SUPPLEMENTARY APPENDIX 1. Search Strategy

SUPPLEMENTARY APPENDIX 2. Table. Quality Assessment Scores for the Reviewed Manuscripts\*

SUPPLEMENTARY APPENDIX 3. Forest plots of the associations between UVL no-touch technology and methicillin-resistant *S. aureus* (MRSA) or gram-negative multi-drug resistant organism (MDRO) infections: (A) MRSA and (B) gram-negative MDRO. Abbreviations: CI, confidence interval; IV, inverse variance weighting; SE, standard error.

SUPPLEMENTARY APPENDIX 4. Forest plots of the associations between HPV no-touch technology and methicillin-resistant *S. aureus* (MRSA). Abbreviations: CI, confidence interval; IV, inverse variance weighting; SE, standard error.

SUPPLEMENTARY APPENDIX 5. Funnel plot demonstrating the association between UVL no-touch technology and vancomycin-resistant *Enterococcus* (VRE). Abbreviations: SE, standard error; RR, risk ratio.

SUPPLEMENTARY APPENDIX 6. Funnel plots demonstrating the association for UVL no-touch technology (A) *Clostridium difficile* infection (CDI) comparing high baseline CDI rates versus low baseline CDI rates. (B). Controlled trials versus noncontrolled trials. (C) Academic versus community hospitals. (D) Quality of studies reporting compliance rates (completely adequate versus not completely adequate). Abbreviations: SE, standard error; RR, risk ratio.