

TABLE 1. Characteristics of studies comparing open to robotic TAR for complex ventral and IHrepair

Authors	Year	StudyType	Open-TAR-Sam-ple	Robot-icTAR-Sam-ple	Mean Hernia Width/Length (cm) Open TAR	Mean Hernia Width/Length (cm) Robotic TAR	Postoperative Complication Rate (%) and morbidity Open TAR vs Robotic TAR	Surgical Site Occurrence Rate (%) Open TAR vs Robotic TAR	Surgical Site Infection Rate (%) Open TAR vs Robotic TAR	Operative Time (minutes) Open TAR vs Robotic TAR	Length of Hospital Stay (days) Open TAR vs Robotic TAR (mean)	Readmis-sion Rate (%) Open TAR vs Ro-botic TAR	Follow-up (days)
Abduetal. [27]	2020	Retrospective	285	95	12 / 19	12 / 19	Readmission for GI complication (Ileus): 23 vs 67 , p=0.041 Readmission for wound complications: 59 vs 17%, p=0.065 Postoperative respiratory failure requiring intubation: 0 vs 3, p=0.02	15 vs 5, p=0.015	5 vs 5, p=0.9	180-239 min: 26% vs 41% >240 min: 39% vs 54%, p<0.001	5 vs 3, p<0.001	8 vs 6, p=0.65	30
Bittneretal. [28]	2018	Retrospective	76	26	13.7 / 17.1	12.3 / 18.5	30.2 vs 19.2, p=0.32 39.4 vs 19.2, p=0.09 for morbidity	0 vs 0, p=1.0 2.6 vs 3,8, p=1.0 for SSOPI	2.6 vs 3,8, p=1.0	287±121 vs 365 ± 78, p<0.012	7.1 vs 3,8, p<0.01	6.6 vs 7.7, p=1.0	90
Halkaetal. [29]	2019	Retrospective	134	49	37.4 / 42.2	38.8 / 41.6	15 vs 10, p=0.32	13.4 vs 6, p=0.20 for SSOPI	4 vs 6, p=0.44	272 vs 304, p=0.06	7 vs 3, p≤ 0.001	N/A	30
Martin-del-Campo et al. [30]	2018	Retrospective	76	38	13.5 / N/A	13.5 / N/A	17.1 vs 0, p=0.007	11.8 vs 2.6, p=0.101	6.6 vs 0, p=0.106	211±63vs 299± 95, p<0.001	6 vs 1.3, p< 0.001	0.03 vs 0, p=0.54	N/A
Dewulfetal. [31]	2022	Case-control	79	90	10 / 14.1	8.7 / 11.6	20.3 vs 7.8, p=0.018	24.1 vs 20, p=0.512	12.7 vs 3.3, p=0.010	188 vs 242, p<0.001	6.9 vs 3.4, p<0.001	7.6 vs 4.4, p=0.386	rTAR570 / oTAR 1290
Nguyenetal. [32]	2021	Retrospective	27	16	242 cm2 (defectarea)	216 cm2 (defectarea)	N/A	N/A	12.5 vs 3.7, p=0.554	206.5 vs 272.1, p<0.001	9.6 vs 3, p<0.001	12.5 vs 0, p=0.132	14

rTAR robotic TAR, oTAR open TAR, IQR interquartile range, N/A not available