

Appendix 1. Detailed search strategy

MEDLINE (Search interface: PubMed)

(endoscopic submucosal dissection[tw] endoscopic submucosal dissections[tw] OR ESD[tw] OR endoscopic mucosal resection[tw] OR endoscopic mucosal resections[tw] OR EMR[tw] OR endoscopic resection[tw] OR endoscopic resections[tw]) AND (transanal surgery[tw] OR transanal surgeries[tw] OR TAS[tw] OR transanal excision[tw] OR transanal excisions[tw] OR TAE[tw] OR local excision[tw] OR local excisions[tw] OR transanal resection[tw] OR transanal resections[tw] OR transanal endoscopic microsurgery[tw] OR transanal endoscopic microsurgeries[tw] OR TEM[tw] OR transanal endoscopic surgery[tw] OR transanal endoscopic surgeries[tw] OR transanal minimally invasive surgery[tw] OR transanal minimally invasive surgeries[tw] OR TAMIS[tw]) AND (rectal[tw] OR rectum[tw] OR colorectal[tw] OR colorectum[tw]) AND ("1990/01/01"[Date - Publication]: "3000"[Date - Publication]) NOT review[Publication Type] NOT meta-analysis[Publication Type]

EMBASE (Search interface: Ovid)

1: ((endoscopic submucosal dissection or endoscopic submucosal dissections or ESD or endoscopic mucosal resection or endoscopic mucosal resections or EMR or endoscopic resection or endoscopic resections) and (transanal surgery or transanal surgeries or TAS or transanal excision or transanal

excisions or TAE or local excision or local excisions or transanal resection or transanal resections or transanal endoscopic microsurgery or transanal endoscopic microsurgeries or TEM or transanal endoscopic surgery or transanal endoscopic surgeries or transanal minimally invasive surgery or transanal minimally invasive surgeries or TAMIS) and (rectal or rectum or colorectal or colorectum)).ab,ti.

2: limit 1 to (english language and embase and yr="1990 -Current" and (article or article in press))

Cochrane library

#1: endoscopic submucosal dissection or endoscopic submucosal dissections or ESD or endoscopic mucosal resection or endoscopic mucosal resections or EMR or endoscopic resection or endoscopic resections

#2: transanal surgery or transanal surgeries or TAS or transanal excision or transanal excisions or TAE or local excision or local excisions or transanal resection or transanal resections or transanal endoscopic microsurgery or transanal endoscopic microsurgeries or TEM or transanal endoscopic surgery or transanal endoscopic surgeries or transanal minimally invasive surgery or transanal minimally invasive surgeries or TAMIS

#3: rectal or rectum or colorectal or colorectum

#4: #1 and #2 and #3 (with Publication Year from 1990 to 2024, in Trials)