

Supplementary table S1. Patient characteristics at follow-up endoscopy.

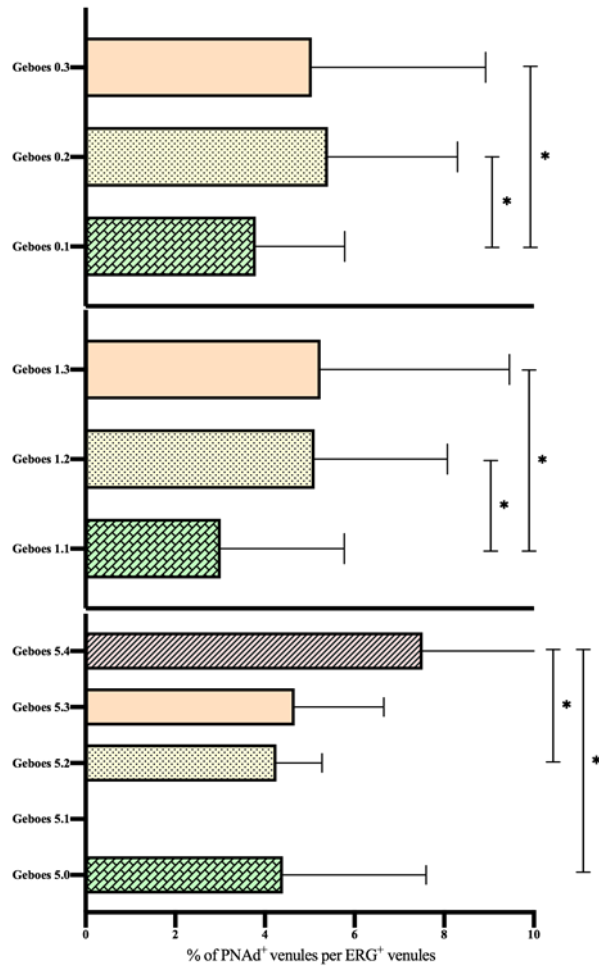
	All UC patients n=378	Non-inflamed UC at follow-up n=93	Inflamed UC at follow-up n= 285	P- value**
Clinical follow-up time in months	128 (85-165)	150 (106.5-169.5)	121 (82-159)	0.002
Time till first exacerbation in months				
- No exacerbation during follow-up, n (%)	25 (10.59%) 41 (10.8%)	48 (18-125) 28 (30.1%)	21 (9-49) 13 (4.6%)*	0.001
- Exacerbation, n (%)	337 (89.2%)	65 (69.9%)	272 (95.4%)	
Surgery during clinical follow-up	24 (6.3%)	2 (2.2%)	22 (7.7%)	0.06
Mayo endoscopic score				
- Mayo 0	93(24.6%)	93(100%)	-	0.001
- Mayo 1	107 (28.3%)	-	107 (37.5%)	
- Mayo 2	124 (32.8%)	-	124 (43.5%)	
- Mayo 3	54 (14.3%)	-	54 (18.9%)	
UC localization				
- Extent				
o E1: Ulcerative proctitis	86 (22.8%)	-	86 (30.2%)	0.001
o E2: Left-sided UC	130 (34.4%)	-	130 (45.6%)	
o E3: Extensive UC	69 (18.3%)	-	69 (24.3%)	
o Remission	93 (24.6%)	93 (100%)	-	
Histological inflammation				
Geboes score				
- ≥ 0.1 and < 3.1	151 (43%)	80 (86%)	71 (25%)	0.001
- ≥ 3.1	217 (57%)	13 (14%)	214 (75%)	
Treatment at follow-up endoscopy				
- None	100 (26.5%)	21 (22.6%)	79 (27.7%)	0.002
- 5-ASA	152 (40.2%)	44 (47.3%)	108 (37.9%)	
- Topical steroids	14 (3.7%)	1 (1.1%)	13 (4.6%)	
- Oral steroids	37 (9.8%)	1 (1.1%)	36 (12.6%)	
- Immunomodulators	40 (10.6%)	16 (17.2%)	24 (8.4%)	
- Anti-TNF	32 (8.5%)	10 (10.8%)	22 (7.7%)	
- Anti-integrins	3 (0.8%)	0 (0%)	3 (1.1%)	
- Surgery				
Highest treatment during follow-up				
- None	1(0.3%)	0 (0%)	1 (0.4%)	0.06
- 5-ASA	88 (22.7%)	25 (26.9%)	63 (22.1%)	
- Topical steroids	52 (13.4%)	8 (8.6%)	44 (15.4%)	
- Oral steroids	42 (10.8%)	11 (11.8%)	31 (10.9%)	
- Immunomodulators	101 (26%)	25 (26.9%)	76 (26.7%)	
- Anti-TNF	62 (16%)	22 (23.7%)	40 (14.0%)	
- Anti-integrins	9 (2.3%)	0 (0%)	9 (3.2%)	
- Surgery	23 (5.9%)	2 (2.2%)	21 (7.4%)	

Values expressed in n (%) or as median with interquartile range.

*Biopsies were taken during follow-up endoscopy in UC patients who did not reach remission after initial diagnosis. ** Non-inflamed UC compared to inflamed UC patients; HC, Healthy control; UC, ulcerative colitis.

Supplementary table 2. Univariable and multivariable analysis of potential variables correlating with the expression of PNAd⁺ and MAdCAM-1⁺ venules as a proportion of ERG⁺ venules in active disease at follow-up endoscopy (A+B).

A. <i>Follow-up PNAd</i>	<i>Univariable</i>			<i>Multivariable</i>	
	R ² (%)	β (SE)	p-value	β (SE)	p-value
Follow-up PA is the first exacerbation*	3.2	-0.18 (0.005)	0.08		NS
Disease location **	33.5	-0.58 (0.002)	0.001	-0.37 (0.002)	0.001
Histologic disease activity					
- Geboes 0	19.2	0.44 (0.004)	0.001		NS
- Geboes 1	21.7	0.47 (0.004)	0.001		NS
- Geboes 2A	19.1	0.44 (0.004)	0.001		NS
- Geboes 2B	27.4	0.52 (0.003)	0.001		NS
- Geboes 3	29.2	0.54 (0.005)	0.001		NS
- Geboes 4	32.0	0.57 (0.005)	0.001	0.33 (0.006)	0.003
- Geboes 5	17.8	0.42 (0.003)	0.001		NS
*Yes=1, no=2 ** Proctitis=1, left-sided=2, extensive=3 β=Regressioncoefficient, SE=Standard Error					
B. <i>Follow-up MAdCAM-1</i>	<i>Univariable</i>			<i>Multivariable</i>	
	R ² (%)	β (SE)	p-value	β (SE)	p-value
Follow-up PA is the first exacerbation*	5.6	-0.24 (0.012)	0.02		NS
Disease location**	0.1	-0.04 (0.006)	0.71	-	-
Histologic disease activity					
- Geboes 0	1.0	0.10 (0.011)	0.34	-	-
- Geboes 1	4.5	0.21 (0.01)	0.04	0.26 (0.01)	NS
- Geboes 2A	6.9	0.26 (0.01)	0.01		0.01
- Geboes 2B	5.3	0.23 (0.01)	0.02		NS
- Geboes 3	2.7	0.16 (0.013)	0.11		NS
- Geboes 4	1.7	0.13 (0.014)	0.20		NS
- Geboes 5	0.6	0.08 (0.009)	0.47	-	-
*Yes=1, no=2 ** Proctitis=1, left-sided=2, extensive=3 β=Regressioncoefficient, SE=Standard Error					



Supplementary Figure 1 . Grades 0 (Architectural changes), 1 (Chronic inflammatory infiltrate) and 5 (The presence of erosions and ulcerations) of the Geboes score for assessment of ulcerative colitis histological disease activity correlate with % of PNAd⁺ venules per ERG⁺ venules. There was no significant association between the Geboes Grades 2 (Eosinophils and neutrophils in the lamina propria),3 (Neutrophils in the epithelium) and 4 (Crypt destruction) and the proportion of PNAd⁺ venules (not shown in this figure). * p-value < 0.05. ERG, ETS related gene; PNAd, peripheral node addressin; UC, ulcerative coliti