Supplementary table 2. Summary of studies on the diagnosis of mimicking disease in RA patients

Studies	Study design	Study population (n)	Phase of RA	Disease duration of RA (median)	Diagnostic test Description	Cut-off (if applicable)	Reference standard	Time interval	Sensitivity, % (95% CI)	Specificity, % (95% Cl)	PPV, %	NPV, %	LR+	LR-	OR (95%Cl, p-value)	Risk of bias^1	Concerns regarding applicability^2
Ghib, 2018^	Case-control	RA with FM (n=10); RA without FM but with VAS-pain ≥50 (n=10)	Established RA, suspected of mimicking disease	NR	MicroRNA-143	>1.04	FM: NR	NR	90	70						H/H/U/H	L/L/U
Fan, 2016	Cross-sectiona	RA (n=279)	Established RA, suspected of mimicking disease	NR	Fibromyalgia Rapid Screening Tool (FiRST)	≥5/6	1990 ACR Fibromyalgia criteria Rheumatologist's opinion	Same time point	71.4 (41.9-91.6) 82.6 (61.2-95.0)	84.4 (79.4-88.6) 87.5 (82.7-91.3)	20.0 (10.0- 33.7) 38.0 (24.7- 52.8)	99.5)				L/H/L/U	L/L/L
Salaffi, 2018	Cross-sectiona	RA with FM (n=43); RA without FM (n=249)	Established RA, suspected of mimicking disease	8Y	Derived DAS28 patient-reported components (DAS28-P): calculated by rearranging the components of the DAS28-ESR into the following formula: (0.56×VTJC+0.014×GH)/DAS28)	0.6312	ACR 2010 Fibromyalgia criteria	NR	81.40 (66.6-91.6)	80.32 (74.8-85.1)			4.14 (3.5-4.8)	0.23 (0.1-0.5)		L/H/U/L	L/L/L
Sato, 2012	Cross-sectiona	I Flare of RA (n=18), non-infectious complications (n=23), non-bacterial infection (n=15), bacterial infection (n=62)		NR	Procalcitonin levels Procalcitonin levels WBC count CRP ESR Procalcitonin and WBC	≥0.5ng/ml ≥0.2ng/ml >8500/m3 ≥0.3 mg/dl >15mm/h ≥0.5ng/ml and >8500/mm3	Bacterial infection: symptoms, bacterial culture tests, imaging studies, and response to antibiotic therapy	Within period of hospital admission	25.8 33.9 66.1 69.8 98.1 21.0	98.2 89.3 58.9 5.4 8.9 98.2	94.1 77.8 64.1 53.1 56.4 92.9	54.5 54.9 61.1 60.0 80.0 52.9	14.33 3.17 1.61 0.03 0.02 11.67	1.32 1.35 1.74 1.69 4.68 1.24	19.13 (2.44-149.78,0.005) 4.27 (1.58-11.57,0.004) 2.80 (1.33-5.92,0.007) 1.70 (0.27-10.55,0.570) 5.17 (0.56-48.03,0.149) 14.59 (1.84-115.65,0.011)	L/L/L	L/L/L

AC American College of Rewmatology; Cl: confidence interval; CIP: Creative protein; DAS28: disease activity score assessing 28 joint; SR: enviroated activity; TC: tender joint count; U: Uncertain; WBC: White blood eli count; 'C: Conference interval; CIP: Creative protein; DAS28: disease activity score assessing 28 joint; SR: enviroated activity; TC: tender joint count; U: Uncertain; WBC: White blood eli count; 'C: Conference astrong: According to QUAS2- assessing domains: Patient selection/Index tests/J/Reference standard