**Twin Research and Human Genetics**

**Evolution of Stage 1 Twin-to-Twin Transfusion Syndrome (TTTS): Systematic Review and Meta-Analysis**

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**Supplementary** **Table 1**

Search strategy using Medline (1946 – January 2016), Embase (1947 – January 2016) and The Cochrane Library (since inception) including The Cochrane Database of Systematic Reviews (CDSR), Database of Abstracts of Reviews of Effects (DARE) and The Cochrane Central Register of Controlled Trials (CENTRAL).

**Databases:** Embase®, Embase® Alert, MEDLINE®

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| --- | --- | --- |
| **Set#** | **Searched for** | **Results** |
| S34 | s5 and s23 and (s26 or s27 or s28) and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) | 157 |
| S33 | s5 and s23 and (s26 or s27 or s28) | 189 |
| S32 | s5 and s20 and (s26 or s27 or s28) and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) | 78 |
| S31 | s5 and s20 and (s26 or s27 or s28) | 91 |
| S30 | s5 and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) and (s26 or s27 or s28) | 506 |
| S29 | s5 and (s26 or s27 or s28) | 753 |
| S28 | ti,ab(survival or course or progress[\*3] or (advanced near/5 (stage[\*1] or staging))) | 4435101 |
| S27 | EMB.EXACT("overall survival") OR EMB.EXACT("survival time") OR EMB.EXACT("survival prediction") OR EMB.EXACT("survival rate") OR EMB.EXACT.EXPLODE("survival") OR EMB.EXACT("disease course") | 1146953 |
| S26 | MESH.EXACT("Survival") OR MESH.EXACT("Survival Rate") OR MESH.EXACT.EXPLODE("Survival Analysis") OR MESH.EXACT("Disease Progression") | 421456 |
| S25 | s5 and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) and s23 | 248 |
| S24 | s5 and s23 | 330 |
| S23 | EMB.EXACT("staging") or ti,ab(quintero or stage[\*1] or staging) | 2090343 |
| S22 | s5 and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) and s20 | 112 |
| S21 | s5 and s20 | 137 |
| S20 | ti,ab((stage[\*1] or staging) near/5 (early or I or one or 1)) | 570855 |
| S19 | s5 not (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) | 1765 |
| S18 | s5 and (s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17) | 1533 |
| S17 | ti,ab(prospective[\*2] or retrospective[\*2] or "follow up" or followup or longitudinal[\*2] or "case control[\*4]" or cohort or "cross sectional[\*2]" or observation[\*2]) | 6292455 |
| S16 | EMB.EXACT("evaluation study") OR EMB.EXACT("follow up") OR EMB.EXACT("evaluation and follow up") | 1118662 |
| S15 | EMB.EXACT("longitudinal study") OR EMB.EXACT.EXPLODE("case control study") OR EMB.EXACT("major clinical study") OR EMB.EXACT("prospective study") OR EMB.EXACT("retrospective study") OR EMB.EXACT("clinical study") OR EMB.EXACT("cross-sectional study") OR EMB.EXACT("cohort analysis") OR EMB.EXACT("observational study") | 3493727 |
| S14 | MESH.EXACT("Evaluation Studies as Topic") or rtype.exact("Evaluation Studies" or "Observational Study") | 347514 |
| S13 | MESH.EXACT("Follow-Up Studies") OR MESH.EXACT("Longitudinal Studies") OR MESH.EXACT("Cohort Studies") OR MESH.EXACT("Retrospective Studies") OR MESH.EXACT("Prospective Studies") OR MESH.EXACT("Case-Control Studies") OR MESH.EXACT("Cross-Sectional Studies") OR MESH.EXACT("Evaluation Studies") | 1796796 |
| S12 | ti,ab("meta analy[\*3]" or metaanaly[\*3] or "systematic review[\*1]" or trial[\*1] or ((singl[\*4] or doubl[\*4] or trebl[\*4] or tripl[\*4]) near/5 (blind[\*4] or mask[\*4])) or rct[\*1] or randomized or randomised or randomization or randomisation or randomly or crossover or "cross over") | 2953631 |
| S11 | EMB.EXACT("meta analysis (topic)") OR EMB.EXACT.EXPLODE("clinical trial (topic)") OR EMB.EXACT("systematic review (topic)") | 211664 |
| S10 | EMB(ct) | 1232863 |
| S9 | EMB.EXACT("triple blind procedure") OR EMB.EXACT("crossover procedure") OR EMB.EXACT("single blind procedure") OR EMB.EXACT("double blind procedure") OR EMB.EXACT("controlled study") OR EMB.EXACT("meta analysis") OR EMB.EXACT("comparative study") OR EMB.EXACT("systematic review") OR EMB.EXACT.EXPLODE("randomization") | 5781174 |
| S8 | EMB.EXACT("phase 4 clinical trial") OR EMB.EXACT("phase 2 clinical trial") OR EMB.EXACT("phase 3 clinical trial") OR EMB.EXACT("phase 1 clinical trial") OR EMB.EXACT("randomized controlled trial") OR EMB.EXACT("multicenter study") OR EMB.EXACT("controlled clinical trial") OR EMB.EXACT("clinical trial") | 1268608 |
| S7 | MESH.EXACT.EXPLODE("Clinical Trials as Topic") OR MESH.EXACT("Meta-Analysis as Topic") OR MESH.EXACT("Random Allocation") OR MESH.EXACT("Single-Blind Method") OR MESH.EXACT("Double-Blind Method") OR MESH.EXACT("Cross-Over Studies") OR MESH.EXACT("Meta-Analysis") | 507746 |
| S6 | rtype.exact("Comparative Study" OR "Clinical Trial, Phase III" OR "Randomized Controlled Trial" OR "Controlled Clinical Trial" OR "Clinical Trial, Phase IV" OR "Clinical Trial, Phase I" OR "Meta-Analysis" OR "Clinical Trial" OR "Clinical Trial, Phase II" OR "Multicenter Study" OR "Clinical Study") | 2383347 |
| **S5** | **(s1 or s2 or s3) and la(English)** | **3028** |
| S4 | s1 or s2 or s3 | 5382 |
| S3 | ti,ab("twin twin" or "twin to twin" or ttts or ((twin or fetofetal or "feto fetal" or foetofoetal or "foeto foetal" or "intrauterine cross" or "intra uterine cross") near/5 transfusion)) | 2648 |
| S2 | EMB.EXACT("twin twin transfusion syndrome") | 1817 |
| S1 | MESH.EXACT("Fetofetal Transfusion") | 1675 |

**Databases:** The Cochrane Library

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| --- | --- | --- |
| **ID** | **Search** | **Hits** |
| #1 | MeSH descriptor: [Fetofetal Transfusion] this term only | 27 |
| #2 | "twin twin" or "twin to twin" or ttts:ti,ab,kw | 52 |
| #3 | (twin or fetofetal or "feto fetal" or foetofoetal or "foeto foetal" or "intrauterine cross" or "intra uterine cross") near/5 transfusion:ti,ab,kw | 51 |
| **#4** | **#1 or #2 or #3** | **57** |

* The Cochrane Database of Systematic Reviews (CDSR, Cochrane Reviews: Issue 1 of 12, January 2016) (3 references)
* Database of Abstracts of Reviews of Effect (DARE, Other Reviews: Issue 2 of 4, April 2015) (12 references)
* The Cochrane Central Register of Controlled Trials (CENTRAL, Trials: Issue 12 of 12, December 2015) (38 references)
* Health Technology Assessment Database (HTA, Technology Assessments: Issue 4 of 4, October 2015) (3 references)
* NHS Economic Evaluation Database (NHS-EED, Economic Evaluations: Issue 2 of 4, April 2015) (1 reference)