

Supplemental Digital Content 1.

Table. Summary of surgical site complication meta-analyses

Complication	Studies (n)	Study References	Risk Ratio (95% CI)	I^2	Relative Risk Reduction (95% CI)	p-value
SSC	46	11-16,20,22,23,25,26,29,30,32,34,35,38,39,43,47,52-55,57,59,61,63-68,72,74-76,78,80,81,84-86,90,95,97	0.543 (0.448, 0.657)	64.884	46% (34%, 55%)	<0.001
SSC – RCT	13	16,26,52,53,55,59,61,63,72,74,84,90,95	0.653 (0.481, 0.885)	63.311	35% (12%, 52%)	0.006
SSC - Observational	33	11-15,20,22,23,25,29,30,32,34,35,38,39,43,47,54,57,64-68,75,76,78,80,81,85,86,97	0.501 (0.395, 0.636)	62.884	50% (36%, 61%)	<0.001
SSI	65	11-14,16,22,24-26,28-36,38,40-42,44,45,47,49-60,62-65,68-76,80,81,83-87,89-93,95-97	0.530 (0.442, 0.634)	55.005	47% (37%, 56%)	<0.001
SSI – RCT	19	16,24,26,41,49,52,53,55,56,59,62,63,72-74,83,84,90,95	0.678 (0.546, 0.843)	26.940	32% (45%, 16%)	<0.001
SSI - Observational	46	11-14,22,25,28-36,38,40,42,44,45,47,50,51,54,57,58,60,64,65,68-71,75,76,80,81,85-87,89,91-93,96,97	0.470 (0.367, 0.602)	60.847	53% (63%, 40%)	<0.001
SSSI	21	12,13,16,30,32-34,37,50,53-57,60,80,81,89-91,95	0.505 (0.361, 0.708)	43.278	50% (29%, 64%)	<0.001
DSSI	23	11-13,16,26,30,32-34,37,45,50,53,54,56,60,81,85,89-91,96,97	0.469 (0.292, 0.753)	16.683	53% (25%, 71%)	0.002
Seroma	27	13,15,16,20,22,27,30,38,47,52,54,57-59,63,64,66,68,70,75,77,79,81,90,93-95	0.677 (0.520, 0.881)	27.852	32% (12%, 48%)	0.004

Hematoma	22	15,16,20,30,32,38,42,47,52,57,59,63-66,68,74,75,8190,93,94	0.729 (0.458, 1.161)	0.000	27% (-16%, 54%)	0.183
Dehiscence	38	13,14,16,20,22,26,30,32,34,35,37,38,40,46-48,50,52- 55,57,59,63-66,68,72,74,76,81,84,86,90,93,95,97	0.644 (0.441, 0.940)	64.498	36% (6%, 56%)	0.022
Skin Necrosis	10	15,16,20,32,38,43,47,64,74,94	0.466 (0.302, 0.720)	0.000	53% (28%, 70%)	0.001

CI= Confidence interval; DSSI= Deep surgical site infection; SSC= Surgical site complication; SSI= Surgical site infection; SSSI=

Superficial surgical site infection