

Appendix 2a: Studies related to double- vs. single-gloving: SSI outcome

Author, year, reference	Country/ study period	Type of study/ setting	Intervention	Comparator	Primary outcome	Results	Limitations
Tulipan 2006 (16)	USA 1998-2003	Retrospective, non-randomized, "before/after". Neurosurgery (n=863)	Single-gloving (n=521)	Double-gloving (n=342)	CSF shunt infections 6-month follow-up.	6.7% in double-gloving 15.2% in single-gloving OR: 2.48; (95% CI: 1.50–4.22)	No clear inclusion and exclusion criteria. No validated SSI definition. No <i>a priori</i> sample size calculation. Number of patients lost to follow-up unknown.
Dodds 1990 (15)	United Kingdom unknown period	Non-randomized, "before/after". Hernia repair (n=200)	Single-gloving (n=100)	Double-gloving (n=100)	Wounds were inspected for signs of infection at 7-10 days. Unknown criteria.	8% in double-gloving 10% in single-gloving (<i>P</i> value not provided)	Study period unknown. No clear inclusion and exclusion criteria. Follow-up period unknown. No validated SSI definition. No <i>a priori</i> sample size calculation. Number of patients lost to follow-up unknown.

SSI: surgical site infection; CSF: cerebrospinal fluid; OR: odds ratio; CI: confidence interval.