	39	41	0.83 (0.78 – 0.88)	0.71 (0.57 – 0.82)	0.93 (0.89 – 0.95)	0.49 (0.41 – 0.57)	2.9 (1.9 – 4.3)	0.2 (0.2 – 0.3)	12.0
Fat metaplasia (middle and dorsal) and/or Erosion (middle and dorsal) and/or Bone marrow oedema (middle and dorsal)	F	101	20	72	35	0.74 (0.66 – 0.81)	0.78 (0.68 – 0.86)	0.84 (0.77 – 0.88)	0.67 (0.60 – 0.74)	3.4 (2.3 – 5.1)	0.3 (0.2 – 0.5)	10.4
	M	196	16	39	47	0.81 (0.75 – 0.85)	0.71 (0.57 – 0.82)	0.93 (0.89 – 0.95)	0.45 (0.38 – 0.53)	2.8 (1.8 – 4.2)	0.3 (0.2 – 0.4)	10.2
Fat metaplasia and/or Erosion	F	100	27	65	36	0.74 (0.65 – 0.81)	0.71 (0.60 – 0.80)	0.79 (0.73 – 0.84)	0.64 (0.57 – 0.71)	2.5 (1.8 – 3.5)	0.4 (0.3 – 0.5)	6.7
	M	194	8	47	49	0.80 (0.74 – 0.85)	0.86 (0.73 – 0.94)	0.96 (0.93 – 0.98)	0.49 (0.42 – 0.56)	5.5 (2.9 – 10.4)	0.2 (0.2 – 0.3)	23.3
Fat metaplasia (middle and dorsal) and/or Erosion (middle and dorsal)	F	89	15	77	47	0.65 (0.57 – 0.73)	0.84 (0.75 – 0.91)	0.86 (0.79 – 0.91)	0.62 (0.56 – 0.68)	4.0 (2.5 – 6.5)	0.4 (0.3 – 0.5)	9.7
	M	186	7	48	57	0.77 (0.71 – 0.82)	0.87 (0.76 – 0.95)	0.96 (0.93 – 0.98)	0.46 (0.40 – 0.52)	6.0 (3.0 – 12.1)	0.3 (0.2 – 0.3)	22.4

**Supplement 1. Diagnostic performance.** TP=true positive. FP=false positive. TN=True negative. FN=false negative. LR+=positive likelihood ratio. SE=sensitivity. SP=specificity. PPV=positive predictive value. NPV=negative predictive value. LR-=negative likelihood ratio. DOR=diagnostic odds ratio (LR+ / LR-). 95% CI = 95% confidence interval.