S1 Appendix: Search strategy

Database search
PubMed
Key Words: (((needlestick*[Title] OR needle-stick*[Title] OR sharp*[Title] OR 'body fluid exposure'[Title] OR 'blood exposure'[Title])) AND (cost*[Title/Abstract] OR burden*[Title/Abstract] OR 'economic evaluation'[Title/Abstract] OR QALY*[Title/Abstract] OR Societal*[Title/Abstract] OR Utiliti*[Title/Abstract] OR 'resource use'[Title/Abstract])))
Country: no limitation
Language: English and Japanese
Year of Publication: no limitation
Search Date: 21st October, 2018
Ichushi
Key Words: 針刺し [TI]
Country: Japanese study
Language: English and Japanese
Year of Publication: no limitation
Search Date: 21st October, 2018

Grey search
1. Journal of Exposure; the International Healthcare Worker Safety Center
2. The Journal of Japan Society for Health Care Management (2001~2002); International Association of Risk Management in Medicine
3. The database of funded studies; the Ministry of Health, Labour and Welfare
*following journals/academic societies are confirmed to be included in either PubMed or Ichushi
➢ Value in Health; The International Society of Pharmaceutical and Outcomes Research
➢ Value in Health regional issues; The International Society of Pharmaceutical and Outcomes Research
➢ International Journal of Technology Assessment in Health Care; Health Technology Assessment International
➢ Japanese Society for Infection Prevention and Control
➢ The Japanese Association for Infectious Diseases
➢ Japan Society of Clinical Safety
➢ Healthcare and Safety; Japan Society of Clinical Safety
➢ The Journal of Japan Society for Health Care Management (2003~); International Association of Risk Management in Medicine
➢ The Journal of Japan Society for Health Care Management; International Association of Risk Management in Medicine
➢ Japanese Nursing Association (series of publications)
➢ Journal of Japan Academy of Nursing Science; Japan Academy of Nursing Science
➢ Proceedings of the Academic Conference, Japan Academy of Nursing Science; Japan Academy of Nursing Science
➢ Journal of Japan Operative Nursing Academy; Japan Operative Nursing Academy
➢ Japanese Society of Medical Instrumentation
➢ Japanese Journal of Infectious Diseases
➢ Infection Control;

Snowball search
By visiting all relative studies identified in the articles went through full-text review