Appendix Table C2-LQ-c. Patient characteristics for SSI which do not control for secular trend or confounding

| **Study** | **Infection** | **Intervention(s)** | **Type of QI Strategy** | **Interventionists** | **Participants** | **Number of Hospitals** | **Number of Patients** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Acklin, Switzerland - 2011 | SSI | bundle - antibiotic prophylaxis, skin prep, sterile dressing | Audit and Feedback, Provider Education | independent hospital epidemiology team | Nurses, Physicians | 1 | pre: 217; post: 153 |
| Awad, United States - 2009 | SSI | MRSA bundle | Organizational Change, Provider Education | not specified who initiated intervention plans and implementation | All Clinical Staff | 1 |  |
| Berenguer, United States - 2010 | SSI | implementing SCIP measures | Organizational Change, Provider Education | Administration | All Clinical Staff | 1 | pre: 113; post: 84 |
| Berry, United States - 2009 | SSI | ProvenCare | Audit and Feedback, Organizational Change, Provider Education, Provider Reminder Systems | Geisinger Health System | All Clinical Staff | 3 | pre: 137; post: 117 |
| Carles, France - 2006 | SSI | surgical antibiotic prophylaxis kit (SAPK) | Organizational Change | department of anesthesiology | hospital pharmacists, anesthesiologists; | 1 | pre: 210; post: 210 |
| Forbes, Canada - 2008 | SSI | bundle - antibiotic administration in OR, pre-printed order form to standardize choice of antibiotic, monthly performance figures posted in OR | Audit and Feedback, Organizational Change, Provider Education | Surgical Site Infection Working Group at McMaster University | All Clinical Staff | 1 | pre: 105; post: 103 |
| Forbes, Canada - 2008 | SSI | bundle - glucose control by screening all pts prior to surgery, administering weight-based regimen of insulin to diabetics, monthly performance figures posted in OR | Audit and Feedback, Organizational Change, Provider Education | Surgical Site Infection Working Group at McMaster University | All Clinical Staff | 1 | pre: 105; post: 103 |
| Forbes, Canada - 2008 | SSI | bundle - maintain normothermia by warming OR to 22 C, standardizing IV warmers and forced air devices, monthly performance figures posted in OR | Audit and Feedback, Organizational Change, Provider Education | Surgical Site Infection Working Group at McMaster University | All Clinical Staff | 1 | pre: 105; post: 103 |
| Gomez, Argentina - 2006 | SSI | automatic stop prophylaxis form | Organizational Change, Provider Education, Provider Reminder Systems | multidisciplinary team | All Clinical Staff | 1 | pre: 3496; post: 3982 |
| Graf, Germany - 2009 | SSI | bundle - SSI | Audit and Feedback, Organizational Change, Provider Education, Provider Reminder Systems | infection control team | All Clinical Staff | 1 | pre: 3150; post: 980 |
| Hermsen, United States - 2008 | SSI | Standardized order form | Audit and Feedback, Organizational Change, Provider Education | Study staff | Nurses, Physicians Pharmacists | 1 | pre: 406; post: 396 |
| Ichikawa, Japan - 2007 | SSI | Implementation of Antibiotic Protocols | Audit and Feedback, Provider Education | Infection Control Team, Study Staff | Nurses anesthesiologists, attending surgeons | 1 | pre: 721; post: 1313 |
| Kable, Australia - 2008 | SSI | bundle - antibiotic prophylaxis | Provider Education, Provider Reminder Systems | researchers of the Newcastle Surgical Outcomes Study of Adverse Events | All Clinical Staff | 2 | pre: 659; post: 518 |
| Kramer, United States - 2008 | SSI | nomogram for glycemic control | Organizational Change, Provider Education, Provider Reminder Systems | Multidisciplinary team | Nurses, Physicians | 1 | pre: 1677; post: 1388 |
| Liau, Singapore - 2010 | SSI | bundle - antibiotic, glucose control, clippers, normothermia | Organizational Change, Provider Education, Provider Reminder Systems | multidisciplinary team | All Clinical Staff | 1 | post: 2408 |
| Martin, United States - 2010 | SSI | surgical wear changes in Mohs surgery | Organizational Change | physician | Nurses, Physicians | 1 | pre: 365; post: 585 |
| Nemeth, United States - 2010 | SSI | Education program | Provider Education, Provider Reminder Systems | Study staff | Anesthesia, nursing and surgical staff | 1 | baseline: 97; intervention: 193 |
| Ozgun, Turkey - 2010 | SSI | antibiotic prophylaxis education | Provider Education | not specified who carried out educational intervention | Nurses, Physicians | 1 | pre: 312; post: 322 |
| Parker, United States - 2007 | SSI | Six Sigma methodology and antibiotic prophylaxis | Organizational Change, Provider Education, Provider Reminder Systems | Multidisciplinary team | All Clinical Staff | 1 | pre: 615; post: 1716 |
| Pastor, United States - 2010 | SSI | task force to meet SCIP process measures | Organizational Change, Provider Education | multidisciplinary task force | All Clinical Staff | 1 | pre: 238; post: 253 |
| Paull, United States - 2010 | SSI | The Briefing Guide (BiG) | Organizational Change, Provider Education, Provider Reminder Systems | Veterans Health Administration National Center for Patient Safety (NCPS) | All Clinical Staff | 74 |  |
| Potenza, United States - 2009 | SSI | bundle - antibiotic prophylaxis | Organizational Change, Provider Education, Provider Reminder Systems | Team assembled to respond to SCIP guidelines | All Clinical Staff | 1 | total: 1359 |
| Potenza, United States - 2009 | SSI | bundle - normothermia | Organizational Change, Provider Education, Provider Reminder Systems | a team addressing SCIP guidelines | All Clinical Staff | 1 | 1359 |
| Potenza, United States - 2009 | SSI | bundle - glucose control | Organizational Change, Provider Education, Provider Reminder Systems | a team to address SCIP guidelines | All Clinical Staff | 1 | 1359 |
| Potenza, United States - 2009 | SSI | bundle - appropriate hair removal | Organizational Change, Provider Education, Provider Reminder Systems | team responding to SCIP guidelines | All Clinical Staff | 1 | 1359 |
| Rauk, United States - 2010 | SSI | bundle - skin prep and instrument sterilization | Organizational Change, Provider Education | multidisciplinary team | All Clinical Staff | 1 | pre: 441; post: 436 |
| Shimoni, Israel - 2009 | SSI | Empowering surgical nurses | Organizational Change | heads of the obstetrics and anesthesia departments | Nurses |  | pre: 1104; post: 1089 |
| Suchitra, India - 2009 | CAUTI; SSI | Education Program | Provider Education | staff study | Nurses, Physicians ward aides | 3 | pre: 1125; post: 1119 |
| Takahashi, Japan - 2010 | SSI | Departmental Education | Audit and Feedback, Organizational Change, Provider Education | Antimicrobial stewardship team, study staff | All Clinical Staff | 1 | pre: 1627; post: 1627 |
| Wax, United States - 2007 | SSI | Electronic reminder for provider | Provider Reminder Systems | Study staff | anesthesia practitioners | 1 | pre: 4987; post: 9478 |
| Whitman, United States - 2008 | SSI | Multiple ‘forced functions’ | Audit and Feedback, Organizational Change, Provider Education, Provider Reminder Systems | Temple University Hospital administration, surgical chairs, study staff | Nurses, Physicians residents, faculty | 1 | total: 1622 |
| Willemsen, Netherlands - 2007 | SSI | standardized antibiotic protocol | Organizational Change, Provider Education | multidisciplinary team | All Clinical Staff | 1 | pre: 153; post: 147 |
| Zvonar, Canada - 2008 | SSI | Appropriate antibiotic prophylaxis administration | Audit and Feedback, Organizational Change, Provider Education | Multidisciplinary team | All Clinical Staff Anesthesiology providers | 1 |  |