

Appendix 1: Search strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to September 06, 2018>

Search Strategy:

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- 1 exp cardiac surgical procedures/ (200938)
 - 2 exp Heart Diseases/su [Surgery] (156583)
 - 3 Heart Neoplasms/su [Surgery] (4760)
 - 4 ((cardiac or heart or coronary or cardiovascular) adj2 surg*).tw. (67075)
 - 5 (cardiac surg* or heart surg*).kw. (7445)
 - 6 ((cardiothoracic or cardio thoracic) adj2 (surg* or resection)).tw. (3248)
 - 7 (cardiothoracic surg* or cardi-thoracic surg*).kw. (151)
 - 8 ((cardiac or heart) adj2 transplant*).tw. (31061)
 - 9 exp Heart Valves/su [Surgery] (28200)
 - 10 exp Heart Defects, Congenital/su [Surgery] (45282)
 - 11 (valv* adj2 (repair or replacement or implant* or annuloplasty)).tw. (39378)
 - 12 (coronary artery bypass graft* or coronary artery bypass surgery or CABG).tw,kw. (38366)
 - 13 (aortocoronary adj2 (bypass or graft*)).tw. (2745)
 - 14 pericardectom*.tw,kw. (300)
 - 15 cardiomyoplast*.tw,kw. (842)
 - 16 myectom*.tw,kw. (1504)
 - 17 or/1-16 (343953)
 - 18 ((sex or gender) adj2 (difference* or disparit*)).tw. (70531)
 - 19 (gender difference* or gender based or gender specific).tw,kw. (39305)
 - 20 (sex or gender or women or men or female or male).ti. (548983)
 - 21 Physicians, Women/ (5625)
 - 22 ((female or women or male) adj3 (surgeon* or physician* or an?esthesiologist* or an?esthetist*)).tw. (5058)
 - 23 female gender.tw. (14006)
 - 24 male gender.tw. (13788)
 - 25 or/18-24 (616019)
 - 26 perioperative care/ or perioperative period/ or intraoperative period/ or postoperative period/ or preoperative period/ (75044)
 - 27 (preoperative* or pre-operative* or perioperative* or peri-operative* or intraoperative* or intra-operative* or postoperative* or post-operative*).tw,kw. (773968)
 - 28 (postoperative* or post-operative* or postsurg* or post-surg*).tw,kw. (552307)
 - 29 Postoperative Complications/ (336691)
 - 30 or/26-29 (1009987)
 - 31 17 and 25 and 30 (1185)
 - 32 ((post or following or after) adj3 (cardiac surg* or heart surg* or coronary surg* or cardiovascular surg* or cardiothoracic surg* or cardio-thoracic surg* or cardiac transplant* or heart transplant* or CABG or myectom* or cardiomyoplast* or pericardectom* or coronary artery bypass surg* or coronary artery bypass graft*)).tw. (33888)
 - 33 25 and 32 (643)
 - 34 31 or 33 (1432)
 - 35 animals/ not humans/ (4462509)
 - 36 34 not 35 (1429)
 - 37 case reports.pt. (1895280)
 - 38 **36 not 37 (1367)**

**Database: Embase Classic+Embase <1947 to 2018 September 6>
Search Strategy:**

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- 1 exp *heart surgery/ (185030)
 - 2 ((cardiac or heart or coronary or cardiovascular) adj2 surg*).tw. (95608)
 - 3 ((cardiothoracic or cardio thoracic) adj2 (surg* or resection)).tw. (10404)
 - 4 ((cardiac or heart) adj2 transplant*).tw. (48320)
 - 5 (valv* adj2 (repair or replacement or implant* or annuloplasty)).tw. (59368)
 - 6 (coronary artery bypass graft* or coronary artery bypass surgery or CABG).tw. (55469)
 - 7 (aortocoronary adj2 (bypass or graft*)).tw. (3137)
 - 8 pericardectom*.tw. (485)
 - 9 cardiomyoplast*.tw. (993)
 - 10 myectom*.tw. (2067)
 - 11 or/1-10 (306709)
 - 12 *sex difference/ (36769)
 - 13 ((sex or gender) adj2 (difference* or disparit*)).tw. (93875)
 - 14 (gender difference* or gender based or gender specific).tw. (51324)
 - 15 (sex or gender or women or men or female or male).ti. (686782)
 - 16 female physician/ (4639)
 - 17 ((female or women or male) adj3 (surgeon* or physician* or an?esthesiologist* or an?esthetist*)).tw. (6274)
 - 18 (female gender or male gender).tw. (45514)
 - 19 or/12-18 (789727)
 - 20 perioperative period/ (41769)
 - 21 preoperative period/ or preoperative care/ (85168)
 - 22 intraoperative period/ (35068)
 - 23 postoperative period/ (189526)
 - 24 (preoperative* or pre-operative* or perioperative* or peri-operative* or intraoperative* or intra-operative* or postoperative* or post-operative*).tw. (1088663)
 - 25 (postoperative* or post-operative* or postsurg* or post-surg*).tw. (783471)
 - 26 *postoperative complication/ (64743)
 - 27 or/20-26 (1247931)
 - 28 11 and 19 and 27 (1414)
 - 29 ((post or following or after) adj3 (cardiac surg* or heart surg* or coronary surg* or cardiovascular surg* or cardiothoracic surg* or cardio-thoracic surg* or cardiac transplant* or heart transplant* or CABG or myectom* or cardiomyoplast* or pericardectom* or coronary artery bypass surg* or coronary artery bypass graft*)).tw. (49291)
 - 30 19 and 29 (1026)
 - 31 28 or 30 (1899)
 - 32 case report/ (2364953)
 - 33 31 not 32 (1835)
 - 34 animals/ not humans/ (1320229)
 - 35 **33 not 34 (1833)**

Database: PsycINFO <1806 to September Week 1 2018>**Search Strategy:**

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- 1 Heart Surgery/ (1440)
 - 2 ((cardiac or heart or coronary or cardiovascular) adj2 surg*).tw. (1427)
 - 3 ((cardiothoracic or cardio thoracic) adj2 (surg* or resection)).tw. (51)
 - 4 ((cardiac or heart) adj2 transplant*).tw. (450)
 - 5 (valv* adj2 (repair or replacement or implant* or annuloplasty)).tw. (118)
 - 6 (coronary artery bypass graft* or coronary artery bypass surgery or CABG).tw,kw. (837)
 - 7 (aortocoronary adj2 (bypass or graft*)).tw. (9)
 - 8 pericardectom*.tw,kw. (0)
 - 9 cardiomyoplast*.tw,kw. (0)
 - 10 myectom*.tw,kw. (1)
 - 11 or/1-10 (2726)
 - 12 Human Sex Differences/ (107002)
 - 13 ((sex or gender) adj2 (difference* or disparit*)).tw. (77653)
 - 14 (gender difference* or gender based or gender specific).tw,kw. (48241)
 - 15 HUMAN FEMALES/ (87482)
 - 16 (sex or gender or women or men or female or male).ti. (219801)
 - 17 ((female or women or male) adj3 (surgeon* or physician* or an?esthesiologist* or an?esthetist*)).tw. (1337)
 - 18 female gender.tw. (3363)
 - 19 male gender.tw. (2936)
 - 20 or/12-19 (328932)
 - 21 11 and 20 (174)
 - 22 Surgical Patients/ or Surgery/ (14030)
 - 23 (preoperative* or pre-operative* or perioperative* or peri-operative* or intraoperative* or intra-operative* or postoperative* or post-operative*).tw,kw. (12886)
 - 24 (postoperative* or post-operative* or postsurg* or post-surg*).tw,kw. (11666)
 - 25 Postsurgical Complications/ (825)
 - 26 or/22-25 (23936)
 - 27 21 and 26 (74)
 - 28 ((post or following or after) adj3 (cardiac surg* or heart surg* or coronary surg* or cardiovascular surg* or cardiothoracic surg* or cardio-thoracic surg* or cardiac transplant* or heart transplant* or CABG or myectom* or cardiomyoplast* or pericardectom* or coronary artery bypass surg* or coronary artery bypass graft*)).tw. (870)
 - 29 21 and 28 (59)
 - 30 27 or 29 (96)