Supplementary Table 1 Comparison of noninvasive biomarkers in clinical remission patients with and without evidence of inflammation at endoscopy

	Colonic or ileo-colonic CD		CD-related surgery		UC	
	Endoscopic active, n = 14	Endoscopic remission, n = 20	Endoscopic active, n = 7	Endoscopic remission, n = 12	Endoscopic active, n = 13	Endoscopic remission, n = 12
Fecal calprotectin (µg/g)						
Median	881.4[a]	134.8[a]	204.4	112.3	559.3[a]	45.3[a]
Range	137.7-2266.1	0-658.7	0-801.5	0.02-1805.0	74.9-2266.1	6.7-189.4
CRP (mg/L)						
Median	5.09[b]	0.56[b]	1.89	1.8	2.1[a]	0.39[a]
Range	0.20-27.38	0.10-12.88	0.10-16.38	0.13-19.23	0.26-15.76	0.04-2.10
ESR (mm/h)						
Median	22.0[b]	8.0[b]	10.0	8.9	9[b]	4.30[b]
Range	5.0-95.0	1.0-57.0	4.0-41.0	1.0-55.0	2.0-40.0	2.0-15.0
Procalcitonin (ng/mL)						
Median	0.038	0.037	0.023	0.012	0.03	0.03
Range	0-4.39	0-0.137	0-0.032	0-0.061	0.023-0.127	0-0.041

Identical letters indicate significant differences between endoscopic inactive and endoscopic remission of the three groups of clinical remission IBD patients (Mann-Whitney U-tests: [a]$P < 0.001$; [b]$P < 0.05$).
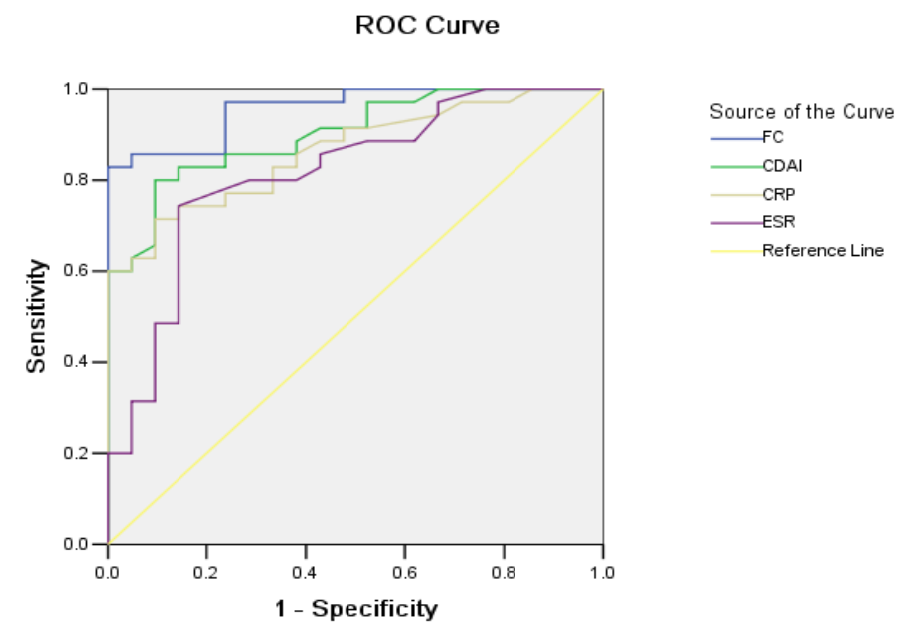
Supplementary Table 2 Correlations of non-invasive activity parameters with disease location

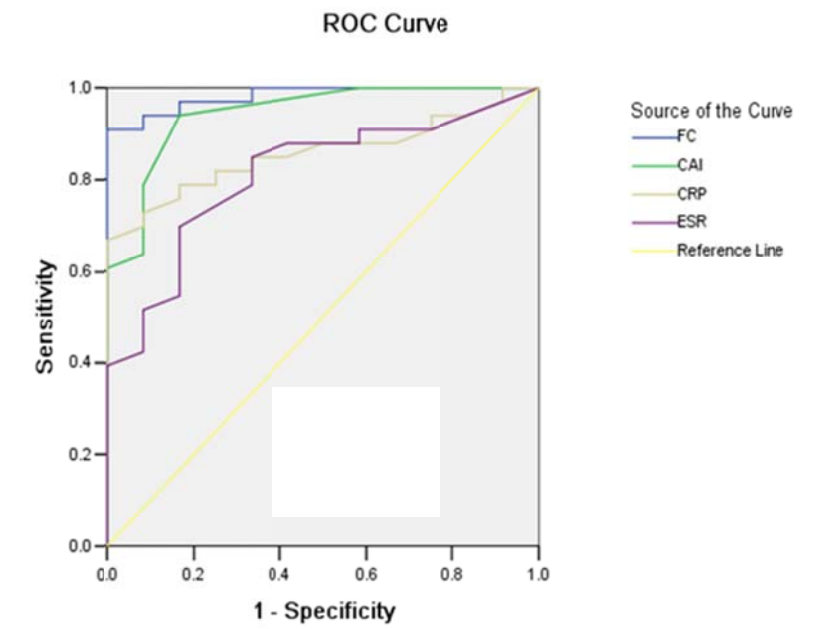|	FC (ug/g)	CDAI/CAI	CRP (mg/L)	ESR (mm/h)	PCT (ng/mL)
Ileum(L1)	285.4 (0-2266.1)	102.5(20.0-235.7)	2.13(1-123)	6.5(3.0-46.0)	0.024(0-0.221)
Colon (L2)	264.6 (9.03-1805.0)	100(42.4-192.8)	2.32(0.1-134.6)	10.0(5.0-95.0)	0.036(0.025-0.137)
Ileocolon (L3)	629.4 (0-2266.1)	114.3(32.2-364.0)	4.07(0.1-79.8)	20.0(1.0-123.0)	0.038(0-5.02)
P (L1/L2, L2/L3, L1/L3)	0.91/0.43/0.19	0.79/0.49/0.31	0.88/0.51/0.33	0.049/0.78/0.005	0.96/0.87/0.88
Rectum (E1)	190.0(18.4-1300.6)	2 (0-8)	0.54(0.04-5.30)	4.6 (2.0-15.0)	0.031(0-0.075)
Distal colitis (E2)	189.4(6.7-1805.0)	2 (0-15)	1.67(0.10-53.2)	9.0 (2.0-58.0)	0.029(0.023-0.085)
Extensive colitis (E3)	1271.9(505.4-2266.1)	6 (2-17)	6.44(0.63-65.40)	24.0 (2.0-100.0)	0.048(0.027-0.538)
P(E1/E2, E2/E3, E1/E3)	0.443/0.001/< 0.001	0.9/0.026/0.009	0.078/0.029/< 0.001	0.055/0.023/< 0.001	0.97/0.265/0.378

Supplementary Table 3 The coefficients of multiple linear regression models to construct CFA

Model	CICD patients		UC patients	
	Coefficients	Sig.	Coefficients	Sig.
Constant	-1.410		1.800	
FC	0.008	0.000	0.002	0.001
CDAI/CAI	0.046	0.001	0.501	0.002

A

ROC Curve

B

ROC Curve

Supplementary Figure 1 ROC curves for noninvasive markers levels in colonic or ileo-colonic CD patiens (A) and UC patients (B): endoscopic active *vs* endoscopic remission.