

## Supplementary Table 1

Search No	Search strategy*
#1	MeSH descriptor: [total mesorectal excision] explode all trees
#2	total mesorectal excision : TI,AB,KW
#3	MeSH descriptor: [transanal] explode all trees
#4	transanal: TI,AB,KW
#5	MeSH descriptor: [trans-anal] explode all trees
#6	trans-anal : TI,AB,KW
#7	MeSH descriptor: [laparoscopic] explode all trees
#8	laparoscopic: TI,AB,KW
#9	MeSH descriptor: [TME] explode all trees
#10	TME: TI,AB,KW
#11	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10
#12	MeSH descriptor: [rectal cancer] explode all trees
#13	rectal cancer: TI,AB,KW
#14	low rectal : TI,AB,KW
#15	rectum: TI,AB,KW
#16	#12 OR #13 OR #14 OR #15
#17	#11 AND #16

\* This search strategy was adopted for following databases: MEDLINE, EMBASE, CINAHL and the Cochrane Central Register of Controlled Trials (CENTRAL)