Supplementary material

Supplementary Table 1 Keywords used in the search strategy

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| --- | --- | --- |
| Population | Context | Setting |
| Female\*  Women  Mother\* | Surgeon\*  Surgery\*  Orthopedic surgeon\*  Orthopaedic surgeon\*  Neurosurgeon\*  Oral and maxillofacial surgeon\*  Cardiovascular surgeon\*  Heart surgeon\*  Colorectal surgeon\*  Vascular surgeon\*  Breast surgeon\*  Plastic surgeon\*  Cosmetic surgeon\*  Urological surgeon\*  Pediatric surgeon\*  Trauma surgeon\*  Gastrointestinal surgeon\* Vascular surgeon\*  ENT surgeon\*  Ophthalmologist\*  Endocrine surgeon\*  Surgeon sex\*  Surgical residents  Surgical residency  Surgical training | Arab countr\*  Algeria  Bahrain  Comos  Djibouti  Egypt  Iraq  Jordan  Kuwait  Lebanon  Libya  Mauritania  Morocco  Oman  Palestine  Qatar  Saudi Arabia  Saudi\*  KSA  Somalia  Sudan  Syria  Tunisia  United Arab Emirates  UAE  Emirat\*  Yemen |

Supplementary Table 2

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| --- | --- | --- |
| **Database** | **Search strategy** | **Number of studies** |
| Pubmed | #1 (((female\*[Title/Abstract]) OR (women[Title/Abstract])) OR (woman[Title/Abstract])) OR (mother\*[Title/Abstract])  #2 ((((((((((((((((((((((((surgeon\*[Title]) OR (surgery[Title])) OR ("orthopedic surgeon\*"[Title])) OR ("orthopaedic surgeon\*"[Title])) OR (neurosurgeon\*[Title])) OR ("oral and maxillofacial surgeon\*"[Title])) OR ("cardiovascular surgeon\*"[Title])) OR ("heart surgeon\*"[Title])) OR ("colorectal surgeon\*"[Title])) OR ("vascular surgeon\*"[Title])) OR ("breast surgeon\*"[Title])) OR ("plastic surgeon\*"[Title])) OR ("cosmetic surgeon\*"[Title])) OR ("urological surgeon\*"[Title])) OR ("pediatric surgeon\*"[Title])) OR ("trauma surgeon\*"[Title])) OR ("gastrointestinal surgeon\*"[Title])) OR ("vascular surgeon\*"[Title])) OR ("ENT surgeon\*"[Title])) OR (ophthalmologist\*[Title])) OR ("endocrine surgeon\*"[Title])) OR ("surgeon sex\*"[Title])) OR ("surgical resident\*"[Title]) OR ("surgical residency"[Title]) OR ("surgical training"[Title]) OR ("surgery resident\*"[Title])) OR ("surgery residency"[Title])) OR ("surgery training"[Title])  #3 (((((((((((((((((((((((((("Arab countr\*"[Title/Abstract]) OR (Algeria[Title/Abstract])) OR (Bahrain[Title/Abstract])) OR (Comoros[Title/Abstract])) OR (Djibouti[Title/Abstract])) OR (Egypt[Title/Abstract])) OR (Iraq[Title/Abstract])) OR (Jordan[Title/Abstract])) OR (Kuwait[Title/Abstract])) OR (Lebanon[Title/Abstract])) OR (Libya[Title/Abstract])) OR (Mauritania[Title/Abstract])) OR (Morocco[Title/Abstract])) OR (Oman[Title/Abstract])) OR (Palestine[Title/Abstract])) OR (Qatar[Title/Abstract])) OR ("Saudi Arabia"[Title/Abstract])) OR (KSA[Title/Abstract])) OR (Somalia[Title/Abstract])) OR (Sudan[Title/Abstract])) OR (Syria[Title/Abstract])) OR (Tunisia[Title/Abstract])) OR (UAE[Title/Abstract])) OR ("United Arab Emirates"[Title/Abstract])) OR (Emirat\*[Title/Abstract])) OR (Yemen[Title/Abstract]))  #4 ((#1) AND (#2)) AND (#3)  Filter: English | 226 |
| Embase | #1 female\*:ab,ti OR women:ab,ti OR woman:ab,ti OR mother\*:ab,ti  #2 surgeon\*:ti OR surgery:ti OR 'orthopedic surgeon\*':ti OR 'orthopaedic surgeon\*':ti OR neurosurgeon\*:ti OR 'oral and maxillofacial surgeon\*':ti OR 'cardiovascular surgeon\*':ti OR 'heart surgeon\*':ti OR 'colorectal surgeon\*':ti OR 'breast surgeon\*':ti OR 'plastic surgeon\*':ti OR 'cosmetic surgeon\*':ti OR 'urological surgeon\*':ti OR 'pediatric surgeon\*':ti OR 'trauma surgeon\*':ti OR 'gastrointestinal surgeon\*':ti OR 'vascular surgeon\*':ti OR 'ent surgeon\*':ti OR ophthalmologist\*:ti OR 'endocrine surgeon\*':ti OR 'surgeon sex\*':ti OR 'surgical resident\*':ti OR 'surgical residency':ti OR 'surgical training':ti OR 'surgery resident\*':ti OR 'surgery residency':ti OR 'surgery training':ti  #3 'arab countr\*':ab,ti OR algeria:ab,ti OR bahrain:ab,ti OR comoros:ab,ti OR djibouti:ab,ti OR egypt:ab,ti OR iraq:ab,ti OR jordan:ab,ti OR kuwait:ab,ti OR lebanon:ab,ti OR libya:ab,ti OR mauritania:ab,ti OR morocco:ab,ti OR oman:ab,ti OR palestine:ab,ti OR qatar:ab,ti OR 'saudi arabia':ab,ti OR ksa:ab,ti OR somalia:ab,ti OR sudan:ab,ti OR syria:ab,ti OR tunisia:ab,ti OR uae:ab,ti OR 'united arab emirates':ab,ti OR emirat\*:ab,ti OR yemen:ab,ti  #4 #1 AND #2 AND #3  Filter: English | 339 |
| Web of science | #1 "(((AB=(female\*)) OR AB=(women)) OR AB=(woman)) OR AB=(mother\*)"  #2 "(((((((((((((((((((((((((((TI=( surgeon\* )) OR TI=( surgery )) OR TI=( ""orthopedic surgeon\*"" )) OR TI=( ""orthopaedic surgeon\*"" )) OR TI=( neurosurgeon\* )) OR TI=( ""oral and maxillofacial surgeon\*"" )) OR TI=( ""cardiovascular surgeon\*"" )) OR TI=( ""heart surgeon\*"" )) OR TI=( ""colorectal surgeon\*"" )) OR TI=( ""vascular surgeon\*"" )) OR TI=( ""breast surgeon\*"" )) OR TI=( ""plastic surgeon\*"" )) OR TI=( ""cosmetic surgeon\*"" )) OR TI=( ""urological surgeon\*"" )) OR TI=( ""pediatric surgeon\*"" )) OR TI=( ""trauma surgeon\*"" )) OR TI=( ""gastrointestinal surgeon\*"" )) OR TI=( ""vascular surgeon\*"" )) OR TI=( ""ENT surgeon\*"" )) OR TI=( ophthalmologist\* )) OR TI=( ""endocrine surgeon\*"" )) OR TI=( ""surgeon sex\*"" )) OR TI=( ""surgical resident\*"" )) OR TI=( ""surgical residency"" )) OR TI=( ""surgical training"" )) OR TI=( ""surgery resident\*"" )) OR TI=( ""surgery residency"" )) OR TI=( ""surgery training"" )"  #3 "(((((((((((((((((((((((((AB=( ""Arab countr\*"" )) OR AB=( algeria )) OR AB=( bahrain )) OR AB=( comoros )) OR AB=( djibouti )) OR AB=( egypt )) OR AB=( iraq )) OR AB=( jordan )) OR AB=( kuwait )) OR AB=( lebanon )) OR AB=( libya )) OR AB=( mauritania )) OR AB=( morocco )) OR AB=( oman )) OR AB=( palestine )) OR AB=( qatar )) OR AB=( ""Saudi Arabia"" )) OR AB=( ksa )) OR AB=( somalia )) OR AB=( sudan )) OR AB=( syria )) OR AB=( tunisia )) OR AB=( uae )) OR AB=( ""United Arab Emirates"" )) OR AB=( emirat\* )) OR AB=( yemen )"  #4 "#3 AND #2 AND #1"  Filter: English | 198 |
| SCOPUS | TITLE-ABS(female\* OR women OR woman OR mother\* ) AND TITLE( surgeon\* OR surgery OR "orthopedic surgeon\*" OR "orthopaedic surgeon\*" OR neurosurgeon\* OR "oral and maxillofacial surgeon\*" OR "cardiovascular surgeon\*" OR "heart surgeon\*" OR "colorectal surgeon\*" OR "vascular surgeon\*" OR "breast surgeon\*" OR "plastic surgeon\*" OR "cosmetic surgeon\*" OR "urological surgeon\*" OR "pediatric surgeon\*" OR "trauma surgeon\*" OR "gastrointestinal surgeon\*" OR "vascular surgeon\*" OR "ENT surgeon\*" OR ophthalmologist\* OR "endocrine surgeon\*" OR "surgeon sex\*" OR "surgical resident\*" OR "surgical residency" OR "surgical training" OR "surgery resident\*" OR "surgery residency" OR "surgery training" ) AND TITLE-ABS("Arab countr\*" OR algeria OR bahrain OR comoros OR djibouti OR egypt OR iraq OR jordan OR kuwait OR lebanon OR libya OR mauritania OR morocco OR oman OR palestine OR qatar OR "Saudi Arabia" OR ksa OR somalia OR sudan OR syria OR tunisia OR uae OR "United Arab Emirates" OR emirat\* OR yemen) | 249 |
| ProQuest | summary(Female\* OR Women OR Woman OR Mother\*) AND title(surgeon\* OR surgery OR "orthopedic surgeon\*" OR "orthopaedic surgeon\*" OR neurosurgeon\* OR "oral and maxillofacial surgeon\*" OR "cardiovascular surgeon\*" OR "heart surgeon\*" OR "colorectal surgeon\*" OR "vascular surgeon\*" OR "breast surgeon\*" OR "plastic surgeon\*" OR "cosmetic surgeon\*" OR "urological surgeon\*" OR "pediatric surgeon\*" OR "trauma surgeon\*" OR "gastrointestinal surgeon\*" OR "vascular surgeon\*" OR "ENT surgeon\*" OR ophthalmologist\* OR "endocrine surgeon\*" OR "surgeon sex\*" OR "surgical resident\*" OR "surgical residency" OR "surgical training" OR "surgery resident\*" OR "surgery residency" OR "surgery training" ) AND summary("Arab countr\*" OR algeria OR bahrain OR comoros OR djibouti OR egypt OR iraq OR jordan OR kuwait OR lebanon OR libya OR mauritania OR morocco OR oman OR palestine OR qatar OR "Saudi Arabia" OR ksa OR somalia OR sudan OR syria OR tunisia OR uae OR "United Arab Emirates" OR emirat\* OR yemen) | 362 |
| Total | All databases +google scholar and reference lists | 1,383 |