**Comparison of the diagnostic efficiency for local recurrence of rectal cancer using CT, MRI, PET and PET-CT：A systematic review protocol**

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**Supplementary 1: search strategy regarding PubMed**

#1 "Rectal Neoplasms"[Mesh]

#2"rect\* neoplasm\*"[Title/Abstract] OR "rect\* canc\*"[Title/Abstract] OR "rect\* carcinom\*"[Title/Abstract] OR "rect\* adenocarc\*"[Title/Abstract] OR "rect\* tumor\*"[Title/Abstract] OR "rect\* tumour\*"[Title/Abstract] OR "rect\* sarcom\*"[Title/Abstract]

#3 #1 OR #2

#4 "Tomography, X-Ray Computed"[Mesh]

#5 "computed tomography"[Title/Abstract] OR "computed tomograph\*"[Title/Abstract] OR "comput\* tomography"[Title/Abstract] OR "comput\* tomograph\*"[Title/Abstract] OR "computer assisted tomography"[Title/Abstract] OR "comput\* assisted tomography"[Title/Abstract] OR CT[Title/Abstract] OR CAT[Title/Abstract] OR "computer assisted tomograph\*"[Title/Abstract] OR "comput\* assisted tomograph\*"[Title/Abstract]

#6 #4 OR #5

#7 "Magnetic Resonance Imaging"[Mesh]

#8 nuclear magnetic resonance imaging[Title/Abstract] OR NMRI[Title/Abstract] OR NMR imaging[Title/Abstract] OR magnetic resonance imaging[Title/Abstract] OR MR tomography[Title/Abstract] OR MRI scans[Title/Abstract] OR MRI scan[Title/Abstract] OR MRI[Title/Abstract] OR functional MRI[Title/Abstract] OR functional MRIs[Title/Abstract] OR chemical shift imaging[Title/Abstract] OR magnetization transfer contrast imaging[Title/Abstract]

#9 #7 OR #8

#10 "Positron-Emission Tomography"[Mesh]

#11 pet\*[Title/Abstract] OR petscan\*[Title/Abstract] OR (Positron\*[Title/Abstract] AND emission\*[Title/Abstract]) OR (Positron\*[Title/Abstract] AND tomography\*[Title/Abstract]) OR (tomograph\*[Title/Abstract] AND emission\*[Title/Abstract])

#12 #10 OR #11

#13 "Sensitivity AND Specificity"[Mesh] OR "False Positive Reactions"[Mesh] OR "False Negative Reactions"[Mesh] OR "ROC Curve"[Mesh] OR "Predictive Value of Tests"[Mesh]

#14 sensitivity[Title/Abstract] OR specificity[Title/Abstract] OR receiver operating characteristic[Title/Abstract] OR receiver operator characteristic[Title/Abstract] OR predictive value\*[Title/Abstract] OR roc[Title/Abstract] OR pre-test odds[Title/Abstract] OR pretest odds[Title/Abstract] OR pre-test probability\*[Title/Abstract] OR pretest probability\*[Title/Abstract] OR post-test odds[Title/Abstract] OR posttest odds[Title/Abstract] OR post test probabilit\*[Title/Abstract] OR posttest probabilit\* [Title/Abstract] OR likelihood ratio\*[Title/Abstract] OR positive predictive value\*[Title/Abstract] OR negative predictive value\*[Title/Abstract] OR false negative\*[Title/Abstract] OR false positive\*[Title Abstract] OR true negative\*[Title/Abstract] OR true positive\*[Title/Abstract] OR fn[Title/Abstract] OR fp[Title/Abstract] OR tn[Title/Abstract] OR tp[Title/Abstract]

#15 #13 OR #14

#16 #6 OR #9 OR #12

#17 #3 AND #15 AND #16