**Supplementary Table 2 Studies excluded from review after full text search with reasons**

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| **Studies** | **Reason for exclusion** |
| Adesiyun (2011) | No appropriate comparison and outcome is not allocated to donor or autologous. |
| Allen et al. (2006) | Review. |
| American Fertility Society and SART (1994) | No donor sperm outcomes. |
| Andersen et al. (2008) | No appropriate comparison and no perinatal health studies. |
| Barratt and Cooke (1989) | Letter to the editor and no data presented. |
| Batzer and Corson (1987) | Review. |
| Bensdorp et al. (2007)  | Review. |
| Botchan et al. (2001) | No appropriate comparison data. |
| British Fertility Society (2011) | Conference programme. |
| Brzyski (2001) | Review. |
| Bustillo and Yee (1999) | Duplicate reference appearing in another format. |
| Centola et al. (2000) | No appropriate comparisons and no perinatal health studies. |
| Chong and Taymor (1975) | No appropriate comparison data. |
| Clarke et al. (1997) | No appropriate comparison data. |
| Clayton and Kovacs (1982) | Comparison data were outdated by 20 years and study involved selection of families to include (possible bias). |
| de Mouzon et al. (2010) | No appropriate comparisons and no perinatal health studies. |
| Doyle (1999) | No appropriate comparisons and no perinatal health studies. |
| Dyer and Kruger (2012) | No appropriate comparisons and no perinatal health studies. |
| ESHRE Capri Workshop Group (2007) | No donor sperm. |
| Esteves (2002) | Editorial comment, no data. |
| European IVF-Monitoring Programme for ESHRE et al. (2006) | No perinatal health studies. |
| Formigli et al. (1990) | No appropriate comparisons and no perinatal health studies. |
| Glezerman (1981) | No appropriate comparisons and no perinatal health studies. |
| Goss (1975) | No appropriate comparison data. |
| Guerif et al. (2002) | No appropriate comparisons and no perinatal health studies. |
| Guerif et al. (2004) | No appropriate comparisons and no perinatal health studies. |
| Gunby et al. (2005) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2006) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2007) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2008) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2009) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2010) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Gunby et al. (2011) | Donor sperm outcomes pooled in ICSI data with heterologous sperm. |
| Hayashi et al. (2012) | Use of donor sperm is unclear. |
| Hedges and Saunders (1993) | No donor sperm. |
| Horne et al. (1998) | No appropriate comparisons and no perinatal health studies. |
| Katzorke et al. (1981) | Inappropriate comparisons. |
| Kovacs (1996) | Review. |
| Kovacs et al. (1990) | No perinatal health studies. |
| Lambert (2003) | Review. |
| Lansac and Le Lannou (1994) | No comparison data provided |
| Lansac and Royere (2001) | Review. |
| Ledward et al. (1985) | No appropriate comparisons and no perinatal health studies. |
| Liu et al. (2011) | Don't provide source of their comparison data. |
| Mochimaru et al. (1980) | Don't provide source of their comparison data. |
| Newill (1976) | Inappropriate comparisons. |
| Nyboe Andersen et al. (2009) | No perinatal health studies. |
| Ping et al. (2011) | No perinatal health studies. |
| Prescrire (2011) | All ART outcomes pooled. |
| Robinson et al. (1989) | Letter to the editor and no data presented. |
| Sandhu et al. (2011) | No perinatal health studies. |
| Society for Assisted Reproductive Technology and AFS (1993) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (1995) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (1996) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (1998) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (1999) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (2000) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (2002a) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (2002b) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (2004) | No donor sperm outcomes. |
| Society for Assisted Reproductive Technology and ASRM (2007) | No donor sperm outcomes. |
| Steinberger and Smith (1973) | No perinatal health studies. |
| Sunderam et al. (2012) | No donor sperm outcomes. |
| Thepot et al. (1996) | Data is reported in publication by Lansac et al. (1997) as part of a larger cohort. |
| Virro and Shewchuk (1984) | Inappropriate comparisons. |
| Wang et al. (2002) | Donor and heterologous sperm outcomes pooled. |
| Wright et al. (2003) | No donor sperm outcomes. |
| Wright et al. (2004) | No donor sperm outcomes. |
| Wright et al. (2005) | No donor sperm outcomes. |
| Wright et al. (2006) | No donor sperm outcomes. |
| Wright et al. (2007) | No donor sperm outcomes. |
| Wright et al. (2008) | No donor sperm outcomes. |

**References of excluded studies**

Adesiyun AG. Referral for assisted reproductive technology: indications and treatment outcome. *Ann Afr Med* 2011;**10**:316-318.

Allen VM, Wilson RD, Cheung A, Genetics Committee of the Society of Obstetricians and Gynaecologists of Canada (SOGC), Reproductive Endocrinology Infertility Committee of the Society of Obstetricians and Gynaecologists of Canada (SOGC). Pregnancy outcomes after assisted reproductive technology. *J Obstet Gynaecol Can* 2006;**28**:220-250.

American Fertility Society & Society of Assisted Reproductive Technology. Assisted reproductive technology in the United States and Canada: 1992 results generated from the American Fertility Society/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1994;**62**:1121-1128.

Andersen AN, Goossens V, Ferraretti AP, Bhattacharya S, Felberbaum R, de Mouzon J, Nygren KG, European IVF-monitoring (EIM) Consortium, European Society of Human Reproduction and Embryology (ESHRE). Assisted reproductive technology in Europe, 2004: results generated from European registers by ESHRE. *Hum Reprod* 2008;**23**:756-771.

Barratt CL, Cooke ID. Risks of donor insemination. *BMJ* 1989;**299**:1178-1179.

Batzer FR, Corson SL. Indications, techniques, success rates, and pregnancy outcome: New directions with donor insemination. *Semin Reprod Med* 1987;5:45-57.

Bensdorp AJ, Cohlen BJ, Heineman MJ, Vandekerckhove P. Intra-uterine insemination for male subfertility. *Cochrane Database Syst Rev* 2007;**17**:CD000360.

Botchan A, Hauser R, Gamzu R, Yogev L, Paz G, Yavetz H. Results of 6139 artificial insemination cycles with donor spermatozoa. *Hum Reprod* 2001;**16**:2298-2304.

British Fertility Society. BFS Annual Meeting 2012. *Hum Fertil (Camb)* 2011;**14** (Suppl. 1):1–3.

Brzyski RG. Putting risk in perspective. *Am J Bioeth* 2001;**1**:25-26.

Bustillo M, Yee B. Assisted reproductive technology in the United States: 1996 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1999;**71**:798-807.

Centola GM, Herko R, Andolina E, Abbott S. Tracking of insemination outcomes: a novel approach. *Fertil Steril* 2000;**74**:607-608.

Chong AP, Taymor ML. Sixteen years' experience with therapeutic donor insemination. *Fertil Steril* 1975;**26**:791-795.

Clarke GN, Bourne H, Hill P, Johnston WI, Speirs A, McBain JC, Baker HW. Artificial insemination and in-vitro fertilization using donor spermatozoa: a report on 15 years of experience. *Hum Reprod* 1997;**12**:722-726.

Clayton CE, Kovacs GT. AID offspring: initial follow-up study of 50 couples. *Med J Aust* 1982;**1**:338-339.

de Mouzon J, Goossens V, Bhattacharya S, Castilla JA, Ferraretti AP, Korsak V, Kupka M, Nygren KG, Nyboe Andersen A, European IVF-monitoring (EIM) Consortium for the European Society of Human Reproduction and Embryology (ESHRE). Assisted reproductive technology in Europe, 2006: results generated from European registers by ESHRE. *Hum Reprod* 2010;**25**:1851-1862.

Doyle P. The U.K. Human Fertilisation and Embryology Authority. How it has contributed to the evaluation of assisted reproduction technology. *Int J Technol Assess Health Care* 1999;**15**:3-10.

Dyer SJ, Kruger TF. Assisted reproductive technology in South Africa: first results generated from the South African Register of Assisted Reproductive Techniques. *South African Medical Journal* 2012;**102**:167-170.

ESHRE Capri Workshop Group. Intracytoplasmic sperm injection (ICSI) in 2006: evidence and evolution. *Hum Reprod Update* 2007;**13**:515-526.

Esteves SC. Long-term outcomes of elective human sperm cryostorage: Editorial comment. *Int Braz J Urol* 2002;**28**:168-169.

European IVF-monitoring programme (EIM) for the European Society of Human Reproduction and Embryology (ESHRE), Andersen AN, Gianaroli L, Felberbaum R, de Mouzon J, Nygren KG. Assisted reproductive technology in Europe, 2002. Results generated from European registers by ESHRE. *Hum Reprod* 2006;**21**:1680-1697.

Formigli L, Coglitore MT, Roccio C, Belotti G, Stangalini A, Formigli G. One-hundred-and-six gamete intra-fallopian transfer procedures with donor semen. *Hum Reprod* 1990;**5**:549-552.

Glezerman M. Two hundred and seventy cases of artificial donor insemination: management and results. *Fertil Steril* 1981;**35**:180-187.

Goss DA. Current status of artificial insemination with donor semen. *Am J Obstet Gynecol* 1975;**122**:246-252.

Guerif F, Fourquet F, Marret H, Saussereau MH, Barthelemy C, Lecomte C, Lecomte P, Lansac J, Royere D. Cohort follow-up of couples with primary infertility in an ART programme using frozen donor semen. *Hum Reprod* 2002;**17**:1525-1531.

Guerif F, Saussereau MH, Barthelemy C, Couet ML, Gervereau O, Lansac J, Royere D. Efficacy of IVF using frozen donor semen in cases of previously failed DI cycles compared with tubal infertility: a cohort study. *Reprod Biomed Online* 2004;**9**:404-408.

Gunby J, Daya S, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2001 results from the Canadian ART Register. *Fertil Steril* 2005;**84**:590-599.

Gunby J, Daya S, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2002 results from the Canadian ART Register. *Fertil Steril* 2006;**86**:1356-1364.

Gunby J, Daya S, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2003 results from the Canadian ART Register. *Fertil Steril* 2007;**88**:550-559.

Gunby J, Bissonnette F, Librach C, Cowan L, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2004 results from the Canadian ART Register. *Fertil Steril* 2008;**89**:1123-1132.

Gunby J, Bissonnette F, Librach C, Cowan L, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies in Canada: 2005 results from the Canadian Assisted Reproductive Technologies Register. *Fertil Steril* 2009;**91**:1721-1730.

Gunby J, Bissonnette F, Librach C, Cowan L, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2006 results from the Canadian ART Register. *Fertil Steril* 2010;**93**:2189-2201.

Gunby J, Bissonnette F, Librach C, Cowan L, IVF Directors Group of the Canadian Fertility and Andrology Society. Assisted reproductive technologies (ART) in Canada: 2007 results from the Canadian ART Register. *Fertil Steril* 2011;**95**:542-547.

Hayashi M, Nakai A, Satoh S, Matsuda Y. Adverse obstetric and perinatal outcomes of singleton pregnancies may be related to maternal factors associated with infertility rather than the type of assisted reproductive technology procedure used. *Fertil Steril* 2012;**98**:922-928.

Hedges AK, Saunders DM. Clinical outcomes of pregnancies achieved by microinsemination by sperm transfer. *Fertil Steril* 1993;**60**:720-723.

Horne G, Jamaludin A, Critchlow JD, Falconer DA, Newman MC, Oghoetuoma J, Pease EH, Lieberman BA. A 3 year retrospective review of intrauterine insemination, using cryopreserved donor spermatozoa and cycle monitoring by urinary or serum luteinizing hormone measurements. *Hum Reprod* 1998;**13**:3045-3048.

Katzorke T, Propping D, Tauber PF. Results of donor artificial insemination (AID) in 415 couples. *Int J Fertil* 1981;**26**:260-266.

Kovacs GT. Assisted reproduction: a reassuring picture. *Med J Aust* 1996;**164**:628-630.

Kovacs GT, Baker HW, Burger HG, Lee J, Summerbell D. Prognosis of pregnancies conceived by donor insemination with respect to the late follicular phase luteinizing hormone levels. *Br J Obstet Gynaecol* 1990;**97**:654-656.

Lambert RD. Safety issues in assisted reproductive technology: aetiology of health problems in singleton ART babies. *Hum Reprod* 2003;**18**:1987-1991.

Lansac J, Le Lannou D. Sperm donation and practice of AID in France. *J Assist Reprod Genet* 1994;**11**:231-236.

Lansac J, Royere D. Follow-up studies of children born after frozen sperm donation. *Hum Reprod Update* 2001;**7**:33-37.

Ledward RS, Symonds EM, Mountford PJ. Prognostic factors and results of donor insemination. *J Obstet Gynaecol* 1985;**6**:65-67.

Liu W, Li XF, Xi WY, Tan L, Fan LQ, Lu GX. The follow-up study of pregnancy and neonates outcomes of 10648 AID cycles. *Hum Reprod* 2011;**26** (Suppl. 1):i277-i278.

Mochimaru F, Sato H, Kobayaski T, Iizuka R. Physical and mental development of children born through AID. In David G and Price WS (eds)Human artificial insemination and semen preservation. Plenum Press, New York, pp.277-282.

Newill R. A.I.D.--a review of 200 cases. *Br J Urol* 1976;**48**:139-144.

Nyboe Andersen A, Goossens V, Bhattacharya S, Ferraretti AP, Kupka MS, de Mouzon J, Nygren KG; European IVF-monitoring (EIM) Consortium, for the European Society of Human Reproduction and Embryology (ESHRE). Assisted reproductive technology and intrauterine inseminations in Europe, 2005: results generated from European registers by ESHRE: ESHRE. The European IVF Monitoring Programme (EIM), for the European Society of Human Reproduction and Embryology (ESHRE). *Hum Reprod* 2009;**24**:1267-1287.

Ping P, Zhu WB, Zhang XZ, Li YS, Wang QX, Cao XR, Liu Y, Dai HL, Huang YR, Li Z. Sperm donation and its application in China: a 7-year multicenter retrospective study. *Asian J Androl* 2011;**13**:644-648.

Prescrire. Medically assisted reproduction. *Prescrire Int* 2011;**20**:100.

Robinson JN, Forman RG, Maciocia L. Risks of donor insemination. *BMJ* 1989;**299**:1531.

Sandhu I, Diaz Diaz M, Gallagher E, Paul M, Narveker N, Savvas M, Jansa M, Hamoda H. Factors affecting the outcomes of intrauterine insemination cycles with partner sperm and donor insemination. Hum Fertil (Camb) 2011;**14(S1)**:P13.

Society for Assisted Reproductive Technology, American Fertility Society. Assisted reproductive technology in the United States and Canada: 1991 results from the Society for Assisted Reproductive Technology generated from the American Fertility Society Registry. *Fertil Steril* 1993;**59**:956-962.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States and Canada: 1993 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1995;**64**:13-21.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States and Canada: 1994 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1996;**66**:697-705.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States and Canada: 1995 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1998;**69**:389-398.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 1996 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 1999;**71**:798-807.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 1997 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 2000;**74**:641-653.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 1998 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 2002a;**77**:18-31.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 1999 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 2002b;**78**:918-931.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 2000 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 2004;**81**:1207-1220.

Society for Assisted Reproductive Technology, American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 2001 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. *Fertil Steril* 2007;**87**:1253-1266.

Steinberger E, Smith KD. Artificial insemination with fresh or frozen semen. A comparative study. *JAMA* 1973;**223**:778-783.

Sunderam S, Kissin DM, Flowers L, Anderson JE, Folger SG, Jamieson DJ, Barfield WD; Centers for Disease Control and Prevention (CDC). Assisted reproductive technology surveillance--United States, 2009. *MMWR Surveill Summ.* 2012;**61**:1-23.

Thepot F, Mayaux MJ, Czyglick F, Wack T, Selva J, Jalbert P. Incidence of birth defects after artificial insemination with frozen donor spermatozoa: a collaborative study of the French CECOS Federation on 11,535 pregnancies. *Hum Reprod* 1996;**11**:2319-2323.

Virro MR, Shewchuk AB. Pregnancy outcome in 242 conceptions after artificial insemination with donor sperm and effects of maternal age on the prognosis for successful pregnancy. *Am J Obstet Gynecol* 1984;**148**:518-524.

Wang JX, Norman RJ, Kristiansson P. The effect of various infertility treatments on the risk of preterm birth. *Hum Reprod* 2002;**17**:945-949.

Wright VC, Schieve LA, Reynolds MA, Jeng G. Assisted reproductive technology surveillance--United States, 2000. *MMWR Surveill Summ* 2003;**52**:1-16.

Wright VC, Schieve LA, Reynolds MA, Jeng G, Kissin D. Assisted reproductive technology surveillance--United States, 2001. *MMWR Surveill Summ* 2004;**53**:1-20.

Wright VC, Schieve LA, Reynolds MA, Jeng G; Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention (CDC). Assisted reproductive technology surveillance--United States, 2002. *MMWR Surveill Summ.* 2005;**54**:1-24.

Wright VC, Chang J, Jeng G, Macaluso M. Assisted reproductive technology surveillance--United States, 2003. *MMWR Surveill Summ.* 2006;**55**:1-22.

Wright VC, Chang J, Jeng G, Chen M, Macaluso M; Centers for Disease Control and Prevention. Assisted reproductive technology surveillance - United States, 2004. *MMWR Surveill Summ.* 2007;**56**:1-22.

Wright VC, Chang J, Jeng G, Macaluso M; Centers for Disease Control and Prevention (CDC). Assisted reproductive technology surveillance--United States, 2005. *MMWR Surveill Summ.* 2008;**57**:1-23.