**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:** |
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| 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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(penicillin[All Fields] OR penicillin'[All Fields] OR penicillin'e[All Fields] OR penicillin'es[All Fields] OR penicillin'in[All Fields] OR penicillin'lere[All Fields] OR penicillin's[All Fields] OR penicillin9e[All Fields] OR penicillina[All Fields] OR penicillinace[All Fields] OR penicillinacylase[All Fields] OR penicillinacylases[All Fields] OR penicillinadrenalinolemulsionen[All Fields] OR penicillinaemia[All Fields] OR penicillinaerosol[All Fields] OR penicillinaerosols[All Fields] OR penicillinailergie[All Fields] OR penicillinalergie[All Fields] OR penicillinallergi[All Fields] OR penicillinallergic[All Fields] OR penicillinallergie[All Fields] OR penicillinallergien[All Fields] OR penicillinallergiker[All Fields] OR penicillinallergikern[All Fields] OR penicillinalpha[All Fields] OR penicillinamidas[All Fields] OR penicillinamidase[All Fields] OR penicillinamidases[All Fields] OR penicillinamidohydrolase[All Fields] OR penicillinamin[All Fields] OR penicillinaminamide[All 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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])