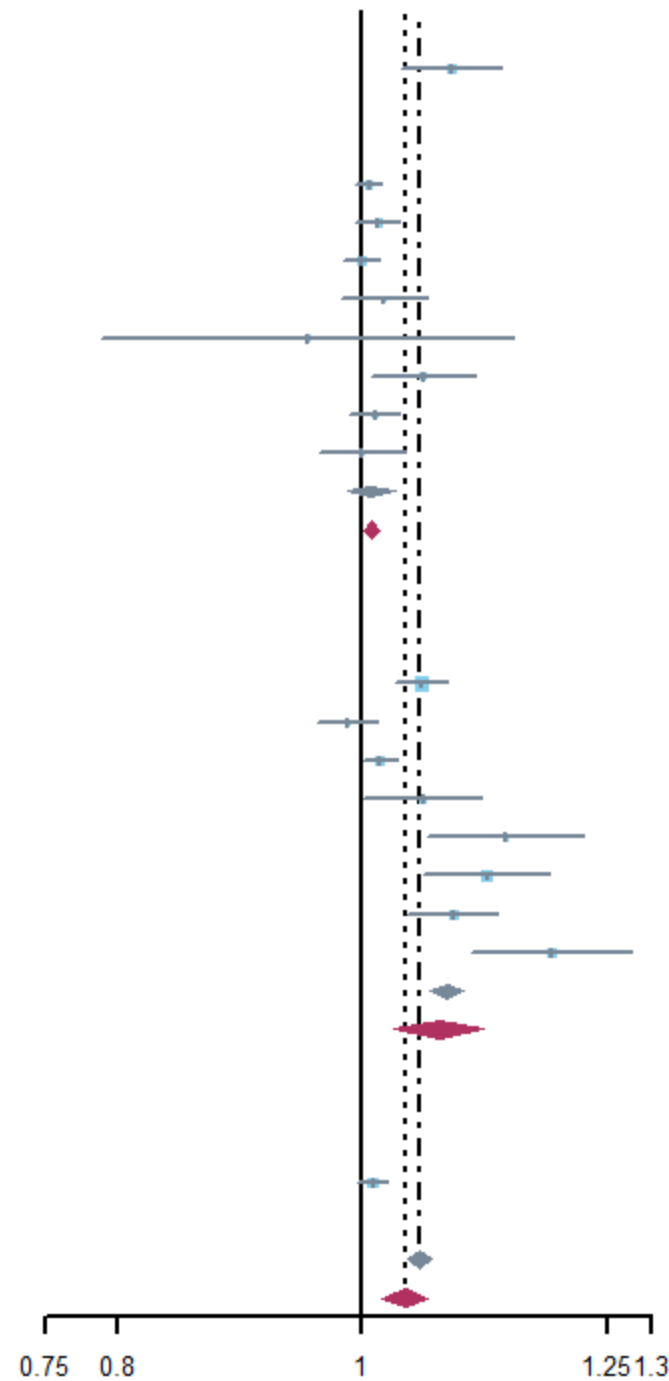


Study	Robot-assisted		Freehand		Risk Ratio	RR	95%-CI	Weight (common)	Weight (random)
	Events	Total	Events	Total					
Spine = Cervical									
Fan, 2020	184	186	186	204		1.08	[1.04; 1.14]	6.2%	5.4%
Spine = Lumbar									
Feng, 2019	170	170	173	174		1.01	[0.99; 1.02]	6.0%	7.0%
Hyun, 2017	130	130	138	140		1.01	[0.99; 1.03]	4.6%	6.7%
Kim, 2018	157	158	171	172		1.00	[0.98; 1.02]	5.7%	6.8%
Li, 2019	32	32	49	50		1.02	[0.98; 1.06]	1.4%	5.7%
Ringel, 2012	85	146	93	152		0.95	[0.79; 1.15]	3.2%	1.1%
Huang, 2020	111	112	120	128		1.06	[1.01; 1.11]	3.9%	5.2%
Tian, 2016	102	102	87	88		1.01	[0.99; 1.03]	3.3%	6.6%
Li, 2020	58	58	44	44		1.00	[0.96; 1.04]	1.8%	5.7%
Common effect model		908		948		1.01	[0.99; 1.03]	29.8%	--
Random effects model						1.01	[1.00; 1.02]	--	44.9%
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0.51$									
Spine = Thoracolumbar									
Han, 2019	525	532	546	584		1.06	[1.03; 1.08]	18.1%	6.6%
Roser, 2013	71	72	40	40		0.99	[0.96; 1.01]	1.8%	6.4%
Wang, 2021	240	240	248	252		1.02	[1.00; 1.03]	8.4%	6.9%
Wang, 2022	110	112	119	128		1.06	[1.00; 1.11]	3.9%	4.9%
Xu, 2018	132	132	93	106		1.14	[1.06; 1.22]	3.6%	4.0%
Zhai, 2019	263	276	217	255		1.12	[1.06; 1.19]	7.9%	4.7%
Yang, 2019	208	208	186	202		1.09	[1.04; 1.13]	6.6%	5.7%
Cao, 2021	202	212	174	217		1.19	[1.11; 1.28]	6.0%	3.9%
Common effect model		1784		1784		1.08	[1.06; 1.10]	56.3%	--
Random effects model						1.07	[1.03; 1.12]	--	42.8%
Heterogeneity: $I^2 = 87\%$, $\tau^2 = 0.0029$, $p < 0.01$									
Spine = Thoracic									
Hou, 2021	230	230	214	216		1.01	[1.00; 1.02]	7.7%	7.0%
Common effect model		3108		3152		1.05	[1.04; 1.07]	100.0%	--
Random effects model						1.04	[1.02; 1.06]	--	100.0%



Heterogeneity: $I^2 = 80\%$, $\tau^2 = 0.0016$, $p < 0.01$

Test for subgroup differences (common effect): $\chi^2_3 = 46.14$, $df = 3$ ($p < 0.01$)

Test for subgroup differences (random effects): $\chi^2_3 = 17.88$, $df = 3$ ($p < 0.01$)