

Magnetic fields of high voltage power lines and risk of cancer in Finnish adults: nationwide cohort study

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Abstract

Objective—To investigate the risk of cancer in association with magnetic fields in Finnish adults living close to high voltage power lines.

Design—Nationwide cohort study.

Subjects—383 700 people who lived during 1970–89 within 500 metres of overhead power lines of 110–400 kV in a magnetic field calculated to be $\geq 0.01 \mu\text{T}$. Study subjects were identified by record linkages of nationwide registers.

Main outcome measures—Numbers of observed and expected cases of cancer, standardised incidence ratios, and incidence rate ratios adjusted for sex, age, calendar year, and social class—for example, by continuous cumulative exposure per $1 \mu\text{T}$ year—with 95% confidence intervals from multiplicative models for all cancers combined and 21 selected types.

Results—Altogether 8415 cases of cancer were observed (standardised incidence ratio 0.98; 95% confidence interval 0.96 to 1.00) in adults. All incidence rate ratios for both sexes combined were non-significant and between 0.91 and 1.11. Significant excesses were observed in multiple myeloma in men (incidence rate ratio 1.22) and in colon cancer in women (1.16).

Conclusions—Typical residential magnetic fields generated by high voltage power lines do not seem to be related to the risk of overall cancer in adults. The previously suggested associations between extremely low frequency magnetic fields and tumours of the nervous system, lymphoma, and leukaemia in adults and breast cancer in women were not confirmed.

Introduction

The epidemiological evidence for a carcinogenic effect of magnetic fields comes from three parallel lines of research: firstly, studies on childhood cancer in the vicinity of power lines^{1–3}; secondly, studies on adult cancer in relation to electrical occupations or measured magnetic fields from occupational sources^{4–7}; and, thirdly, studies on adult cancer in relation to magnetic fields from non-occupational sources including power lines.^{8–10}

Eleven epidemiological studies have so far been published on adult cancer in relation to residential magnetic fields. Of them, seven studies with conflicting results and at most modest increases in risk have assessed exposures to power lines^{11–17} and four to electric blankets.^{18–21} Three studies have included all types of cancer^{11,17,21} whereas four were restricted to haematological malignancies or leukaemia,^{12–14,22} one included both leukaemia and brain tumours,²³ two were on breast cancer in women,^{15,24} and one was limited to testicular cancer.¹⁶

We investigated the effect of 50 Hz magnetic fields on the occurrence of several types of cancer. High voltage power lines were chosen as the source of magnetic fields merely because there were existing documents from power companies that allowed the retrospective estimation of exposure to magnetic fields. A nationwide exposure register was created on personal exposures to 50 Hz magnetic fields from high voltage power lines over a

period of 20 years (1970–89) in Finland, which made it possible to investigate several types of cancer in one population based cohort study. We present the results on the relation between magnetic fields of high voltage power lines and risk of cancer in adults.

Subjects and methods

ASSESSMENT OF EXPOSURE

The exposure assessment of this study was based on calculations of the average annual magnetic fields (magnetic field densities) separately for each of the years 1970–89 at all buildings located closer than 500 metres from 110 kV, 220 kV, and 400 kV overhead power lines in Finland. The baseline exposure data included the locations of buildings (exact coordinates included in the Central Population Register) and power lines (in basic maps, scale 1:20 000), as well as the voltage, apparent power, and tower types of the 110–400 kV power lines (from power company records). These data cover about 18 000 km—that is, 90% of the total length of respective power lines in Finland.

In the calculation of magnetic fields, variables such as current, typical spatial locations of phase conductors in power lines, and the shortest distance to the central point of the building were taken into account. Currents were calculated from operational/nominal voltages and apparent powers of all power lines. The exposure assessment is more thoroughly described in earlier publications.^{25–27}

RECORD LINKAGES

Further data collection was based exclusively on the linkages of nationwide registers (that is, person and building data files of the Central Population Register, Population Census 1970, and Finnish Cancer Registry). The study cohort consisted of all people who had lived in a building with a calculated magnetic field of ≥ 0.01 microtesla (μT) for any period between the years 1970–89. This means that the study population comprised both people with clearly increased exposures to residential magnetic fields of power lines and those who had been exposed only to typical residential background levels. The group with least cumulative exposure ($<0.2 \mu\text{T}$ years) served as the internal reference group in some of the cancer analyses. As the result of several successive record linkages, the summary data files of the study ended up including the following information: dates of birth and death, sex, residential history with dates of moving in and out of the building, history of exposure with calculated average annual magnetic fields for each of the calendar years between 1970–89, social class, and cancer data including primary sites, histological codes, and dates of diagnosis for all incident primary tumours.

The following primary sites of cancer were selected to be studied: overall cancer, stomach (code 151 in the *International Classification of Diseases*, seventh revision), colon (153), rectum and rectosigmoid (154), pancreas (157), larynx and epiglottis (161), lung and trachea (162.0–1), breast in women (170), uterine corpus (172), ovary (175), prostate (177), testis (178), kidney (180), bladder, ureter, and urethra (181), melanoma of the skin (190), non-melanoma of the skin (191; excludes basal cell carcinomas), nervous system (193), thyroid

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Magnetic Fields And Cancer In People Residing Near Swedish High Voltage Power Lines

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