**Table S1.** Studies on Paternal Tobacco Smoking and Risk of Childhood Acute non-Lymphocytic Leukemia.

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| **Study** | **Cases/controls** | **Confounders/matching variables** | **Main results for paternal smoking** |
| Magnani et al, 1990 | 22/228 | Analysis adjusted for socioeconomic status | Paternal smoking up to the child’s birth (no/yes): OR 0.9 (95%CI 0.3–2.1) |
| Shu et al, 1996 | 79/?(≤158) | Matched analysis (birth year, telephone area code, and exchange number) adjusted for sex, paternal age, education, and maternal alcohol consumption during pregnancy | No. of cigarettes smoked during the month prior to pregnancy:  None: 1.00 (Ref.)  1-10: OR 0.42 (95%CI 0.09–1.95)  11-20: OR 0.73 (95%CI 0.27–1.94)  >20: OR 1.29 (95%CI 0.44–3.74) |
| Ji et al, 1997 | 52/52 | Matched analysis (age and sex) adjusted for birth weight, income, paternal age, education, and alcohol drinking. | Pack years before conception:  0 pack years: OR 1.0 (Ref.)  ≤2 pack years: OR 0.9 (95%CI 0.1-7.3)  2–5 pack years: OR 0.6 (95%CI 0.1-3.1)  ≥5 pack years: OR 2.3 (95%CI 0.4-14.8) |
| Sorahan et al, 1997a | 151/151 | None | Change of one level for daily cigarette consumption (nonsmokers, < 10 cpd, 10-19 cpd, 20-29 cpd, 30-39 cpd, and > 40 cpd): OR 1.02 (95%CI 0.89-1.16) |
| Sorahan et al, 1997a | 115/115 | Maternal smoking | Change of one level for smoking habit (nil, slight, moderate and heavy): OR 0.98 (95%CI 0.73-1.32) |
| Sorahan et al, 1997a | 190/190 | Maternal smoking | Change of one level for smoking habit (nil, slight, moderate and heavy): OR 1.27 (95%CI 1.10-1.47) |
| Brondum et al, 1999 | 450/523 | Matched analysis (age, race, telephone area code and exchange) and adjusted for annual income, father’s race and education | One month before pregnancy (no/yes): OR 0.87 (95%CI 0.64–1.18) |
| Pang et al, 2003 | 230/6987 | Analysis adjusted for sex, age, UKCCS region, parental age, and deprivation | Preconception (no/yes): OR 1.07 (95%CI 0.80 1.43) |
| Chang et al, 2006 | 39/44 | Matched analysis (age and sex) adjusted for household income | Ever/never: OR 2.64 (95%CI 0.98–7.12)  Preconception (no/yes): OR 3.84 (95%CI 1.04–14.17) |
| Menegaux et al, 2007 | 62/567 | Analysis adjusted for age, gender, region, socio-professional category, and birth order | Before pregnancy:  None: OR 1.0 (Ref.)  ≤10 cpd: OR 0.9 (95%CI 0.5–1.7)  >10 cpd: OR 0.2 (95%CI 0.02–1.7) |
| MacArthur et al, 2008 | 39/39 | Matched analysis (age, gender and region) adjusted for maternal age at birth, maternal education, household income, ethnicity, and number of residences since birth | Cigarettes/day before pregnancy:  None: OR 1.00 (Ref.)  <10: OR 2.98 (95%CI 0.70–12.75)  11-19: OR 0.93 (95%CI 0.25–3.45)  ≥20: OR 0.90 (95%CI 0.34–2.38) |
| Rudant et al, 2008 | 102/1681 | Analysis adjusted for age, gender, parental professional category and maternal age at the time of birth | Cigarettes/day from the year prior to the child’s birth to the interview:  None: OR 1.00 (Ref.)  <10: OR 1.4 (95%CI 0.7–2.9)  11-19: OR 1.3 (95%CI 0.7–2.4)  ≥20: OR 1.7 (95%CI 1.0–2.9) |
| Metayer et al, 2013 | 135/164 | Analysis adjusted for child's age at diagnosis/reference date, sex, and Hispanic status, maternal race, and household annual income | Paternal prenatal smoking (no/yes): OR 1.36 (95%CI 0.82–2.24) |

Abbreviations: 95%CI, 95% confidence intervals; cpd, cigarettes per day; OR, odds ratio

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