

**Supplementary Table 5. Inter-rater agreement on different histological scores and their components**

Histologic Index/Score		Intra-Class Correlation (ICC) Coefficient, overall (95% CI)	
Name	Histologic Components	ICC	Total ICC
PHRI	Neutrophils in lamina propria	<b>0.85</b> (0.78, 0.90)	0.84 (0.78, 0.90)
	Neutrophils in surface epithelium	<b>0.70</b> (0.60, 0.79)	
	Cryptitis	0.66 (0.55, 0.76)	
	Crypt abscess	0.63 (0.51, 0.73)	
RHI	Chronic inflammation	0.68 (0.57, 0.76)	0.77 (0.69, 0.85)
	Neutrophils in lamina propria	<b>0.80</b> (0.72, 0.87)	
	Neutrophils in epithelium	<b>0.72</b> (0.63, 0.81)	
	Erosion / Ulceration	0.62 (0.51, 0.73)	
NHI*			0.85 (0.79, 0.90)
VSS	Crypt abscess	0.51 (0.39, 0.64)	0.77 (0.68, 0.84)
	Erosion / Ulceration	0.44 (0.32, 0.58)	
	Neutrophils in lamina propria	<b>0.79</b> (0.71, 0.86)	
ECAP	Extent	0.55 (0.43, 0.67)	0.87 (0.82, 0.92)
	Crypt architectural alteration	0.44 (0.32, 0.58)	
	Paneth cell metaplasia/hyperplasia	0.41 (0.29, 0.55)	
	Surface epithelium (reactive, neutrophils, erosion /ulceration)	0.73 (0.64, 0.82)	
	Cryptitis	0.69 (0.58, 0.78)	
	Crypt abscess	0.55 (0.44, 0.68)	
	Crypt destruction	0.47 (0.34, 0.60)	
	Mononuclear cells in lamina propria	0.74 (0.64, 0.82)	
	Basal plasmacytosis	0.68 (0.58, 0.78)	
	Neutrophils in lamina propria	<b>0.85</b> (0.78, 0.90)	
	Eosinophils in lamina propria	0.42 (0.30, 0.56)	
Lymphoid follicles or aggregates	0.43 (0.31, 0.57)		
GS	Grade 0 (architectural change)	0.59 (0.47, 0.71)	0.82 (0.75, 0.88)
	Grade 1 (chronic inflammatory infiltrate)	0.68 (0.57, 0.77)	
	Grade 2a (eosinophils in lamina propria)	0.40 (0.28, 0.53)	
	Grade 2b (neutrophils in lamina propria)	<b>0.80</b> (0.62, 0.87)	
	Grade 3 (neutrophils in epithelium)	<b>0.71</b> (0.61, 0.80)	
	Grade 4 (crypt destruction)	0.55 (0.43, 0.67)	
	Grade 5 (erosion / ulceration)	0.60 (0.49, 0.71)	

\*Breakdown ICC data for Nancy index was not computed