**Supplemental appendix 1. MEDLINE Search strategy**

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| **User query:** |
| penicillin\* AND (cephalosporin\* OR cefazolin) AND (allergy OR allergies OR anaphylaxis) AND (surgery OR surgical OR perioperative)) AND ( ( "1994/01/01"[PDat] : "3000/12/31"[PDat] ) AND English[lang]) |

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| **Translations:** |
| |  |  | | --- | --- | | cefazolin | "cefazolin"[MeSH Terms] OR "cefazolin"[All Fields] | | allergy | "hypersensitivity"[MeSH Terms] OR "hypersensitivity"[All Fields] OR "allergy"[All Fields] OR "allergy and immunology"[MeSH Terms] OR ("allergy"[All Fields] AND "immunology"[All Fields]) OR "allergy and immunology"[All Fields] | | allergies | "hypersensitivity"[MeSH Terms] OR "hypersensitivity"[All Fields] OR "allergies"[All Fields] | | anaphylaxis | "anaphylaxis"[MeSH Terms] OR "anaphylaxis"[All Fields] | | surgery | "surgery"[Subheading] OR "surgery"[All Fields] OR "surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "surgery"[All Fields] OR "general surgery"[MeSH Terms] OR ("general"[All Fields] AND "surgery"[All Fields]) OR "general surgery"[All Fields] | | surgical | "surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "surgical"[All Fields] | |

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procedures"[All Fields] OR "surgery"[All Fields] OR "general surgery"[MeSH Terms] OR ("general"[All Fields] AND "surgery"[All Fields]) OR "general surgery"[All Fields]) OR ("surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "surgical"[All Fields]) OR perioperative[All Fields]) AND (("1994/01/01"[PDAT] : "3000/12/31"[PDAT]) AND English[lang])