Table S1 Methodological Index for Non-Randomized Studies (MINORS) scoring for included comparative clinical studies

Study	Clearly stated aim	Inclusion of consecutive patients	Prospective data collection	Endpoints appropriate to study aim	Unbiased assessment of study endpoint	Follow-up period appropriate to study aim	Loss to follow-up less than 5%	Prospective calculation of the study size	Adequate control group	Contemporary groups	Baseline equivalence of groups	Adequate statistical analysis	Total score*
Ge *et al.* (2018) (9)	2	2	2	2	0	2	2	0	1	2	2	2	19
Proffen *et al.* (2014) (10)	2	2	2	2	0	2	2	0	2	2	2	2	20
Soreide *et al.* (2016) (11)	1	2	2	2	0	2	2	2	2	2	2	2	21

The items are scored 0 (not reported), 1 (reported but inadequate) or 2 (reported and adequate). The global ideal score is 24 for each comparative study.

Table S2 Systematic Review Center for Laboratory Animal Experimentation (SYRCLE) risk of bias assessment for included animal studies

Study	Selection bias			Performance bias		Detection bias		Reporting bias	Attrition bias	Other sources of bias	Overall risk of bias
	Sequence generation	Baseline characteristics	Allocation concealment	Random housing	Blinding	Random outcome assessment	Blinding	Incomplete outcome data	Selective outcome reporting		
Bogatov *et al.* (2003) (12)	+	+	+	+	?	?	−	+	+	+	Low
Dahners *et al.* (1988) (13)	+	+	+	?	?	?	?	+	+	+	Low
Elder *et al.* (2001) (14)	?	+	?	?	?	?	?	+	+	+	Unclear
Ferry *et al.* (2007) (15)	+	+	+	?	−	+	−	+	+	+	Low
Hanson *et al.* (2005) (16)	+	+	+	?	−	?	−	+	+	+	Low
Moorman *et al.* (1999) (17)	+	+	+	+	?	?	?	+	+	+	Low
Sauerschnig *et al.* (2018) (18)	+	+	+	?	−	+	−	+	+	+	Low
Taroni *et al.* (2017) (19)	+	+	+	+	+	+	+	+	+	+	Low
Warden *et al.* (2006) (20)	+	+	+	+	−	+	−	+	+	+	Low
Watson *et al.* (1976) (21)	+	+	+	+	?	?	?	+	+	+	Low

"+" indicates low risk of bias; "?" indicates unclear risk of bias; "−" indicates high risk of bias.