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Table 1. Basic demographic characteristics of the 6399 patients enrolled in the study

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	Ulcerative colitis N=5128	Crohn's disease N=875	Intestinal tuberculosis N=396
Sex, male (%)	2710 (52.8%)*	631 (72.1%)**	175 (44.2%)*
Age (Mean±SD) , years	42.94±13.66	36.04±14.15	42.21±16.10

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\*: P<0.05; \*\*: P<0.001. Null hypothesis: male (%)=50%

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 Table 2. Performances of Classifiers

	Sensitivity		Specificity		AUC	
	RF	CNN	RF	CNN	RF	CNN
UC and CD	0.890	-	0.837	-	0.936	-
UC and ITB	0.833	-	0.818	-	0.892	-
CD and ITB	0.723	0.900	0.772	0.771	0.816	0.910
Precision						
	RF	CNN	RF	CNN	RF	CNN
UC	0.97	0.99	0.97	0.97	0.97	0.98
CD	0.65	0.87	0.53	0.83	0.58	0.85
ITB	0.68	0.52	0.76	0.81	0.72	0.63

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AUC, areas under the curve; UC, ulcerative colitis; CD, Crohn's disease; ITB, intestinal tuberculosis; RF, random forest; CNN, convolutional neural network

Table 3. Differential features of UC and CD

Features	UC	CD
Mucosal diffuse congestion	+	
Ulcers covered with white exudates	+	
Ulcers with purulent secretion	+	
Undamaged haustral pattern	+	
Loss of vascular texture	+	
Rectum involved	+	
Spot mucosal erosion	+	
Lumen stenosis	+	
Bleeding tendency after touch	+	
Involvement of ileocecal valve	+	

UC, ulcerative colitis; CD, Crohn's disease

Table 4. Differential features of UC and ITB

Features	UC	ITB
Undamaged terminal ileum mucosa		+
Pseudopolyps		+
Loss of vascular texture		+
Smooth mucosa		+
Undamaged haustral pattern		+
Ulcers with purulent secretion	+	
Diffuse mucosal congestion	+	
Rectum involved		+
Involvement of ileocecal valve		+
Bleeding tendency after touch	+	

UC, ulcerative colitis; ITB, intestinal tuberculosis

Table 5. Differential features of CD and ITB

Features	CD	ITB
Loss of vascular texture	.	+
Involvement of ileocecal valve		+
Ulcers covered with white exudates	+	
Pseudopolyps	+	
Lumen stenosis	+	
Mucosal congestion	+	
Undamaged ileum		+

CD, Crohn's disease; ITB, intestinal tuberculosis