



Title	The Histological Detection of Ulcerative Colitis Using a No-Code Artificial Intelligence Model
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Table 1. Summary of histological and endoscopic findings

Ulcerative colitis	
1) Characteristic histological findings	
Crypt distortion	43/50 (86%)
Goblet cell depletion	32/50 (64%)
Basal plasmacytosis	49/50 (98%)
Crypt abscess	8/50 (16%)
Cryptitis	43/50 (86%)
Dysplasia	0/50 (0%)
2) Endoscopic Matts grade	
Grade 1	2/50 (4%)
Grade 2	16/50 (32%)
Grade 3	23/50 (46%)
Grade 4	2/50 (4%)
Not available	7/50 (14%)
Adenocarcinoma	
Adenocarcinoma NOS, low-grade	49/50 (98%)
1) Well differentiated	33/50 (66%)
2) Moderately differentiated	16/50 (32%)
Mucinous adenocarcinoma	1/50 (2%)
NOS, not other specified	

Table 2 Model performance of four classes

Class	Accuracy	Test set number
UC	0.99	225
Non-UC coloproctitis	1.00	225
Adenocarcinoma	0.99	225
Control	0.99	225

UC, Ulcerative colitis