Appendix Table C5b-LQ(1). Adherence outcomes for VAP which do not control for secular trend or confounding

| **Study** | **Infection** | **Intervention(s)** | **Pre-intervention Adherence rate** | **Post-Intervention Adherence Rate** | **Adherence Rate Statistical Analysis** | **Follow-up (months)** |
| --- | --- | --- | --- | --- | --- | --- |
| Abbott, United States - 2006 | VAP | Academic Center of Evidence-based Practice (ACE) Star Model | overall HOB: 77%; overall oral care: 22%; overall empty condensate: 94%; overall handwashing before pt contact: 8%; overall handwashing after pt contact: 36%; overall proper glove use: 74% | overall HOB: 69%; overall oral care: 30%; overall empty condensate: 93%; overall handwashing before pt contact: 14%; overall handwashing after pt contact: 36%; overall proper glove use: 90% | hand washing p<0.0001; glove use p<0.0001 | 3 |
| Assanasen, - 2008 | CLABSI;VAP | Feedback Program | overall HOB: 51%; overall HH: 40%; overall femoral catheter (FC): 13% | overall post1 HOB: 88%; overall post1 HH: 47%; overall post1 FC: 7%; overall post2 HOB: 93%; Overall post2 HH: 71%; overall post2 FC:7% |  | 24 |
| Berriel-Cass, United States - 2006 | CLABSI;VAP | VAP Bundle |  |  |  |  |
| Bigham, United States - 2009 | VAP | VAP Bundle | post1 HOB: 57%; post1 mouth care: 60%; post1 oral suction: 60%; post1 in-line suction change: 60%; post1 condensate drained: 60%; post1 vent circuit inspected: 60% | post2 HOB: 85%; post2 mouth care: 85%; post2 oral suction: 78%; post2 in-line suction change: 100%; post2 condensate drained: 90%; post2 vent circuit inspected: 85% |  | 24 |
| Bird, United States - 2010 | VAP | VAP Bundle |  | post1 SICU: 63% (95% CI 57-69%); post1 TICU: 53% (95% CI 46-60%); post2 SICU: 78% (95% CI 73-83%); post2 TICU: 85% (95% CI 82-89%); post3 SICU: 81% (95% CI 72-90%); post3 TICU: 91% (95% CI 85-97%) |  | 31 |
| Blamoun, United States - 2009 | VAP | Expanded VAP bundle |  |  |  |  |
| Bloos, Germany - 2009 | VAP | Educational Program | all patients: 15.0%; patients without acute lung injury (ALI): 22.8%; patients with ALI: 9.9% | all patients: 33.8%; patients without ALI: 47%; patients with ALI: 18.2% | overall chi-square: p< 0.01; patients without ALI chi-square: p< 0.01; patients with ALI chi-square: p<0.01 | 6 |
| Cocanour, United States - 2006 | VAP | VAP Bundle |  |  |  |  |
| Garcia, United States - 2009 | VAP | VAP Education and Oral Care Protocol |  | at least 80% |  |  |
| Gurskis, Lithuania - 2009 | CAUTI, CLABSI, VAP | VAP Education |  |  |  | 12 |
| Heimes, United States - 2011 | VAP | VAP Prevention Protocol (VAPP) |  |  |  |  |
| Jain, United States - 2006 | CAUTI;CLABSI;VAP | IMPACT initiative |  |  |  |  |
| Jimenez, United States - 2009 | VAP | VAP Bundle | full compliance: 6%; HOB: 14%; sedation vacation: 67%; peptic ulcer prophylaxis: 93%; deep vein thrombosis prophylaxis: 87% | full compliance: 59%; HOB: 74%; sedation vacation: 72%; peptic ulcer prophylaxis: 95%; deep vein thrombosis prophylaxis: 92% | full compliance, RR: 0.43, OR: 0.04, Pearson: p<0.01; HOB, RR: 0.30, OR: 0.05, p<0.01; sedation vacation, RR: 0.84, OR: 0.77, p>0.05; peptic ulcer prophylaxis, RR: 0.68, OR: 0.66, p> 0.05; deep vein thrombosis prophylaxis, RR: 0.64, OR: 0.61, p> 0.05 | 4 |
| Landrum, Afghanistan - 2008 | VAP | Infection Control Protocol |  |  |  |  |
| Quenot, France - 2007 | VAP | Nurse-Implemented Sedation Protocol |  |  |  |  |
| Rogers, Ireland - 2010 | CLABSI;VAP | Plan-Do-Study-Act (PDSA)cycle | 24% | 53% | Cronbach’s alpha: 0.71 | 6 |
| Rosenthal, Argentina - 2006 | VAP | Multifaceted Infection Control Program |  |  |  |  |
| Ross, United States - 2007 | VAP | Educational Program | median OAG score: 11 | median OAG score: 9 | p=0.0002 | 2 |
| Sona, United States - 2009 | VAP | Oral Care Protocol |  | 81% |  | 12 |
| Venkatram, United States - 2010 | CAUTI;CLABSI;VAP | VAP bundle |  |  |  |  |