## Supplementary Table 10. Effectiveness: live birth rate.

| **Review** | **Treatment Characteristics** | **Study Groups** | **Subgroups** | **Number of studies** | **Live birth rate per woman or couple** | | | | **Heterogeneity** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **n/N** | **%** | **Odds Ratio**  **(95% CI)** | **P-value** | **I2 (%)** | **P-value** |
| **Maternal age** | | | | | | | | | | |
| McLernon et al. (2010)\*  *Meta-analysis* | • Fresh, autologous IVF/ICSI with cleavage stage (day 2-3) embryos  • 1-2 embryos per cycle  • 1 cycle per woman/couple | Age <33 years |  | 8 | 336/915 | 36.7% | 1.37 (1.05, 1.77) | 0.02 | 0 | 0.77 |
| Age ≥33 years (ref.) | 130/446 | 29.1% |
| **Maternal weight/BMI** | | | | | | | | | | |
| Jungheim et al. (2013)  *Meta-analysis* | • Fresh donor IVF  • 1 cycle per woman/couple | BMI <20 |  | 3 | nr | nr | 0.83 (0.57, 1.21) | nr (not sig.) | 0% | nr |
| BMI 20-24.9 (ref.) | nr | nr | - |  |  |  |
| BMI 25-29.9 | nr | nr | 1.02 (0.82, 1.25) | nr (not sig.) | 0% | nr |
| BMI >30 | nr | nr | 0.91 (0.65, 1.21) | nr (not sig.) | 47.9% | nr |
| Koning et al. (2012)  *Meta-analysis* | • Fresh or frozen, autologous or donor IVF/ICSI with cleavage or blastocyst stage embryos  • 1->4 embryos per cycle  • 1 cycle per woman/couple | BMI ≤25 (ref.) |  | 7 | 1786/6709 | 26.6% | 0.90 (0.82, 1.00) | 0.04 | 0 | 0.58 |
| BMI >25 | 850/3249 | 17.9% |
| BMI ≤30 (ref.) |  | 6 | nr | nr | 0.89 (0.76, 1.03) | nr (not sig.) | nr | nr |
| BMI >30 | nr | nr |
| Rittenberg et al. (2011)  *Meta-analysis* | • Fresh or frozen, autologous IVF/ICSI with cleavage or blastocyst stage embryos  • 1-6 embryos per cycle  • 1 or more cycles per woman/couple | BMI <25 (ref.) |  | 9 | 2882/10270§ | 28.1% | 0.84 (0.77, 0.92)† | 0.0002 | 21% | 0.19 |
| BMI ≥25 | 776/3226§ | 24.1% |
| BMI <25 (ref.) |  | 5 | 2754/10616§ | 25.9% | 0.91 (0.85, 0.98)† | 0.01 | 0% | 0.86 |
| BMI 25-29.9 | 667/2831§ | 23.6% |
| BMI <25 (ref.) |  | 5 | 2754/10616§ | 25.9% | 0.80 (0.71, 0.90)† | 0.0002 | 0% | 0.77 |
| BMI ≥30 | 256/1264§ | 20.3% |
| Maheshwari et al. (2007)  *Meta-analysis* | • Fresh, autologous IVF/ICSI with cleavage or blastocyst stage embryos  • 1->3 embryos per cycle  • 1 or more cycles per woman/couple | BMI <25 | Per woman | 2 | 681/2522 | 27.0% | 0.93 (0.79, 1.09) | 0.34 | 0% | 0.34 |
| BMI ≥25 (ref.) | 397/1355 | 29.3% |
| BMI <30 |  | 2 | 907/3321 | 27.3% | 0.89 (0.73, 1.10) | 0.29 | 0% | 0.46 |
| BMI ≥30 (ref.) | 171/556 | 30.8% |
| BMI <25 | Per cycle | 2 | nr | nr | 1.35 (0.50, 3.70) | nr (not sig.) | nr | nr |
| BMI ≥25 (ref.) | nr | nr |
| **Maternal smoking** | | | | | | | | | | |
| Waylen et al. (2009)  *Meta-analysis* | • Fresh or frozen, autologous or donor IVF/ICSI with cleavage or blastocyst stage embryos  • 1->4 embryos per cycle  • 1 cycle per woman/couple in most (2 studies with >1 cycle in some women) | Non-smokers (ref.) |  | 4 | nr | nr | 0.54 (0.30, 0.99) | nr (sig.) | nr | nr |
| Smokers | nr | nr |
| Non-smokers (ref.) | Studies where age not likely to be a confounder | 3 | nr | nr | 0.41 (0.14, 1.14) | nr (not sig.) | nr | nr |
| Smokers | nr | nr |
| \* Meta-analysis of individual patient data  † Risk ratio | | | | | | | | | | |