**Supplemental Table: Summary and results of literature reviewed**

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| **References** | **Diagnostic Modality** | **Pathology** | **Population** | **AI used** | **Data** | **Patients** | **Accuracy; Sensitivity; Specificity; AUC** |
| Wimmer et al. (12) | WLE and NBI | Celiac disease | Adult | CNN | 1,661 testing images | 353 | 90.5%; NA; NA; NA |
| Vécsei et al. (23) | WLE | Celiac disease | Pediatric | Local binary pattern operator, k-nearest neighbor | 612 image patches | 131 controls; 40 celiac | 88%; 90.6%; 85.43%; NA |
| Ozawa et al. (26) | WLE | IBD | Adult | CNN | Images: 26,304 training & 3981 testing | 841 in training; 114 in testing | NA; NA; NA; 0.86 (Mayo 0) and 0.98 (Mayo 0-1) |
| Mossotto et al. (29) | WLE & biopsy | IBD | Pediatric | PCA, multidimensional scaling algorithm, ensemble learners, linear discriminant analysis and SVM | Histological & endoscopic data: 210 patients training & 48 patients testing | 178 Crohn's, 80 UC, & 29 unclassified | 83.3%; NA; NA; NA |
| Ciaccio et al. (37) | VCE | Celiac disease | Adult | Automata-based polling | 9 celiac videos; 7 control videos | 9 celiac; 7 control | 88.1%; 83.9%; 92.9%; NA |
| Zhou et al. (4) | VCE | Celiac disease | Adult | CNN | Training: 6 Celiac & 4 control; Testing: 5 Celiac & 6 control | 11 celiac; 10 control | NA; 100%; 100%; NA |
| Kumar et al. (42) | VCE | IBD | Adult | SVM | 533 VCE images: 212 normal, 213 mild, 74 moderate, and 34 severe Crohn’s | 30 Crohn’s; 17 control | 89.3%; NA; NA; NA |
| Girgis et al. (41) | VCE | IBD | Adult | Mean shift algorithm, SVM | Training: 469 VCE images; Validation & testing: 530 VCE images | 29 Crohn's; 17 control; 1 Celiac | 87%; 80%; 93%; NA |
| Gatos et al. (52) | US elastography | Cirrhosis | Adult | SVM | 70 SWE data from patients with CLD; 56 SWE data from control patients | 70 patients with CLD; 56 control patients | 87.3%; 93.5%; 81.2%; 0.87 (0.77 – 0.92 OI) |
| Biswas et al. (50) | US elastography | Cirrhosis | Adult | CNN | 36 fatty liver disease US images; 27 control US images | 36 fatty liver disease; 27 control | 100%; NA; NA; NA |
| Mielens et al. (63) | Manometry | Dysphagia | Adult | Multilayer perceptron learning vector quantization, SVM | 89 swallows | 23 patients | 96.44%; NA; NA; 0.95 |
| Maeda et al. (70) | Endocytoscopy/NBI | IBD | Adult | SVM | 12,900 EC/NBI images for training; 9,935 EC/NBI images for testing | 87 for training; 100 for testing | 91%; 74%; 97%; NA |
| Plevy et al. (76) | Serological/ genetic data | IBD | Adult | Random Forest | Serological, genetic, and inflammatory markers: 1,803 for training & 436 for testing | 1,803 training; 437 testing | NA; NA; NA; 0.93 |
| Lamash et al. (78) | MRI | IBD | Pediatric | CNN | MRI images: 15 training, 8 testing | 23 Crohn’s |  |
| Note: AI = Artificial Intelligence; AUC = Area Under the Curve; WLE = White Light Endoscopy; NBI = Narrow Band Imaging; CNN = Convolutional Neural Network; NA = information not available; IBD = Inflammatory Bowel Disease; PCA = Principal Component Analysis; SVM = Support Vector Machine; UC = Ulcerative Colitis; VCE = Video Capsule Endoscopy; US = Ultrasound; SWE = Shear Wave Elastography; CLD = Chronic Liver Disease; EC = Endocytoscopy; CT = Computed Tomography; MRI = Magnetic Resonance Imaging | | | | | | | |