SUPPLEMENTARY MATERIAL

Diagnostic accuracy of cancer ratio and other new parameters in differentiating malignant from benign pleural effusions

Narendra Kumar Narahari,[1] Nandini Ravula,[1] Rakesh Kodati,[1] Shantveer G Uppin,[2] Saibaba KSS,[3] Bhaskar Kakarla,[1] Paramjyothi Gongati[1]

[1]Department of Pulmonary Medicine, Nizam's Institute of Medical Sciences, Hyderabad; [2]Department of Pathology, Nizam's Institute of Medical Sciences, Hyderabad; [3]Department of Biochemistry, Nizam's Institute of Medical Sciences, Hyderabad, India

Correspondence: Rakesh Kodati, Department of Pulmonary Medicine, Nizam's Institute of Medical Sciences, Hyderabad-500082, Telangana, India.
Tel.: +91 9781994022. E-mail: kodatirakesh@gmail.com

pagepress

Supplementary Table 1. Characteristics of the studies investigating the diagnostic accuracy of cancer ratio and cancer ratio plus in differentiating MPE from benign pleural effusions.

Author	Year	MPE	Controls	Study design	Cut -off	Sensitivity	Specificity	PPV	NPV	PLR	NLR	AUC
Cancer ratio												
Verma A et al [8]	2016	100	54	Retrospective	20	0.98	0.94	0.97	0.96	32.6	0.03	0.81
Verma A et al [9]	2016	84	34	Prospective	20	0.95	0.85	0.94	0.87	16	0.13	0.81
JH Huang et al (BUFF) [15]	2023	35	123	Retrospective	20	0.57	0.61	-	-	-	-	0.63
JH Huang et al (SIMPLE) [15]	2023	88	111	Prospective	20	0.67	0.54	-	-	-	-	0.60
ElSharawy DE et al [11]	2020	47	31	Prospective	22	0.92	0.88	93.4	84	-	-	0.947
Zhang F et al [17]	2016	318	669	Prospective	10.6	0.94	0.73	-	-	-	-	0.841
Gayaf M et al [13]	2021	101	131	Retrospective	14.25	0.84	0.53	61.6	73.3	1.78	0.3	0.729
Korczynski P et al [10]	2018	74	66	Retrospective	16.4	0.95	0.68	-	-	2.97	0.08	0.826
Zhang Y et al [18]	2021	145	117	Retrospective	14.97	0.91	0.67	-	-	-	-	0.85
Ren Z et al [20], (Age ≤50 y)	2021	9	80	Retrospective	12.9	0.89	0.89	47.1	98.6	7.9	0.13	0.940
Ren Z et al [20], (Age >50 y)	2021	91	39	Retrospective	19.2	0.81	0.87	93.7	66.7	6.34	0.21	0.847
Zhou J et al [14]	2022	90	130	Prospective	21.24	0.8	0.8	-	-	4	0.25	0.859
Hussein SA et al [19]	2020	94	56	Prospective	16.02	0.61	0.96	79	92	16.99	0.41	0.88

Note: The publisher is not responsible for the content or functionality of any supporting information supplied by the authors. Any queries should be directed to the corresponding author for the article.

Study	Year			Type								
Present Study	2024	59	61	Prospective	10	0.93	0.95	94.8	93.5	18.95	0.07	0.97
Cancer Ratio Plus												
Verma A et al [9]	2016	84	34	Prospective	30	97.6	94.1	0.97	0.94 -	41	0.06	0.863
ElSharawy DE et al [11]	2020	47	31	Prospective	41	93.6	91.7	87.7	88	-	-	0.975
Gayaf M et al [13]	2021	101	131	Retrospective	28.7	82.2	45.8	53.9	76.9	1.52	0.39	0.687
Ren Z et al [20], (Age ≤50 y)	2021	9	80	Retrospective	25	88.9	92.5	57.1	98.7	11.85	0.12	0.93
Ren Z et al [20], (Age >50 y)	2021	91	39	Retrospective	22.6	86.8	84.6	92.9	73.3	5.64	0.16	0.836
Zhou J et al [14]	2022	90	130	Prospective	34.7	81.5	80	-	-	4.08	0.23	0.874
Present study	2024	59	61	Prospective	15	83.1	72.1	74.2	81.5	2.98	0.23	0.89