Table G-2. Offspring outcomes: Unadjusted data included in meta-analyses for Key Question 3 and adjusted effect estimates where available from included studies

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author, Year** | **n/N\*** | | **n/N\*** | | **Weight** | **Effect estimate (95% CI)†** | | **Were there adjusted results?** | **Adjusted**  **effect**  **estimate**  **(95% CI)** | **Adjusted results different** | **Variables in model** | **Impact of adjusted results on pooled estimates** |
| **Macrosomia >4,500 g** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Cheng, 2009 | 11/273 | | 223/13,940 | | 50.7% | 2.52 (1.39, 4.56) | | Yes | 4.47 (2.26, 8.86) | no | Parity, maternal age, race or ethnicity, gestational weight gain, gestational age at delivery, year of delivery, epidural anesthesia, induction of labor, (with mode of delivery and episiotomy additionally controlled for perineal laceration, postpartum hemorrhage, shoulder dystocia, and birth trauma) |  |
| Naylor, 1996 | 7/115 | | 56/2,940 | | 30.6% | 3.20 (1.49, 6.86) | | no | n/a | n/a |  |  |
| Schwartz, 1999 | 4/91 | | 108/4,190 | | 18.7% | 1.71 (0.64, 4.53) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | **479** | | **21,070** | | **100.0%** | **2.52 (1.65, 3.84)** | |  |  |  |  | **No difference in significance if adjusted estimate was added; may increase estimate of RR** |
| **CC vs. false-positive** | | | | | | | | | | | | |
| Naylor, 1996 | 7/115 | | 12/580 | | 52.2% | 2.94 (1.18, 7.31) | | no | n/a | n/a |  |  |
| Schwartz, 1999 | 4/91 | | 28/605 | | 47.8% | 0.95 (0.34, 2.64) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | **206** | | **1185** | | **100.0%** | **1.71 (0.56, 5.24)** | |  |  |  |  | **No change** |
| **CC false positive vs. no GDM** | | | | | | | | | | | | |
| Naylor, 1996 | 12/580 | | 56/2940 | | 39.0% | 1.09 (0.59, 2.01) | | no | n/a | n/a |  |  |
| Schwartz, 1999 | 28/605 | | 108/4,190 | | 61.0% | 1.80 (1.20, 2.70) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | **1,185** | | **7,130** | | **100.0%** | **1.48 (0.91, 2.39)** | |  |  |  |  | **No change** |
| **NDDG GDM vs no GDM** | | | | | | | | | | | | |
| Adams, 1998 | 3/16 | | 0/64 | | 100.0% | 26.76 (1.45, 493.62) | | no | n/a | n/a |  | **No change** |
| **Macrosomia >4,000 g** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Berkus, 1995 | | 13/72 | 76/573 | | 7.4% | 1.36 (0.80, 2.32) | | no | n/a | n/a |  |  |
| Chico, 2005 | | 22/422 | 288/5,767 | | 10.1% | 1.04 (0.68, 1.59) | | no | n/a | n/a |  |  |
| Chou, 2010 | | 22/489 | 236/1,0116 | | 10.0% | 1.93 (1.26, 2.96) | | no | n/a | n/a |  |  |
| Hillier, 2007 | | 25/173 | 905/7,609 | | 11.8% | 1.21 (0.84, 1.75) | | no | n/a | n/a |  |  |
| Langer, 2005 | | 93/555 | 87/1,110 | | 15.5% | 2.14 (1.63, 2.81) | | no | n/a | n/a |  |  |
| Lapolla, 2011 | | 12/112 | 145/1,815 | | 7.0% | 1.34 (0.77, 2.34) | | no | n/a | n/a |  |  |
| Naylor, 1996 | | 33/115 | 395/2,940 | | 14.3% | 2.14 (1.58, 2.89) | | no |  |  |  |  |
| Pennison, 2001 | | 6/43 | 5/69 | | 2.2% | 1.93 (0.63, 5.93) | | no |  |  |  |  |
| Ricart, 2005 | | 21/263 | 292/6,350 | | 10.0% | 1.74 (1.13, 2.66) | | yes | 1.45 (0.83, 2.52) | yes | Maternal BMI, fetal sex (male), gestational age, maternal age, macrosomia (yes), PIH (yes) |  |
| Schwartz, 1999 | | 22/91 | 692/4,190 | | 11.7% | 1.46 (1.01, 2.12) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **2335** | **40,539** | | **100.0%** | **1.61 (1.35, 1.92)** | |  |  |  |  | **Adding adjusted value would not change significance** |
| **CC GDM vs. false-positive** | | | | | | | | | | | | |
| Berggren, 2011 | | 78/460 | 411/3,117 | | 30.1% | 1.29 (1.03, 1.60) | | yes | 1.25 (1.01,1.56) | no | Parity, maternal delivery age over 35 years, ethnicity, delivery year; cesarean and operative deliveries were also controlled for prior cesarean |  |
| Hillier, 2007 | | 25/173 | 122/999 | | 17.3% | 1.18 (0.79, 1.76) | | no | n/a | n/a |  |  |
| Naylor, 1996 | | 33/115 | 80/580 | | 20.0% | 2.08 (1.46, 2.96) | | no |  |  |  |  |
| Ricart, 2005 | | 21/263 | 131/1,838 | | 15.2% | 1.12 (0.72, 1.74) | | no | n/a | n/a |  |  |
| Schwartz, 1999 | | 22/91 | 119/605 | | 17.4% | 1.23 (0.83, 1.83) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **1,102** | **7,139** | | **100.0%** | **1.36 (1.10, 1.68)** | |  |  |  |  | **Adding adjusted value would not change significance** |
| **CC GDM vs 1 abnormal OGTT** | | | | | | | | | | | | |
| Berkus, 1995 | | 13/72 | 18/87 | | 31.1% | 0.87 (0.46, 1.66) | | no | n/a | n/a |  |  |
| Chico, 2005 | | 22/422 | 3/59 | | 9.3% | 1.03 (0.32, 3.32) | | no | n/a | n/a |  |  |
| Hillier, 2007 | | 25/173 | 40/288 | | 59.7% | 1.04 (0.66, 1.65) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **667** | **434** | | **100.0%** | **0.98 (0.69, 1.41)** | |  |  |  |  | **No change** |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Berkus, 1995 | | 18/87 | 76/573/ | | 20.8% | 1.56 (0.98, 2.48) | | no | n/a | n/a |  |  |
| Chico, 2005 | | 3/59 | 288/5,767 | | 4.4% | 1.02 (0.34, 3.08) | | no | n/a | n/a |  |  |
| Corrado, 2009 | | 19/152 | 39/624 | | 17.2% | 2.00 (1.19, 3.36) | | yes | 2 (1.13, 3.61) | no | Age and BMI |  |
| Hillier, 2007 | | 40/288 | 905/7,609 | | 39.0% | 1.17 (0.87, 1.57) | | no | n/a | n/a |  |  |
| Lapolla, 2007 | | 3/48 | 8/334 | | 3.3% | 2.61 (0.72, 9.50) | | no | n/a | n/a |  |  |
| Rust, 1996 | | 6/78 | 18/205 | | 6.7% | 0.88 (0.36, 2.13) | | no |  |  |  |  |
| Vambergue, 2000 | | 21/131 | 8/108 | | 8.6% | 2.16 (1.00, 4.69) | | yes | 2.5 (1.16, 5.4) | yes | Pre-pregnancy, BMI > 27, maternal age >35, multiparity, educational level. |  |
| **Total (95% CI)** | | **843** | **15,220** | | **100.0%** | **1.44 (1.13, 1.82)** | |  |  |  |  | **Adding adjusted estimates would not change significance of overall result** |
| **CC false-positive vs. no GDM** | | | | | | | | | | | | |
| Hillier, 2007 | | 122/999 | | 905/7,609 | 43.8% | 1.03 (0.86, 1.23) | | no | n/a | n/a |  |  |
| Lapolla, 2007 | | 8/128 | | 8/334 | 3.8% | 2.61 (1.00, 6.81) | | no | n/a | n/a |  |  |
| Naylor, 1996 | | 80/580 | | 395/2,940 | 35.9% | 1.03 (0.82, 1.28) | | no |  |  |  |  |
| Ricart, 2005 | | 131/1838 | | 21/263 | 14.9% | 0.89 (0.57, 1.39) | | yes | 1.33 (1.04, 1.72) | yes | Maternal BMI, fetal sex (male), gestational age, maternal age, macrosomia (yes), PIH (yes) |  |
| Schwartz, 1999 | | 2/49 | | 12/112 | 1.7% | 0.38 (0.09, 1.64) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **3,594** | | **11,258** | **100.0%** | **1.02 (0.85, 1.24)** | |  |  |  |  | **Adding adjusted estimates would not change significance of overall result** |
| **CC 1 abnormal OGTT vs. false-positive** | | | | | | | | | | | | |
| Hillier, 2007 | | 40/288 | 122/999 | | 51.7% | 1.14 (0.82, 1.59) | | no | n/a | n/a |  |  |
| Kwik, 2007 | | 42/213 | 19/197 | | 37.8% | 2.04 (1.23, 3.39) | | no | n/a | n/a |  |  |
| Lapolla, 2007 | | 3/48 | 8/128 | | 10.6% | 1.00 (0.28, 3.61) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **549** | **1,324** | | **100.0%** | **1.40 (0.89, 2.20)** | |  |  |  |  | **No change** |
| **NDDG vs no GDM** | | | | | | | | | | | | |
| Adams, 1998 | | 7/16 | 5/64 | | 100.0% | 5.60 (2.04, 15.35) | | no |  |  |  | **No change** |
| **NDDG false positive vs no GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 15/187 | 33/529 | | 21.6% | 1.29 (0.71, 2.31) | | no | n/a | n/a |  |  |
| Hillier, 2007 | | 27/326 | 83/1,432 | | 42.9% | 1.43 (0.94, 2.17) | | no | n/a | n/a |  |  |
| Retnakaran, 2008 | | 18/128 | 6/74 | | 9.7% | 1.73 (0.72, 4.18) | | no | n/a | n/a |  |  |
| Stamilio, 2004 | | 14/164 | 95/1,661 | | 25.8% | 1.49 (0.87, 2.56) | | yes | 1.79 (0.91, 3.51) | no | BMI, parity, gestational age at delivery, chronic hypertension, tobacco use, race, midtrimester serum B-fetoprotein and human chorionic gonadotropin levels, maternal age, history of preeclampsia in previous pregnancy |  |
| **Total (95% CI)** | | **805** | **3,696** | | **100.0%** | **1.44 (1.10, 1.89)** | |  |  |  |  | **Adding adjusted estimate would not change significance of overall result** |
| **WHO GDM vs no GDM** | | | | | | | | | | | | |
| Shirazian, 2008 | | 1/10 | 16/532 | | 100.0% | 3.33 (0.49, 22.70) | | no | 1.34 (0.15, 12) | no |  | **No change** |
| **WHO IGT vs no GDM** | | | | | | | | | | | | |
| Jensen, 2003 | | 98/289 | 696/2,596 | | 100.0% | 1.26 (1.06, 1.50) | | yes | 1.5 (1.1, 2.2) | no | Pre-pregnancy BMI, maternal age,parity, smoking, weight gain during pregnancy, gestational age, anamnestic risk indicators for GDM, ethnic background and clinical centre. | **No change** |
| **IADPSG GDM vs no GDM** | | | | | | | | | | | | |
| Lapolla, 2011 | | 12/112 | 145/1,815 | | 78.8% | 1.34 (0.77, 2.34) | | no | n/a | n/a |  |  |
| Morikawa, 2010 | | 1/43 | 0/160 | | 21.2% | 10.98 (0.46, 264.81) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **155** | **1,975** | | **100.0%** | **2.09 (0.39, 11.33)** | |  |  |  |  | **No change** |
| **Shoulder dystocia** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Cheng, 2009 | | 9/273 | 237/ 13,940 | | 48.40% | 1.94 (1.01, 3.73) | | yes | 2.24 (1.03,4.88) | no | Parity, maternal age, race or ethnicity, gestational weight gain, gestational age at delivery, year of delivery, epidural anesthesia, induction of labor, (with mode of delivery and episiotomy additionally controlled for perineal laceration, postpartum hemorrhage, shoulder dystocia, and birth trauma) |  |
| Chou, 2010 | | 2/489 | 11/10,116 | | 9.2% | 3.76 (0.84, 16.92) | | no | n/a | n/a |  |  |
| Landon, 2011 | | 18/455 | 3/423 | | 14.1% | 5.58 (1.65, 18.80) | | yes | 5.44 (1.81, 20.1) | no | Maternal age, gestational age at enrollment and at delivery, parity, BMI, and race and ethnicity |  |
| Langer, 2005 | | 14/555 | 7/1,110 | | 25.6% | 4.00 (1.62, 9.85) | | no | n/a | n/a |  |  |
| Pennison, 2001 | | 1/43 | 1/69 | | 2.8% | 1.60 (0.10, 24.99) | | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **1,815** | **25,658** | | **100.0%** | **2.86 (1.81, 4.51)** | |  |  |  |  | **Adding adjusted estimate would not change significance of overall result** |
| **CC GDM vs. false-positive** | | | | | | | | | | | | |
| Berggren, 2011 | | 24/460 | 109/3,117 | | 100.0% | 1.49 (0.97, 2.30) | | yes | 1.41 (0.91,2.18) | no | Parity, maternal delivery age over 35 years, ethnicity, delivery year; cesarean and operative deliveries were also controlled for prior cesarean | **No change** |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Vambergue, 2000 | | 1/131 | 4/108 | | 100.0% | 0.20 (0.02, 1.82) | | no | n/a | n/a |  | **No change** |
| **CC 1 abnormal OGTT vs. false-positive** | | | | | | | | | | | | |
| Kwik, 2007 | | 11/213 | 2/197 | | 100.0% | 5.09 (1.14, 22.66) | | no | n/a | n/a |  | **No change** |
| **NDDG GDM (unrecognized) vs. no GDM** | | | | | | | | | | | | |
| Adams, 1998 | | 3/16 | 2/64 | | 100.0% | 6.00 (1.09, 32.95) | | yes | 5.2 (1.1, 30.6) | no | Maternal BMI, age, parity, weight gain, gestational age | **No change** |
| **NDDG false-positive vs. no GDM** | | | | | | | | | | | | |
| Stamilio, 2004 | | 8/164 | 29/1,661 | | 100.0% | 2.79 (1.30, 6.01) | | yes | 2.85 (1.25, 6.51) | no | BMI, parity, gestational age at delivery, chronic hypertension, tobacco use, race, midtrimester serum B-fetoprotein and human chorionic gonadotropin levels, maternal age, history of preeclampsia in previous pregnancy | **No change** |
| **WHO IGT vs. no GDM** | | | | | | | | | | | | |
| Jensen, 2003 | | 8/289 | 33/2,596 | | 100.0% | 2.18 (1.02, 4.67) | | yes | 1.3 (0.4, 3.9) | yes | Pre-pregnancy BMI, maternal age,parity, smoking, weight gain during pregnancy, gestational age, anamnestic risk indicators for GDM, ethnic background and clinical centre. | **Adjusted estimate not statistically significant** |
| **IADPSG IGT vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 18/391 | 268/7,020 | | 100.0% | 1.21 (0.76, 1.92) | | yes | 1.31 (0.80, 2.16) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IFG vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 50/886 | 268/7,020 | | 100.0% | | 1.48 (1.10, 1.98) | yes | 1.45 (1.05, 2.00) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IGT-2 vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 5/83 | 268/7,020 | | 100.0% | | 1.58 (0.67, 3.72) | yes | 1.72 (0.68, 4.35) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IGT IFG vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 23/331 | 268/7,020 | | 100.0% | | 1.82 (1.21, 2.75) | yes | 1.87 (1.18, 2.96) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IGT vs. IFG** | | | | | | | | | | | | |
| Black, 2010 | | 18/391 | 50/886 | | 100.0% | | 0.82 (0.48, 1.38) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT vs. IGT-2** | | | | | | | | | | | | |
| Black, 2010 | | 18/391 | 5/83 | | 100.0% | | 0.76 (0.29, 2.00) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 18/391 | 23/331 | | 100.0% | | 0.66 (0.36, 1.21) | no | n/a | n/a |  | **No change** |
| **IADPSG IFG vs. IGT-2** | | | | | | | | | | | | |
| Black, 2010 | | 50/886 | 5/83 | | 100.0% | | 0.94 (0.38, 2.28) | no | n/a | n/a |  | **No change** |
| **IADPSG IFT vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 50/886 | 23/331 | | 100.0% | | 0.81 (0.50, 1.31) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT-2 vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 5/83 | 23/331 | | 100.0% | | 0.87 (0.34, 2.21) | no | n/a | n/a |  | **No change** |
| **Fetal birth injury** | | | | | | | | | | | | |
| **NDDG GDM (unrecognized) vs. no GDM** | | | | | | | | | | | | |
| Adams, 1998 | 4/16 | | 0/64 | | 100.0% | | 34.41 (1.95, 608.47) | no | n/a | n/a |  | **No change** |
| **Neonatal hypoglycemia** | | | | | | | | | | | | |
| **CC GDM vs. No GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 23/422 | 202/5,767 | | 35.1% | | 1.56 (1.02, 2.37) | no | n/a | n/a |  |  |
| Langer, 2005 | | 100/555 | 21/1,110 | | 34.8% | | 9.52 (6.02, 15.08) | no | n/a | n/a |  |  |
| Pennison, 2001 | | 10/43 | 5/69 | | 30.1% | | 3.21 (1.18, 8.76) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **1,020** | **6,946** | | **100.0%** | | **3.64 (0.96, 13.76)** |  |  |  |  | **No change** |
| **CC GDM vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Chico, 2005 | | 23/422 | 1/59 | | 100.0% | | 3.22 (0.44, 23.37) | no | n/a | n/a |  |  |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 1/59 | 202/5,767 | | 4.0% | | 0.48 (0.07, 3.39) | no | n/a | n/a |  |  |
| Corrado, 2009 | | 9/152 | 26/624 | | 27.8% | | 1.42 (0.68, 2.97) | no | n/a | n/a |  |  |
| Rust, 1996 | | 9/78 | 20/205 | | 27.4% | | 1.18 (0.56, 2.48) | no | n/a | n/a |  |  |
| Vambergue, 2000 | | 24/131 | 14/108 | | 40.0% | | 1.41 (0.77, 2.60) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **420** | **6,704** | | **100.0%** | | **1.29 (0.88, 1.91)** |  |  |  |  | **No change** |
| **NDDG GDM vs. No GDM** | | | | | | | | | | | | |
| Adams, 1998 | | 0/16 | 0/64 | | Not estimable | | n/a | n/a | n/a | n/a |  | **No change** |
| **NDDG false-positive vs. no GDM** | | | | | | | | | | | | |
| Ardawi, 2000 | | 3/187 | 3/529 | | 100.00% | | 2.83 (0.58, 13.89) | no | n/a | n/a |  | **No change** |
| **NDDG 1 abnormal vs. no GDM** | | | | | | | | | | | | |
| Kim, 2002 | | 2/122 | 1/577 | | 100.00% | | 9.60 (0.86, 106.73) | no | n/a | n/a |  | **No change** |
| **WHO IGT vs. WHO no GDM** | | | | | | | | | | | | |
| Jensen, 2003 | | 6/281 | 63/2,596 | | 76.60% | | 0.88 (0.38, 2.01) | yes | 0.7 (0.2, 2.2) | no | Pre-pregnancy BMI, maternal age,parity, smoking, weight gain during pregnancy, gestational age, anamnestic risk indicators for GDM, ethnic background and clinical centre. |  |
| Nord, 1995 | | 2/223 | 3/391 | | 16.50% | | 1.17 (0.20, 6.94) | no | n/a | n/a |  |  |
| Yang, 2002 | | 1/102 | 1/302 | | 6.90% | | 2.96 (0.19, 46.91) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **606** | **3,289** | | **100.00%** | | **1.00 (0.49, 2.07)** |  |  |  |  | **Adding adjusted estimate would not change statistical significance of overall result** |
| **Hyperbilirubinemia** | | | | | | | | | | | | |
| **CC GDM vs. No GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 17/422 | 144/5,767 | | 49.80% | | 1.61 (0.99, 2.64) | no | n/a | n/a |  |  |
| Langer, 2005 | | 78/555 | 23/1,110 | | 50.20% | | 6.78 (4.31, 10.68) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **977** | **6,877** | | **100.00%** | | **3.32 (0.80, 13.74)** |  |  |  |  | **No change** |
| **CC GDM vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Chico, 2005 | | 17422/ | 1/59 | | 100.00% | | 2.38 (0.32, 17.53) | no | n/a | n/a |  | **No change** |
| **CC false-positive vs. no GDM** | | | | | | | | | | | | |
| Bo, 2004 | | 42/315 | 4/91 | | 100.00% | | 3.03 (1.12, 8.23) | no | n/a | n/a |  | **No change** |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Vambergue, 2000 | | 2/131 | 0/108 | | 100.00% | | 4.19 (0.20, 88.20) | no | n/a | n/a |  | **No change** |
| **NDDG false-positive vs. no GDM** | | | | | | | | | | | | |
| Ardawi, 2000 | | 22/187 | 58/529 | | 100.00% | | 1.07 (0.68, 1.70) | no | n/a | n/a |  | **No change** |
| **WHO IGT vs. WHO no GDM** | | | | | | | | | | | | |
| Jensen, 2003 | | 6/281 | 83/2,596 | | 42.40% | | 0.67 (0.29, 1.52) | no | n/a | n/a |  |  |
| Nord, 1995 | | 10/223 | 28/391 | | 57.60% | | 0.63 (0.31, 1.26) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **504** | **2,987** | | **100.00%** | | **0.64 (0.38, 1.10)** |  |  |  |  | **No change** |
| **IADPSG IGT vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 72/391 | 980/7,020 | | 100.00% | | 1.32 (1.06, 1.64) | yes | 1.33 (1.02, 1.74) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IFG vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 128/886 | 980/7,020 | | 100.00% | | 1.03 (0.87, 1.23) | yes | 1.04 (0.85, 1.27) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IGT-2 vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 18/83 | 980/7,020 | | 100.00% | | 1.55 (1.03, 2.35) | yes | 1.56 (0.92, 2.65) | yes | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **Adjusted result is not statistically significant** |
| **IADPSG IGT OFG vs. no GDM** | | | | | | | | | | | | |
| Black, 2010 | | 45/331 | 980/7,020 | | 100.00% | | 0.97 (0.74, 1.29) | yes | 0.96 (0.69, 1.33) | no | Adjusted for maternal age, race/ethnicity, parity, prepregnancy BMI, gestational weight gain, infant sex, and gestational age at OGTT | **No change** |
| **IADPSG IGT vs. IFG** | | | | | | | | | | | | |
| Black, 2010 | | 72/391 | 128/886 | | 100.0% | | 1.27 (0.98, 1.66) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT vs. IGT-2** | | | | | | | | | | | | |
| Black, 2010 | | 72/391 | 18/83 | | 100.0% | | 0.85 (0.54, 1.34) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 72/391 | 45/331 | | 100.0% | | 1.35 (0.96, 1.91) | no | n/a | n/a |  | **No change** |
| **IADPSG IFG vs. IGT-2** | | |  | |  | |  |  |  |  |  |  |
| Black, 2010 | | 128/  886 | 18/83 | | 100.0% | | 0.67 (0.43, 1.03) | no | n/a | n/a |  | **No change** |
| **IADPSG IFG vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 128/  886 | 45/331 | | 100.0% | | 1.06 (0.78, 1.46) | no | n/a | n/a |  | **No change** |
| **IADPSG IGT-2 vs. IGT IFG** | | | | | | | | | | | | |
| Black, 2010 | | 18/83 | 45/331 | | 100.0% | | 1.60 (0.98, 2.61) | no | n/a | n/a |  | **No change** |
| **Fetal Birth Trauma/ Injury** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Cheng, 2009 | | 12/273 | 516/13,940 | | 100.00% | | 1.19 (0.68, 2.08) | yes | 1.26 (0.66, 2.42) | no | Parity, maternal age, race or ethnicity, gestational weight gain, gestational age at delivery, year of delivery, epidural anesthesia, induction of labor, (with mode of delivery and episiotomy additionally controlled for perineal laceration, postpartum hemorrhage, shoulder dystocia, and birth trauma) | **No change** |
| **NDDG GDM vs. No GDM** | | | | | | | | | | | | |
| Adams, 1998 | | 4/16 | 0/64 | | 100.0% | | 34.41 (1.95, 608.47) | no | n/a | no |  | **No change** |
| **WHO IGT vs. no GDM** | | | | | | | | | | | | |
| Nord, 1995 | | 1/223 | 6/391 | | 100.00% | | 0.29 (0.04, 2.41) | no | n/a | n/a |  |  |
| Yang, 2002 | | 0/102 | 0/302 | | 0.00% | | Not estimable | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **325** | **693** | | **100.00%** | | **0.29 (0.04, 2.41)** |  |  |  |  | **No change** |
| **Fetal Morbidity/Mortality** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 0/422 | 29/5,767 | | 10.10% | | 0.23 (0.01, 3.78) | no | n/a | n/a |  |  |
| Chou, 2010 | | 1/489 | 42/10,116 | | 16.80% | | 0.49 (0.07, 3.57) | no | n/a | n/a |  |  |
| Langer, 2005 | | 0/555 | 0/1,110 | |  | | Not estimable | no | n/a | n/a |  |  |
| Lapolla, 2011 | | 18/112 | 132/1,815 | | 46.80% | | 2.21 (1.40, 3.48) | no | n/a | n/a |  |  |
| Ricart, 2005 | | 0/263 | 25/6350 | | 10.10% | | 0.47 (0.03, 7.73) | no | n/a | n/a |  |  |
| Schwartz, 1999 | | 1/154 | 16/7,207 | | 16.40% | | 2.92 (0.39, 21.92) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **1,995** | **32,365** | | **100.00%** | | **1.23 (0.46, 3.30)** |  |  |  |  | **No change** |
| **CC GDM vs. false-positive** | | | | | | | | | | | | |
| Ricart, 2005 | | 0/263 | 7/1,838 | | 49.10% | | 0.46 (0.03, 8.11) | no | n/a | n/a |  |  |
| Schwartz, 1999 | | 1/154 | 1/1,066 | | 50.90% | | 6.92 (0.44, 110.10) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **417** | **2,904** | | **100.00%** | | **1.83 (0.11, 29.41)** |  |  |  |  | **No change** |
| **CC GDM vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Chico, 2005 | | 0/422 | 0/59 | | n/a | | Not estimable | no | n/a | n/a |  | **No change** |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Chico, 2005 | | 0/59 | 29/5,767 | | 3.40% | | 1.63 (0.10, 26.36) | no | n/a | n/a |  |  |
| Rust, 1996 | | 15/78 | 40/205 | | 93.90% | | 0.99 (0.58, 1.68) | no | n/a | n/a |  |  |
| Vambergue, 2000 | | 1/131 | 0/108 | | 2.60% | | 2.48 (0.10, 60.20) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **268** | **6,080** | | **100.00%** | | **1.03 (0.61, 1.72)** |  |  |  |  | **No change** |
| **CC false-positive vs. no GDM** | | | | | | | | | | | | |
| Bo, 2004 | | 4/315 | 2/91 | | 17.40% | | 0.58 (0.11, 3.10) | no | n/a | n/a |  |  |
| Ricart, 2005 | | 7/1,838 | 25/6,350 | | 70.50% | | 0.97 (0.42, 2.23) | no | n/a | n/a |  |  |
| Schwartz, 1999 | | 1/1,066 | 16/7,207 | | 12.10% | | 0.42 (0.06, 3.18) | no | n/a | n/a |  |  |
| **Total (95% CI)** | | **3,219** | **13,648** | | **100.00%** | | **0.80 (0.40, 1.61)** |  |  |  |  | **No change** |
| **CC false-positive vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Kwik, 2007 | | 0/197 | 0/213 | | n/a | | Not estimable | no | n/a | n/a |  | **No change** |
| **NDDG false-positive vs. no GDM** | | | | | | | | | | | | |
| Ardawi, 2000 | | 2/187 | 4/529 | | 47.00% | | 1.41 (0.26, 7.66) | no | n/a | n/a |  |  |
| Stamilio, 2004 | | 2/164 | 6/1,661 | | 53.00% | | 3.38 (0.69, 16.59) | yes | 4.61 (0.77, 27.48) | no | BMI, parity, gestational age at delivery, chronic hypertension, tobacco use, race, midtrimester serum B-fetoprotein and human chorionic gonadotropin levels, maternal age, history of preeclampsia in previous pregnancy |  |
| **Total (95% CI)** | | **351** | **2,190** | | **100.00%** | | **2.24 (0.70, 7.14)** |  |  |  |  | **Adding adjusted estimate would not change significance of overall result** |
| **NDDG 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Kim, 2002 | 0/122 | | 2/577 | | 100.00% | | 0.94 (0.04, 19.69) | no | n/a | n/a |  | **No change** |
| **WHO IGT vs. no GDM** | | | | | | | | | | | | |
| Aberg, 2001 | 1/126 | | 13/4,515 | | 22.90% | | 2.76 (0.36, 20.91) | no | n/a | n/a |  |  |
| Nord, 1995 | 3/223 | | 7/391 | | 52.20% | | 0.75 (0.20, 2.88) | no | n/a | n/a |  |  |
| Yang, 2002 | 2/102 | | 2/302 | | 24.80% | | 2.96 (0.42, 20.75) | no | n/a | n/a |  |  |
| **Total** | **451** | | **5,208** | | **100.0%** | | **1.42 (0.54, 3.75)** |  |  |  |  | **No change** |
| **IADPSG GDM vs. no GDM** | | | | | | | | | | | | |
| Lapolla, 2011 | 18/112 | | 132/1,815 | | 100.00% | | 2.21 (1.40, 3.48) | no | n/a | n/a |  | **No change** |
| **Prevalence of Childhood Obesity (>85th percentile)** | | | | | | | | | | | | |
| **CC GDM vs. no GDM** | | | | | | | | | | | | |
| Hillier, 2007 | 60/173 | | 1788/7,609 | | 100.00% | | 1.48 (1.20, 1.82) | yes | 1.89 (1.30, 2.76) | no | Maternal age, parity, weight gain during pregnancy, ethnicity, macrosomia at birth (4,000 g), and sex of child | **No change** |
| **CC GDM vs. false-positive** | | | | | | | | | | | | |
| Hillier, 2007 | 60/173 | | 233/999 | | 100.00% | | 1.49 (1.18, 1.88) | no | n/a | n/a |  | **No change** |
| **CC GDM vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Hillier, 2007 | 60/173 | | 77/288 | | 100.00% | | 1.30 (0.98, 1.72) | no | n/a | n/a |  | **No change** |
| **CC false-positive vs. no GDM** | | | | | | | | | | | | |
| Hillier, 2007 | 233/999 | | 1788/7,609 | | 100.00% | | 0.99 (0.88, 1.12) | yes | 0.98 (0.81, 1.17) | no | Maternal age, parity, weight gain during pregnancy, ethnicity, macrosomia at birth (4,000 g), and sex of child | **No change** |
| **CC false-positive vs. 1 abnormal OGTT** | | | | | | | | | | | | |
| Hillier, 2007 | 233/999 | | 77/288 | | 100.00% | | 0.87 (0.70, 1.09) | no | n/a | n/a |  | **No change** |
| **CC 1 abnormal OGTT vs. no GDM** | | | | | | | | | | | | |
| Hillier, 2007 | 77/288 | | 1788/7,609 | | 100.00% | | 1.14 (0.94, 1.38) | yes | 1.37 (1.01, 1.84) | yes (result becomes significant) | Maternal age, parity, weight gain during pregnancy, ethnicity, macrosomia at birth (4,000 g), and sex of child |  |

\* The information presented in these columns is number of patients with the outcome / numbers of patients per group.

† The effect estimates are risk ratios with 95% confidence intervals.

BMI = body mass index; CC = Carpenter-Coustan; CI = confidence interval; GDM = gestational diabetes mellitus; IADPSG = International Association of Diabetes and Pregnancy Study Groups; IFG = impaired fasting glucose; IFT = impaired fasting tolerance; IGT = impaired glucose tolerance; IGT-2 = double impaired glucose tolerance; NDDG = National Diabetes Data Group; n = number of patients with the outcome; N = numbers of patients per group; n/a = not applicable; OGTT = oral glucose tolerance test; PIH = Pregnancy induced hypertension;SD = standard deviation; WHO = World Health Organization