Appendix C. Evidence Tables[[1]](#footnote-1)

Appendix Table C1a. Study characteristics for VAP which control for secular trend or confounding

| **Study** | **Study Design** | **Infection** | **Healthcare Setting** | **Clinical Setting** | **Intervention Years** | **Follow-up (months)** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Apisarnthanarak, Thailand - 2007 | Controlled interrupted time series | VAP | Tertiary care or university hospital | Medical Intensive Care Unit Coronary Care Unit | 2004 - 2006 | 36 | CDC definition was used. Baseline period (Period 1) was from January 1, 2003 through December 31, 2003. Intervention (Period 2) was implemented from January 1, 2004 through December 31, 2004. Follow-up period (Period 3) was from January 1, 2005 through December 31, 2006. The surgical ICU and coronary care unit served as controls. |
| Berenholtz, United States - 2011 | Simple before-after | VAP | More than one hospital of different types | Medical Intensive Care Unit Mixed ICU, Surgical/Trauma ICU, Cardiac ICU | 2004 - 2006 | 30 | CDC definition was used. 112 ICUs from 72 hospitals participated. March 2004 ICUs began implementing patient safety interventions. |
| Bouadma, France - 2010 | Interrupted time series | VAP | Tertiary care or university hospital | Medical Intensive Care Unit | 2005 - 2008 | 30 | VAP definition is spelled out on page 1117. Baseline period was from January 1, 2002 through September 30, 2005. Intervention was implemented from October 1, 2005 through December 31, 2005. Follow-up period was from January 1, 2006 through June 30, 2008. Baseline period for VAP rates was 45 months long while baseline period for compliance was one time point before the intervention. |
| DePalo, United States - 2010 | Simple before-after | CLABSI; VAP |   | coronary ICU, respiratory ICU, intermediate care ICU, neurosurgery ICU, trauma ICU | 2005 - 2008 | 27 | 23 adult ICUs total. All ICUs in Rhode Island were included. CLABSI Education intervention began November 2005. Baseline data collected January 2006 to March 2006 which was during the intervention period. Education intervention for VAP began March 2006. CLABSI and VAP Intervention dates: April 1, 2006 to June 30 2008. |
| Dubose, United States - 2010 | Simple before-after | VAP | Tertiary care or university hospital | Trauma ICU |  | 14 | CDC/NNIS definition was used. Specific dates were not given. First month was used as baseline for process measures and year prior to study was used as baseline for infection rates. |
| Hawe, United Kingdom - 2009 | Interrupted time series | VAP | Community hospital with residents | Medical/Surgical ICU | 2007 - 2007 | 10 | Hospitals in Europe Links for Infection Control Surveillance (HELICS) definition was used. Passive Implementation was from September 2005 through February 28, 2007. Active Implementation was from March 1, 2007 through December 31, 2007. |
| Kulvatunyou, Thailand - 2007 | Simple before-after | VAP |   |   | 2003 - 2003 | 12 | Used CDC definition. Baseline period was from July 1, 2002 through June 30, 2003. The intervention was given April 2003. Follow-up period was from July 1, 2003 through June 30, 2004. |
| Marra, Brazil - 2009 | Interrupted time series | VAP | Tertiary care or university hospital | Medical/Surgical ICU | 2001 - 2008 | 90 | CDC definition was used. Phase 1 was from March 2001 through December 2002. Phase 2 was from January 2003 through December 2006. Phase 3 was from January 2007 through September 2008. |
| Omrane, Canada - 2007 | Simple before-after | VAP | Tertiary care or university hospital | Mixed ICU | 2004 - 2005 | 6 | Definition from Zack et al (Crit Care Med 2002; 30: 2407-12) and Babcock et al (Chest 2004; 125: 2224-31) was used. Baseline period was from November 8, 2003 through May 8, 2004. The education and protocol was initiated in October 2004. The follow-up period was from November 8, 2004 through May 8, 2005. |
| Papadimos, United States - 2008 | Interrupted time series | VAP | Tertiary care or university hospital | Surgical Intensive Care Unit | 2004 - 2005 | 54 | CDC definition was used. Baseline period was from January 1, 2003 through December 31, 2003. The Pre-FASTHUG period was from January 1, 2004 through December 31, 2004. The post-FASTHUG period was from January 1, 2005 through June 30, 2007. Infection rates were not reported for the overall pre-intervention period. It is broken into 2 time periods. |
| Prospero, Italy – 2008 | Simple before-after | VAP | Tertiary care or university hospital | Medical/Surgical ICU | 2006 - 2006 | 4 | CDC definition was used. Baseline period was from January 2006 through April 2006. The intervention was given in April of 2006. Post-intervention period was from May 2006 through August 2006. |
| Scales, Canada - 2011 | RCT – Location | CLABSI;VAP | More than one hospital of different types | Medical/Surgical ICU | 2005 - 2007 | 4 | 15 ICUs, one per hospital, took part in this study. All hospitals were community hospitals. Trial ran from November 1, 2005 to October 31, 2006. From December 1, 2006 through August 31, 2007, ICU’s received interventions that they had not received during the trial. The study design details are outlined in Scales et al. Implement Sci 2009; 4:5.; Only adherence rates |
| Zaydfudim, United States - 2009 | Controlled interrupted time series | VAP | Tertiary care or university hospital | Surgical Intensive Care Unit | 2007 - 2008 | 12 | Pre-intervention period was from January 2005 through June 2007. Post-intervention period was from August 2007 through July 2008. |

1. Tables for studies identified during the updated search are found in the tables at the end of this appendix. [↑](#footnote-ref-1)