

Supplementary materials

Search strategy for systematic reviews:

Pubmed:

1. (((((((((((((Meta-Analysis as Topic[Mesh])) OR ((meta analy*[TIAB])) OR ((metaanaly*[TIAB])) OR ((Meta-Analysis[Publication Type])) OR ((systematic review*[TIAB] OR systematic overview*[TIAB])) OR ((Review Literature as Topic[Mesh])) OR ((cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR science citation index[TIAB] OR bids[TIAB] OR cancerlit[TIAB])) OR ((reference list*[TIAB] OR bibliograph*[TIAB] OR hand-search*[TIAB] OR relevant journals[TIAB] OR manual search*[TIAB])) OR (((selection criteria[TIAB] OR data extraction[TIAB])) AND ((Review[PT]))))) NOT ((Comment[PT] OR Letter[PT] OR Editorial[PT] OR animal[Mesh] NOT (animal[Mesh] AND human[Mesh]))))
2. "Blood Donors"[Mesh] OR blood don*[TIAB] OR "Blood Banks"[Mesh] OR blood bank*[TIAB] OR blood centre*[TIAB] OR blood center*[TIAB] OR blood service*[TIAB] OR blood collection[TIAB] OR blood withdrawal[TIAB]
3. "Risk factors"[Mesh] OR risk factor*[TIAB] OR "risk assessment"[Mesh:NoExp] OR risk[TIAB] OR deferral*[TIAB] OR referral*[TIAB] OR exclusion*[TIAB] OR "donor selection"[Mesh] OR "donation history"[TIAB] OR "donation status"[TIAB] OR "eligibility determination"[Mesh] OR eligib*[TIAB] OR ineligib*[TIAB] OR "medical questionnaire"[TIAB] OR "medical history"[TIAB] OR "donor selection"[TIAB]
4. 1-4 AND

Search strategy for primary studies:

Pubmed:

1. "Blood Donors"[Mesh] OR blood don*[TIAB] OR "Blood Banks"[Mesh] OR blood bank*[TIAB] OR blood centre*[TIAB] OR blood center*[TIAB] OR blood service*[TIAB] OR blood collection[TIAB] OR blood withdrawal[TIAB]
2. "Risk factors"[Mesh] OR risk factor*[TIAB] OR "risk assessment"[Mesh:NoExp] OR risk[TIAB] OR deferral*[TIAB] OR referral*[TIAB] OR exclusion*[TIAB] OR "donor selection"[Mesh] OR "donation history"[TIAB] OR "donation status"[TIAB] OR "eligibility determination"[Mesh] OR eligib*[TIAB] OR ineligib*[TIAB] OR "medical questionnaire"[TIAB] OR "medical history"[TIAB] OR "donor selection"[TIAB]
3. (Health[Mesh] OR wellbeing[TIAB] OR "general health"[TIAB] OR hemoglobins[Mesh] OR hemoglobin[TIAB] OR Hb[TIAB] OR hypotension[Mesh] OR hypertension[Mesh] OR "blood pressure"[Mesh] OR hypotens*[TIAB] OR hypertens*[TIAB] OR "blood pressure"[TIAB] OR ("last donation"[TIAB] AND adverse[TIAB]) OR "catastrophic illness"[Mesh] OR "serious illness"[TIAB] OR "hemochromatosis"[Mesh] OR hemochromatos*[TIAB] OR haemochromatos*[TIAB] OR epilepsy[Mesh] OR epilepsy[TIAB] OR "bruise"[TIAB] OR ("shortness of breath"[TIAB] AND exertion[TIAB]) OR "pregnant women"[Mesh] OR pregnancy[Mesh] OR pregnan*[TIAB] OR "dental care"[Mesh] OR "dental care"[TIAB] OR (remov*[TIAB] AND tartar[TIAB]) OR (tooth[TIAB] AND extraction[TIAB]) OR "root canal"[TIAB] OR "Pharmaceutical preparations"[Mesh] OR vaccination[Mesh] OR medication[TIAB] OR vaccin*[TIAB] OR "lymph nodes"[Mesh] OR "lymph nodes"[TIAB] OR "weight loss"[Mesh] OR "weight loss"[TIAB] OR endoscopy[Mesh] OR endoscop*[TIAB] OR "Surgical Procedures, Operative"[Mesh] OR acupuncture[Mesh] OR tattooing[Mesh] OR "body piercing"[Mesh] OR mesotherapy[Mesh] OR pierc*[TIAB] OR needle[TIAB] OR needles[TIAB] OR syringe[TIAB] OR syringes[TIAB] OR tattoo*[TIAB] OR acupuncture[TIAB] OR myofascial[TIAB] OR "permanent make-up"[TIAB] OR mesotherapy[TIAB] OR (accidental[TIAB] AND (prick*[TIAB] OR bite*[TIAB] OR cut[TIAB] OR cuts[TIAB] OR splash*[TIAB])) OR "street drugs"[Mesh] OR drug[TIAB] OR drugs[TIAB] OR Acitretin[Mesh] OR acitretin[TIAB] OR neotigason[TIAB] OR "sexually transmitted diseases"[Mesh]

OR "Treponema pallidum"[Mesh] OR syphilis[TIAB] OR "Treponema pallidum"[TIAB] OR STD[TIAB] OR STI[TIAB] OR "sexually transmitted"[TIAB] OR "transfusion transmissible"[TIAB] OR "Communicable Diseases, Emerging"[Mesh] OR "HIV"[Mesh] OR "human immunodeficiency virus"[TIAB] OR HIV[TIAB] OR AIDS[TIAB] OR "Chlamydia trachomatis"[Mesh] OR Chlamydia[TIAB] OR hepatitis[Mesh] OR "Hepatitis, Viral, Human"[Mesh] OR hepatitis[TIAB] OR HCV[TIAB] OR HBV[TIAB] OR malaria[Mesh] OR "chagas disease"[Mesh] OR malaria[TIAB] OR "Chagas"[TIAB] OR "organ transplantation"[Mesh] OR "blood transfusion"[Mesh] OR "tissue transplantation"[Mesh] OR ((blood[TIAB] OR organ[TIAB] OR tissue[TIAB]) AND transplant*[TIAB]) OR "Substance Abuse, Intravenous"[Mesh] OR (inject*[TIAB] AND drug*[TIAB]) OR "Creutzfeldt-Jakob Syndrome"[Mesh] OR "Creutzfeld-Jacob"[TIAB] OR "human growth hormone"[Mesh] OR "human growth hormone"[TIAB] OR "central nervous system"[Mesh] OR ("central nervous system"[TIAB] AND (surgery[TIAB] OR operation[TIAB])) OR "corneal transplantation"[Mesh] OR ((corneal[TIAB] OR ossicle[TIAB]) AND transplant*[TIAB]) OR "sexual behavior"[Mesh] OR "Homosexuality, Male"[Mesh] OR "sexual partners"[Mesh] OR "sexual behavior"[TIAB] OR "sexual behaviour"[TIAB] OR homosex*[TIAB] OR MSM[TIAB] OR "sexual partner*" [TIAB] OR "travel"[Mesh] OR travel*[TIAB])

4. (("randomized controlled trial"[PT] OR "controlled clinical trial"[PT] OR "clinical trial"[PT] OR "comparative study"[PT] OR "Cross-Over Studies"[Mesh] OR "Intervention Studies"[Mesh] OR random*[TIAB] OR controll*[TIAB] OR "intervention study"[TIAB] OR "experimental study"[TIAB] OR "comparative study"[TIAB] OR trial[TIAB] OR evaluat*[TIAB] OR "Before and after"[TIAB] OR "interrupted time series"[TIAB]) NOT ("animals"[MH] NOT (animals[MH] AND "humans"[MH]))) OR ("Epidemiologic Studies"[Mesh] OR "case control"[TIAB] OR "case-control"[TIAB] OR ((case[TIAB] OR cases[TIAB]) AND (control[TIAB] OR controls[TIAB])) OR "cohort study"[TIAB] OR "cohort analysis"[TIAB] OR "follow up study"[TIAB] OR "follow-up study"[TIAB])

OR “observational study”[TIAB] OR “longitudinal”[TIAB] OR “retrospective”[TIAB] OR “cross sectional”[TIAB] OR “cross-sectional”[TIAB] OR questionnaire[TIAB] OR questionnaires[TIAB] OR survey[TIAB])

5. 1-4 AND

Search strategies for HTA analyses:

Pubmed:

1. “Blood Donors”[Mesh] OR blood don*[TIAB] OR “Blood Banks”[Mesh] OR blood bank*[TIAB] OR blood centre*[TIAB] OR blood center*[TIAB] OR blood service*[TIAB] OR blood collection[TIAB] OR blood withdrawal[TIAB]
2. “Risk factors”[Mesh] OR risk factor*[TIAB] OR “risk assessment”[Mesh:NoExp] OR risk[TIAB] OR deferral*[TIAB] OR referral*[TIAB] OR exclusion*[TIAB] OR “donor selection”[Mesh] OR “donation history”[TIAB] OR “donation status”[TIAB] OR “eligibility determination”[Mesh] OR eligib*[TIAB] OR ineligib*[TIAB] OR “medical questionnaire”[TIAB] OR “medical history”[TIAB] OR “donor selection”[TIAB]
3. (Health[Mesh] OR wellbeing[TIAB] OR “general health”[TIAB] OR hypotension[Mesh] OR hypertension[Mesh] OR “blood pressure”[Mesh] OR hypotens*[TIAB] OR hypertens*[TIAB] OR “blood pressure”[TIAB] OR (“last donation”[TIAB] AND adverse[TIAB]) OR “catastrophic illness”[Mesh] OR “serious illness”[TIAB] OR “hemochromatosis”[Mesh] OR hemochromatos*[TIAB] OR haemochromatos*[TIAB] OR epilepsy[Mesh] OR epilepsy[TIAB] OR “bruise”[TIAB] OR (“shortness of breath”[TIAB] AND exertion[TIAB]) OR “pregnant women”[Mesh] OR pregnancy[Mesh] OR pregnan*[TIAB] OR “dental care”[Mesh] OR “dental care”[TIAB] OR (remov*[TIAB] AND tartar[TIAB]) OR (tooth[TIAB] AND extraction[TIAB]) OR “root canal”[TIAB] OR “Pharmaceutical preparations”[Mesh] OR vaccination[Mesh] OR medication[TIAB] OR vaccin*[TIAB] OR “lymph nodes”[Mesh] OR “lymph nodes”[TIAB] OR “weight loss”[Mesh] OR “weight loss”[TIAB] OR endoscopy[Mesh] OR endoscop*[TIAB] OR "Surgical Procedures, Operative"[Mesh] OR acupuncture[Mesh] OR tattooing[Mesh] OR “body piercing”[Mesh] OR mesotherapy[Mesh] OR

pierc*[TIAB] OR needle[TIAB] OR needles[TIAB] OR syringe[TIAB] OR syringes[TIAB] OR tattoo*[TIAB] OR acupuncture[TIAB] OR myofascial[TIAB] OR "permanent make-up"[TIAB] OR mesotherapy[TIAB] OR (accidental[TIAB] AND (prick*[TIAB] OR bite*[TIAB] OR cut[TIAB] OR cuts[TIAB] OR splash*[TIAB])) OR "street drugs"[Mesh] OR drug[TIAB] OR drugs[TIAB] OR Acitretin[Mesh] OR acitretin[TIAB] OR neotigason[TIAB] OR "sexually transmitted diseases"[Mesh] OR "Treponema pallidum"[Mesh] OR syphilis[TIAB] OR "Treponema pallidum"[TIAB] OR STD[TIAB] OR STI[TIAB] OR "sexually transmitted"[TIAB] OR "transfusion transmissible"[TIAB] OR "Communicable Diseases, Emerging"[Mesh] OR "HIV"[Mesh] OR "human immunodeficiency virus"[TIAB] OR HIV[TIAB] OR AIDS[TIAB] OR "Chlamydia trachomatis"[Mesh] OR Chlamydia[TIAB] OR hepatitis[Mesh] OR "Hepatitis, Viral, Human"[Mesh] OR hepatitis[TIAB] OR HCV[TIAB] OR HBV[TIAB] OR malaria[Mesh] OR "chagas disease"[Mesh] OR malaria[TIAB] OR "Chagas"[TIAB] OR "organ transplantation"[Mesh] OR "blood transfusion"[Mesh] OR "tissue transplantation"[Mesh] OR ((blood[TIAB] OR organ[TIAB] OR tissue[TIAB]) AND transplant*[TIAB]) OR "Substance Abuse, Intravenous"[Mesh] OR (inject*[TIAB] AND drug*[TIAB]) OR "Creutzfeldt-Jakob Syndrome"[Mesh] OR "Creutzfeld-Jacob"[TIAB] OR "human growth hormone"[Mesh] OR "human growth hormone"[TIAB] OR "central nervous system"[Mesh] OR ("central nervous system"[TIAB] AND (surgery[TIAB] OR operation[TIAB])) OR "corneal transplantation"[Mesh] OR ((corneal[TIAB] OR ossicle[TIAB]) AND transplant*[TIAB]) OR "sexual behavior"[Mesh] OR "Homosexuality, Male"[Mesh] OR "sexual partners"[Mesh] OR "sexual behavior"[TIAB] OR "sexual behaviour"[TIAB] OR homosex*[TIAB] OR MSM[TIAB] OR "sexual partner*"[TIAB] OR "travel"[Mesh] OR travel*[TIAB])

4. "cost-benefit analysis"[Mesh] OR "economics, medical"[Mesh] OR "technology assessment, biomedical"[Mesh] OR "economics, pharmaceutical"[Mesh] OR "quality-adjusted life years"[Mesh] OR "costs and cost analysis"[Mesh] OR "cost-benefit"[TIAB] OR "cost benefit"[TIAB] OR "cost-effectiveness"[TIAB] OR "cost effectiveness"[TIAB] OR "costs and

benefits"[TIAB] OR "health economics"[TIAB] OR "medical economics"[TIAB] OR "pharmaceutical economics"[TIAB] OR "health technology assessment"[TIAB] OR "quality adjusted life year"[TIAB] OR "quality-adjusted life year" OR "quality-adjusted life years"[TIAB] OR "quality adjusted life years"[TIAB] OR "QALY"[TIAB]

5. 1-4 AND

CRD Database:

1. Blood Donors OR blood don* OR blood bank* OR blood centre* OR blood center* OR blood service* OR blood collection OR blood withdrawal
2. Risk factor*[TIAB] OR risk OR deferral* OR referral* OR exclusion* OR "donor selection" OR "donation history" OR "donation status" OR "eligibility determination" OR eligib* OR ineligib* OR "medical questionnaire" OR "medical history" OR "donor selection"
3. 1-2 AND

Search strategy for HTA studies on all blood bank safety measures:

Pubmed:

1. "Blood Donors"[Mesh] OR blood don*[TIAB] OR "Blood Banks"[Mesh] OR blood bank*[TIAB] OR blood centre*[TIAB] OR blood center*[TIAB] OR blood service*[TIAB] OR blood collection[TIAB] OR blood withdrawal[TIAB]
2. "cost-benefit analysis"[Mesh] OR "economics, medical"[Mesh] OR "technology assessment, biomedical"[Mesh] OR "economics, pharmaceutical"[Mesh] OR "quality-adjusted life years"[Mesh] OR "costs and cost analysis"[Mesh] OR "cost-benefit"[TIAB] OR "cost benefit"[TIAB] OR "cost-effectiveness"[TIAB] OR "cost effectiveness"[TIAB] OR "costs and benefits"[TIAB] OR "health economics"[TIAB] OR "medical economics"[TIAB] OR "pharmaceutical economics"[TIAB] OR "health technology assessment"[TIAB] OR "quality adjusted life

year”[TIAB] OR “quality-adjusted life year” OR “quality-adjusted life years”[TIAB] OR “quality adjusted life years”[TIAB] OR “QALY”[TIAB]

3. 1 AND 2