

Figure 1 Flow diagram of the study selection process.

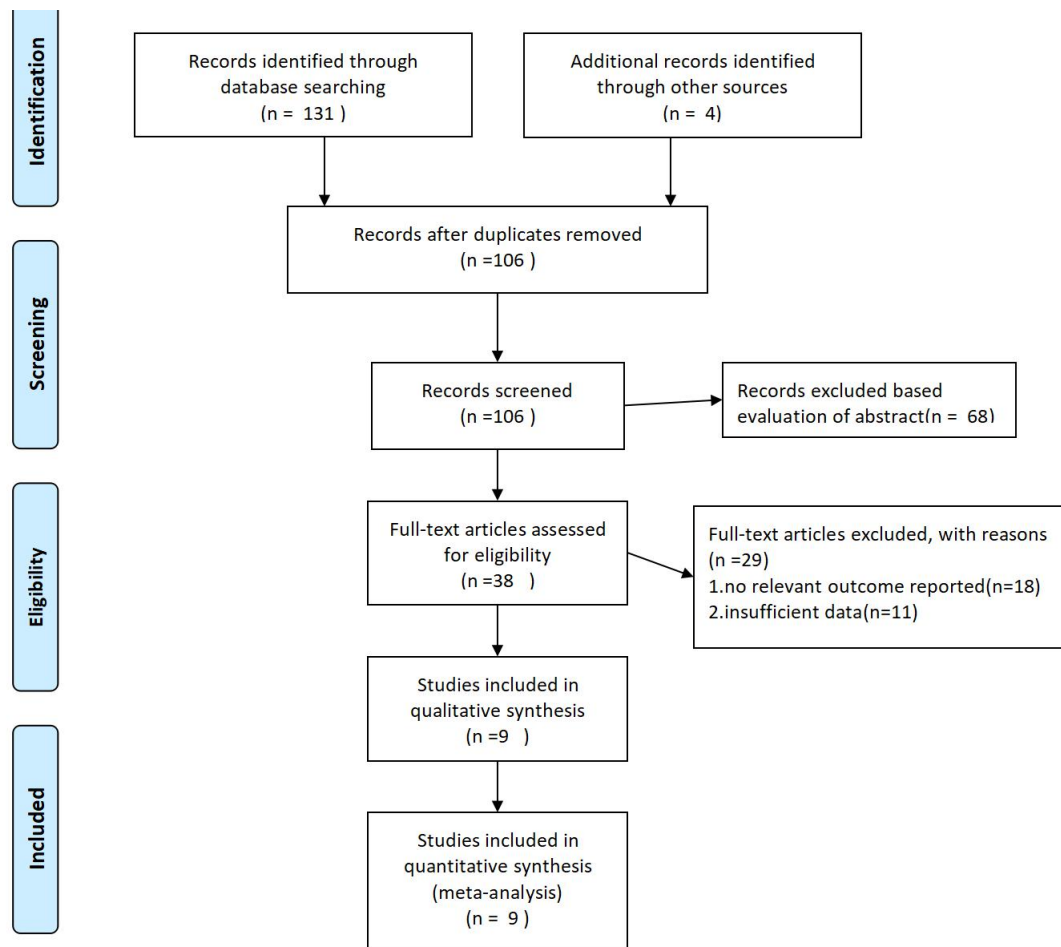


Table1 Characteristic of included studies

Author	year	Ethnicity	mean age	Specime	test method	diagnostic value		
						Sensitivity	Specificity	cut-off
Yao	2007	China	58.8	pancreatic juice	MSP	0.71	0.88	NA
Park	2007	Korea	63	cytogoly	QMSP	0.87	0.80	NA
Park2	2012	Korea	63	plasma	QMSP	0.80	0.76	0.015
MD	2013	China	56	pancreatic juice	QMSP/MSP	0.66	0.78	0.014
Hiroyuki	2006	American	68	pancreatic juice	QMSP/MSP	0.71	0.78	>0.01
Singh	2019	India	55	plasma	QMSP	0.73	0.60	NA
Yao2	2007	China	60	pancreatic juice	QMSP/MSP	0.63	0.84	NA
Sato	2003	American	59.2	pancreatic juice	MSP	0.67	1.00	NA
Mansour	2008	China	67.4	cytogoly	QMSP/MSP	0.76	0.85	NA

NA – not available; QMSP-quantitative real-time methylation-specific PCR ;MSP-real-time methylation-specific PCR

Figure 2A
Quality assessment of included studies.

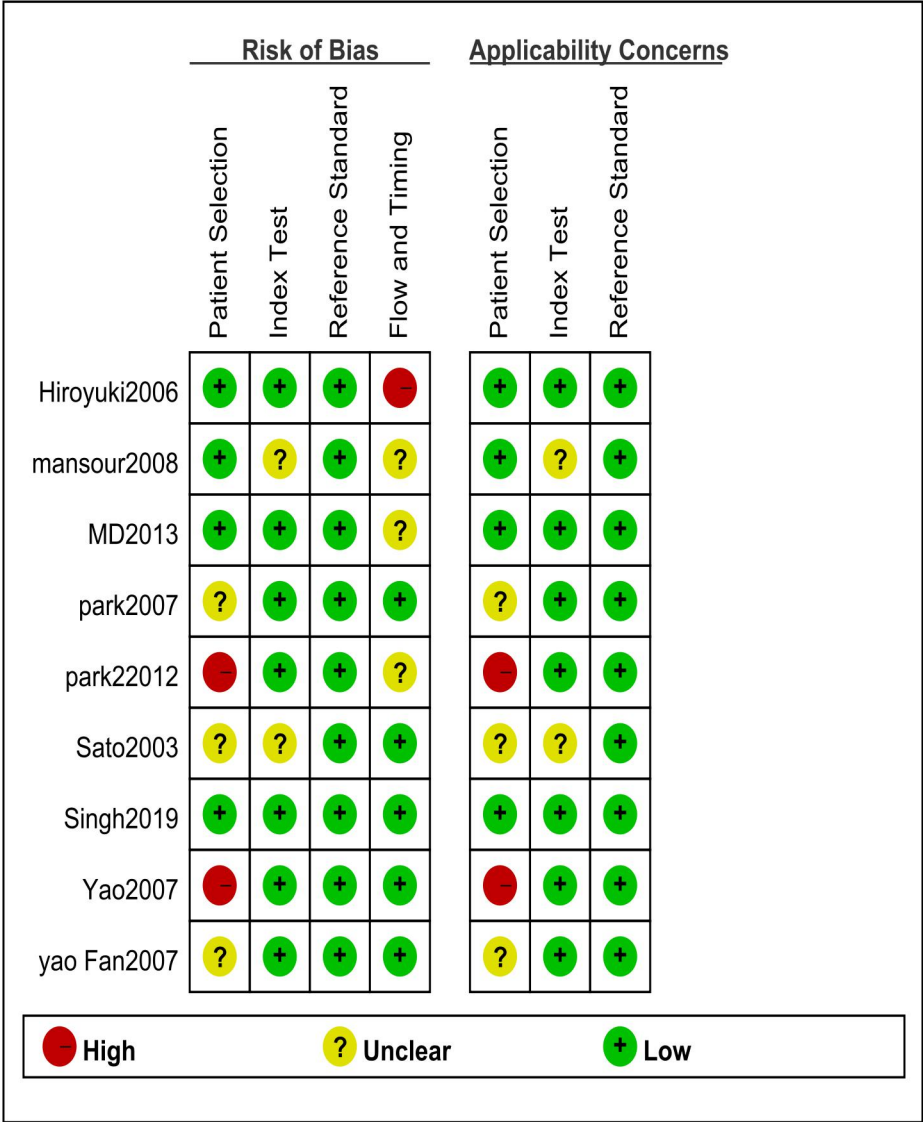
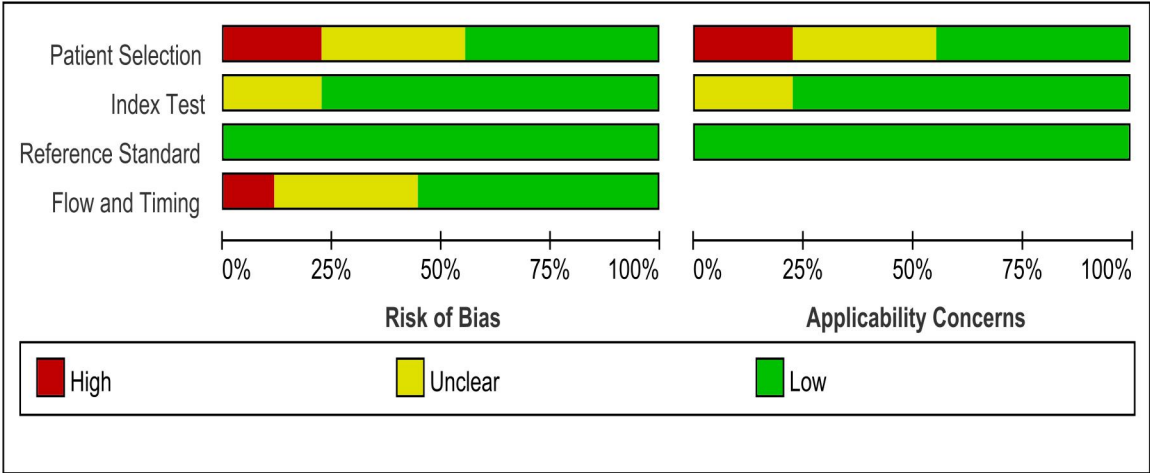
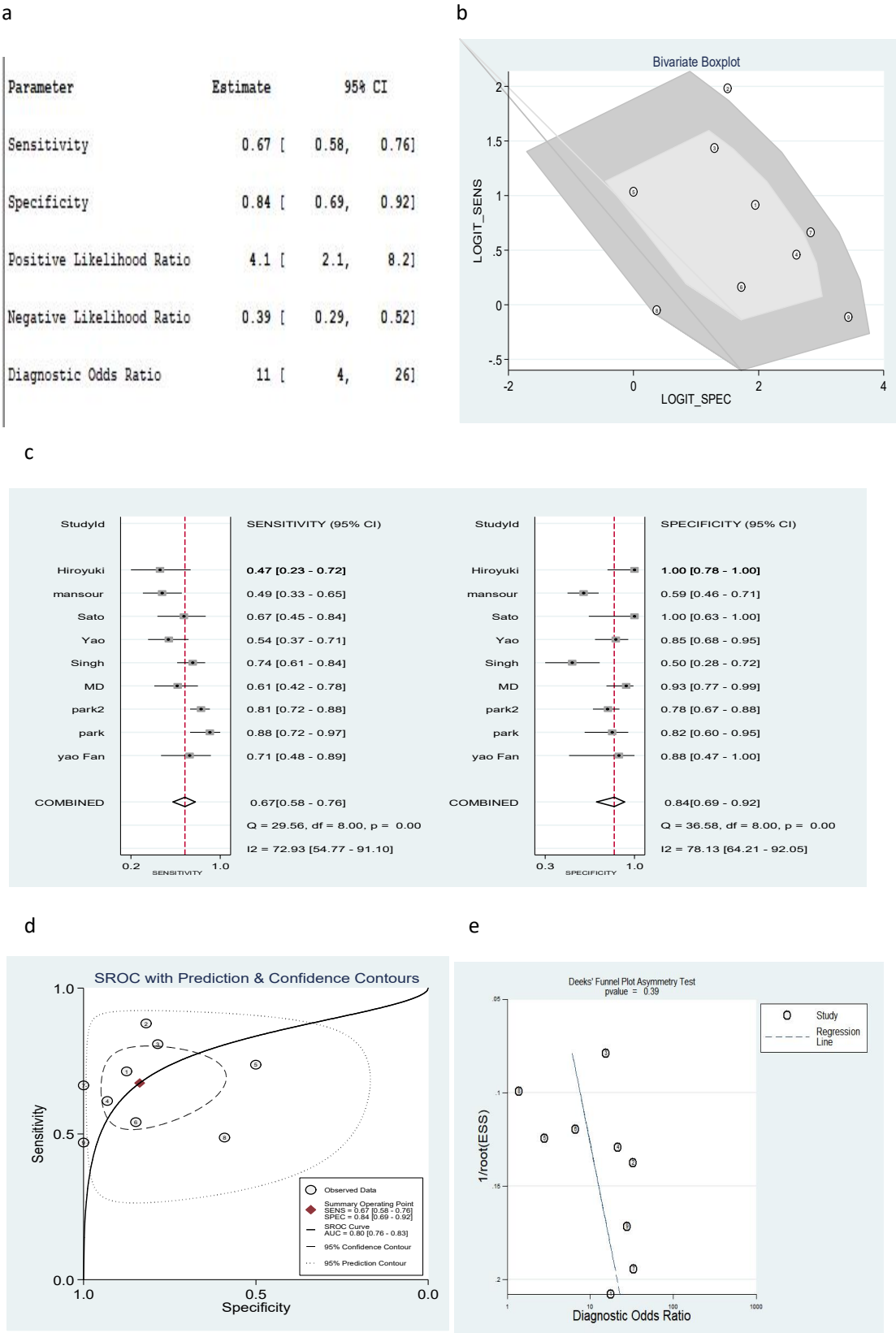


Figure2B



(A) the a methodological quality graph (B) the Cochrane Handbook.

Figure 3 Overall Analysis of Diagnostic value of methylated NPTX2 in pancreatic cancer.



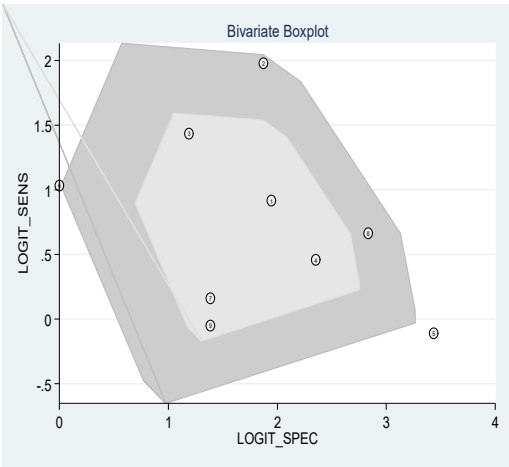
a. Overall result ; b. Bivariate boxplot of 9 studies ; c. Forest plots of sensitivity and specificity ; d. AUC area; e. Funnel plot of studies.

Figure 4 Chronic pancreatitis subgroup Analysis of the Diagnostic Value of methylated NPTX2 in pancreatic cancer.

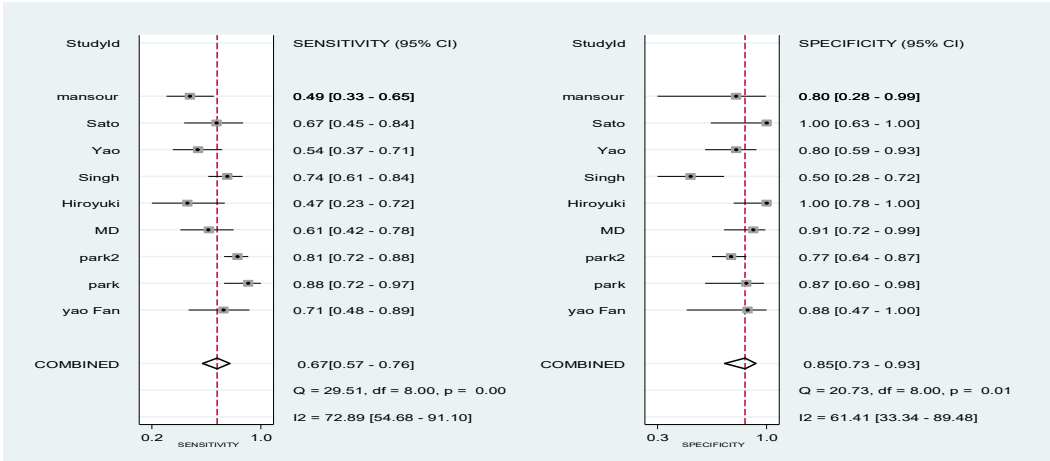
a

Parameter	Estimate	95% CI
Sensitivity	0.67 [0.57, 0.76]	
Specificity	0.85 [0.73, 0.93]	
Positive Likelihood Ratio	4.6 [2.4, 8.9]	
Negative Likelihood Ratio	0.39 [0.29, 0.50]	
Diagnostic Odds Ratio	12 [6, 26]	

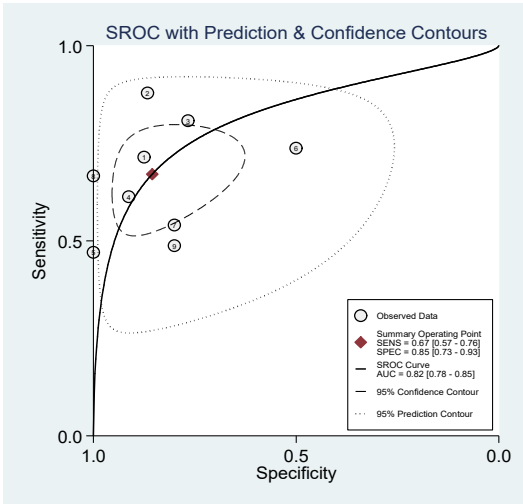
b



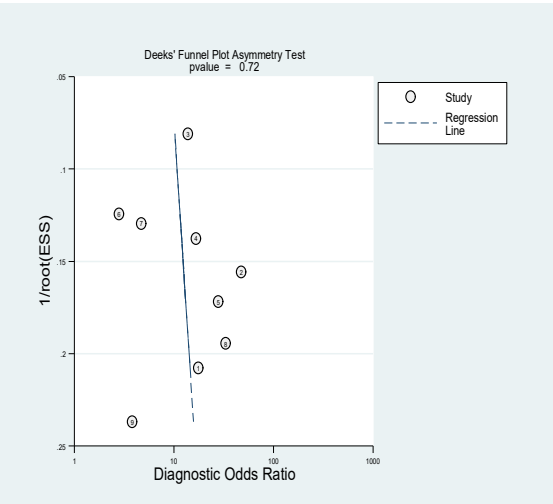
c



d



e



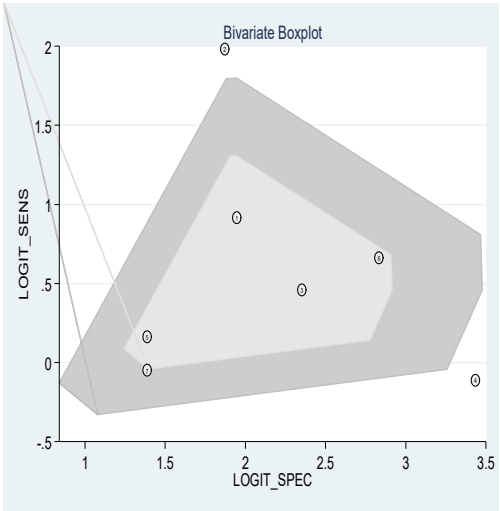
a. overall result b. Bivariate boxplot of 9 studies; c. Forest plots of sensitivity and specificity; d. AUC area; e. Funnel plot of studies.

Figure 5 Lab method of QMSP subgroup Analysis of the Diagnostic Value of methylated NPTX2 in pancreatic cancer.

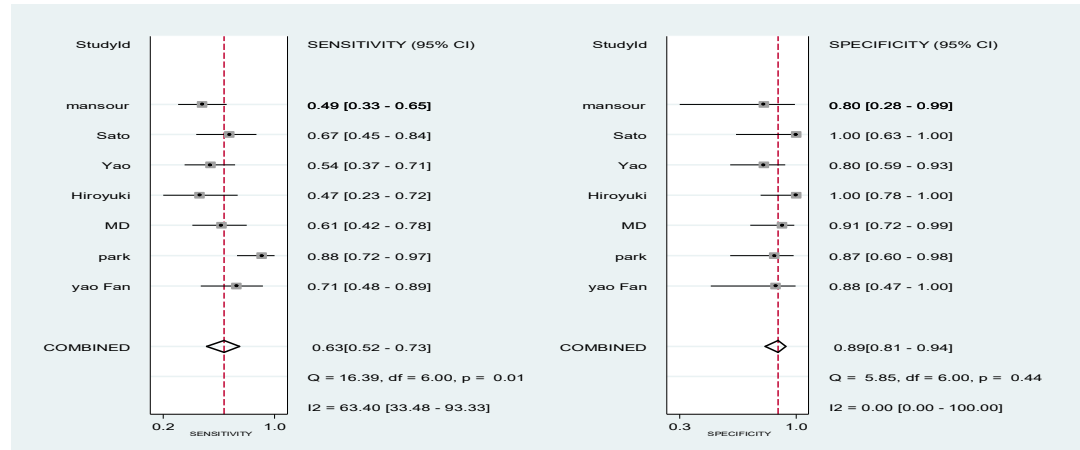
a

Parameter	Estimate	95% CI
Sensitivity	0.63 [0.52, 0.73]	
Specificity	0.89 [0.81, 0.94]	
Positive Likelihood Ratio	5.7 [3.2, 10.2]	
Negative Likelihood Ratio	0.41 [0.30, 0.56]	
Diagnostic Odds Ratio	14 [6, 30]	

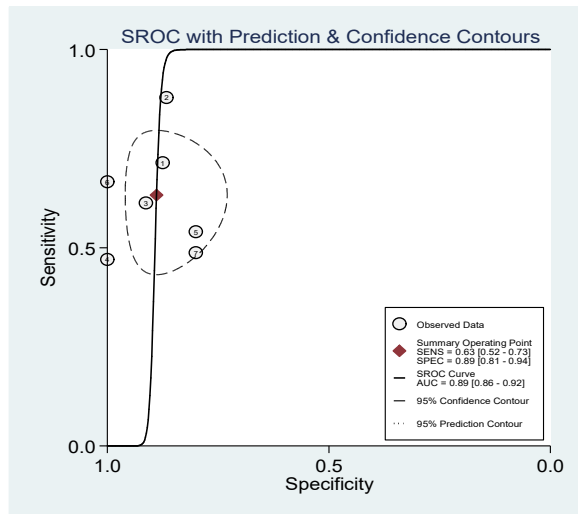
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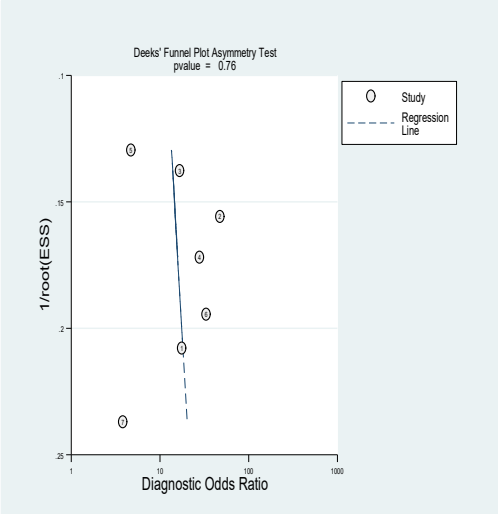
c



d

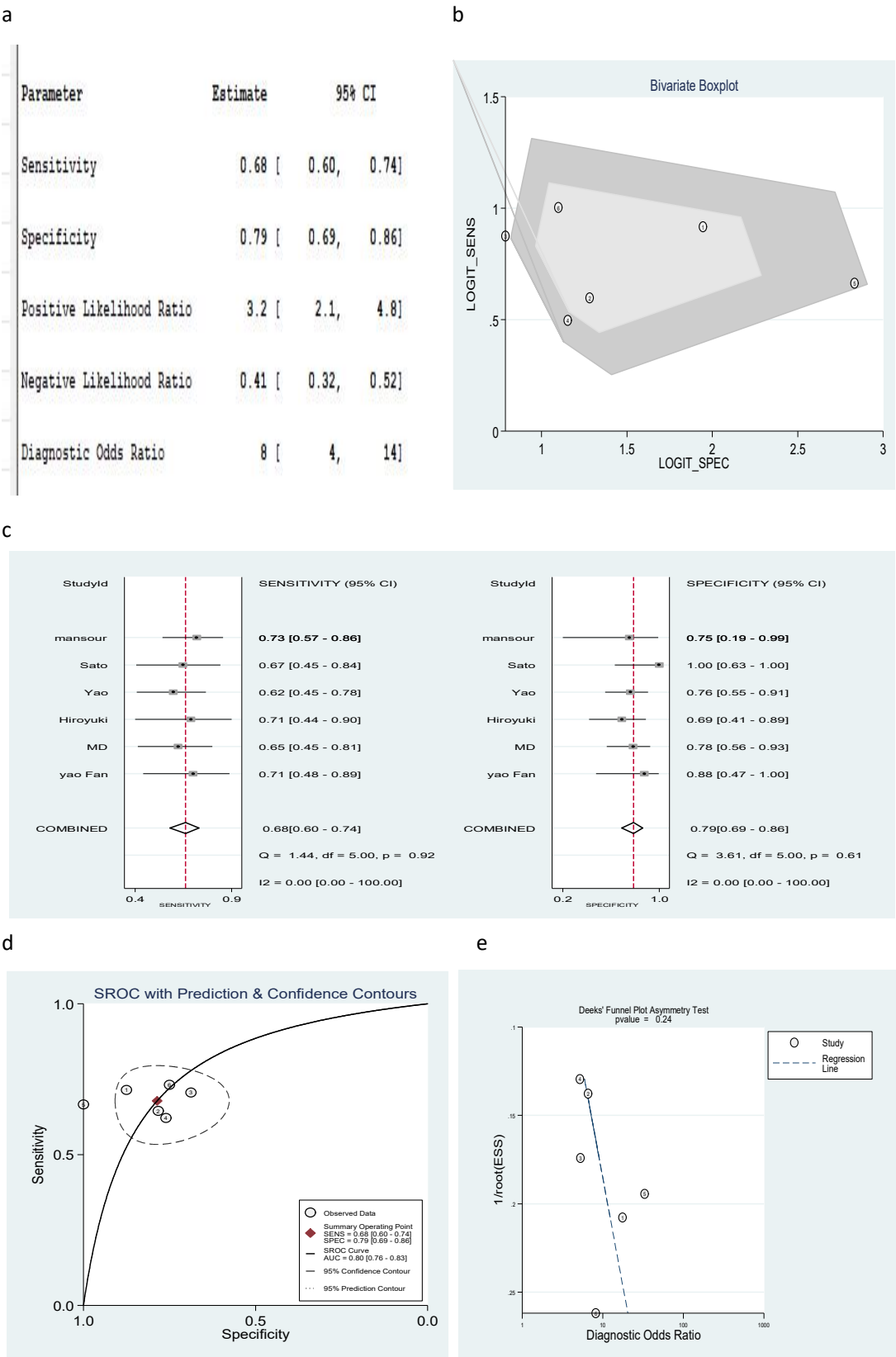


e



a. overall result ; b. Bivariate boxplot of 7 studies; c. Forest plots of sensitivity and specificity; d. AUC area; e. Funnel plot of studies.

Figure 6 Lab method of MSP subgroup Analysis of the Diagnostic Value of methylated NPTX2 in pancreatic cancer.



a. overall result ; b. Bivariate boxplot of 6 studies; c. Forest plots of sensitivity and specificity; d. AUC area; e. Funnel plot of studies.