

Table 2.2. Case-control studies of isopropyl alcohol manufacture and cancer

| Reference, study location and period | Characteristics of cases | Characteristics of controls | Exposure assessment | Organ site (ICD code) | Exposure categories | No. of exposed cases | Relative risk (95% CI)* | Adjustment for potential confounders | Comments |
|---|--|---|--|--------------------------------------|--|--------------------------|---|---|---|
| (Hu <i>et al.</i> , 2002) British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Prince Edward Island, Nova Scotia, Newfoundland, Canada, 1994-1997 | 1279 (691 male, 588 female) histologically confirmed | 5380 (2704 male, 2676 female) population controls from provincial health or financial databases or random-digit-dialing, frequency matched by 5-year age group, sex, province | Mail-in questionnaire asked about ≥ 1 year exposure to isopropyl oil (or 16 other agents) | Kidney (189) Renal cell carcinoma | Men Women | 30 5 | Adjusted OR 1.6 (1.0-2.6) 1.2 (0.4-3.5) | Age group, province, education, body mass index, pack-years of smoking, alcohol, meat consumption | 2014 incident cases (141, 7%, MD refusal; 394, 20%, questionnaires not returned; 200, 10%, excluded—not RCC?) No increased risk for longer duration of exposure (results were not shown). Source of isopropyl oil exposure not identified Unexposed are the referent group |
| (Pan <i>et al.</i> , 2005) British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Prince Edward Island, Nova Scotia, Newfoundland, Canada, 1994-1997 | 1009 (617 male, 392 female) histologically confirmed. Astrocytoma 384, glioblastomas 349, oligodendroglioma 111, ependymomas 17, other histologies 148 | 5033 (2543 male, 2490 female) population controls from provincial health or financial databases or random-digit-dialing, frequency matched by 5-year age group, sex, province | Mail-in questionnaire asked about ≥ 1 year exposure to isopropyl oil (or 17 other agents) | Brain (191) | Both genders 1-<10 years 10+ years Men Women | 23 14 9 19 4 | Adjusted OR 1.40 (0.89-2.37) 1.55 (0.81-2.94) 1.31 (0.62-2.74) 1.36 (0.81-2.39) 1.50 (0.54-5.28) | Age group, province, education, total energy intake, pack-years, alcohol P for trend =0.21 | Unexposed are the referent group Source of isopropyl oil exposure not identified |