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| **Supplemental Table 2.** Prevalence Rates and Age-Adjusted Prevalence Ratios for Nonchromosomal Birth Defects among Women Using Assisted Reproductive Technology and Fertile Women Stratified by Maternal Age |
|   | **Maternal Age <35 years** |  | **Maternal Age ≥35 years** |
|  | **ARTa exposed****Rate** | **ARTa Unexposed, Fertile Rate** | **Prevalence****Ratiob** |  | **ARTa exposed** | **ARTa Unexposed, Fertile** | **Prevalence** **Ratiob** |
| **Birth Defect** | **n=7,375** | **n=352,026** | **(95% CI)** |  | **n=10,453** | **n=93,044** | **(95% CI)** |
| Overall c,d | 207.5 | 138.5 | 1.5 (1.3-1.8) |  | 193.2 | 140.4 | 1.4 (1.2-1.6) |
| Cardiacd | 59.7 | 37.4 | 1.6 (1.2-2.2) |  | 67.0 | 43.4 | 1.5 (1.2-2.0) |
| Conotruncal/Aortic Arch | 10.8 | 6.6 | 1.6 (0.8-3.3) |  | 14.3 | 6.6 | 2.2 (1.2-3.8) |
| Tetralogy of Fallot | 8.1 | 3.0 | 2.7 (1.2-6.2) |  | 10.5 | 2.8 | 3.8 (1.9-7.6) |
| Left-sided obstruction | - | - | - |  | 7.7 | 7.1 | 1.1 (0.5-2.2) |
| Right-sided obstruction | 8.1 | 6.6 | 1.2 (0.6-2.8) |  | 10.5 | 8.0 | 1.3 (0.7-2.5) |
| Pulmonary valve stenosis | 6.8 | 5.3 | 1.3 (0.5-3.1) |  | 9.6 | 6.6 | 1.5 (0.8-2.8) |
| Septal heart defects | 36.6 | 20.0 | 1.8 (1.2-2.7) |  | 35.4 | 22.6 | 1.6 (1.1-2.2) |
| Atrial septal defecte | 21.7 | 13.6 | 1.6 (1.0-2.6) |  | 25.8 | 15.6 | 1.7 (1.1-2.5) |
| Ventricular septal defectr | 16.3 | 7.9 | 2.1 (1.2-3.7) |  | 13.4 | 8.5 | 1.6 (0.9-2.8) |
| Non-cardiac Defect | 161.4 | 109.9 | 1.5 (1.2-1.8) |  | 134.9 | 106.0 | 1.3 (1.1-1.5) |
| Central nervous system | 12.2 | 12.4 | 1.0 (0.5-1.9) |  | 10.5 | 10.5 | 1.0 (0.5-1.9) |
| Respiratory | - | - | - |  | 6.7 | 3.3 | 2.0 (0.9-4.6) |
| Orofacial | 16.3 | 15.7 | 1.0 (0.6-1.8) |  | 18.2 | 15.8 | 1.2 (0.7-1.8) |
| Cleft Lip with/without cleft palate | 8.1 | 7.1 | 1.2 (0.5-2.6) |  | 11.5 | 6.8 | 1.7 (0.9-3.1) |
| Gastrointestinal | 24.4 | 14.2 | 1.7 (1.1-2.8) |  | 18.2 | 13.8 | 1.3 (0.8-2.1) |
| Genitourinary | 47.5 | 31.6 | 1.5 (1.1-2.1) |  | 46.9 | 38.0 | 1.2 (0.9-1.7) |
| Hypospadias, 2nd or 3rd degreeg | 47.1 | 22.8 | 2.0 (1.2-3.2) |  | 49.6 | 27.8 | 1.7 (1.1-2.5) |
| Obstructive genitourinary defect | 14.9 | 12.0 | 1.2 (0.7-2.3) |  | 16.3 | 12.4 | 1.3 (0.8-2.2) |
| Musculoskeletal | 62.4 | 42.7 | 1.5 (1.1-2.0) |  | 48.8 | 34.9 | 1.4 (1.0-1.9) |
| Club foot | 16.3 | 12.2 | 1.3 (0.8-2.4) |  | 12.4 | 8.7 | 1.4(0.8-2.6) |
| Craniosynostosis | 10.8 | 3.7 | 2.9 (1.4-5.9) |  | 5.7 | 4.7 | 1.2 (0.5-2.8) |
| Polydactyly/Syndactyly | 19.0 | 13.2 | 1.4 (0.8-2.4) |  | 10.5 | 11.4 | 0.9 (0.5-1.7) |

95% CI: 95% confidence interval. Prevalence rates reported per 10,000 live births. Prevalence estimates not calculated for case counts less than 6.

aAssisted reproductive technology.

bFertile 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.

eDoes not include primum type.

f Does not include canal type or isolated muscular type.

gPrevalence per 10,000 male live births.