American Society of Hematology Guidelines for Sickle Cell Disease: Transfusion Support

**Supplement 4: Search Strategies**

Recommendations 1-10: Transfusion Support

**Question 1**

Ovid

Database(s): Embase 1988 to 2017 Week 28, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Search Strategy:

<table>
<thead>
<tr>
<th>#</th>
<th>Searches</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>exp Anemia, Sickle Cell/ ((drepanocytic or &quot;haemoglobin s&quot; or &quot;hemoglobin s&quot; or &quot;Hb SS&quot; or hbs or sickle or &quot;sickle cell&quot; or sickling or ss) adj2 (anaemia* or anemia* or disease* or disorder*)) or drepanocytetia* or drepanocytoses or drepanocytosis or &quot;haemoglobin SS&quot; or &quot;hemoglobin SS&quot; or meniscocytoses or meniscocytosis).ti,ab,hw,kw.</td>
<td>46215</td>
</tr>
<tr>
<td>2</td>
<td>exp Erythrocytes/ (erythrocyte* or &quot;erythrocytic cell*&quot; or RBC or &quot;red blood cell*&quot; or &quot;red blood corpuscle*&quot; or &quot;red cell&quot; or &quot;red cells&quot;).ti,ab,hw,kw.</td>
<td>50946</td>
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<tr>
<td>3</td>
<td>exp Erythrocyte Transfusion/</td>
<td>53337</td>
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<tr>
<td>4</td>
<td>exp Blood Transfusion/</td>
<td>275968</td>
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<tr>
<td>5</td>
<td>exp Blood Donors/</td>
<td>28207</td>
</tr>
<tr>
<td>6</td>
<td>exp Molecular Typing/</td>
<td>502316</td>
</tr>
<tr>
<td>7</td>
<td>exp Serotyping/</td>
<td>528939</td>
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<td>exp Serologic Tests/</td>
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<tr>
<td>19</td>
<td>exp Blood Group Antigens/</td>
<td>9341730</td>
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Blood-group* or "Kell Blood-group*" or "Kidd Blood-group*" or "Lewis Blood-group*" or "Lutheran Blood-group*" or "MNSs Blood-group*" or "P Blood-group*" or "Rh-Hr Blood-group*" or serodiagnos* or serologic* or serology or serotyp*).ti,ab,hw,kw.

20 or/14-19
21 13 and 20
22 exp evidence based medicine/
23 exp meta analysis/
24 exp Meta-Analysis as Topic/
25 exp "systematic review"/
26 exp Guideline/ or exp Practice Guideline/
27 exp controlled study/
28 exp Randomized Controlled Trial/
29 exp triple blind procedure/
30 exp Double-Blind Method/
31 exp Single-Blind Method/
32 exp latin square design/
33 exp Placebos/
34 exp Placebo Effect/
35 exp comparative study/
36 exp intervention studies/
37 exp Cross-Sectional Studies/
38 exp Cross-Over Studies/
39 exp Cohort Studies/
40 exp longitudinal study/
41 exp retrospective study/
42 exp prospective study/
43 exp clinical trial/
44 clinical study/
45 exp case-control studies/
46 exp confidence interval/
47 exp multivariate analysis/

(5(evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (double* adj blind*) or (double* adj mask*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease
Question 2

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<td>46215</td>
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<tr>
<td>2</td>
<td>exp Erythrocytes/</td>
<td>50946</td>
</tr>
<tr>
<td>3</td>
<td>1 or 2</td>
<td>53337</td>
</tr>
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<td>4</td>
<td>exp Erythrocyte Transfusion/</td>
<td>275968</td>
</tr>
<tr>
<td>5</td>
<td>exp Erythrocyte Transfusion/</td>
<td>28207</td>
</tr>
</tbody>
</table>
(erythrocyte* or "erythrocytic cell*" or RBC or "red blood cell*" or "red blood corpuscle*" or "red cell" or "red cells").ti,ab,hw,kw.

4 or 5 or 6

exp Blood Transfusion/

exp Blood Donors/

(((plasma or blood or "red cell*") adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemotherap* or "hemo-therap*" or multitransfus* or "plasma exchange*" or polytransfus* or retransfus* or transfus*).ti,ab,hw,kw.

8 or 9 or 10

3 and 7 and 11

exp Isoantibodies/

(((Rh or rhesus or D or C or CC or E or EE or K or Jk or Fy or S or kell or kidd or ABO or RhD or Le or MNS or MNSs or Lewis) and (match* or serolog* or genotyp* or phenotyp* or antibod* or antigen*)) or "allo antibod*" or alloantibod* or alloimmuniz* or isoantibod* or "isophilic antibod*").ti,ab,hw,kw.

13 or 14

12 3 and 7 and 11

exp evidence based medicine/

exp meta analysis/

exp Meta-Analysis as Topic/

exp "systematic review"/

exp Guideline/ or exp Practice Guideline/

exp controlled study/

exp Randomized Controlled Trial/

exp triple blind procedure/

exp Double-Blind Method/

exp Single-Blind Method/

exp latin square design/

exp Placebos/

exp Placebo Effect/

exp comparative study/

exp intervention studies/

exp Cross-Sectional Studies/

exp Cross-Over Studies/

exp Cohort Studies/

exp longitudinal study/

exp retrospective study/

exp prospective study/

exp clinical trial/

clinical study/
((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (double* adj blind*) or (double* adj mask*) or (single* adj blind*) or (single* adj mask*) or (triple* adj blind*) or (triple* adj mask*) or (triplet* adj blind*) or (triplet* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospective* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or ((observation or observational) adj (study or survey or analysis)) or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case compare study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or "time-motion" or review*).mp,pt.

or/17-43

16 and 44

46 limit 45 to english language

47 limit 46 to yr="2010 -Current"

48 or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained]

49 47 not 48

50 remove duplicates from 49
Question 3

Ovid

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<td>53337</td>
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<td>(((plasma or blood or &quot;red cell*&quot;) adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemotherap* or &quot;hemo-therap*&quot; or multitransfus* or &quot;plasma exchange*&quot; or polytransfus* or retransfus* or transfus* or &quot;blood group*&quot;)) adj3 (reaction* or incompatib* or &quot;adverse effect*&quot;)) or ((rapid* or fast* or precocious) adj3 (decline* or reduction) adj3 (hemoglobin* or haemoglobin*)) or haemoglobinuria* or haemolys* or hemoglobinuria* or hemolys* or hyperhaemolys* or hyperhemolys* or jaundice or pallor or &quot;vaso-occlusive cris*&quot;.ti,ab,hw,kw.</td>
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or fluorometholone or fluprednidene or fluprednisolone or fluticasone or formocortol or "formoterol fumarate" or Glucocorticoid* or glucocorticoidsteroid* or glucocorticosteroid* or glucocorticoid* or glyocorticoid* or glycocorticosteroid* or halcinonide or halometasone or halopredone or hydrocortisone or "hydroxy norcortosterone" or hydroxycorticoid* or hydroxycorticosteroid* or hydroxyprogesterone or hydroxydeoxy corticosterone or hydroxyhydrocortisone or "icometasone enbutate" or iso flupredone or itrocinonide or "locicortolone dicitate" or "lorinden a" or "lorinden t" or loteprednol or mepredione or medrysone or meprednisone or mineralcorticosteroid* or mineralocorticosteroid* or mineralocorticoid* or "mometasone furoate" or nicocortonide or nivacortol or nordeoxycorticosterone or oropivalone or oxohydrocortisone or oxycorticosteroid* or paramethasone or prednisolone or prednisone or pregnenolone or proclinonide or promestriene or resocortol or rimexolone or rofleponide or steroid* or tetrahydrodeoxycorticosterone or ticabesone or timobesone or tipredane or tixocortol or triamcinolone or "ulobetasol propionate" or uniderm or zoticasone).ti,ab,hw,kw.

15 exp Immunosuppressive Agents/

(((immunosuppressive or "complement inactivat*" or "complement inhibit*" or "complement cytolysis") adj3 (agent* or drug* or therap* or pharma* or medication* or intervention* or treatment*)) or "6-Mercaptopurine" or Abatacept or abetimus or adalimumab or aldophosphamide or alxn1007 or amsacrine or anifrolumab or anisperimis or "anti TNF agent*" or "anti TNF alpha agent*" or "anti tumor necrosis factor agent*" or "anti tumour necrosis factor agent*" or "Antilymphocyte Serum" or apilimod or ascomycin or aselizumab or atacicept or az begin with B or "Bradykinin B2 Receptor Antagonist*" or briobacept or busulfan or "cd59 antigen*" or cedelizumab or cenerimod or "cenplacel L" or "Certolizumab Pegol" or Cladribine or Coformycin or "Complement C1 Inactivator Protein*" or "Complement C1 Inhibitor Protein*" or "Complement C3 Nephritic Factor*" or "Complement C3b Inactivator Protein*" or "Complement C4b-Binding Protein*" or "complement component C4b binding protein*" or "complement component C5 inhibitor*" or "Complement Factor H" or "Complement Factor I" or "complement inactivator*" or "complement inhibitor*" or Cyclophosphamide or cyclosporin* or Cyclosporine or Cytrarabine or daciluzumab or defosilimod or "dehydroidemnin B" or denosumab or dexamethasone or "didemnin A" or "didemnin B" or "dihydrcyclosporin A" or "Dimethyl Fumarate" or "dorlimomab aritox" or edratide or efalizumab or eldelumab or Ellipticines or elsilimomab or emapalumab or enlimomab or erli zumab or Etanercept or etrasimod or Everolimus or faralimomab or fexakinumab or fingolimod or Fluorouracil or fontolizumab or forgerimod or forodesine or "fr 900523" or "fr 900525" or glatinamer or Glutidox or "homologous restriction factor 20" or hrf20 or "imilecleucel t" or immunosuppressant* or immunosuppressor* or infliximab or inolimomab or "interleukin 2 receptor antibod*" or irinotecan or laflunimus or lebrikizumab or leflunomide or "liji 1082" or macif or malononitrilamide or manitimus or masilmomab or Melphalan or "membrane attack complex inhibition factor*" or "membrane inhibitor of reactive lysis" or merimepobid or Methotre xate or methylprednisolone or mizoribine or morolimumab or "Muromonab-CD3" or "mycophenolate mofetil" or "mycophenolic acid" or "Myeloablative Agonist*" or napirimus or naturalizumab or "OKT 3" or olcorolimus or orazipone or oxeclosporin or ozanimod or paquinimod or pascolizumab or pateclizumab
or peldesine or perfosfamide or pimecrolimus or plovamer or "Polypodium leucotomos extract" or ponesimod or prednisolone or prednisone or pritoximab or prodigiosin or protectin or ramatercept or rapamycin or "remestemcel L" or remtolumab or reprimun or rilonacept or rimiducid or ruclosporin or "sacituzumab govitecan" or "sanglifehrin A" or Sirolimus or sotrastaurin or sufosfamide or "suppressor factor*" or Tacrolimus or tavelixizumab or "telimomab aritox" or temsirolimus or teneliximab or teplizumab or Thalidomide or thermozymocidin or Thioinosine or Thiotepa or tiplimotide or "TNF alpha inhibitor*" or "TNF inhibitor*" or tofacitinib or traxanox or tresperimus or "Triamcinolone Acetonide" or "tumor necrosis factor alpha inhibitor*" or "tumor necrosis factor inhibitor*" or "tumour necrosis factor alpha inhibitor*" or "tumour necrosis factor inhibitor*" or umirolimus or "vaccinia virus complement control protein*" or vapaliximab or vepalimomab or vidofludimus or voclosporin or "zolimomab aritox" or zotarolimus).ti,ab,hw,kw.

17 exp Immunoglobulins, Intravenous/ 358839
18 from 16 keep 347041-358839 11799
19 exp immunoglobulin/ and exp intravenous drug administration/ 7941
(alphaglobin* or endobulin* or "flebogamma dif" or gamimmune or "gamimmune n" or gamimmune or "gamimmune n" or gammagard or gammonativ or gamunex or "globulin n" or globulin or "globulin-n" or "intraglobin f" or intraglobin* or "intrainferon*" or "intravenous antibiotic*" or "intravenous Ig" or "intravenous immune globulin*" or "intravenous immunoglobulin*" or "iv immunoglobulin*" or iveegam or ivig or "modified immune globulin anti-echovirus antibody" or "modified immune globulin anti-echovirus antibody*" or privigen or sandoglobulin* or venimmune or "venoglobulin i" or venoglobulin or "venoglobulin*" or venoglobulin).ti,ab,hw,kw.

21 exp Rituximab/ 71459
22 (gp2013 or "idec c2b8" or idecc2b8 or mabthera or reditux or rituxan or rituximab or rituxin).ti,ab,hw,kw. 80581
23 exp eculizumab/ 3311
24 (eculizumab or eculizumab or "monoclonal antibody 5G11" or "monoclonal antibody 5G11" or soliris).ti,ab,hw,kw. 4507
25 10 or 11 or 12 or 13 or 14 or 15 or 16 or 18 or 19 or 20 or 21 or 22 or 23 or 24 2631012
26 9 and 25 509
27 exp evidence based medicine/ 1048182
28 exp meta analysis/ 213083
29 exp "Meta-Analysis as Topic"/ 51947
30 exp "systematic review"/ 143009
31 exp Guideline/ or exp Practice Guideline/ 446166
32 exp controlled study/ 5786635
33 exp Randomized Controlled Trial/ 913576
34 exp triple blind procedure/ 165
35 exp Double-Blind Method/ 279698
36 exp Single-Blind Method/ 53241
37 exp latin square design/ 337
38 exp Placebos/ 299842
39 exp Placebo Effect/
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51 exp confidence interval/
52 exp multivariate analysis/
53 ((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doubl* adj blind*) or (singl* adj mask*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospective* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or ((observation or observational) adj (study or survey or analysis)) or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multi-center study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or "time-motion" or review* or (case* adj3 report*)).mp,pt.
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55 26 and 54
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57 limit 56 to yr="2010 -Current"
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|     | (((drepanocytic or "haemoglobin s" or "hemoglobin s" or "Hb SS" or hbs or sickle or "sickle cell" or sickling or ss) adj2 (anaemia* or anemia* or disease* or disorder*)) or drepanocytemia* or drepanocytoses or drepanocytosis or "haemoglobin SS" or "hemoglobin SS" or meniscocytoses or me

|     | hemoglobinuria* or hemolys* or hemoglobinuria* or hemolys* or hyperhaemolys* or hyperhemolys* or jaundice or pallor or "vaso-occlusive cris*").ti,ab,hw,kw. | 50946   |
| 3   | 1 or 2                                                                  | 53337   |
| 4   | exp Transfusion Reaction/                                               | 7541    |
| 5   | exp Blood Group Incompatibility/                                        | 13290   |
| 6   | exp blood transfusion/ae                                               | 22344   |
|     | ((((plasma or blood or "red cell*")) adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemothearp* or "hemo-therap**" or multitransfus* or "plasma exchange**" or polytransfus* or retransfus* or transfus* or "blood group**") adj3 (reaction* or incompatib* or "adverse effect**") or ((rapid* or fast* or precocious) adj3 (decline* or reduction) adj3 (hemoglobin* or haemoglobin*)) or haemoglobinuria* or haemolys* or hemoglobinuria* or hemolys* or hyperhaemolys* or hyperhemolys* or jaundice or pallor or "vaso-occlusive cris**")| 232976   |
| 8   | 4 or 5 or 6 or 7                                                       | 255795  |
| 9   | 3 and 8                                                                 | 6360    |
| 10  | exp transfusion reaction/dt                                            | 306     |
| 11  | exp Adrenal Cortex Hormones/                                           | 1056291 |
| 12  | exp corticosteroid/                                                    | 678295  |
| 13  | exp corticosteroid therapy/                                            | 39519   |
("adrenal cortex hormone*" or "adrenal cortex steroid*" or "adrenal cortical hormone*" or "adrenal cortical steroid*" or "adreno cortical hormone*" or "adrenocortical hormone*" or "adrenal steroid*" or "adrenocortical steroid*" or "adreno corticosteroid*" or "adrenocorticosteroid*" or adreson or alclometasone or aldosterone or algestone or "algestone acetonide" or amcinonide or amelometasone or beclometasone or budesonide or butixocort or chloroprednisone or ciclesonide or ciprocinonide or clioquinol or clobetasol or clobetasone or clocortolone or cloprednol or "cortical steroid*" or corticalsteroid* or "cortico steroid*" or corticoid* or corticosteroid* or corticoesterone or corticotherap* or cortifair or cortisol or cortisone or cortivazol or cortril or deflazacort or dehydrocorticosterone or dehydrocortisone or deoxycorticosterone or dermocorticosteroid* or dexamethasone or dflorasone or dfluocortolone or dfluorprednate or domoprednate or drocinonide or dutimelan or epicortisol or "etiprednol dicloacetate" or flucloprimol or fludrocortisone or fludroxy corticlude or flumerasone or flumoxonide or flunisolide or fluocinolone or fluocinonide or fluocortin or fluocortolone or fluorometholone or fluprednidene or fluprednisolone or fluticasone or formocort or "formoterol fumarate" or glucocorticoid* or glucocorticoidsteroid* or glucocorticosteroid* or glucocorticotoid* or glycocorticoid* or halcinonide or halometasone or halopredone or hydrocortisone or "hydroxy norcorticosterone" or hydrocortisone or hydrocorticosteroid* or hydroxyadrenocorticosterone or hydroxyhydrocortisone or "icometasone enbutate" or isofluradone or itrocinonide or "locicortolone dicilate" or "lorinden a" or "lorinden t" or loteprednol or mazipredone or medrysone or meprednisone or mineralcorticosteroid* or mineralocorticosteroid* or mineralocorticoid* or "mometasone furoate" or nicocortinide or nivacortol or nordeoxycorticosterone or oropivalone or oxohydrocortisone or oxyhydrocorticosterone or prednisolone or prednisone or pregnenolone or prodecortin or promestriene or resocortol or rimexolone or rofleponide or steroid* or tetrahydrodeoxycorticosterone or ticabesone or timobesone or tiropredane or tixocortol or triamcinolone or "ulobetasol propionate" or uniderm or zoticasone).ti,ab,hw,kw.

exp Immunosuppressive Agents/ 1020305

(((immunosuppressive or "complement inactivat*" or "complement inhibit*" or "complement cytolysis") adj3 (agent* or drug* or therap* or pharma* or medication* or intervention* or treatment*)) or "6-Mercaptopurine" or Abatacept or abetimus or adalimumab or aldosulfamid or aln1007 or amsacrine or anifrolumb or anispermisum or "anti TNF agent*" or "anti TNF alpha agent*" or "anti tumor necrosis factor agent*" or "anti tumor necrosis factor agent*" or "Antilymphocyte Serum" or apilimod or ascomycin or askrocin or aselizumab or arcience or atorilomab or Azaserine or Azathioprine or basiliximab or batolride or begelomab or betapacept or belimumab or blisibimod or "Bradykinin B2 Receptor Antagonist*" or briobacept or Busulfan or "cd59 antigen*" or cedelizumab or cenerimod or "cenplacel L" or "Certolizumab Pegol" or Cladrabine or Coformycin or "Complement C1 Inactivator Protein*" or "Complement C1 Inhibitor Protein*" or "Complement C3 Nephritic Factor*" or "Complement C3b Inactivator Protein*" or "Complement C4b-Binding Protein*" or "complement component C4b binding protein*" or "complement component C5 inhibitor*" or "Complement Factor H" or "Complement Factor I" or "complement inactivator*" or "complement inhibitor*" or Cyclophosphamide or cyclosporin* or Cyclosporine or Cytarabine or dacizumab or defoslimod or "dehydrodidemnin B" or
denosumab or dexamethasone or "didemnin A" or "didemnin B" or "dihydrocyclosporin A" or "Dimethyl Fumarate" or "dorlimomab aritox" or edratide or efalizumab or eldelumab or Ellipticines or elsilimomab or emapalumab or enlimomab or erlizumab or Etanercept or etrasimod or Everolimus or faralimomab or fezakinumab or fingolimod or Fluourouracil or fontolizumab or forgerimod or forodesine or "fr 900523" or "fr 900525" or glatiramer or Gliotoxin or "homologous restriction factor 20" or hrf20 or "imicleucel t" or immunosuppressant* or immunosuppressor* or infliximab or inolimomab or "interleukin 2 receptor antibod*" or irinotecan or laflunimus or lebrikizumab or lefunomide or "ljp 1082" or macif or malononitrilamide or manitimus or maslimomab or Melphalan or "membrane attack complex inhibition factor*" or "membrane inhibitor of reactive lysis" or merimepobid or Methotrexate or methylprednisolone or mizoribine or morolimumab or "Muromonab-CD3" or "mycophenolate mofetil" or "mycophenolic acid" or "Myeloablative Agonist*" or napirimus or natalizumab or "OKT 3" or olcorolimus or orazipone or oxeclosporin or ozanimod or paquinimod or pascolizumab or pateclizumab or peldesine or perfosfamide or pimecrolimus or plovamor or "Polyphotom ystem extract" or ponesimod or prednisolone or prednisone or pritoaximab or prodigiosin or protectin or ramatecept or rapamycin or "remestampec L" or remtolumab or reprimun or rilonacept or rimiducid or ruclosporin or "sacituzumab govitecan" or "sanglifehrin A" or Sirolimus or sotrastraurin or sufosfamide or "suppressor factor*" or Tacrolimus or tavolixizumab or "telifomab aritox" or temsirolimus or teneliximab or teplizumab or Thalidomide or thermozytocidin or Thioinosine or Thiopeta or tiplimotide or "TNF alpha inhibitor*" or "TNF inhibitor*" or tofamicinib or traxanox or tresperimus or "Triamcinolone Acetonide" or "tumor necrosis factor alpha inhibitor*" or "tumor necrosis factor inhibitor*" or "tumour necrosis factor alpha inhibitor*" or "tumour necrosis factor inhibitor*" or umirolimus or "vaccinia virus complement control protein*" or vapaliximab or vepalimomab or vidofludimus or voclosporin or "zolimomab aritox" or zotarolimus).ti,ab,hw,kw.

17 exp Immunoglobulins, Intravenous/ 358839
18 from 16 keep 347041-358839 11799
19 exp immunoglobulin/ and exp intravenous drug administration/ 7941
(alphaglobin* or endobulin* or "flebogamama dif" or gammimmune or "gammimmune n" or gammimmune or "gammimmune n" or gammagard or gammonativ or gamunex or "globulin n" or globulin or "globulin-n" or "intraglobin" or "intraglobin f" or intraglobin* or "intravenous antibiot*" or
20 "intravenous ig" or "intravenous immune globulin*" or "intravenous immunoglobulin*" or "iv immunoglobulin*" or iveegam or ivig or "modified immune globulin anti-echovirus antibod*" or privigen or sandoglobulin* or venimmune or "venoglobulin i" or venoglobulin* or venoglobulin).ti,ab,hw,kw.

21 exp Rituximab/ 71459
(gp2013 or "idec c2b8" or idecc2b8 or mabthera or reditux or rituxan or rituximab or rituxin).ti,ab,hw,kw.
22 80581
23 exp eculizumab/ 3311
24 (ecluzimab or eculizumab or "monoclonal antibody 5G1 1" or "monoclonal antibody 5G11" or soliris).ti,ab,hw,kw.
25 4507
26 25 10 or 11 or 12 or 13 or 14 or 15 or 16 or 18 or 19 or 20 or 21 or 22 or 23 or 24 2631012
26 9 and 25 509
27 exp evidence based medicine/
28 exp meta analysis/
29 exp Meta-Analysis as Topic/
30 exp "systematic review"/
31 exp Guideline/ or exp Practice Guideline/
32 exp controlled study/
33 exp Randomized Controlled Trial/
34 exp triple blind procedure/
35 exp Double-Blind Method/
36 exp Single-Blind Method/
37 exp latin square design/
38 exp Placebos/
39 exp Placebo Effect/
40 exp comparative study/
41 exp intervention studies/
42 exp Cross-Sectional Studies/
43 exp Cross-Over Studies/
44 exp Cohort Studies/
45 exp longitudinal study/
46 exp retrospective study/
47 exp prospective study/
48 exp clinical trial/
49 clinical study/
50 exp case-control studies/
51 exp confidence interval/
52 exp multivariate analysis/

((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doubl* adj blind*) or (doubl* adj mask*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or ((observation or observational) adj (study or survey or analysis))
or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or "time-motion" or review* or (case* adj3 report*).mp,pt.

54 or/27-53

55 26 and 54

56 limit 55 to english language

57 limit 56 to yr="2010 -Current"

58 or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained]

59 57 not 58

60 remove duplicates from 59

Question 5

Ovid

Database(s): Embase 1988 to 2017 Week 28, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

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<tr>
<td>2</td>
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<td>50946</td>
</tr>
<tr>
<td>3</td>
<td>1 or 2</td>
<td>53337</td>
</tr>
<tr>
<td>4</td>
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<td>223190</td>
</tr>
<tr>
<td>5</td>
<td>exp Blood Donors/</td>
<td>47858</td>
</tr>
<tr>
<td>6</td>
<td>(((plasma or blood or &quot;red cell**&quot;) adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemotherap* or &quot;hemo-therap**&quot; or multitransfus* or &quot;plasma exchange**&quot; or polytransfus* or retransfus* or transfus*).ti,ab,hw,kw.</td>
<td>990756</td>
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<td>7</td>
<td>4 or 5 or 6</td>
<td>994664</td>
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9 exp Acute Chest Syndrome/
10 "acute chest syndrome*".ti,ab,hw,kw.
11 8 or 9 or 10
12 3 and 7 and 11
13 exp evidence based medicine/
14 exp meta analysis/
15 exp Meta-Analysis as Topic/
16 exp "systematic review"/
17 exp Guideline/ or exp Practice Guideline/
18 exp controlled study/
19 exp Randomized Controlled Trial/
20 exp triple blind procedure/
21 exp Double-Blind Method/
22 exp Single-Blind Method/
23 exp latin square design/
24 exp Placebos/
25 exp Placebo Effect/
26 exp comparative study/
27 exp intervention studies/
28 exp Cross-Sectional Studies/
29 exp Cross-Over Studies/
30 exp Cohort Studies/
31 exp longitudinal study/
32 exp retrospective study/
33 exp prospective study/
34 exp clinical trial/
35 clinical study/
36 exp case-control studies/
37 exp confidence interval/
38 exp multivariate analysis/

((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doubl* adj blind*) or (doubl* adj mask*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or (evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doubl* adj blind*) or (doubl* adj mask*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or
"comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case comparator study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or "time-motion").mp,pt.

40 or/13-39 25001672
41 12 and 40 1593
42 limit 41 to english language 1532
43 limit 42 to yr="2010 -Current" 1007

limit 43 to (editorial or erratum or letter or note or addresses or autobiography or bibliography or biography or blogs or comment or dictionary or directory or interactive tutorial or interview or lectures or legal cases or legislation or news or newspaper article or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained] 23

44 or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts 984
46 remove duplicates from 45 792

**Question 6**

**Ovid**

Database(s): Embase 1988 to 2017 Week 28, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

**Search Strategy:**

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<td>46215</td>
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<tr>
<td>2</td>
<td>1 or 2</td>
<td>50946</td>
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<td>3</td>
<td>1 or 2</td>
<td>53337</td>
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(plasma or blood or "red cell*") adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemothearp* or "hemo-therap*" or multitransfus* or "plasma exchange*" or polytransfus* or retransf* or transfus*).ti,ab,hw,kw.

4 or 5 or 6

("automated exchange" or Erythrocytapheres* or "exchange blood transfusion*" or "exchange transfusion*" or "manual exchange" or "packed cell exchange" or "packed cell transfusion*" or "packed red blood cell exchange" or "packed red blood cell transfusion*" or "partial RCE" or "red blood cell exchange" or "red cell exchange" or "simple blood transfusion*" or "simple exchange" or "simple transfusion*").ti,ab,hw,kw.

9 exp Acute Chest Syndrome/

10 "acute chest syndrome*".ti,ab,hw,kw.

11 8 or 9 or 10

12 3 and 7 and 11

13 exp evidence based medicine/

14 exp meta analysis/

15 exp Meta-Analysis as Topic/

16 exp "systematic review"/

17 exp Guideline/ or exp Practice Guideline/

18 exp controlled study/

19 exp Randomized Controlled Trial/

20 exp triple blind procedure/

21 exp Double-Blind Method/

22 exp Single-Blind Method/

23 exp latin square design/

24 exp Placebos/

25 exp Placebo Effect/

26 exp comparative study/

27 exp intervention studies/

28 exp Cross-Sectional Studies/

29 exp Cross-Over Studies/

30 exp Cohort Studies/

31 exp longitudinal study/

32 exp retrospective study/

33 exp prospective study/

34 exp clinical trial/

35 clinical study/

36 exp case-control studies/

37 exp confidence interval/
(evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doub1* adj blind*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or "time-motion").mp,pt.

or/13-39

or/13-39

or 40

12 and 40

42 limit 41 to english language

43 limit 42 to yr="2010 -Current"

44 or overall or patient education handout or periodic index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained]

45 43 not 44

46 remove duplicates from 45
**Question 7**

Database(s): Embase 1988 to 2017 Week 29, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

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<td>9987</td>
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<td>2</td>
<td>&quot;blood dilution&quot; or haemodilution or hemodilution).ti,ab,hw,kw.</td>
<td>14470</td>
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<td>1 or 2</td>
<td>14470</td>
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<td>4</td>
<td>Isovolemic*.ti,ab,hw,kw.</td>
<td>1668</td>
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<td>3 and 4</td>
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**Question 8**

Database(s): Embase 1988 to 2017 Week 29, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

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<td>4</td>
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<tr>
<td>5</td>
<td>exp Blood Donors/</td>
<td>47906</td>
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<tr>
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<td>(((plasma or blood or &quot;red cell**&quot;) adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemotherap* or &quot;hemo-therap*&quot; or multitransfus* or &quot;plasma exchange*&quot; or polytransfus* or retransfus* or transfus*).ti,ab,hw,kw.</td>
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<td>exp Prenatal Care/</td>
<td>136441</td>
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<tr>
<td>11</td>
<td>exp Obstetric Surgical Procedures/</td>
<td>236777</td>
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12 exp Pregnancy Outcome/
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tor fetus or gestation* or labor or obstetric* or postpartal* or postpartum or pregnan* or
prenatal* or prepartal* or prepartum).ti,ab,hw,kw.
14 or/8-13
15 3 and 7 and 14
16 exp evidence based medicine/
17 exp meta analysis/
18 exp Meta-Analysis as Topic/
19 exp "systematic review"/
20 exp Guideline/ or exp Practice Guideline/
21 exp controlled study/
22 exp Randomized Controlled Trial/
23 exp triple blind procedure/
24 exp Double-Blind Method/
25 exp Single-Blind Method/
26 exp latin square design/
27 exp Placebos/
28 exp Placebo Effect/
29 exp comparative study/
30 exp intervention studies/
31 exp Cross-Sectional Studies/
32 exp Cross-Over Studies/
33 exp Cohort Studies/
34 exp longitudinal study/
35 exp retrospective study/
36 exp prospective study/
37 exp clinical trial/
38 clinical study/
39 exp case-control studies/
40 exp confidence interval/
41 exp multivariate analysis/
   ((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or
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   adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj
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   "comparative study" or "comparative survey" or "comparative analysis" or (intervention*
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   analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or
"prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or "concurrent study" or "concurrent survey" or "concurrent analysis" or ((observation or observational) adj (study or survey or analysis)) or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "feasibility study" or "feasibility analysis" or "case control study" or "case base study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "regression analysis" or "least square" or "least squares" or (hazard* adj (model* or analysis* or regression or ratio or ratios)) or "Cox model" or "Cox multivariate analyses" or "Cox multivariate analysis" or "Cox regression" or "Cox survival analyses" or "Cox survival analysis" or "Cox survival model" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or (case* adj3 report*).mp,pt.

43 or/16-42 28299868
44 15 and 43 1085
45 limit 44 to english language 1038
46 limit 45 to yr="2010 -Current" 611
limit 46 to (editorial or erratum or letter or note or addresses or autobiography or bibliography or biography or blogs or comment or dictionary or directory or interactive tutorial or interview or lectures or legal cases or legislation or news or newspaper article or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase, Ovid MEDLINE(R), Ovid MEDLINE(R) Daily Update, Ovid MEDLINE(R) In-Process, Ovid MEDLINE(R) Publisher; records were retained]

47 or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase, Ovid MEDLINE(R), Ovid MEDLINE(R) Daily Update, Ovid MEDLINE(R) In-Process, Ovid MEDLINE(R) Publisher; records were retained]

48 46 not 47 601
49 remove duplicates from 48 505

Question 9

Ovid

Database(s): Embase 1988 to 2017 Week 35, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Search Strategy:

# Searches Results
1 exp Anemia, Sickle Cell/ 46883
(((drepanocytic or "haemoglobin s" or "hemoglobin s" or "Hb SS" or hbs or sickle or "sickle cell" or sickling or ss) adj2 (anaemia* or anemia* or disease* or disorder*)) or drepanocytosis* or drepanocytes or drepanocytosis or "haemoglobin SS" or "hemoglobin SS" or meniscocytoses or meniscocytosis).ti,ab,hw,kw. 51682
exp Blood Transfusion/
exp Blood Donors/
((plasma or blood or "red cell\*") adj3 (exchang* or infus* or replac*)) or donation* or donor* or hemo-therap* or "hemo-therap\*" or multitransfus* or "plasma exchange\*" or polytransfus* or retransfus* or transfus*).ti,ab,hw,kw.
exp preoperative care/
(preop* or "pre-op\*").ti,ab,hw,kw.
exp evidence based medicine/
exp meta analysis/
exp Meta-Analysis as Topic/
exp "systematic review"/
exp Guideline/ or exp Practice Guideline/
exp controlled study/
exp Randomized Controlled Trial/
exp triple blind procedure/
exp Double-Blind Method/
exp Single-Blind Method/
exp latin square design/
exp Placebos/
exp Placebo Effect/
exp comparative study/
exp intervention studies/
exp Cross-Sectional Studies/
exp Cross-Over Studies/
exp Cohort Studies/
exp longitudinal study/
exp retrospective study/
exp prospective study/
exp population research/
exp observational study/
exp clinical trial/
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exp Evaluation Studies/
exp Evaluation Studies as Topic/
40 exp quantitative study/
41 exp validation studies/
42 exp quasi experimental study/
43 in vivo study/
44 exp panel study/
45 exp Pilot Projects/
46 exp pilot study/
47 exp prevention study/
48 exp replication study/
49 exp Feasibility Studies/
50 exp correlational study/
51 exp case-control studies/
52 exp confidence interval/
53 exp regression analysis/
54 exp proportional hazards model/
55 exp multivariate analysis/

((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or
(control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (random* adj1 allocat*) or (doub1* adj blind*) or (doub1* adj mask*) or (sing1* adj blind*) or (sing1* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or (population adj3 (stud* or survey* or analys* or research)) or "concurrent study" or "concurrent survey" or "concurrent analysis" or "incidence study" or "incidence survey" or "incidence analysis" or ("follow-up" or followup) adj (stud* or survey or analysis)) or ((observation or observational) adj (study or survey or analysis)) or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "quantitative study" or "quantitative analysis*" or "numerical study" or "validation study" or "validation survey" or "validation analysis" or "quasi experimental study" or "quasi experimental analysis" or "quasiexperimental study" or "quasiexperimental analysis" or "in vivo study" or "in vivo analysis" or "panel study" or "panel survey" or "panel analysis" or "pilot study" or "pilot survey" or "pilot analysis" or "pilot project" or ((prevention or preventive) adj3 (trial or study or analysis or survey)) or "replication study" or "replication analysis" or "replication trial" or "feasibility study" or "feasibility analysis" or ((correlation* adj2 study) or (correlation* adj2 analys*)) or "case
control study" or "case base study" or "case referent study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or "odds ratio" or "confidence interval" or "regression analysis" or "least square" or "least squares" or (hazard* adj (model* or analy* or regression or ratio or ratios)) or "Cox model" or "Cox multivariate analyses" or "Cox multivariate analysis" or "Cox regression" or "Cox survival analyses" or "Cox survival analysis" or "Cox survival model" or "change analysis" or ((study or trial or random* or control*) and compar*).mp,pt.

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**Question 10**

**Ovid**

Database(s): Embase 1988 to 2017 Week 29, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

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15 exp Meta-Analysis as Topic/ 52129
16 exp "systematic review"/ 143674
17 exp comparative study/ 2773877
18 exp intervention studies/ 33415
19 exp Cross-Sectional Studies/ 475195
20 exp Cross-Over Studies/ 95074
21 exp Cohort Studies/ 2018516
22 exp longitudinal study/ 212947
23 exp retrospective study/ 1208554
24 exp prospective study/ 850500
25 exp population research/ 84676
26 exp observational study/ 160404
27 exp clinical trial/ 1989489
28 clinical study/ 105429
29 exp Evaluation Studies/ 275777
30 exp Evaluation Studies as Topic/ 981115
31 exp quantitative study/ 35671
32 exp validation studies/ 152550
33 exp field study/ 7693
34 in vivo study/ 271877
35 exp panel study/ 665
36 exp Pilot Projects/ 216117
37 exp pilot study/ 216117
38 exp prevention study/ 3257
39 exp replication study/ 1663
40 exp trend study/ 20798
41 exp correlational study/ 25597
42 exp case-control studies/ 1022843
43 exp proportional hazards model/ 137824
((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or guideline* or multivariate or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or "cross-sectional study" or "cross-sectional analysis" or "cross-sectional survey" or "cross-sectional design" or "prevalence study" or "prevalence analysis" or "prevalence survey" or "disease frequency study" or "disease frequency analysis" or "disease frequency survey" or crossover or "cross-over" or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or (population 28261149
adj3 (stud* or survey* or analys* or research)) or "concurrent study" or "concurrent survey" or "concurrent analysis" or "incidence study" or "incidence survey" or "incidence analysis" or (("follow-up" or followup) adj (stud* or survey or analysis)) or ((observation or observational) adj (study or survey or analysis)) or "case study" or "case series" or "clinical series" or "case studies" or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or "quantitative study" or "quantitative analysis" or "numerical study" or "validation study" or "validation survey" or "validation analysis" or "quasi experimental study" or "quasi experimental analysis" or "quasiexperimetal study" or "quasiexperimetal analysis" or "field study" or "field analysis" or "in vivo study" or "in vivo analysis" or "panel study" or "panel survey" or "panel analysis" or "pilot study" or "pilot survey" or "pilot analysis" or "pilot project" or ((prevention or preventive) adj3 (trial or study or analysis or survey)) or "replication study" or "replication analysis" or "replication trial" or "feasibility study" or "feasibility analysis" or "trend study" or "trend survey" or "trend analysis" or ((correlation* adj2 study) or (correlation* adj2 analys*)) or "case control study" or "case referent study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "multicenter study" or "multi-center study" or study or trial or pilot or "odds ratio" or "confidence interval" or "regression analysis" or "least square" or "least squares" or (hazard* adj (model* or analys* or regression or ratio or ratios)) or "Cox model" or "Cox multivariate analyses" or "Cox multivariate analysis" or "Cox regression" or "Cox survival analyses" or "Cox survival model" or "change analysis" or ((study or trial or random* or control*) and compar*) or evaluat* or (case* adj3 report*).mp,pt.

45 or/13-44 28534270

46 12 and 45 1077

limit 46 to (editorial or erratum or letter or note or addresses or autobiography or bibliography or biography or blogs or comment or dictionary or directory or interactive tutorial or interview or lectures or legal cases or legislation or news or newspaper article or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained]

47 or overall or patient education handout or periodical index or portraits or published 39

erratum or video-audio media or webcasts)

48 46 not 47 1038

49 limit 48 to english language 1013

50 limit 49 to yr="2010 -Current" 639

51 remove duplicates from 50 498