

A) Table 1: Confusion Matrix Metrics

**Table 3. Confusion
Matrix metrics**

Metrics	Number of Studies (%) [Study ID]
Accuracy	
<70	1(2) [19]
71-80	2(4) [8,33]
81-90	12(27) [7,11,12,13,16,17,21,22,23,25,35,40]
>90	19(42) [4,5,6,10,14,15,18,20,26,27,31,32,36,37,39,42,43,44,45]
Specificity	
<70	2(4) [19,33]
71-80	2(4) [34,45]
81-90	2(4) [11,25]
>90	7(16) [5,15,21,26,35,38,44]
Sensitivity	
<70	2(4) [25,16]
71-80	1(2)[1]
81-90	8(18) [8,11,21,26,34,35,38,43]
>90	14(31) [2,4,5,9,10,15,26,27,30,33,39,42,44,45]
AUC	
<70	0(0)
71-80	0(0)
81-90	3(7) [25,34,41]
>90	6(14) [2,4,7,17,33,37]
F1-Score	
<70	0(0)
71-80	2(4) [8,13]
81-90	3(7) [24,35,43]
>90	8(18) [5,10,15,30,37,39,42,44]
Precision	
<70	0(0)
71-80	0(0)
81-90	2(4) [35,43]
>90	8(18) [3,4,5,9,10,15,42,44]

B) Table 2: Metrics Statistics

Metric	Number of Reported	Max Value	Min Value	Average Value
Accuracy	34	99.4 % [14]	63.66 % [19]	89.68 %
Specificity	13	97.5 % [5]	60.30 % [33]	85.65 %
Sensitivity	23	99 % [9]	60 % [19]	89.45 %
AUC	9	99.7 % [4]	82.00 % [34]	91.99 %
F1-Score	12	97.6 % [37]	78.87 % [13]	89.97 %
Precision	10	99 % [9]	87.10 % [35]	92.82 %

C) Table 3: Metrics based on Type of Files.

Type of File	Number of reported	Average Accuracy	Average Specificity	Average Sensitivity	Average AUC	Average F1-Score	Average Precision
Endoscopy	17	88.22%	86.11%	87.14%	92.17%	91.07%	92.26%
Biopsy-histopathology	24	91%	84%	92%	94%	89%	94%
Hyperspectral imaging	1	N/R	78%	88%	82%	N/R	N/R
DNA-Mythalon	1	96.17%	95.83%	96.65%	N/R	94.71%	90.44%
Colonography- Virtual Colonscopy	1	87%	N/R	N/R	93%	N/R	N/R
Endoscopy+Histology+report	1	81.10%	N/R	N/R	N/R	N/R	N/R

D) Table 4: Metrics based on Year

Date	Number of reported	Average Accuracy	Average Specificity	Average Sensitivity	Average AUC	Average F1-Score	Average Precision
2016	1	90.96%	74.19%	95.16%	N/A	N/A	N/A
2017	2	94%	N/R	88%	N/A	89%	90%
2018	1	80.61%	N/A	N/A	N/A	78.87%	N/A
2019	5	86.33%	91.00%	77.30%	90.70%	87.10%	88.88%
2020	15	88.80%	85.82%	87.85%	90.86%	90.25%	95.61%
2021	8	91.16%	93.00%	91.93%	N/A	91.41%	94.80%
2022	13	91.56%	83.13%	95.09%	93.53%	93.29%	93.15%