

Data extraction from reviewed studies

Study design

Author	Year	Surgical procedure	Prospective	Retrospective	Experimental	Observational	Cross-sectional	Longitudinal	Hospital setting	Study design
Boyle et al.	2011	Simulated laparoscopic colectomy	1	0	1	0	1	0	1	RCT
Boyle et al.	2011	Simulated renal artery angioplasty	1	0	1	0	1	0	1	RCT (three arms)
Grantcharov et. al	2007	Cholecystectomy	1	0	1	0	1	0	1	RCT

Study participants

Author	Year	Surgical procedure	Country	Participating surgeons	No. of surgeons in arm 1	No. of surgeons in arm 2	No. of surgeons in arm 3	Total number of surgeons	Procedures per surgeon
Boyle et al.	2011	Simulated laparoscopic colectomy	Ireland	Surgical trainees	16	12		28	5
Boyle et al.	2011	Simulated renal artery angioplasty	Ireland	Surgical trainees	6	6	6	18	6
Grantcharov et. al	2007	Cholecystectomy	Denmark	Surgical trainees	8	8		16	2

Feedback

Author	Year	Surgical procedure	Feedback dissemination - written	Feedback dissemination - oral	Self-assessment	Video recording-assisted feedback dissemination	Peer benchmarking	Feedback provided with literature figures	Frequency: feedback after every procedure
Boyle et al.	2011	Simulated laparoscopic colectomy	0	1	1	0	1	0	1
Boyle et al.	2011	Simulated renal artery angioplasty	0	1	0	0	0	0	1
Grantcharov et. al	2007	Cholecystectomy	0	1	0	1	0	0	1

Outcomes and improvement

Author	Year	Surgical procedure	Video recording-assisted assessment of outcomes	Measured outcome - procedure time	Measured outcome - instrument path length	Measured outcome - instrument smoothness	Measured outcome - economy of movement	Measured outcome - error scores	Measured outcome - learning curves	Measured outcome - procedure specific measures	Feedback improved at least outcome
Boyle et al.	2011	Simulated laparoscopic colectomy	0	0	1	1	0	1	1	0	1
Boyle et al.	2011	Simulated renal artery angioplasty	1	1	0	0	0	1	0	1	1
Grantcharov et. al	2007	Cholecystectomy	1	1	0	0	1	1	0	0	1