**BJS10443**

**Meta-analysis of the economic impact on the National Health Service (England) following the introduction of absorbable antimicrobial sutures**

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**Table S1** Database searches

|  |  |  |
| --- | --- | --- |
| No. | Searches | Results |
| 1 | (Anti-Infective or anti-infective or Anti-infective).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 67 839 |
| 2 | (Antimicrobial or antimicrobial or anti-microbial).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 265 176 |
| 3 | (Antibacterial or antibacterial or Anti-bacterial or anti-bacterial).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 388 482 |
| 4 | 1 or 2 or 3 | 616 682 |
| 5 | (Triclosan or triclosan or triclosan-coated).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 7042 |
| 6 | 4 or 5 | 620 777 |
| 7 | surgical wound infection.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 33 713 |
| 8 | (surgical site infection\* or Surgical site infection\* or SSI\*).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 23 350 |
| 9 | surg\* infect\*.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 29 832 |
| 10 | 7 or 8 or 9 | 73 616 |
| 11 | 6 and 10 | 10 632 |
| 12 | limit 11 to yr="2005 -Current" | 5503 |
| 13 | (sutur\* or Sutur\*).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 169 742 |
| 14 | suture technique.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 3710 |
| 15 | 13 or 14 | 169 742 |
| 16 | 12 and 15 | 348 |
| 17 | patient\*.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fs, nm, kf, px, rx, ui] | 12 040 901 |
| 18 | 16 and 17 | 229 |
| 19 | remove duplicates from 18 | 163 |

Embase 1996 to 2016 Week 40, Ovid MEDLINE In-Process and Other Non-Indexed Citations, Ovid MEDLINE Daily and Ovid MEDLINE 1946 to present, Ovid MEDLINE Epub Ahead of Print 5 October 2016.

**Table S2** Categorization of surgical sites

|  |  |  |
| --- | --- | --- |
| Description | Included sites | References |
| Mix of wound types (data not provided separately for each wound type) | Abdominal closure | Justinger *et al.* (2013)36 |
| Hepatobiliary surgery | Justinger *et al.* (2011)35 |
| Multiple surgery wound sites | Ford *et al.* (2005)9; Renko *et al.* (2016)46 |
| Midline laparotomy | Justinger *et al.* (2009)34 |
| Undefined | Diener *et al.* (2014)27 |
| Clean | Radical mastectomy | Zhang *et al.* (2011)57 |
| Breast cancer surgery | Williams *et al.* (2011)55; Laas *et al.* (2012)38 |
| Spinal surgery | Ueno *et al.* (2015)54 |
| Lower-limb revascularization | Turtiainen *et al.* (2012)53 |
| Sternotomy | Stadler and Fleck (2011)50 |
| Open vein harvesting leg wound closure | Seim *et al.* (2012)49 |
| Cardiac operations, including leg wound | Isik *et al.* (2012)33; Steingrimsson *et al.* (2015)51 |
| Multiple clean operations | Galal *et al.* (2011)29 |
| Clean-contaminated | Cerebrospinal fluid shunt infection | Rozzelle *et al.* (2008)47 |
| Abdominal wall | Takeno *et al.* (2016)52; Rasic *et al.* (2011)45; Olmez and Colak (2015)44 |
| Pancreaticoduodecteomy | Okada *et al.* (2014)43 |
| Appendicectomy | Mingmalairak *et al.* (2009)40 |
| Colorectal surgery | Mattavelli *et al.* (2015)39; Diener *et al.* (2014)27; Baracs *et al.* (2011)24; Fraccalvieri *et al.* (2014)28; Nakamura *et al.* (2013)41; Nakamura *et al.* (2016)42; Huszar *et al.* (2012)32; Rasic *et al.* (2011)45; Yamashita *et al.* (2016)56 |
| Digestive tract surgery | Hoshino *et al.* (2013)31 |
| Vaginal prolapse | Hedde-Parison *et al.* (2013)30 |
| Head and neck cancer surgery | Chen *et al.* (2011)25 |
| Upper gastrointestinal | Diener *et al.* (2014)27 |
| Hepatopancreatobiliary surgery | Diener *et al.* (2014)27 |
| Multiple clean-contaminated operations | Galal *et al.* (2011)29 |
| Abdominal wall in patients with faecal peritonitis | Ruiz-Tovar *et al.* (2015)48 |
| Contaminated and dirty | Pilonidal sinus surgery | Karip *et al.* (2016)37 |
| Multiple contaminated operations | Galal *et al.* (2011)29 |