Table 2.20 Case-control studies on childhood leukaemia and coffee drinking (web only)


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| Reference, location enrolment/follow-up period, study design | Population size, description, exposure assessment method | Organ site | Exposure category or level | Exposed cases/deaths | Risk estimate (95\% CI) | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Petridou et al. (1997) <br> Greece 1993-94 <br> Case-control | Cases: <br> 153; cases of childhood leukaemia (89\% were ALL) diagnosed and confirmed by bone marrow sampling. Ascertained through nationwide oncology network thought to be virtually complete. Controls: 300; Hospital controls (2 per case) selected from children hospitalized at same time as the case, matched on age and sex. Admitted with 'acute conditions' Exposure assessment method: Other; Intervieweradministered questionnaire. Included questions on maternal coffee consumption during pregnancy | Leukaemia: Childhood leukaemia | Coffee drink week <br> Yes vs No | during pregn $93$ | $\begin{aligned} & \text { v: } 3+\text { cups per } \\ & 0.89(0.55-1.46) \end{aligned}$ | Maternal age at birth, maternal education, sibship size, birth order, persons per room, Day care, maternal smoking, maternal alcohol consumption, breastfeeding, pet ownership, pregnancy radiography, pregnancy ultrasound, residential floor, house heating, hair dryer use, pregnancy anaemia, pregnancy diabetes, birth weight, neonatal jaundice, blood transfusions, allergic disease hospitalized, Total Diphtheria-tetanuspertussis shots, Bacille CalmetteGuérin vaccination, Total viral vaccination shots | Strengths: Multivariable analysis so control for confounding addressed. Limitations: All leukaemia types combined in the analysis. Lack of detail about control diagnoses. Limited exposure categories so exposure response cannot be assessed |
| Menegaux et al. <br> (2005) <br> France (Paris, Lille, Lyon, Nancy) <br> 1995-1999 <br> Case-control | Cases: <br> 280; Incident cases of childhood acute leukaemia from hospitals Controls: 288; Hospital controls same hospital, mainly orthopaedics | Leukaemia (Childhood cancer): Childhood leukaemia | Coffee intake <br> Never <br> $\leq 3$ cups/day <br> 4-8 cups/day | uring pregnanc <br> 56 <br> 162 <br> 49 | 1 <br> 1 (0.7-1.5) <br> 2.1 (1.2-3.8) | Age, sex, ethnic origin, hospital | Results were unchanged with additional adjustment for SES or maternal education, alcohol intake, smoking, early infection, breastfeeding, fetal loss, family history of cancer. Strengths: Standardized |

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| Reference, location <br> enrolment/follow-up <br> period, study design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or <br> level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) | Covariates <br> controlled |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Exposure assessment <br> method: <br> Questionnaire; Face to face <br> interview with the mother <br> using standardized <br> questionnaires that included <br> questions on coffee <br> consumption in any period <br> of the pregnancy or <br> breastfeeding. (among other <br> exposures) | Leukaemia <br> (Childhood <br> cancer): <br> Childhood Acute | Lymphocytic | Never | Coffee intake during pregnancy |  |
| Leukaemia |  |  |  |  |  |  |

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