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| **Supplemental Table 3.** Age-adjusted Prevalence Ratios for Birth Defects Among Users of Specific Assisted Reproductive Technology Procedures Compared to Fertile Women |
| **Birth Defect** | **Assisted Hatching****Prevalence Ratiob (95% CI)** | **Frozen Cycle****Prevalence Ratiob (95% CI)** | **ICSIa****Prevalence Ratiob (95% CI)** |
| Overall c,d | 1.5 (1.2-1.8) | 1.4 (1.3-1.6) | 1.3 (1.1.-1.5) |
| Cardiac Defectsd | 1.8 (1.3-2.5) | 1.4 (1.3-1.6) | 1.4 (1.2-1.5) |
| Non-Cardiac Defects | 1.3 (1.0-1.7) | 1.4 (1.2-1.5) | 1.2 (1.0-1.5) |
| Hypospadiase | 2.0 (1.1-3.4) | 1.8 (1.3-2.5) | 1.5 (1.0-2.5) |

95% CI: 95% confidence interval.

aIntracytoplasmic sperm injection.

bAdjusted for maternal age (<35, >35 years). Fertile group is referent.

cAny defect collected as part of surveillance by the Massachusetts Birth Defects Monitoring Program as described in Supplemental Table 1.

Excludes cases with a Mendelian gene syndrome or chromosomal defect.

dExcludes patent ductus arteriosus.

ePrevalence per 10,000 male live births.