

Table 1. A) Segment-specific and pancolonic intra- and interobserver agreement (kappa values) for the new simplified endoscopic score SES-UC. B) Segment-specific and pancolonic correlations between the new simplified endoscopic score SES-UC and the histological degree of inflammation, biochemical markers, symptom levels (SCCAI), and health-related quality-of-life (SHS)

A.

SES-UC [κ (95% CI)]	Cecum/Asc.	Transverse	Descending	Sigmoid	Rectum	Mean κ (SD)	Pancolonic [†] κ
Intraobserver agreement	0.83 (0.64-1.00)	0.76 (0.60-0.93)	0.84 (0.70-0.98)	0.68 (0.51-0.85)	0.78 (0.64-0.93)	0.78 (0.06)	0.77 (0.68-0.88)
Interobserver agreement	0.67 (0.40-0.88)	0.63 (0.45-0.80)	0.66 (0.50-0.83)	0.48 (0.30-0.68)	0.61 (0.46-0.77)	0.61 (0.08)	0.58 (0.44-0.72)

B.

Correlation analyses (SES-UC)	Cecum/Asc.		Transverse		Descending		Sigmoid		Rectum		Pancolonic [†]	
	r_s	p	r_s	p	r_s	p	r_s	p	r_s	p	r_s or r_p [§]	p
Histological inflammation	0.762	0.001	0.758	0.001	0.841	<0.001	0.871	<0.001	0.704	0.002	0.828	<0.0001
Plasma C-reactive protein	-	-	-	-	-	-	-	-	-	-	0.837	<0.001
Blood hemoglobin	-	-	-	-	-	-	-	-	-	-	-0.386	0.173
Fecal calprotectin	-	-	-	-	-	-	-	-	-	-	0.818	<0.001
Symptom Score (SCCAI)	0.148	0.663	0.188	0.580	0.169	0.620	0.547	0.081	0.589	0.056	0.510	0.109
SHS HR-QoL symptoms	0.047	0.884	0.172	0.593	0.314	0.320	0.674	0.016	0.603	0.038	0.539	0.070
SHS HR-QoL activity	0.287	0.366	0.179	0.578	0.392	0.208	0.617	0.032	0.490	0.106	0.543	0.068
SHS HR-QoL worry	0.294	0.353	0.460	0.133	0.575	0.050	0.773	0.003	0.508	0.092	0.697	0.012
SHS HR-QoL general well-being	0.460	0.132	0.329	0.297	0.548	0.065	0.726	0.007	0.449	0.143	0.733	0.007
SHS HR-QoL total score	0.287	0.366	0.263	0.409	0.473	0.121	0.755	0.005	0.554	0.062	0.676	0.016

C.

Correlation analyses (SES-UC)	SES-UC _{max}		[SES-UC _{max} x SES-UC _Σ]	
	r_s	p	r_s or r_p [§]	p
Histological inflammation (maximal)	0.82	<0.0001	0.77	<0.001
Histological inflammation (aggregate)	-	-	0.81	<0.0001
Plasma C-reactive protein	0.69	<0.001	0.78	<0.001
Blood hemoglobin	-0.26	0.346	-0.45	0.091
Fecal calprotectin	0.62	0.021	0.80	<0.001
Symptom Score (SCCAI)	0.42	0.196	0.42	0.193
SHS HR-QoL symptoms	0.50	0.098	0.56	0.061
SHS HR-QoL activity	0.42	0.178	0.50	0.100
SHS HR-QoL worry	0.63	0.033	0.75	0.006
SHS HR-QoL general well-being	0.46	0.135	0.63	0.031
SHS HR-QoL total score	0.52	0.085	0.65	0.026

Abbreviations: Asc, ascending; CI, confidence interval; HR-QoL, health-related quality-of-life; κ , kappa value of agreement; max, maximal; p , p-value; r_p , Pearson's correlation coefficient; r_s , Spearman's rank correlation coefficient; SCCAI, Simple Clinical Colitis Activity Index; SD, standard deviation; SES-UC, Simple Endoscopic Score for Ulcerative Colitis; SES-UC_Σ, total SES-UC; SHS, Short Health Scale.

[†]SES-UC_Σ; [§]depending on data characteristics and distribution.

Table 2. Comparison of performance between the SES-UC and the established indices (MES, UCEIS, and UCCIS).

	MES	UCEIS	UCCIS	SES-UC
Intraobserver agreement (κ)	0.71	0.78	0.87	0.77
Interobserver agreement (κ)	0.60	0.58	0.64	0.58
Histological inflammation (r)	0.79	0.83	0.84	0.83
Plasma C-reactive protein (r)	0.82	0.79	0.81	0.84
Blood hemoglobin (r)	ns	ns	ns	ns
Fecal calprotectin (r)	0.63	0.71	0.86	0.82
Symptom Score (SCCAI) (r)	ns	ns	ns	ns
SHS HR-QoL total score (r)	ns	ns	0.71	0.68
Performance score*	2.5	6.5	16.0	11.0

*According to the rank position within the group of the four indices, each performance indicator was scored 0-3 points. The index displaying the highest coefficient number scored 3 and the one with the lowest number scored 0. If equal, the score was shared. The sum of points, i.e. the performance score, is presented in bold for each endoscopic index. Abbreviations: HR-QoL, health-related quality-of-life; κ , kappa value of agreement; MES, Mayo Endoscopic Subscore; r , correlation coefficient; SCCAI, Simple Clinical Colitis Activity Index; SES-UC, Simple Endoscopic Score for Ulcerative Colitis; SHS, Short Health Scale; UCCIS, Ulcerative Colitis Colonoscopic Index of Severity; UCEIS, Ulcerative Colitis Endoscopic Index of Severity.

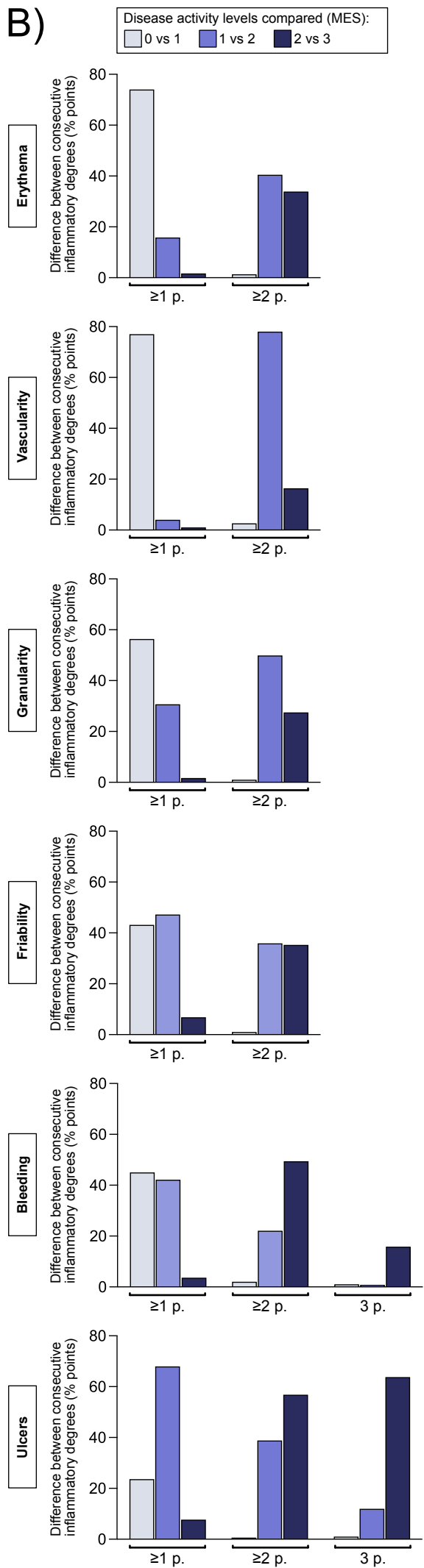
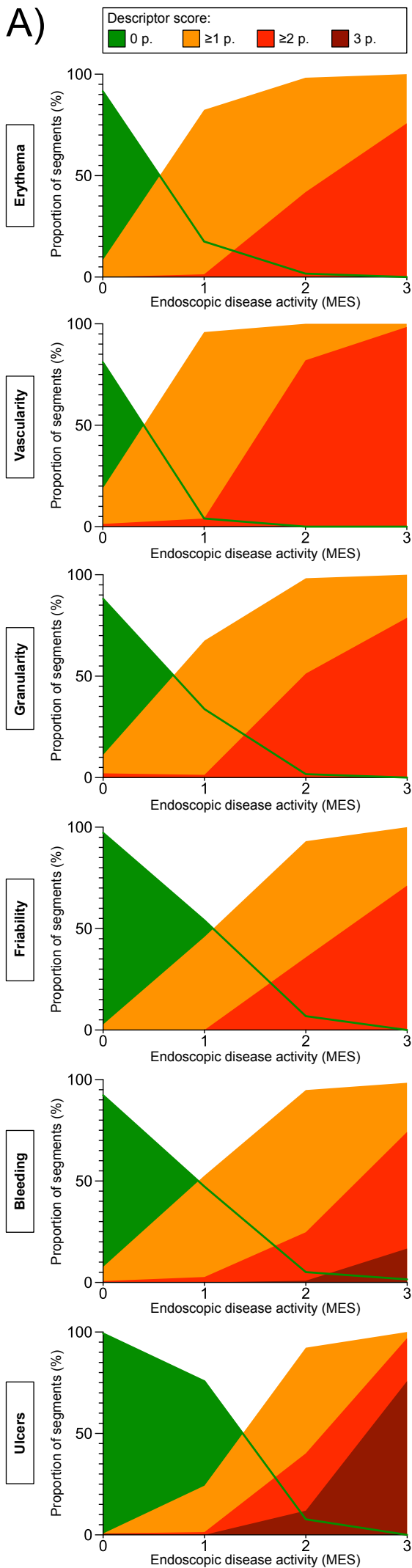


Figure 2.

