Socioeconomic differences in cancer incidence and mortality

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This chapter summarizes accumulated data on the presence, magnitude and consistency of socioeconomic differentials in mortality and incidence of all malignant neoplasms and 24 individual types of neoplasms in 37 populations in 21 countries. More or less consistent excess risks in men in lower social strata were observed for all respiratory cancers (nose, larynx and lung) and cancers of the oral cavity and pharynx, oesophagus, stomach, and, with a number of exceptions, liver, as well as for all malignancies taken together. For women, low-class excesses were consistently encountered for cancers of the oesophagus, stomach, cervix uteri and, less consistently, liver. Men in higher social strata displayed excesses of colon and brain cancers and skin melanoma. In the two Latin American populations for which data were available, lung cancer was more frequent in higher social strata. Excesses in high female socioeconomic strata were seen in most populations for cancers of the colon, breast and ovary and for skin melanoma. Longitudinal data from England and Wales suggested widening over time of social class differences in men for all cancers combined and for cancers of the lung, larynx and stomach, and in women for all cancers combined and for cervical cancer.

In this chapter we examine data on the presence, magnitude and consistency of socioeconomic differences in cancer incidence and mortality of all malignant neoplasms and 24 individual types of neoplasms in 37 populations in 21 countries. Time trends are presented for the United Kingdom, for which historical mortality data are available (Logan, 1982).

The data for this review derive from both published and unpublished sources. A 1966–1994 MEDLINE search and reference lists of the recovered sources identified the published data. In addition, a letter requesting data on socioeconomic status and cancer mortality or incidence was mailed to 77 institutions and investigators who were considered to have access to such data.

Study design

The source data derived from surveillance systems, cohort studies and case–control studies of 35 populations. Table I provides details of the studies included. With very few exceptions, ecological studies, based on geographical rates, were excluded.

Socioeconomic indicators

The concepts of social class and socioeconomic status incorporate essential economic, political and

cultural components. Such a comprehensive conceptualization offers the obvious advantage that various empirical indicators of social class or socioeconomic status can be derived, as exemplified by occupational categories, education, housing and income (see the chapters by Susser and by Berkman and MacIntyre in this volume).

Occupation is historically the most commonly employed indicator of social class in health research and demography, at least in Europe. A widely used classification was developed by the Registrar General of England and Wales in 1911 (Table II). It has been modified at regular intervals.

The scales based on occupation usually do not consider inactive persons, and they classify correctly only a small proportion of women. Married women are frequently classified according to their husband's occupation. A number of job titles defy unique assignment into singular social categories because their positions in the social structure are ambiguous. An example is offered by a 14-category French scale introduced by Desplanques (1985). We used six of them on the basis of their prevalence and unambiguous social position in the site-specific cancer mortality tables for France.

Education is occasionally preferred as a social class indicator for adults over occupation, since it

applies not only to employed men but also to women and inactive men. In addition, it usually does not change during adult life (Valkonen, 1989). Moreover, it permits relatively valid international comparisons based on years of attained education. Usually acquired in youth, education has an additional advantage of being unaffected by a healthbased decline in social position in adults.

Housing tenure, as an indicator of wealth and income, has been mainly used in England and Wales and in Italy, in census-based record-linkage studies. An advantage of this classification is the possibility of categorizing the whole population irrespective of age and gender.

Income data are difficult to collect. Only a few studies presented in this review employed an incomebased indicator of social class.

Measures of association

For the purposes of this review, all input data were converted into ratio-type summary measures of association. A commonly reported measure in longitudinal studies was the ratio of observed and expected counts of cases, indirectly standardized for age (standardized mortality or incidence ratio; SMR or SIR) or directly (comparative mortality figures; CMF).

When relative risk figures for social categories were provided, they appear as such in Tables 1–51. This implies variable reference rates for the relative risks presented. In a number of studies, the rate for the highest social category was used as the reference. In others it was the lowest one, while in still others it was the rate for the entire population.

A number of sources provided directly standardized rates. In these instances we calculated rate ratios (RRs), with the rate for the total population as reference (RR = 1) if reported. When the population rate was not available, we used the rate for the highest social category as the reference rate.

In case–control studies, odds ratios (ORs) using a high social class category as the reference (OR = 1) were used. In some studies, for reasons of statistical stability, a social category with a large number of study subjects was employed as the reference.

Four studies (Bouchardy *et al.*, 1993; Levi *et al.*, 1988; Williams & Horm, 1977; E. Regidor, pers. commun.) provided proportional measures of association, such as proportional mortality ratios (PMRs).

A number of studies provided confidence intervals for the point estimates of the rates or ratios, while others presented *P* values, usually for the social class trend. There were yet others that did not address statistical precision in any quantitative manner. No quantitative indicator of precision is therefore given in the tables. An overall impression of precision in the different studies may be obtained from the numbers of observed cases and population sizes presented in Table I.

Detailed comparisons of social class differentials between various populations and time periods are not encouraged because of different social scales employed, different cut-points within scales, different measures of association, different methods of standardization, and other definitional and operational variations.

Presentation of data

The site-specific mortality and incidence ratios are exhaustively presented in Tables 1–51 for the cancer sites listed in Table III. Risk estimates are relative risks or their approximations (SMR, SIR, OR, RR and PMR), ordered from high to low social status. When available, the absolute number of observed cases is included (N).

For the United Kingdom, comparable historical data were available decades back in time. United Kingdom trends since 1911 are presented in Figures 1–10. Results from surveillance system statistics (*Decennial supplements*) are used for comparability purposes.

International evidence of social differences

Tables 1–51 summarize social class differences in cancer mortality and incidence by site, population and period. In the following discussion, a positive social class gradient refers to excess mortality or incidence in high social strata, and a negative gradient to excess in lower strata.

All-cause mortality (Table 1)

Mortality from all causes of death offers a convenient vantage point for the scrutiny of cancer mortality and incidence. In the present data, which are restricted to populations also providing cancer data, male mortality from all causes followed a more or less consistent negative social gradient, with deprived social categories experiencing highest risks of death. This was to be expected from more comprehensive statistics. Particularly high excess fractions for the deprived classes were encountered for men in urban Canada, Great Britain 1979–1983, Finland, France, New Zealand and London (United Kingdom).

The negative gradient was reproduced by the data for women. The social class differences were, however, less pronounced in women than in men, with the exceptions of Italy 1981–1982, Scotland 1959–1963, the United States of America 1960, and the United States population survey and census cohort (Black) 1979–1985.

All neoplasms (Tables 2-3)

Despite variations in the age structures, in the proportion of cancer deaths out of all deaths (which ranged from less than 4% in subSaharan Africa to well over 20% in established market economies in 1990; Murray & Lopez, 1994), and in the more general cause-of-death structures in the different populations, mortality from all cancers correlated fairly well with mortality from all causes of death. The majority of the populations followed a negative social gradient, which was usually less steep than for all causes of death. There were, however, a number of populations for which no consistent trend was apparent: men in California (United States) 1960, Hungary, Japan and Norway; and women in Hungary, Italy, Japan and Norway.

Incidence data for all cancers were available for a smaller number of populations than data for allcancer mortality. The negative social class trend was less obvious than for mortality. Negative trends were seen in Finland, Turin (Italy), Du Pont employees (United States), England and Wales, Spain and, to a lesser extent, Denmark. An inverted trend was suggested for men in Cali (Colombia), with the highest incidence being associated with the highest social category. There was no trend for either men or women in Sweden, women in Cali (Colombia) and women in Denmark.

Cancers of the mouth and pharynx (Tables 4-5)

In men, an excess mortality from cancers of the oral cavity and pharynx in the socially disadvantaged categories was evident in all populations for which data for these sites were available, with the exception of Japan and California (United States) (Table 4). The negative trend was particularly pronounced in Great Britain 1979–1983, France, Italy and New Zealand. The São Paolo (Brazil) data for men differentiated between mortality from cancers of the mouth and pharynx, with the social gradient for cancer of the mouth appearing weaker than that for pharynx. Women's mortality data did not reveal clear-cut social trends, except for data from the United Kingdom, which suggested a negative trend.

No general picture emerged from the incidence data (Table 5). For cancer of the mouth, there were positive [Cali (Colombia); men], and negative (Denmark, men; Sweden, women) trends, although most data were not suggestive of any trend. For pharynx cancer, data for women in Cali (Colombia), Finland and Sweden, and data for men in the United States 1969–1971 and possibly Denmark, suggested a negative social gradient. No population revealed a clear positive trend.

Cancer of the oesophagus (Tables 6–7)

With the exception of the slightly irregular trend in the earlier New Zealand data, excess mortality in men from cancer of the oesophagus concentrated on the lower social strata (Table 6). Incidence data for men followed the same pattern (Table 7) but this was less pronounced. An inverted association was seen for men in Cali (Colombia) and in the United States. Mortality and incidence data for women followed a negative trend in the majority of the populations.

Stomach cancer (Tables 8–9)

Male mortality from stomach cancer showed a highly consistent tendency towards an excess in lower socioeconomic groups (Table 8). Risks rose steeply and usually regularly from the top to the bottom of the social scale. Incidence data for men followed the mortality trend (Table 9). The negative gradient was also identified in women, except for indeterminate trends in the mortality data of Hungary, Norway and Vaud (Switzerland), and incidence data of Denmark.

Colon cancer (Tables 10–11)

In most countries a positive social class gradient was observed for colon cancer in both genders. Low risks were associated with low social strata, both for mortality (Table 10) and incidence (Table 11). The trend is well exemplified by data for mortality in both sexes in Sao Paolo (Brazil) and for incidence in men in Finland and Hong Kong. A considerable number of exceptions to the positive gradients were observed, however, particularly in North America.

Cancer of the rectum (Tables 12-13)

No consistent social trend emerged for cancer of the rectum. Mortality data for men in Sao Paolo (Brazil) and incidence data for men in Hong Kong and Istanbul (Turkey) revealed highest risks in high social groups, while the opposite trend was suggested by mortality data of the United Kingdom during the 1970s and 1980s, and incidence data of Cali (Colombia), Milan (Italy) and, to a lesser extent, Montreal (Canada). In the remaining populations, no clear trends could be identified.

Patterns for women were similar to those for men. Hungary 1980 and Sao Paolo (Brazil) mortality data, and Hong Kong incidence data, displayed highest risks among high social categories, while mortality data for the United Kingdom and incidence data for Cali (Colombia) and Milan (Italy) suggested the opposite trend.

Liver cancer (Tables 14–15)

The data suggested either a negative social gradient (excess risk concentrating in lower social classes) or no gradient. Negative trends were identified for mortality in Italy (men), New Zealand (men) and Sao Paolo (Brazil; both genders). Negative trends were identified for incidence in Cali (Colombia; both genders) and possibly Denmark (men), Milan (both genders), and the United States 1969–1971 (men). The mortality data from the United Kingdom were suggestive of a negative gradient, but not consistently. There was no clear gradient in a number of other populations.

Pancreatic cancer (Tables 16–17)

Occurrence of pancreatic cancer was not consistently associated with social class. In men, pancreas cancer mortality and incidence followed irregular patterns both between and within countries. Positive and negative, but mostly indeterminate, gradients were encountered.

In women, pancreas cancer mortality was in excess in the lowest social stratum in California (United States), England and Wales 1930–1932 and 1970–1972, Great Britain 1979–1983, Japan, Sao Paolo (Brazil) and Vaud (Switzerland). Incidence data showed excesses, deficits and irregularities, none of which was of outstanding magnitude, with the exception of a doubling of incidence from the lowest to the highest social stratum in Cali (Colombia).

Cancer of the nose and nasal cavities (Tables 18–19) The data for nasal cancer was scanty, and it suggested excess rates for lower social strata but not consistently. The United Kingdom mortality data were not completely consistent but suggested a negative social class trend in both sexes. The same pattern was reproduced by the Finnish incidence data, particularly in men, but not in Denmark or Sweden.

Larynx cancer (Tables 20–21)

The data for larynx cancer suggested a clear negative social class gradient in men, with the exceptions of Cali (Colombia), Japan (mortality) and Sweden (incidence). Strong mortality excesses were observed in the lowest stratum in France, Great Britain, Italy and New Zealand, as contrasted with the upper social strata. The data for women were less consistent. Negative gradients were observed in the United Kingdom from 1959 (mortality), and less strongly in Denmark and Finland (incidence).

Lung cancer (Tables 22-23)

Male lung cancer risk followed a negative social class gradient in industrialized countries, particularly during recent decades. With the exceptions of the United Kingdom 1912-1912, England and Wales 1930–1932 and possibly 1949-1953, Scotland 1959-1963, Sao Paolo (Brazil) 1978-1982, and the United States population survey and census cohort (Black) 1979–1985, the 34 mortality gradients showed a negative trend for men. Some of the trends were based on the same data, using various indicators of socioeconomic status. The male mortality gradients were reproduced by 13 negative gradients for male incidence. The Latin American male populations [Cali (Colombia) and Sao Paolo (Brazil)] represented the only positive social class gradients.

In women, the patterns were less consistent. Some of the populations, such as those of Athens (Greece) 1978–1986, Canada, Denmark, Finland, Scotland, the United Kingdom 1970–1972 and 1979–1983 (mortality) and 1971–1981 (incidence), and the United States 1960 and 1969–1971, suggested a negative social class gradient, while others were inconsistent to varying degrees and still others, such as Cali (Colombia), Greater Athens (Greece) 1987–1989, Hungary 1980, Sao Paolo (Brazil) and Turin (Italy), suggested a positive trend.

Bone cancer (Tables 24–25)

Mortality data for bone cancer were available for New Zealand, Sao Paolo (Brazil), Switzerland and the United Kingdom, and incidence data were available for Denmark, Finland and Sweden. The numbers were small and the risk ratios therefore imprecise, except for the United Kingdom. Data for Finland (men), Sao Paolo (Brazil; both sexes) and Sweden (women, incidence) suggested a positive trend, while data for men in Great Britain 1979–1983 and for women in Sao Paolo (Brazil) revealed an excess for lower social strata.

Connective tissue cancer (Tables 26-27)

For cancer of the connective tissue, only the United Kingdom rates were available for mortality, and these suggested no clear association with social class in either men or women. Of populations with incidence data, Nordic countries showed either a somewhat elevated risk for more privileged social classes (Finland) or no tendencies, while the United States data 1969–1971 suggested a higher risk for lower social strata, when education was used as the social indicator.

Malignant melanoma (Tables 28-29)

Data for malignant melanoma suggested a regular pattern with the highest risk observed in the highest social strata, with very few exceptions. An excess in lower social strata was observed for Istanbul (Turkey) in men.

Female breast cancer (Tables 30–31)

The data for female breast cancer followed a consistent gradient rising from lower to higher social classes, with the exceptions of England and Wales 1971–1981 (incidence), Great Britain 1979–1983 (mortality) and Portugal. The excess fraction reached over 150% for Hong Kong, Istanbul (Turkey), Sao Paolo (Brazil) and the United States White population (population survey and census cohort 1979–1985). Northern European populations, with the exception of Sweden, suggested mortality excesses of about 100% for the highest social classes.

Cancers of the cervix and uterus (Tables 32–33)

Cervical cancer followed mortality and incidence gradients that increased, usually steeply, from the highest to lowest social category. The excess fractions were higher than 100% for Cali (Colombia), urban Canada 1971 and 1986, Sao Paolo (Brazil), Turin (Italy), the United Kingdom for all periods from 1949, and the United States 1960.

For cancer of the corpus uteri, the pattern was inconsistent between countries. In four populations, the excess concentrated on higher social classes: Cali (Colombia), Finland 1971–1985 (incidence), Sao Paolo (Brazil) and the United States 1969–1971. Excesses in lower classes were encountered for Canada, Denmark (mortality) and Italy, and possibly Finland (mortality 1969–1972). Irregular or no trends were observed for incidence data in Denmark, Istanbul (Turkey), Sweden or Turin (Italy).

Ovarian cancer (Tables 34-35)

A declining gradient from the highest to the lowest social class both for mortality and incidence of ovarian cancer was observed in populations of Mediterranean and South American countries. Excess fractions for the higher social strata exceeded 100% in Italy, Istanbul (Turkey) and Sao Paolo (Brazil). In the data for Canada, the United Kingdom, Japan, northern Europe, and the United States White population (population survey and census cohort 1979–1985), the socioeconomic trends were irregular or nonexistent.

Prostate cancer (Tables 36–37)

Prostate cancer mortality or incidence was not strongly associated with socioeconomic status. Positive trends with excesses in higher strata were encountered for Cali (Colombia), Finland (incidence 1971–1985 but not mortality 1969–1975) and possibly Istanbul (Turkey). Weak negative gradients were observed for England and Wales 1970–1972 and Spain.

Testis cancer (Table 38-39)

In Cali (Colombia) and northern European and United Kingdom populations, incidence data of testis cancer suggested, although not with compelling consistency, an excess in higher social categories. In a number of populations, however, no social class gradient was observed.

Bladder cancer (Tables 40-41)

Male bladder cancer mortality data did not suggest a consistent social class trend across populations. A positive gradient was observed for California (United States) 1949–1951, Japan and Norway, while a negative trend was seen for Great Britain 1979–1983, Spain, and, in a somewhat irregular fashion, New Zealand 1984–1987, with the deprived social classes being at risk with excesses up to about 100%. Data for men in England and Wales 1970-1972, Italy, New Zealand 1974-1978, Sao Paolo (Brazil) and Switzerland showed an inclination towards an inverted U-shaped trend, with the peak of the risk occurring at middle social categories. This trend may be a transient phenomenon, as suggested by the disappearance of it and the emergence of a more negative gradient in the data for subsequent decades in Great Britain and New Zealand. Data for a number of male populations were not indicative of a social gradient.

The majority of the data for women were associated with irregular or no social trends. Positive social gradients in women were represented by Finland, Italy and Sao Paolo (Brazil). The data for Spain and Vaud (Switzerland) suggested a negative trend. The United Kingdom data for women were irregular across social classes until 1979–1983, when a negative gradient emerged.

Kidney cancer (Tables 42-43)

In the majority of male populations, there was no indication of a social gradient. A positive trend was suggested, however, for seven populations: Cali (Colombia), Denmark, Finland, early United Kingdom data (in subsequent United Kingdom data, this trend disappeared and a slight tendency towards an inverted trend emerged), Sao Paolo (Brazil), Vaud (Switzerland) and possibly Japan. The Sao Paolo gradient was particularly steep, ranging from RR = 4.9for men with more than 12 years of education down to the reference level of RR = 1 for those with less than one year of education. No evidence for a negative trend was observed in any population except a weak inclination in Montreal (Canada).

The data for women showed a positive trend in England and Wales 1949–1953 and possibly Finland, and no trend for the remainder of the populations.

Brain cancer (Tables 44–45)

The majority of populations showed no association of socioeconomic status and brain cancer mortality or incidence for men. Rates appeared to be high among higher socioeconomic groups in London (United Kingdom) 1967–1987, Sao Paolo (Brazil) and Vaud (Switzerland). The same pattern was seen in earlier years in England and Wales 1930–1932 (traces of this trend were still seen in the United Kingdom data in 1949–1953 but disappeared subsequently). No evidence was found for excess risks concentrating on lower social categories.

There was also no evidence for a negative social trend in women. A positive trend was suggested by data of Cali (Colombia), Finland (a weak trend), and mortality figures for England and Wales 1949–1953 and 1970–1972. In addition, there was a weak positive incidence trend in England and Wales 1971–1981.

Cancer of the thyroid gland (Tables 46–47)

The majority of the rates for cancer of the thyroid gland did not follow a socioeconomic pattern. A negative mortality trend was suggested by the data of Vaud (Switzerland) in both sexes, and England and Wales 1959–1963 and 1970–1972 in women. Data from Cali (Colombia; women) and the United States 1969–1971 (both genders) suggested a positive trend.

Lymphomas (Tables 48–49)

The majority of mortality and incidence data for lymphomas showed no association with social class. An excess risk, particularly for Hodgkin's disease, was observed in high social strata in some populations [Brazil, Finland, Hungary and Vaud (Switzerland)].

Leukaemia (Tables 50–51)

The leukaemia data did not suggest social class trends, with the exceptions of an excess in advantaged social strata encountered in Cali (Colombia; male incidence, but the female incidence suggested an inverted gradient), England and Wales (male and female mortality 1930-1932; the gradient disappeared subsequently), Finland (male mortality), Sao Paolo (Brazil; male and female mortality) and Turin (Italy; male and female incidence; not completely consistent between social indicators used). The United States data for the White population (population survey and census cohort 1979–1985) suggested the highest male leukaemia rate in the lowest educational stratum (RR = 1.4 for those with less than four years of elementary schooling), and the highest female rate in the highest educational stratum (RR = 2.4 for those with more than four years of college education).

Time trends

Time trends for mortality by social class were available for England and Wales from 1910. There were two sources of mortality data presented in this review for England and Wales. The 1971-1975 and 1976–1981 data came from a longitudinal study, in which the occupational information, which is the basis for the social classification, was derived uniformly from the 1971 census records. In the data for 1911, 1931, 1971 and 1981, the mortality numerators were derived from occupations recorded on death certificates, while the denominators were based on census data. For reasons of possible incomparability, we did not include the longitudinal data in the trend figures (Figures 1-10) and summarized only the Decennial supplement data for 1911, 1931, 1971 and 1981. Social class trends were considered for mortality from all cancers and stomach and colon cancer for both sexes, as well as from lung cancer for men and breast and cervix cancers for women.

In men, the data suggested widening over time of social class differentials for all cancers pooled and cancers of the lung, larynx and stomach. For colon cancer, higher social classes displayed a somewhat increased mortality in 1911 and 1951, but this differential seems to have largely disappeared by 1981.

In women, the social differentials seem to have widened over decades in disfavour of lower social strata in mortality from all cancer sites combined and from cervical cancer. For stomach cancer, the relative excess mortality of social class V increased to some extent, while the deficit for class I decreased. Breast cancer mortality was in excess in higher classes until 1951. The differences started to level off thereafter, and no clear social gradient was observed in 1981. For colon cancer, the trends were inconsistent.

Conclusions

In men, a number of cancers revealed a consistent social class gradient across populations, with the risk being higher in more disadvantaged categories: respiratory cancers (nose, larynx and lung) and cancers of the mouth and pharynx, oesophagus, stomach, and, with a number of populations showing no or irregular trends, liver. Figures from Latin America, which were available for Cali (Colombia) and Sao Paolo (Brazil), represented an exception for respiratory tract, where the excesses among higher social categories suggested a higher prevalence of the main risk factor, tobacco smoking, among socially advantaged strata.

Excesses in lower social strata were suggested among women for cancers of the oesophagus, stomach and, less consistently, liver, but not for respiratory sites. Incidence and mortality from cervix uteri revealed a worldwide steep tendency to be more frequent in lower social strata.

The data for colon cancer and malignant melanoma suggested a positive social gradient in men, the rate being high in high social categories. In women the cancers for which higher social classes were at higher risk were malignant neoplasms of the colon, breast and ovary, and malignant melanoma.

For a number of cancers, social class trends were inconsistent or nonexisting: cancers of the rectum, pancreas, bone, connective tissues, prostate, testis, bladder, kidney and thyroid gland, and malignant lymphomas and leukaemias, in men; and cancers of the rectum, pancreas, nose, larynx, lung, bone, connective tissues, body of the uterus, bladder and kidney, and malignant lymphomas and leukaemias, in women.

Longitudinal data from England and Wales suggested widening over time of social class differences in men for all cancers combined and for cancers of the lung, larynx and stomach, and in women for all cancers combined and for cervical cancer.

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		Table I	. Sumn	nêly)	otsiu	udies line	luded in th	IS review ^e		
Country	w/s	Period	Sites	M/F	M/I	Design	Observed	Population size	Notes	Reference
Brazil (São Paolo)	W	1978–82	20	MF	М	CCS	85 868 ^b			Bouchardy et al., 1993
Canada (urban area)	W	1971	T+11	MF	М	SSS	23 957°	5346 550	1	Wilkins, pers. commun.
Canada	W S	1986	T+11	MF	М	SSS	25 653°	8017860	1	Wilkins, ' pers. commun.
(Montreal)		1979–85	10	Μ	1	PCC	4576	740 ^b	2	Bourbonnais & Siemiatycki, in press
Colombia (Cali)	W	1971–75	22	MF	1	SSS	~8000 ^d	903888		Cuello <i>et al.</i> , 1982
Denmark	W	1970–75		MF	М	SSS				Danmarks Statistik, 1979
	W	1970–80	25	MF	1	RLS	73095			Lynge & Thygesen, 1990
Denmark (Copenhagen)	S	1971–88	1	М	I	COH	144	5249	2	Hein, 1992
Finland	W W	1969–72 1971–85		MF MF	M M	SSS RLS	179919	2219 985° ~1600 000 ^f		Näyhä, 1977 Valkonen <i>et al</i> , 1990
France	W S	1971–85 1966–71		MF M	l M	RLS RLS		~1600 000 ^f ~800 000 ^f		Pukkala, 1995 Desplanques, 1976
	S	1975–82	T+6	М	М	RLS		$\sim \! 1000000^{f}$		Desplanques, 1985
France (Paris)	S	1989–91	1		ł	HCC	528	305 ⁹	3	Leclerc <i>et al.</i> , 1993
Greece (Greater Athens)	W	1980–81	1	F	ł	HCC	971	2250 ^g		Franceschi et al., 1991
	W	1987–89	1	F	ł	HCC	101			Katsouyanni et al., 1991
Greece (Athens)	W	1978–86	1	F	ł	HCC	51			Trichopoulos et al., 1981
Greece (Athens)	W	1979–80	1	F	ł	HCC	100			Papadimitriou et al., 1984
Hong Kong	S	1971	4	MF	1	SSS	815			Crowther et al., 1976
Hungary	W W	1970 1980	8 8	MF MF	M M	SSS SSS				Jozan, 1986 Jozan, 1986
Italy	W	1981-82	T+19	MF	M	RLS	94 163	36690 846 ^f	4	Faggiano <i>et al.</i> , 1995
Italy (Torino)	W/S	1985–87	12	MF	1	RLS	7666	30 751 ⁹	4,5	Faggiano <i>et al.</i> , 1994
Italy (Milano) Japan	S S	1983–88 1965–82	10 T+16	MF ⁿ MF	l M	HCC COH	1771	1944 ⁹ 265 118	2	Ferraroni, 1989 Hirayama, 1990

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Country	W/S	Period	Sites	M/F	M/I	Design	Observed	Population size	Notes	Reference
The Netherlands	W	1959–61	1	M	М	SSS				Van Reek,
	S	1951–81	T+1	Μ	Μ	СОН	3456	78 505	6	1986 Doornbos & Kromhout, 1990
New Zealand	W	1975–78	T+18	Μ	М	SSS	5356			Pearce &
	W	1985–87	T+18	М	М	SSS				Howard, 1986 N. Pearce,
Norway	W	1970–73	T+8	MF	Μ	SSS				pers. commun. Central Bureau of Statistics,
Portugal	W	1980–82	T+2	MF	М	CCS		3524 432		1976 M. Giraldes,
Spain	W	1980–82	14	Μ	М	CCS				pers. commun. E. Regidor,
Sweden	W	1961–70	24	MF	I	SSS	223215	2809 974 ^f		pers. commun. Vågerö &
Switzerland	W	1979–82	T+17	М	М	SSS	45 565	1617 432 ^f		Persson, 1986 C.E. Minder,
Switzerland (Vaud)	W	1977–84	14	MF	М	CCS	4461 ^b			pers. commun. Levi <i>et al.</i> ,
Turkey (Istanbul)	S	1979–84	12	MF	ł	HCC	3865	2371	3	1988 Dosemeci
UK – England & Wales UK – Great Britain	W W W W S S S W	1910–12 1921–23 1930–32 1949–53 1959–63 1970–72 1971–81 1971–81 1979–83	3 T+13 T+16 10 T+23 T+2 22	M MF M MF MF MF	M M M M M I	SSS SSS SSS SSS SSS RLS RLS	8488 ⁱ 17 402	~496 000 ^j ~496 000		<i>et al.</i> , 1993 OPCS, 1919 OPCS, 1927 OPCS, 1938 OPCS, 1958 OPCS, 1971 OPCS, 1977 OPCS, 1990 Kogevinas, 1990
UK – Scotland	W	1979–83 1949–53		M	M	SSS SSS	427812			OPCS, 1986 Registrar General of Scotland, 1956
	W	1959–63	T+7	MF	М	SSS				Registrar General of Scotland, 1970
UK – 6 cities	S	1977–81	1	Μ	I	HCC	259	489 ^g		Swerdlow et al., 1991
UK (London)	S	1967–87	T+10	М	М	СОН	1237	17 530		Davey Smith &
USA (Buffalo)	S	1945–65	1	Μ	I	PCC	247	2504		Marmot, 1991 Graham &
USA (California)	W	1949–51	13	М	Μ	SSS	10 401	2984 867		Gibson, 1972 Buell <i>et al</i> ., 1960

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Country	W/S	Period	Sites	M/F	M/I	Design	Observed	Population size	Notes	Reference
USA (Du Pont Co)	W	1959–67	2	Μ	I	СОН	1274	115000		Pell & D'Alonzo, 1970
USA (San Francisco)	S	1984–85	1	Μ	1	PCC	762	837 ^g	2	Greenberg et al., 1991
USA	S	1969–71	20	MF	I	CCS	7518 ^b		2	Williams & Horm, 1977
USA	S	1960	T+7	MF	Μ	RLS	62 400			Kitagawa & Hauser, 1973
USA (12 census samples)	S	1979–85	T+10	MF	Μ	RLS	1281 475			Rogot <i>et al.,</i> 1992

^aWhole or sample populations (W/S); time period of observation (period); number of cancer sites presented (sites: T = total mortality); gender (M/F), type of occurrence measure (M/I, mortality/incidence); study design (design: CCS, case-case proportional mortality study; COH, cohort study (interview or medical examination at the time of enrolment of participants); HCC, hospital-based case-control study; PCC, population-based case-control study; RLS, record linkage study; SSS, statistics from a surveillance system;); number of observed cases; general or control population size; notes and references.

^bCancer patients as controls.

°All causes.

^dEstimated from Parkin *et al.*, 1992.

eWhole population.

fAt-risk population.

⁹Controls.

^hAdjusted by sex.

ⁱAge 15-64.

^jAll ages.

Notes. (1) Ecological indicator of social class. (2) Adjustments for other risk factors are available in the paper. (3) Adjusted for tobacco and/or alcohol use. (4) Adjusted for geographic area of birth or residences. (5) Analysed with a case–control design. (6) Adjustment for height and health score are available in the paper.

Table II. UK Registrar General's classification as of 1971 and the prevalence of class categories among active and retired persons

Class	Description (examples)	Prevalence, %
I	Professional (e.g., accountant, doctor, lawyer)	5
H	Intermediate (e.g., manager, nurse, schoolteacher)	18
III-NM	Skilled non-manual (e.g., clerical worker, secretary, shop assistant)	12
III-M	Skilled manual (e.g., bus driver, butcher, carpenter, coal-face worker)	38
IV	Partly skilled (e.g., agricultural worker, bus conductor, postman)	18
V	Unskilled (e.g., cleaner, dock worker, labourer)	9

Table III. List of cancer sites considered in the site-specific tables in this review, and correspondent rubric of the International Classification of Diseases (9th revision)

Table	Cause of death	ICD-9	Other ICD groups occasionally included
1	All causes of death	000-999	
2–3	All cancer sites	140–139	
45	Cancer of the buccal cavity and pharynx	140–150	Mouth (ICD 141–145); pharynx (ICD 146,148–149); upper digestive–respiratory tracts (ICD 140–150,161); hypopharynx (ICD 148)
6–7	Cancer of the oesophagus	150	
8–9	Stomach cancer	151	
10–11	Colon cancer	153	Intestine (ICD 152-154); colorectal (ICD 153-154)
12-13	Cancer of the rectum	154	
14–15	Liver and gallbladder cancer	155–156	Liver (ICD 155)
16-17	Pancreatic cancer	157	
18–19	Cancer of the nose and nasal cavity	160	
20-21	Larynx cancer	161	
22–23	Lung cancer	162	
24–25	Bone cancer	170	
26–27	Connective tissue cancer	171	
28–29	Malignant melanoma	173	Skin (ICD 172–173)
30–31	Female breast cancer	174	
32–33	Cancer of the uterus	179–180,182	Cervix (ICD 180); corpus (ICD 182); other than cervix (ICD 179, 182)
34–35	Ovarian cancer	183	
3637	Prostate cancer	185	
38–39	Testis cancer	186	
40-41	Bladder cancer	188	
42–43	Kidney cancer	189	
44–45	Brain cancer	191-192	
46–47	Cancer of the thyroid gland	193	·
48–49	Lymphoma	200–203	Hodgkin's disease (ICD 201); non–Hodgkin lymphoma (ICD 202); multiple myeloma (ICD 203); other combinations
50–51	Leukaemia	204–208	Leukemias and lymphomas (ICD 200–208); lymphoid leukaemia (ICD 204); acute, chronic lymphocytic leukaemia (ICD 204 with different morphology)

		Table 1	All ce	wses m	oriality		
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Canada	Income	Q1		0.79		0.84	Surveillance system statistics
(urban area)	CMF	Q2		0.82		0.84	using 1971 census data as
1971		Q3		0.95		0.99	denominator. Neighbourhood
all ages		Q4		0.99		1.01	income quintiles as social
		Q5		1.41		1.28	indicator [R. Wilkins, pers commun.]
Canada	Income	Q1		0.72		0.84	Surveillance system statistics
(urban area)	CMF	Q2		0.80		0.83	using 1986 census data as
1986		Q3		0.89		0.95	denominator. Neighbourhood
all ages		Q4		1.08		1.03	income quintiles as social
		Q5		1.50		1.28	indicator [R. Wilkins, pers commun.]
Denmark	Occupational	Employees: I		0.79		0.98	Record-linkage study using
1970–1975	group	Employees: II		0.83		0.95	1970 census and 1970–1975
age: 20–64	SMR	Employees: III		0.96		0.96	mortality data. Employees
		Employees: IV		1.15		1.96	classified according to
		Skilled workers		1.08		1.00	educational level
		Unskilled workers		1.10		1.08	[Danmarks Statistik, 1979]
Finland	Social class	Upper white-collar		0.78		0.95	Surveillance system statistics
1969–1972	CMF	Lower white-collar		0.95		1.00	using 1970 census data as
age: 15–64		Skilled workers		0.92		1.02	denominator. Social class
(married women)		Unskilled workers		1.48		1.08	indicator based on
		Farmers		0.87		0.96	occupation [Näyhä, 1977]
Finland	Social class	Upper white-collar		1		1	Record-linkage study using
1971–1985	RR	Lower white-collar		1.38		1.15	1970, 1975 and 1980
age: 35–64		Skilled workers		1.67		1.38	census data and 1971–1985
		Unskilled workers		2.30		_	mortality
		Farmers		1.42		1.19	[Valkonen <i>et al.</i> , 1990]
France	Occupational	Managers		0.52			
1966-1971	group	Intermediate		0.70			A sample of about 800 000
age: 45–54	RR	Self-employed		0.85			of 1955 censused population followed-up until 1971. The
0		Clerks		0.86			scale shown represents a
		Skilled workers		1.09			choice of the total scale
		Unskilled workers		1.58			
France	Occupational			0.63			[Desplanques, 1973]
1966–71	group	Intermediate		0.03			A sample of about 800 000
age: 55–64	CMF	Self-employed		0.74			of 1955 censused population
	on in	Clerks		0.90			followed-up until 1971. The
		Skilled workers		1.09			scale shown represents a
		Unskilled workers		1.43			choice of the total scale [Desplanques, 1973]
France	Occupational	Managers		0.59			A sample of about 1000 000
1975–82	group	Intermediate		0.82			of 1975 censused population
age: 45–64	ČMF	Self-employed		0.88			followed-up until 1982. The
		Clerks		1.05			scale shown represents a
		Skilled workers		1.28			choice of the total scale
		Unskilled workers		1.81			[Desplanques, 1985]

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		Table 1. (Co	onid) A	llœuse	es moni	allity	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
France 1975–1982 age: 55–64	Occupational group CMF	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.65 0.92 0.93 1.20 1.21 1.40			A sample of about 1000 000 of 1975 censused population followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	1759 3380 8139 32855 12171 3237	1 1.05 1.26 1.37 1.38 1.64	290 1251 3017 16096 8802 3166	1 1.09 1.24 1.35 1.44 1.81	Record-linkage between 1981 census and mortality in the following six months [Faggiano <i>et al.</i> , 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V	0207	0.81 0.96 0.99 1	0100	0.81 1.00 0.88 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
The Netherlands 1951–1981	Education level RR	4 (high) 3 2 1 (low)		0.67 0.77 0.82 1			1951–1981 follow-up of 78 505 Dutch men medically examined in 1950–1951 for military service [Doornbos & Kronhout, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II-NM III-M IV V		1 1.03 1.11 1.20 1.47 1.97			Surveillance system statistics using 1976 census data as denominators. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I III-NM III-M IV V		1 1.35 1.27 1.67 2.06 2.03			Surveillance system statistics using 1986 census data as denominators. UK Registrar General's social class classification [Pearce & Bethwaite, pers. commun.]
Norway 19701973 age: 2069	Social class CMF	A B C D E (farmers)		0.91 1.11 1.02 1.12 0.81		0.98 1.00 1.00 1.09 0.94	Surveillance system statistics using 1970 census data as denominators. Social class based on occupation [Central Bureau of Statistics, 1976]

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		Table 1. (Co	ntd) All causes mo	oriality	
Study base	Indicators	Social scale	N Male N RR	Female RR	Study design
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V-V	0.64 0.77 1.04 1.2 1.01		Surveillance system statistics using 1980 census as denominator. UK Registrar General's social-class classification
UK – England and Wales 1910–1912 age: 15–64	Social class SMR	 V V	0.88 0.94 0.96 0.53 1.42		[Minder, pers. commun.] Surveillance system statistics using 1910 census data as denominator. For social classification see Introduction [OPCS, 1919]
UK – England and Wales 1930–1932 age: 15–64	Social class SMR	I II III IV V	0.90 0.94 0.97 1.02 1.11		Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]
UK – England and Wales 1949–1953 age: 15–64	Social class SMR	 V V	0.98 0.86 1.01 0.94 1.18		Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction [OPCS, 1958]
UK – England and Wales age: 15–64 (married women)	Social class SMR	I III-NM III-M I V	0.77 0.81 0.99 1.06 1.14 1.37	0.82 0.87 0.92 1.15 1.19 1.35	Surveillance system statistics using 1970 census data as denominator. For social classification 1970–1972 see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – England and Wales 1971–1975 age: 15–64	Social class SMR	1 11 111-NM 111-M 1V V	0.80 0.80 0.92 0.90 0.97 1.15		Record-linkage study (Longitudinal Study) between 1971 census and 1971-75 mortality data for a 1% sample of the total population. UK Registrar General's social class classification [OPCS, 1990]
UK – England and Wales 1976–1981 age: 15–64	Social class SMR	I II III-NM III-M IV V	0.67 0.77 1.05 0.96 1.09 1.25		Record-linkage study (longitudinal study) between 1971 census and 1971–1975 mortality data for a 1% sample of the total population. UK Registrar General's social class classification [OPCS, 1990]

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		Table 1. (Co	mic)) A	ll Cetter	es moili	əlitiy	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – Great Britain 1979–1980, 1982–1983 age: 20-64 (married women,	Social class SMR 20–59)	I II-NM III-M IV V	10 808 56 535 33 370 116 218 69 415 36 574	0.94 3 1.06 1.16	3532 17 518 8420 32 609 17 958 7194	0.75 0.83 0.93 1.11 1.25 1.60	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	141 2322 905 663	1 1.30 1.82 2.10			17 530 London civil servants, medically examined 1967–1969, followed-up until 1987 [Davey Smith & Marmot, 1991]
UK – Scotland 1949–1953 age: 20–64	Social class SMR	 V V		1.08 0.86 1.03 0.90 1.13			Surveillance system statistics using 1950 census data as denominator. UK Registrar General's social class classification [Registrar General for Scotland, 1956]
UK – Scotland 1959–1963 20–64 (married women)	Social class SMR	 V V		0.83 0.87 0.97 0.99 1.42		0.66 0.84 0.96 1.05 1.49	Surveillance system statistics using 1960 census data as denominators. UK Registrar General's classification. Women classified according to husband's occupation [Registrar General for Scotland, 1970]
USA 1960 age: 25–64 (white)	Educational level SMR	College High school Elementary school <8 years of school		0.77 0.79 1.07 1.14		0.80 0.89 1.08 1.31	Record-linkage study using 1960 mortality data and census [Kitagawa & Hauser, 1973]
USA (12 census samples) White population 1979–1985 age: 25+	Education SMR	College: $5+ y$ 4 y 1-3 y High school: $4 y$ 1-3 y Elementary school: 5-7 y 0-4 y	8 y	0.65 0.77 0.93 0.96 1.13 1.11 1.12 1.08		0.79 0.84 0.93 0.98 1.02 1.06 1.07 1.14	Census linkage [Rogot <i>et al.</i> , 1992]
USA Black population 1979–1985 age: 25+	Education SMR	College: 5+ y 4 y 1-3 y High school: 4 y 1-3 y Elementary school: 5-7 y 0-4 y	8 y	0.59 0.60 0.81 0.92 1.08 1.14 1.06 1.02		0.56 0.65 0.73 0.88 1.11 1.07 1.13 1.00	Census linkage [Rogot <i>et al</i> ., 1992]

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		Table 2. A	llœmo	er sile	sinonia	litiy	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada	Income	Q1		0.87		0.94	Surveillance system statistics
(urban area)	CMF	Q2		0.89		0.89	using 1971 census data as
1971		Q3		0.99		1.00	denominator. Neighbourhood
all ages		Q4		0.98		1.05	income quintiles as social
		Q5		1.22		1.11	indicator [R. Wilkins, pers commun.]
Canada	Income	01		0.00			· · · · · ·
		Q1		0.83		0.95	Surveillance system statistics
(urban area)	CMF	Q2		0.88		0.96	using 1986 census data as
1986		Q3		0.91		1.00	denominator. Neighbourhood
all ages		Q4		1.06		1.00	income quintiles as social
		Q5		1.32		1.09	indicator
							[R. Wilkins, pers commun.]
Denmark	Occupational	Employees: I		0.72		0.97	Record-linkage study using
1970–1975	group	Employees: II		0.83		1.07	1970 census and 1970–1975
age: 20–64	SMR	Employees: III		1.04		0.97	mortality data. Employees
		Employees: IV		1.19		0.99	classified according to the
		Skilled workers		1.17		1.20	educational level
		Unskilled workers		1.06		1.03	[Danmarks Statistik, 1979]
Finland	Social class	Upper white-collar		1		1	Record-linkage study using
1971–1985	RR	Lower white-collar		1.20		1.02	1970, 1975 and 1980
age 35–64		Skilled workers		1.54		1.05	censuses data and 1971-85
		Unskilled workers		1.78		-	mortality
		Farmers		1.20		0.90	[Valkonen <i>et al.</i> , 1990]
France	Occupational	Managers		0.57			A comple of chaut 000 000
1966-1971	group	Intermediate		0.37			A sample of about 800 000
age: 45–64	RR	Self-employed		0.88			of 1955 censused population followed-up until 1971.
		Clerks		1.01			
		Skilled workers		1.24			The scale shown represents
		Unskilled workers		1.32			a choice of the total scale [Desplangues, 1973]
-							
France	Occupational	Managers		0.67			A sample of about 800 000
1966–1971	group	Intermediate		0.80			of 1955 censused population
age: 55–64	RR	Self-employed		0.91			followed-up until 1971. The
		Clerks		1.04			scale shown represents a
		Skilled workers		1.27			choice of the total scale
		Unskilled workers		1.39			[Desplanques, 1973]
France	Occupational	Managers		0.43			A sample of about 1000000
1975–1982	group	Intermediate		0.60			of 1975 censused population
age: 45–54	RR	Self-employed		0.61			followed-up until 1982. The
		Clerks		0.81			scale shown represent a
		Skilled workers		0.96			choice of the total scale
		Unskilled workers		1.11			[Desplanques, 1985]
				····			[

		Table 2. (Cont	d) All (enncen:	siles n	onelliy	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
France 1975–1982 age: 45–54	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.68 0.96 0.94 1.09 1.25 1.25			A sample of about 1000 000 of 1975 censused population followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		0.88 0.98 1.56 0.87		1.19 1.33 1.17 0.93	Surveillance system statistics using 1970 census data as denominator [Jozan, 1986]
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		0.95 0.92 1.06 0.99		1.15 1.28 1.07 0.88	Surveillance system statistics using 1980 census data as denominator [Jozan, 1986]
ltaly 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate Illiterate	607 1134 2726 11688 3703 751	1 1.10 1.29 1.39 1.27 1.24	160 612 1289 6092 2651 657	1 1.03 1.03 1.00 0.94 0.90	Record-linkage between 1981 census and mortality in the following six months [Faggiano <i>et al.</i> , 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V		0.91 1.06 1.09 1		0.90 1.10 0.92 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
The Netherlands 1951–1981 age: 18	Educational level RR	4 (high) 3 2 1 (low)		0.75 0.85 0.87 1			1951–1981 follow-up of 78505 Dutch men undergoing medical examination in 1950–1951 for military service [Doornbos & Kromhout, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-MN III-M IV V		1 1.09 1.16 1.33 1.11 1.74			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce & Howard, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I II III-MN IV V		1 1.50 1.39 1.60 2.02 1.89			Surveillance system statistics using 1986 census data as denominator. UK Registrar General social-class classification [Pearce & Bethwaite, in press]

Q	l	Table 2. (Contd			
Study base	Indicators	Social scale	N Male N RR	Female RR	Study design
Norway	Social class	A	0.89	1.14	Surveillance system statistics
1970–1973	CMF	В	1.11	0.99	using 1970 census data as
age: 20–69		С	1.07	0.99	denominator. Social class
		D	1.07	1.01	indicator based on occupation
		E (farmers)	0.79	0.91	[Central Bureau of Statistics, 1976]
Portugal	Occupational	Managers	1.00	1.00	Surveillance system statistics
1980–82	group	Professionals	1.87	2.30	using 1980 census data as
age: 20–64	RR	Clerks	1.87	1.86	denominator
		Sales workers	2.13	1.08	
		Service workers	1.57	0.44	
		Agriculture,	2.34	0.32	
		forestry and fishery		0.01	
		Other manual workers	2.37	1.81	[M. Giraldes, pers. commun., SMRs calculated by authors]
Spain 1980–1982	Occupational group	Professionals and managers	0.94		Proportional analysis on death certificates
age: 30–64	PMR	Manual workers	1.15		deall'ecrimentes
Ŭ		Agricultural workers	0.90		[E. Regidor, pers commun.]
Switzerland	Social class	1	0.60		Surveillance system statistics
1979–1982	SMR	11	0.67		using 1980 census data as
age: 30–49		III-MN	1.05		denominator. UK Registrar
		III-M	1.49		General's social class
		IV-V	1.05		classification [Lehmann, 1990]
UK – England	Social class	I	0.93		Surveillance system statistics
and Wales	SMR	11	0.91		using 1910 census data as
1910–1912		. 11	1.01		denominator. For social
age: 15-64		IV	0.92		classification see Introduction
		V	1.21		[OPCS, 1919]
UK – England	Social class	I	0.83	0.97	Surveillance system statistics
and Wales	SMR		0.92	0.97	using 1930 census data as
1930–1932			0.99	1.02	denominator. For social
age: 15–64		IV	1.02	0.95	classification see Introduction.
(married womer	1)	V	1.14	1.02	Women classified according to husband's occupation [OPCS, 1938]
UK – England	Social class		0.75	0.99	Surveillance system statistics
and Wales	SMR	11	0.80	0.97	using 1970 census data as
19701972		III-NM	0.91	0.99	denominator. For social
age: 15–64		III-M	1.13	1.13	classification see Introduction.
(married women) 1)	IV	1.16	1.13	Women classified according
		V	1.31	1.16	to husband's occupation

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Study base	Indicators	Social scale	N	Male	N	Female	Study design
Study base		SUCIAI SCAIE	8 VI	RR	IV	RR	Study design
UK – England	Social class	I	33	0.70			Record-linkage study
and Wales	SMR	Table 1	165	0.75			(longitudinal study) between
1971–1975		III-NM	91	0.77			1971 census and 1971–1975
age: 15–64		III-M	402	1.02			mortality data for a 1% sample
		IV	218	1.04			of the total population. UK
		V	111	1.19			Registrar General's social class classification [OPCS, 1990]
UK – England	Social class	1	35	0.58			Record-linkage study
and Wales	SMR	11	208	0.81			(longitudinal study) between
1976–1981		III-NM	121	0.91			1971 census and 1976-1981
age: 15–64		III-M	501	1.02			mortality data for a 1% sample
		IV	254	1.07			of the total population. UK
		V	103	1.13			Registrar General's social class classification [OPCS, 1990]
UK –	Social class	1	3143	0.69	2087	0.89	Surveillance system statistics
Great Britain	SMR	11	16392		9938	0.95	using 1980 census data as
1979–1980,		III-NM	8936	0.89	4533	1.01	denominator. For social
1982-1983		III-M		1.13	16014	1.10	classification see Introduction
age: 20–64 (married		IV V	20094 9771		8309	1.17	Women classified according
women, 20–59)		V	9771	1.54	2933	1.32	to husband's occupation [OPCS, 1986]
UK (London)	Employment	Administrators	47	1			17 530 London civil servants,
1967–1987	grade	Professionals	713	1.25			medically examined
	RR	Clerical	265	1.69			1967–1969, and followed-up
		Other	212	1.99			until 1987 [Davey Smith & Marmot, 1991]
UK – Scotland	Social class	1		1.04			Surveillance system statistics
1949–1953	SMR	11		0.93			using 1950 census data as
age: 20–64				1.09			denominators. UK Registrar
		IV V		0.96			General social class classification
		v		1.06			[Registrar General for Scotland, 1956]
UK – Scotland	Social class	ł		0.77		0.76	Surveillance system statistics
1959–1963	SMR			0.82		0.98	using 1960 census data as
age: 20–64		111		1.00		0.95	denominator. UK Registrar
(married womer	ו)	IV		0.99		1.00	General's classification.
		V		1.43		1.24	Women classified according to husband's occupation
							[Registrar General for

Scotland, 1970]

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Study base	Indicators	Social scale		/lale RR	N	Female RR	Study design
US – California		I	0	.97			Surveillance system statistics
1949–1951	SMR	11		.90			using 1950 census data as
age: 25–64		111		.03			denominator. Social class
		IV		.97			indicator based on occupation
		V	1	.12			[Buell et al., 1960]
USA	Educational	College	0	.83		0.92	Record-linkage study using
1960	level	High school	0	.94		0.94	1960 mortality and census
age: 25–64	SMR	Elementary school	1.	.12		1.09	data
(white)		<8 years of school	1.	.09		1.13	[Kitagawa & Hauser, 1973]
USA	Education	College: 5+ y	0.	.34		1.08	Census linkage.
(12 census	SMR	4 y	0.	.48		0.92	3
samples)		1-3 y	0.	.88		1.07	
White population	า	High school: 4 y	1.	.01		0.99	
1979–1985		1-3 y	1.	.17		1.02	
age: 25+		Elementary school: 8	y 1.	.26		0.97	
		5-7 y	0.	.90		1.03	
		0-4 y	0.	.97		0.89	[Rogot <i>et al.,</i> 1992]
USA	Education	College: 5+ y	0.	.34		0.86	Census linkage.
(12 census	SMR	4 y	0.	.48		0.73	5
samples)		1-3 y	0.	.88		0.95	
Black populatior	1	High school: 4 y	1.	.01		0.86	
19791985		1-3 y		.17		1.17	
age: 25+		Elementary school: 8	y 1.	.26		1.05	
		5-7 y	0.	.90		1.02	
		0-4 y	0.	.97		0.92	[Rogot e <i>t al.</i> ,1992]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) all ages	Social class RR	 } 1		1 0.92 0.76		1 1.14 0.96	Data from 1973 census were used for rate denominators. Social class based on the area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	12 893 1315 2378 5949 2795 7114 15 054	0.89 0.92 0.97 1.08 1.12 1.12 1.02	334 1410 2475 6787 190	1.05 1.06 1.00 1.04 1.04 1.04 1.04	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge & Thygesen, 1990]
Finland 1971–1985 birth cohort: 1906–45	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.84 0.91 1.03 1.10	9102	1.13 1.08 0.96 0.95	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	262 599 1026 2328	1 1.03 1.04 1.15	129 436 942 1944	1 0.87 0.90 0.76	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	478 793 496 2031	1 0.97 1.05 1.14	112 489 216 451	1 0.93 0.80 0.86	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	1810 2305	1 1.14	1520 1844	1 1.06	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employees: II Indep. farmers: III White-collars: IV Blue-collars: V		1.03 1.02 0.87 1.05 1.00	2612 31 353 28 035		Record-linkage study between 1961 census and incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]
UK – England and Wales 1971–1981 all ages	Social class SIR	I II III-MN III-M IV V	274 1501 925 2880 1761 936	0.81 0.90 0.94 1.01 1.05 1.12			Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	4284 1805 2882	0.89 1.06 1.16	1607	0.97 0.97 1.05	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]

		Table 3. (Con	n(d)) /AIII	eamcer sille	stinctulent	99
Study base	Indicators	Social scale	Ν	Male N RR	Female RR	Study design
USA	Income level	1	25	0.68		1959–1967 follow-up of 115 000
(Du Pont)	SIR	2	206	0.97		employees of the Du Pont Co.
1959–1967		3	0.94	169		
all ages		4	103	1.11		
		5	771	1.03		[Pell, 1970]

Table 4. Mouth and pharynx cancer mortality

Study base	Indicators	Social scale N	Male N RR	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1	0.7 1.1 1.5 1		Case–control study using deaths from other causes as controls ICD–9: 141-5; Mouth [Bouchardy <i>et al.</i> , 1993]
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1	0.4 0.6 1.0 1		Case–control study using deaths from other causes as controls ICD-9: 146, 148, 149; Pharynx [Bouchardy <i>et al.</i> , 1993]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5	0.48 0.80 0.92 1.16 1.48		Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5	0.54 0.56 0.63 1.32 1.92	0.73 0.73 1.00 0.87 1.60	Surveillance system statistics using 1986 census data as denominators. Neighbourhood income quintiles as social indicator Bucal cavity [R. Wilkins, pers. commun.]
France 1975–1982 age: 45–54	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers	0.23 0.43 0.60 1.17 1.49 2.49		A sample of about 1000 000 of 1975 censused population followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
France 1975–1982 age: 55–64	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers	0.31 0.65 0.70 1.17 1.57 1.91		A sample of about 1000 000 of 1975 censused population followed up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]

Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate	10 19 81 433 155	1 0.88 1.82 2.58 3.42	- 11 8 56 24	- 1 0.46 0.71 0.68	Record-linkage between 1981 census and mortality in the following six months
Japan 1965–1982 age: 40+	Social class SMR	Illiterate I, II III IV V	25	3.10 0.91 1.41 1.05 1	8	0.84 0.57 1	[Faggiano <i>et al.</i> , 1995] 265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-NM III-M IV V		1 2.33 3.58 3.58 3.42 3.75			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce & Howard, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	 -NM -M V V	2 12 14 37 31 19	1 3.22 1.89 5.56 6.11 8.89			Surveillance system statistics using 1986 census data as denominators. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V		0.59 1.29 1.24	·	0.78 1.25 1.07	Proportional mortality study UK Registrar General's social class classification ICD-9: 140-150, 161 (No. of males = 403, females = 63 [Levi, 1988]
Switzerland 1979–1982 15–74	Social class SMR	 -NM -M V-V		0.46 0.62 0.80 1.40 1.26			Surveillance system statistics using 1980 census data as denominators. UK Registrar General's social class classificatio [C. E. Minder, pers commun.]
UK – England and Wales 1930–1932 age: 15–64 (married women)	Social class SMR	 V V		0.72 0.68 0.63 1.10 1.46		0.80 1.04 1.19 1.00	Surveillance system statistics using 1930 census data as denominators For social classification see Introduction. Women classified according to husband's occupatio [OPCS, 1938]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	l II III-NM III-M IV V		1.16 0.87 1.04 0.94 1.04 1.63		0.90 0.88 0.89 1.15 1.03 1.66	Surveillance system statistics using 1970 census data as denominators. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977

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	Tab	le 4. (Contd)	Mouth an	d phar	yinx e	ancer m	ortallity
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	I II III-NM III-M IV V	53 295 161 597 383 241	0.61 0.73 0.86 1.02 1.20 2.04	10 87 29 138 72 37	0.50 0.96 0.74 1.10 1.16 1.91	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
USA – California 1949–1951 age: 25–64	Social class SMR	I II IV V		0.67 0.80 1.02 1.12 1.00			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation ICD-9: 140-148 [Buell <i>et al.</i> , 1960]

Table 5. Mouth and pharynx cancer incidence										
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design			
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.60 0.53		1 1.09 1.00	Data from 1973 census were used for rate denominators. Social class based on area of residence Mouth [Cuello <i>et al.</i> , 1982]			
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 1.33 0.67		1 3.50 5.00	Data from 1973 census were used for rate denominators. Social class based on area of residence Pharynx [Cuello <i>et al</i> , 1982]			
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	61 5 9 35 15 46 70	0.83 0.67 0.71 1.20 1.22 1.48 0.94	5 1 3 9 14 0 34	0.94 0.97 0.70 1.21 0.72 1.19	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level Mouth [Lynge & Thygesen, 1990]			
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: III Employees: IV Skilled workers Unskilled workers	83 6 18 43 20 61 108	0.83 0.56 0.96 1.03 1.12 1.35 1.04	1 0 5 7 13 1 36	0.22 - 1.31 1.00 0.68 1.88 1.27	Record-linkage study using 1970 census and 1970-80 incidence data. Employees classified according to educational level Pharynx [Lynge & Thygesen, 1990]			

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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Finland 1971–1985 birth cohort: 190	Social class SIR 6–1945	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.37 0.70 0.98 1.32		1.37 1.13 0.88 1.00	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation Mouth [Pukkala, 1993]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.23 1.05 0.94 1.00		0.71 0.91 0.96 1.31	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation Pharynx [Pukkala, 1993]
ltaly (Milano) 1983–1988 age: <75	Years of education OR	12+ 7–11 <7		3 ^a 7 ^a 40 ^a	0.16 ^a 0.29 ^a 1 ^a		Hospital-based case-control study. Adjusted for sex [Ferraroni <i>et al.</i> , 1989]
ltaly (Milano) 1983–1988 age: <75	Social class RR	I, II III IV, V		3 ^a 9 ^a 27 ^a	0.50 ^a 0.43 ^a 1 ^a		Hospital-based case-control stud UK Registrar General's social class classification. Adjusted for se [Ferraroni <i>et al.</i> , 1989]
taly (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	20 52 108 298	1 0.92 1.16 1.71	 7 21 39	- 1 1.19 0.82	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data ICD-9: 140-150, 161 [Faggiano <i>et al.</i> , 1994]
taly (Torino) 1985–1987 age: 20-69	Occupational group OR	Managers Clerks Self-employed Manual workers	30 77 56 261	1 1.37 1.53 2.51			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data ICD-9: 140-150, 161 [Faggiano <i>et al.</i> , 1994]
ltaly (Torino) 1985–1987 age: 20-69	Housing tenure OR	Owners Tenants	173 289	1 1.64	20 46	1 1.99	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data ICD-9: 140-150, 161 [Faggiano <i>et al.</i> , 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Ind. farmers: III White-collar: IV Blue-collar: V	65 61 39 173 314	1.17 1.19 0.61 1.16 0.95	- 6 - 80 84	- 0.76 - 0.94 1.02	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation Mouth [Vågerö & Persson, 1986]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Ind. farmers: III White-collar: IV Blue-collar: V	36 65 19 144 260	0.81 0.52 0.41 1.11 1.00	- 1 - 23 46	- 0.33 - 0.70 1.39	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation Hypopharynx [Vågerö & Persson, 1986]

	Tab	le 5. (Contd) Mo	outh an	id pherry	inx cen	Cer ine	idence
Study base	Indicators	Social scale	N	Male RR		Female RR	Study design
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	71 41 54	0.77 1.29 1.14			Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification Mouth [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.96 1	1 1	.89	Case-control study based on US Third National Cancer Survey, using deaths for other causes as controls. Mouth. [Williams & Horm, 1977]
USA 1969–1971 all ages	Educational level OR	College Less		0.65 1	1 1		Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls Pharynx [Williams & Horm, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.78 1	1.		Case-control study based on US Third National Cancer Survey, using deaths for other causes as controls Mouth [Williams & Horm,1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.63 1	0.		Case-control study based on US Third National Cancer Survey, using deaths for other causes as controls Pharynx [Williams & Horm, 1977]

^aData not stratified by sex.

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		Table 6. Oe	ગ્રાશભૂળ્ટ	us cancer r	nortality	
Study base	Indicators	Social scale	N	Male N RR	Female RR	Study design
Brazil (São Paulo) 1978–1982	Years of education OR	12+ 9–11 1–8		0.3 0.4 0.6	0.4 0.2 0.4	Case-control study using deaths from other causes as controls
age: 35–74 France 1975–1982 age: 45–54	Occupational group RR	<1 Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		1 0.25 0.46 0.67 1.17 1.62 2.25	1	[Bouchardy <i>et al.</i> , 1993] A sample of about 1000 000 of 1975 census population followed up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
France 1975–1982 55–64	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.31 0.61 0.86 1.08 1.45 1.88		A sample of about 1000 000 of 1975 census population age: followed up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
ltaly 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	10 9 33 346 95 19	1 0.53 0.92 2.39 2.27 3.00		Record-linkage between 1981 census and mortality in the following six months [Faggiano <i>et al.</i> , 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V	15	0.86 0.95 1.07 1	 1.00 0.42 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-NIM III-M IV V		1 0.69 1.27 0.94 0.86 1.35		Surveillance system statistics using 1976 census data as denominators. UK Registrar General's social class classification [Pearce & Howard, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I II III-NM III-M IV V	4 13 18 32 37 13	1 1.58 1.21 2.32 3.58 2.95		Surveillance system statistics using 1976 census data as denominators. UK Registrar General social-class classification [Pearce & Bethwaite, in press]
Spain 1980–1982 age: 30–64	Occupational group PMR	Professionals and managers Manual workers		0.84 1.19		Proportional analysis on death certificates
		Agricultural workers		0.81		[E. Regidor, pers. commun.]

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		Table 5 (Conto	I) Oeso	phagus	Callio	er morite	litty
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V-V		0.44 0.62 0.80 1.32 1.17			Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification [C.E. Minder, pers. commun.]
UK – England and Wales 1930–1932 age: 15–64 (married women)	Social class SMR)	 V V		0.74 0.87 0.98 0.94 1.30		0.95 0.85 1.01 0.95 1.16	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I II III-NM III-M IV V		0.81 0.86 0.85 1.08 1.13 1.39		0.76 0.72 1.03 1.20 1.19 1.42	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women,	Social class SMR 20-59)	I IIIN III-M IV V	132 602 340 1267 722 356	0.80 0.77 0.93 1.12 1.14 1.51	22 125 69 231 160 55	0.65 0.80 1.01 1.07 1.45 1.58	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	1 21 6 8	1 2.2 2.6 3.8			17 530 London civil servants, medically examined 1967–1969 and, followed-up until 1987 [Davey Smith & Marmot, 1991]
USA – California 1949–1951 age: 25–64	Social class SMR	 V V		0.54 0.67 0.86 1.15 1.45			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation [Buell <i>et al.</i> , 1960]

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		Table 7. Oes	igjstigio	us can	cer in	ciclence	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 2.1 1.9			Population-based case-control study. Tertiles of total family income [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1 1.8 1.9			Population-based case-control study. Tertiles of years of education [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Occupational prestige scale OR	•		1 1.6 2.1			Population-based case-control study. Tertiles of the occupational prestige scale [Bourbonnais & Siemiatycki, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.65 0.75		1 1.25 1.75	Data from 1973 census were used for rate denominator. Social class based on area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: III Employees: IV Skilled workers Unskilled workers	146 11 22 54 24 89	0.82 0.65 0.79 0.83 0.85 1.24 1.24	8 1 5 4 17 0 35	1.56 1.05 1.36 0.59 0.97 1.26	Record-linkage study using 1970–80 incidence data and 1970 census. Employees classified according to educational level
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.61 0.80 1.03 1.35		0.29 0.77 1.08 1.26	[Lynge & Thygessen 1990] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Italy (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7		22ª 39ª 148ª	0.36 ^a 0.50 ^a 1 ^a		Hospital-based case-control study. Adjusted for sex [Ferraroni <i>et al.</i> , 1989]
Italy (Milano) 1983–1988 age: <75	Social class RR	I, II III IV, V		9 ^a 55 ^a 115 ^a	0.38 ^a 0.60 ^a 1 ^a		Hospital-based case-control study. Adjusted for sex. [Ferraroni <i>et al.</i> , 1989]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employees: II Indep. farmers: III White-collars: IV Blue-collars: V	166 195 134 461 1106	0.94 1.15 0.69 0.96 1.06	8 92 141	 0.65 0.82 1.18	Record-linkage study between 1961 census and incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupiers Private rented Council tenant	90 27 65	0.92 0.79 1.31	67 33 45	0.90 1.11 1.14	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification. [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.59 1		1.23 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams & Horm, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.23 1		0.51 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams & Horm, 1977]

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^aData not stratified by sex.

		Table 8. Stoma	ch cancer m	ortaliliy	
Study base	Indicators	Social scale N	Male N RR	Femal RR	le Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1	0.3 0.4 0.6 1	0.3 0.3 0.7 1	Case-control study using deaths from other causes as controls [Bouchardy <i>et al.</i> , 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5	0.85 1.09 0.91 0.99 1.13	0.60 0.64 1.09 1.13 1.38	Surveillance system statistics using 1971 census data as denominators. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5	1.00 0.87 0.87 1.08 1.16	0.78 0.97 1.09 1.09 1.09	Surveillance system statistics using 1986 census data as denominators. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Denmark 1970–1975 age: 20–64	Occupational group SMR	Employees: I Employees: II Employees: IV Employees: IV Skilled workers Unskilled workers	0.77 0.88 1.02 1.22 1.09 1.06	- 0.99 0.89 0.92 - 1.08	Record–linkage study using 1970 census and 1970–1975 mortality data. Employees classified according to educational level [Danmarks Statistik, 1979]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Finland	Social class	Upper white-collar		0.79		0.58	Surveillance system statistics
1969–1972	CMF	Lower white-collar		0.84		1.00	using 1970 census data as
age: 15-64		Skilled workers		0.88		1.16	denominators. Social class
(married		Unskilled workers		1.33		1.08	indicator based on occupation
women)		Farmers		1.17		1.19	[Näyhä, 1977]
Finland	Social class	Upper white-collar		1	>20	1	Record-linkage study using 1970,
1971-1985	RR	Lower white-collar		1.33	>20	1.40	1975 and 1980 census data and
age: 15–64		Skilled workers	>20	1.67	>20	1.38	1971–1985 mortality
		Unskilled workers		1.92	>20	-	
		Farmers	>20	1.67	>20	1.82	[Valkonen <i>et al.</i> , 1990]
France	Occupational	Managers		0.45			A sample of about 1000 000 of
1975–1982	group	Intermediate		0.64			1975 census population age:
45–54	RR	Self-employed		0.91			followed up until 1982. The scale
		Clerks		1.00			shown represents a choice of the
		Skilled workers		1.36			total scale
		Unskilled workers		1.27			[Desplanques, 1985]
France	Occupational	Managers		0.42			A sample of about 1000 000 of
1975–1982	groups	Intermediate		0.69			1975 census population age:
5564	RR	Self-employed		0.89			followed up until 1982. The scale
		Clerks		1.92			shown represents a choice of the
		Skilled workers		1.22			total scale
		Unskilled workers		1.00			[Desplanques, 1985]
Hungary	Years of	15+		0.46		0.70	Surveillance system statistics
1970	education	12-14		0.57		0.93	using 1970 census data as
age: 2564	SMR	8–11		1.33		0.96	denominator
		0–7		1.01		0.95	[Jozan, 1986]
lungary	Years of	15+		0.58		0.98	Surveillance system statistics
1980	education	12-14		0.79		0.96	using 1980 census data as
age: 25–64	SMR	8–11		1.00		1.11	denominator
		0–7		1.12		0.95	[Jozan, 1986]
taly .	Educational	University	36	1	7	1	Record-linkage between 1981
1981-1982	level	High school	85	1.42	33	1.23	census and mortality in the
ige: 18–74	RR	Middle school	242	1.98	78		following six months
		Primary school	1377	2.77	596	1.96	
		Literate	499	2.85	327	2.20	
		Illiterate	114	3.43	80	2.25	[Faggiano et al., 1995]
lapan	Social class	1, 11		0.78		0.76	265 000 Japanese interviewed in
965-1982	SMR	111		1.04		0.95	1965 and followed up until 1982.
ige: 40+		IV.		1.09		0.94	Social class based on occupation.
		V		1		1	Reference category is farmers
							and miners
							[Uirovama 1000]

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[Hirayama, 1990]

Study base	Indicators	Social scale	N	Male	Ν	Female	Study design
,				RR		RR	orady doorgin
New Zealand	Social class	1		1			Surveillance system statistics
1974–1978	RR	11		1.80			using 1976 census data as
age: 15–64		III-NM		2.23			denominator. UK Registrar
		III-M		3.03			General's social class
		IV V		2.20			classification
		V		4.23			[Pearce & Howard, 1986]
New Zealand	Social class	[1	6	1			Surveillance system statistics
1984–1987	RR		35	2.85			using 1986 census data as
age: 15–64		III-NM	48	2.08			denominators. UK Registrar
		III-M IV	81 54	4.27			General social-class classification
		V	54 26	1.85 4.23			[Pearce & Bethwaite, in press]
Norway	Social class	A	20			4.05	
1970–1973	CMF	B		0.78 1.11		1.05 0.99	Surveillance system statistics
age: 20–69	OWI	C		1.06		0.99 0.94	using 1970 census data as denominators. Social class indicator
age. 20 00		D		1.08		0.94 1.01	based on occupation ICD: 150-154
		E (farmers)		0.85		1.01	[Central Bureau of Statistics, 1976]
Spain	Occupational	Professionals		0.74			Proportional analysis on
19801982	group	and managers					death certificates
age: 30–64	PMR	Manual workers		1.16			
		Agricultural workers		1.14			[E. Regidor, pers commun.]
Switzerland	Social class	I, H		0.97		0.70	Proportional mortality study. UK
(Vaud)	PMR	111		0.92		1.35	Registrar General's social class
1977–1984 all ages		IV, V		1.17		0.94	classification (No. of males = 159 ;
-	0.111						females = 36) [Levi, 1988]
Switzerland	Social class			0.52			Surveillance system statistics
1979-1982	SMR			0.63			using 1980 census data as
age: 15–74		III-NM III-M		0.97			denominators. UK Registrar
		IV-V		1.25 1.07			General's social-class classification [C.E. Minder, pers. commun.]
UK – England	Social class	1		0.75			Surveillance system statistics
and Wales	SMR	•		0.96			using 1910 census data as
1910-1912				1.02			denominator. For social
age: 15–64		IV		0.91			classification see Introduction
		V		1.29			[OPCS, 1919]
UK – England	Social class	1		0.55		0.49	Surveillance system statistics
and Wales	SMR			0.83		0.77	using 1930 census data as
1930–1932				0.98		1.05	denominator. For social
age: 15–64		IV		1.12		1.06	classification see Introduction.
(married women)	ļ	V		1.22		1.21	Women classified according to
							husband's occupation
							[OPCS, 1938]

		Table 8. (Con	10) S10	mach e	ance	rmortali	ty
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – England and Wales 1970–1972 age: 15–64 (married women	Social class SMR)	I III-NM III-M IV V		0.50 0.66 0.79 1.18 1.25 1.47		0.60 0.84 0.76 1.22 1.23 1.45	Surveillance system statistics using 1970 census data as denominators. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women 20–59)	Social class SMR	I III-NM III-M IV V	181 1132 664 2926 1776 817	0.50 0.67 0.83 1.19 1.27 1.58	57 266 125 551 299 118	0.77 0.79 0.86 1.18 1.28 1.61	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	2 54 24 20	1 1.81 2.88 3.56			17 530 Londoner civil servants, medically examined 1967–69 and followed-up until 1987 [Davey Smith & Marmot, 1991]
UK – Scotland 1959–1963 20–64 (married women)	Social class SMR	 V V	0.49 0.77 0.58 1.05 1.66	1.11 0.56 0.90 2.53 1.04			Surveillance system statistics using 1960 census data as denominator. UK Registrar General's classification. Women classified according to husband's occupation [Registrar General for Scotland, 1970]
US – California 1949–1951 age: 25–64	Social class SMR	 V V	0.51 0.72 0.93 0.99 1.65				Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation [Buell <i>et al.</i> , 1960]
USA 1960 age: 25–64 (white)	Educational level SMR	College High school Elementary school <8 years of school		0.45 0.94 1.03 1.22			Record-linkage study using 1960 mortality and census data
USA (12 census	Education SMR	College	5+ y 4 y	0.47 0.31			[Kitagawa & Hauser, 1973] Census linkage
samples) 1979–1985 age: 25+		High school	1-3 y 4 y 1-3 y	0.92 1.02 1.06			
		Elementary school	8 y 5-7 y 0-4 y	1.07 1.21 1.73			[Rogot <i>et al.,</i> 1992]
		Table 9, S	ibamo	NGEMIG:	Ring	Cence	
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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (Frer	Income level OR nch)	High Middle Low		1 2.2 2.3			Population-based case-control study. Tertiles of total family income [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (Frer	Education OR nch)	High Middle Low		1 1.4 1.6			Population-based case–control study. Tertiles of years of education [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (Fren	Occupational prestige scale OR ch)	High Middle Low		1 1.2 1.3			Population-based case-control study. Tertiles of the occupational prestige scale [Bourbonnais & Siemiatycki, in press
Colombia (Cali) 1971–1975 all ages	Social class RR	 1		1 1.62 1.56		1 1.57 1.48	Data from 1973 census were used for rate denominator. Social class based on area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	666 42 78 235 129 299 875	0.91 0.61 0.68 0.89 1.10 1.01 1.20	40 10 24 42 121 5 209	1.15 1.48 0.85 0.85 0.93 1.38 1.09	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge & Thygesen, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.64 0.85 1.06 1.18		0.76 0.95 1.04 1.03	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Hong Kong 1971 age: 35–64 (Chinese)	Income level RR	Higher Medium Lower	2 35 95	1 2.61 2.85	2 19 45	1 1.51 1.35	Surveillance system statistics using 1971 census data as denominators. Income levels based on residence [Crowther <i>et al.</i> , 1976]
ltaly (Milano) 1983–1988 age: <75	Social class RR	I, II III IV, V	10 ^a 121 ^a 194 ^a	0.24ª 0.79ª 1ª			Hospital-based case-control study UK Registar General's social class classification. Adjusted by sex [Ferraroni <i>et al.</i> , 1989]
ltaly (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7	37ª 88ª 272ª	0.35 ^a 0.63 ^a 1 ^a			Hospital-based case-control study Adjusted by sex [Ferraroni <i>et al.</i> , 1989]
ltaly (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	11 28 48 152	1 0.83 1.02 1.48	9 22 79	- 1 2.47 2.84	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self employed Manual workers	24 40 24 123	1 0.99 1.19 1.30	13 4 22	- 1 0.45 2.21	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	91 138	1 1.38	43 64	1 1.09	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano <i>et al.</i> , 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employees: II Indep. farmers: III White-collars: IV Blue-collars: V	1058 1125 1768 2115 7546	0.92 1.00 1.09 0.78 1.08	107 1015 1335	- 0.91 - 0.88 1.12	Record-linkage study between 1961 census and incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]
Turkey (Istanbul) 1979–1984 all ages	Social class OR	Higher Medium Lower	8 61 155	1 1.5 1.4			Hospital-based case-control study. Social class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupation Private rented Council tenant	357 156 235	0.89 1.09 1.14	223 93 157	0.92 0.94 1.24	Record-linkage study between 1971 census and 1971–81 incidence data (1% sample). UK Registrar General's social class classification. [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.42 1			Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams & Horm, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.06 1		1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, & Horm 1977]

Table 9. (Contd) Stomach cancer incidence

^aData not stratified by sex.

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982	Years of education OR	12+ 9–11 1–8		3.0 2.0 1.6		2.2 2.1 1.4	Case-control study using deaths from other causes as controls
age: 35–1974		<1		1.0		1.4	[Bouchardy et al., 1993]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.84 0.92 0.98 1.00 1.20		0.99 1.05 0.95 1.00 1.02	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicato [R. Wilkins, pers. commun.]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.84 1.06 0.87 1.08 1.16		1.03 1.00 1.15 1.01 0.85	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicato [R. Wilkins, pers. commun.]
Finland 1969–1972 age: 15–64	Social class CMF	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		2.04 0.96 0.58 0.87 0.54		1.24 1.07 1.03 0.87 0.78	Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation ICD-9: 152-154 [Näyhä, 1977]
Finland 1971–1985 age: 35–64	Social class RR	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1 0.92 0.79 0.70 0.61		1 0.88 0.92 0.77	Record-linkage study using 1970, 1975 and 1980 censuses and 1971–85 mortality data. Social class based on occupation ICD-9: 153-154 [Valkonen, 1990]
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.20 2.12 1.51 0.73		0.34 1.05 1.43 0.76	Surveillance system statistics using 1970 census data as denominator [Jozan, 1986]
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.66 1.46 1.06 0.71		1.34 1.57 1.27 0.76	Surveillance system statistics using 1980 census data as denominator [Jozan, 1986]
ltaly 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	44 56 131 491 143 27	1 0.77 0.87 0.79 0.63 0.62	16 30 90 376 157 31	1 0.49 0.65 0.51 0.45 0.37	Record-linkage between 1981 census and mortality in the following six months [Faggiano <i>et al.</i> , 1995]
Japan 1965–1982 age: 40+	Social class SMR	f, II III IV V		1.29 1.61 1.48 1		1.31 1.17 0.91 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners. ICD-9: 152-154 [Hirayama, 1990]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
New Zealand	Social class			1			Surveillance system statistics
1974–1978	RR	11		1.00			using census data as denominator
age: 15–64		III-NM		1.05			UK Registrar General's social clas
		III-M		0.96			classification
		IV		0.61			
		V		0.92			[Pearce & Howard, 1986]
New Zealand	Social class	1	30	1			Surveillance system statistics
1984–1987	RR	11	70	1.18			using census data as denominato
age: 15–64		III-NM	98	0.95			UK Registrar General's social cla
		III-M	99	1.03			classification
		IV	67	0.95			
<u> </u>	•	V	21	0.69			[Pearce & Bethwaite, in press]
Spain 1980–1982	Occupational group	Professionals and managers		1.34			Proportional analysis on death certificates
	PMR	Manual workers Agricultural		1.12			
		workers		0.76			
							[E. Regidor, pers. commun.]
Switzerland	Social class	1, 11		1.29		1.11	Proportional mortality study. UK
(Vaud)	PMR			0.89		0.89	Registrar General's social class
1977–1984		IV, V		0.82		1.04	classification ICD-9: 152-154
all ages							(No. of males = 283; females = 15 [Levi <i>et al.</i> , 1988]
Switzerland	Social class	1		0.71			Surveillance system statistics
1979–1982	SMR	11		0.94			using 1980 census data as
age: 15–74		III-NM		1.17			denominator. UK Registrar
		III-M		1.17			General's social class classification
		IV-V		0.81			[C.E. Minder, pers. commun.]
JK – England	Social class	l		1.27			Surveillance system statistics
and Wales	SMR	11		1.01			using 1910 census data as
910-1912		[]]		0.97			denominator. For social
age: 15–64		IV		0.85			classification see Introduction
		V		0.98			ICD-9: 152-153 [OPCS, 1919]
JK – England	Social class	1		1.10		1.19	Surveillance system statistics
Ind Wales	SMR	11		1.04		0.99	using 1930 census data as
930-1932				1.02		1.02	denominator. For social
age: 15–64		IV		0.99		0.89	classification see Introduction.
married women)		V		0.94		1.02	Women classified according to husband's occupation [OPCS, 1938]
JK – England	Social class	I		1.21		1.15	Surveillance system statistics
Ind Wales	SMR	a strange		1.01		1.06	using 1950 census data as
949-1953		111		1.02		0.99	denominators. For social
age: 15–64		IV		0.92		1.01	classification see Introduction
married women)		V all all all a		0.99	-	0.95	[OPCS, 1958]

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		Table 10. (C	omici) (Xolom ici	ancer	montalli	У.
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – England and Wales 1970–1972 age: 15–64 (married women		I II III-NM III-M IV V		1.04 1.00 1.06 1.06 1.00 1.11		1.18 0.93 0.96 1.17 1.12 1.10	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20-59	Social class SMR	I II III-NM III-M IV V	300 1214 601 1834 899 421	1.14 0.99 1.05 1.03 1.01 1.16	143 629 304 906 445 129	1.07 1.04 1.16 1.08 1.05 0.98	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	6 74 21 13	1 1.16 1.08 1.19			17530 London civil servants, medically examined 1967–1969 and, followed-up until 1987 [Davey Smith & Marmot, 1991]
UK – Scotland 1959–1963 age: 20–64 (married women)	Social class SMR	 V V		0.60 1.07 0.94 1.05 1.28		0.72 0.79 1.09 1.45 1.20	Surveillance system statistics using 1960 census data as denominator. UK Registrar General's classification. Women classified according to husband's occupation. ICD-9: 153-154 [Registrar General for Scotland, 1970]
USA – California 1949–1951 age: 25–64	Social class SMR	I II IV V		1.11 1.12 1.07 0.86 0.92			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation. ICD-9:152-154 [Buell <i>et al.</i> , 1960]
USA 1960 age: 25–64 (White)	Educational level SMR	College High school Elementary schoo <8 years of schoo		0.98 0.90 0.95 1.19		0.74 0.91 1.11 1.23	Record-linkage study using 1960 mortality and census data ICD-9: 152-153 [Kitagawa & Hauser, 1973]
USA (12 census samples) 1979–1985 age: 25+	Education SMR	College: 5+ y 4 y 1-3 y High school: 4 y 1-3 y Elementary schoo 5-7 y 0-4 y	: 8 y	0.89 0.80 0.90 1.04 1.11 1.17 0.86 0.80		0.97 0.67 1.05 1.11 1.06 0.75 1.32 0.66	Census linkage [Rogot <i>et al.</i> , 1992]

		Table 11.	Colon	cance	rtingio	lence :	
Study base	Indicators	Social scale	N	Male RR	N	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 1.1 1.0			Population-based case-control study. Tertiles of total family income [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1.1 1.2 1.2			Population-based case–control study. Tertiles of years of education [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Occupational prestige scale OR			1 1.2 1.2			Population-based case-control study. Tertiles of the occupational prestige scale [Bourbonnais & Siemiatycki, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 111		1 0.73 0.60		1 1.11 0.33	Data from 1973 census were used for rate denominator. Social class based on area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	928 120 181 391 184 423 840	0.97 1.31 1.17 1.11 1.17 1.06 0.88	103 18 91 169 410 10 567	0.94 0.86 1.48 1.11 1.04 0.92 0.95	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge & Thysesen, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.42 1.15 0.97 0.65		1.10 1.17 0.96 0.86	Record-linkage study using 1970 census and 1971–1985 mortality- data. Social class based on occupation [Pukkala, 1993]
Greece (Athens) 1979–1980 all ages	Years of education	0 1-5 6-11 12+	12ª 26ª 49ª 12ª	1 ^a 0.9 ^a 1.0 ^a 1.3 ^a			Case-control study matched by sex [Papadimitriou <i>et al.</i> , 1984]
Hong Kong 1971 age: 35–64 (Chinese)	Income level RR	Higher Medium Lower	3 16 27	1 0.84 0.54	13 28	 1 0.81	Surveillance system statistics using 1971 census data as denominator. Income levels based on residence [Crowther <i>et al.</i> , 1976]
Italy (Milano) 1983–1988 age: <75	Social class RR	1, 11 111 1V, V	45 ^a 155 ^a 170 ^a	1.34 ^a 1.15 ^a 1 ^a			Hospital-based case-control study. UK Registrar General's social class classification. Adjusted by sex [Ferraroni <i>et al.</i> , 1989]

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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
ltaly (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7	96 ^a 120 ^a 239 ^a	1.20 ^a 1.05 ^a 1 ^a			Hospital-based case-control study. Adjusted by sex [Ferraroni <i>et al.</i> , 1989]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	49 64 114 200	1 0.54 0.59 0.48	15 40 84 214	1 0.78 0.75 0.71	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. ICD-9: 153-154 [Faggiano <i>et al.</i> , 1994]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	70 86 49 173	1 0.69 0.72 0.63	12 43 20 35	1 0.84 0.67 0.68	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data ICD-9: 153-154 [Faggiano <i>et al.</i> , 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	207 208	1 0.92	162 181	1 1.01	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data ICD-9:153-154 [Faggiano <i>et al.</i> , 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	1041 975 979 2903 5542	1.07 1.06 0.78 1.20 0.94	191 1970 1968	 0.98 1.02 0.98	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	7 21 65	1 0.5 0.7			Hospital-based case-control study. Social class indicator base on occupation [Dosemeci <i>et al.</i> , 1989]
JK – England & Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	289 108 134	1.01 1.06 0.93	387 140 197	0.96 0.98	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
JSA (Du Pont) 959–1967 Ill ages	Income level SIR	1 2 3 4	5 42 29 22	0.72 1.08 0.90 1.33			1959–1967 follow-up of 115 000 employees of the DuPont Co. ICD-7: 152-154
	Educational	5 College	131	0.98 1.08			[Pell & D'Alonzo, 1970] Case-control study based on US
	level OR	Less		1		1	Third National Cancer Survey, using deaths from other causes as controls.

[Williams & Horm, 1977]

		Table 11. (Co	ontal) (e	ເວໂດກ ເອງກາດວ່າ	indiane	e
Study base	Indicators	Social scale	N	Male N RR	Female RR	Study design
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.98 1	0.78 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams & Horm, 1977]

^aData not stratified by sex.

		Table 12.	Regiu	ાં ભગવલ	en in e	idellity	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		4.3 2.1 2.2 1		1.5 0.9 1.2 1	Case-control study using deaths from other causes as controls [Bouchardy <i>et al.</i> , 1992]
Hungary 1970 age: 25–64	Years of education SMR	5+ 1214 811 07		0.54 1.18 1.86 0.81		1.11 1.08 1.01 0.96	Surveillance system statistics using 1970 census data as denominator [Jozan, 1986]
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		0.96 1.01 1.08 1.11		1.66 1.09 1.06 0.92	Surveillance system statistics using 1980 census data as denominator [Jozan, 1986]
Italy 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate Illiterate	21 38 75 293 122 11	1 1.08 1.03 0.96 1.10 0.52	 12 40 210 89 23	- 1 1.93 2.02 1.75 1.69	Record-linkage between 1981 census and mortality in the following six months [Faggiano <i>et al.</i> , 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V		1.03 0.78 0.83 1		0.53 1.64 0.36 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	 -NM -M V V		1 0.61 0.89 0.84 0.64 1.09			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce & Howard, 1986]

		Table 12. (Cor	iid) Re	elum c	ance	rinorialli	Ŋ
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
New Zealand	Social class		19	1			Surveillance system statistics
1984–1987	RR		50	1.42			using 1986 census data as
age: 15–64		III-NM	80	1.27			denominator. UK Registrar
		III-M IV	75	1.30			General's social class
		V	48	1.13			classification
		v	22	1.18			[Pearce & Bethwaite, in press]
Spain 1980–1982	Occupational group PMR	Professionals and managers		1.20			Proportional analysis on death certificates
	PIVIR	Manual workers					
		Agricultural workers		1.11			
				0.84			[E. Regidor, pers. commun.]
Switzerland	Social class	1		0.78			Surveillance system statistics
1979–1982	SMR	11		0.86			using 1980 census data as
age: 15–74		III-NM		1.31			denominator. UK Registrar
		III-M		0.95			General's social class classification
		IV-V		0.91			[C.E. Minder, pers. commun.]
UK – England	Social class	1		0.99			Surveillance system statistics using
and Wales	SMR	11		0.95			1910 census data as denominator.
1910–1912		111		1.07			For social classification see
age: 15–64		IV		0.98			Introduction
		V		1.00			[OPCS, 1919]
UK – England	Social class	1				1.00	Surveillance system statistics
and Wales	SMR	11				0.97	using 1930 census data as
1930–1932		111				1.05	denominator. For social classification
age: 15–64		IV				0.86	see Introduction. (married women)
		V				1.06	Women classified according to
							husband's occupation [OPCS, 1938]
UK – England	Social class	1		0.79			Surveillance system statistics
and Wales	SMR	1		0.89			using 1960 census data as
19591963		111		1.06			denominator. For social
age: 15–64		IV		0.98			classification see Introduction
(married women)		V		1.20			[OPCS, 1971]
UK – England	Social class	ł		0.84		0.99	Surveillance system statistics
and Wales	SMR	11		0.90			using 1970 census data as
1970-1972		III-NM		1.03		0.98	denominator. For social
age: 15–64		III-M		1.14			classification see Introduction.
(married women)		IV		1.06			Women classified according to
		V		1.08			husband's occupation
							[OPCS, 1977]

		Table 12, (Co	nid) Re	eltim e	ance	rinorielfi	iy
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women 16–74)	Social class SMR	I II III-NM III-M IV V	174 838 405 1446 844 386	0.88 0.90 0.93 1.07 1.12 1.39	49 267 109 422 238 91	0.80 0.96 0.90 1.09 1.23 1.50	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	4 26 6 6	1 0.50 0.50 0.88			17530 London civil servants, medically examined 1967–1969 and, followed up until 1987. [Davey Smith & Marmot, 1991]

Table 13. Rectum cancer incidence

Study base RR	Indicators RR	Social scale	Ν	Male	Ν	Female	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 0.9 1.2			Population-based case-control study. Tertiles of total family income [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1 1.0 1.5			Population-based case-control study. Tertiles of the years of education [Bourbonnais & Siemiatycki, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Occupational prestige scale OR	High Middle Low		1 0.8 1.3			Population-based case-control study. Tertiles of the occupational prestige scale [Bourbonnais & Siemiatycki, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 1.64 1.55		1 3.75 2.25	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	885 81 129 344 165 365 869	0.99 0.96 0.93 1.06 1.16 1.01 0.97	57 15 41 98 222 5 354	0.91 1.28 0.88 1.15 1.01 0.84 1.04	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge & Thygesen, 1990]

		Table 13.	Redui	ncence	en inc	ldlan(Ge	
Study base	Indicators	Social scale	N	Male RR	N	Female RR	Study design
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers	·	1.04 1.14 0.97 0.89		1.19 1.01 0.99 0.96	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Hong Kong 1971 age: 35–64 (Chinese)	Income level RR	Higher Medium Lower	3 9 17	1 0.47 0.34	_ 9 12	– 1 0.51	Surveillance system statistics using 1971 census data as denominator. Income levels based on residence [Crowther <i>et al.</i> , 1976]
Italy (Milano) 1983–1988 age: <75	Social class RR	I, II III IV, V	24 ^a 69 ^a 146 ^a	0.79 ^a 0.60 ^a 1 ^a			Hospital-based case-control study. UK Registar General's social class classification. Adjusted by sex. [Ferraroni <i>et al.</i> , 1989]
Italy (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7	42 ^a 66 ^a 187 ^a	0.63 ^a 0.74 ^a 1 ^a			Hospital-based case-control study. Adjusted by sex [Ferraroni <i>et al.</i> , 1989]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	737 721 876 342 4202	1.05 1.07 0.94 1.06 1.00	91 7 1047	 0.91 0.84 1.02	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	9 26 85	1 0.6 0.7			Hospital-based case-control study. Adjusted for sex. Social class based on occupation [Dosemeci <i>et al.</i> , 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	235 95 141	0.93 1.06 1.10	191 64 105	1.03 0.87 1.07	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		1.06 1		1.13 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.81 1		1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

^aData not stratified by sex.

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Study base	Indicators	Social scale	. N	Male RR	Ν	Female RR	Study design
Brazil	Years of	12+		0.8		0.7	Case-control study using
(São Paulo)	education	9–11		0.6		0.9	deaths from other causes as
1978–1982	OR	1–8		0.7		0.9	controls
age: 35–74		<1		1		1	[Bouchardy et al., 1992]
Canada	Income	Q1		_			Surveillance system statistics
(urban area)		Q2		1.13			using 1971 census data as
1971		Q3		1.19			denominators. Neighbourhood
all ages		Q4		-			income quintiles as social indicate
		Q5		1.19			[R. Wilkins, pers. commun.]
Canada	Income	Q1		0.68			Surveillance system statistics
(urban area)		Q2		0.56			using 1986 census data as
1986		Q3		0.80			denominators. Neighbourhood
all ages		Q4		1.04			income quintiles as social indicate
		Q5		1.92			[R. Wilkins, pers. commun.]
Italy	Educational	University	32	1	_	_	Record-linkage between 1981
1981-1982	level	High school	52	1.03	34	1	census and mortality in the
age: 18–74	RR	Middle school	143	1.36	52	0.72	following six months
-		Primary school	589	1.34	292	0.93	-
		Literate	219	1.26	186	1.08	
		Illiterate	53	1.24	61	1.09	[Faggiano <i>et al.</i> , 1995]
Japan	Social class	I, II		1.14		0.89	265 000 Japanese interviewed in
1965–1982	SMR			1.44		1.10	1965 and followed-up until 1982.
age: 40+		IV		1.22		1.08	Social class based on occupation
		V		1		1	Reference category is farmers
							and miners
							[Hirayama, 1990]
New Zealand	Social class	1 .		1			Surveillance system statistics
1974–1978	RR			0.70			using 1976 census data as
age: 15–64		III-NM		0.65			denominator. UK Registrar
		III-M		1.35			General's social class
		IV		0.91			classification
		V		3.26			[Pearce & Howard, 1986]
New Zealand 1984–1987	Social class RR			1 0.78			Surveillance system statistics using 1986 census data as
	nn	III-NM		0.78 0.94			denominator. UK Registrar
age: 15-64		III-M		0.94 0.78			General's social class
		IN-IVI IV		0.78 2.30			classification
		V		2.30 4.78			[Pearce & Bethwaite, in press]
Switzerland	Social class	1, 11		0.89		1.60	Proportional mortality study. UK
(Vaud)	PMR	1		1.16		0.43	Registrar General's social class
1977–1984		IV, V		0.97		1.37	classification (No. of males $= 82$;
all ages							females = 18) [Levi et al., 1988]

		Table 14. (0	eni(i)	liver œi	ncert	mortality	
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M VV		0.61 0.94 1.18 1.05 0.89			Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification [C.E. Minder, pers. commun.]
UK – England and Wales 1921–1923 age: 15–64	Social class SMR	 V V		0.70 1.01 0.99 1.00 1.08			Surveillance system statistics using 1920 census data as denominators. For social classification see Introduction [OPCS, 1927]
UK – England and Wales 1930–1932 age: 15–64 (married women	Social class SMR	 V V				0.76 0.95 0.97 1.10 1.15	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	 -NM I-M V V		0.93 1.00 0.95 0.93 1.12 1.56		1.37 0.89 0.78 1.28 0.95 1.27	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64	Social class SMR	I III-NM III-M IV V	42 177 87 368 194 120	0.87 0.78 0.81 1.12 1.05 1.76			Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation ICD: 155 [OPCS, 1986]

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		Table 15.	LEIver (Sancer	Incici	əngə	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 3.67 2.33		1 1.54 0.96	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello <i>et al.</i> , 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers	117 13 15 71 28 76	0.77 0.91 0.64 1.29 1.16 1.25	4 2 7 15 29 2	0.49 1.24 1.03 1.23 0.89 2.09	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level
		Unskilled workers	161	1.06	52	1.11	[Lynge & Thygesen, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.01 1.02 0.97 1.08		0.73 1.07 1.01 0.97	Record-linkage study using 1970 census and 1970–1980 incidence data. Social class based on occupation [Pukkala, 1993]
ltaly (Milano) 1983–1988 age: <75	Social class RR	I, II IH IV, V	7 ^a 49 ^a 70 ^a	0.50 ^a 0.87 ^a 1 ^a			Hospital-based case–control study. UK Register General's social class classification. Adjusted for sex [Ferraroni <i>et al.</i> , 1989]
ltaly (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7	21ª 36ª 94ª	0.54 ^a 0.70 ^a 1 ^a			Hospital-based case-control study. Adjusted for sex [Ferraroni <i>et al.</i> , 1989]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	379 410 216 1012 1949	1.12 1.25 0.55 1.13 0.97	75 661 776	 1.03 0.95 1.06	Record-linkage study between 1961–1970 census and incidence data. Social class indicator based on occupation [Vågerö & Persson, 1986]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	42 30 25	0.79 1.57 0.94			Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971	Educational level OR	College Less		0.59 1		0.71 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams & Horm, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.71 1		2.85 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams & Horm, 1977]

		Table 16.	Panada	er oen o	eer im	ગતમામિ	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		1.1 1.0 0.9 1		0.7 0.9 0.9 1	Case-control study using deaths from other causes as controls [Bouchardy <i>et al.</i> , 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.04 1.03 1.10 1.20		1.13 0.70 1.00 1.23 1.05	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.09 0.80 0.96 0.91 1.22		1.12 0.85 1.71 1.12 1.12	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
ltaly 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate	35 47 94 459 96	1 0.82 0.78 0.93 0.57	- 13 49 250 118	- 1 2.05 1.91 1.86	Record-linkage between 1981 census and mortality in the following six months
Japan 1965–1982 age: 40+	Social class SMR	Illiterate I, II III IV V	22	0.65 1.40 0.93 1.31 1	25	1.63 0.71 0.97 0.59 1	[Faggiano <i>et al</i> , 1995] 265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	1 11 111-NM 111-M 1V V		1 1.13 1.39 1.16 0.95 1.59			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I III-NM III-M IV V		1 1.24 1.32 1.32 1.54 0.93			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Norway 1970–1973 age: 20–69	Social class CMF	A B C D E (farmers)		0.89 1.06 1.06 1.06 0.91			Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Central Bureau of Statistics, 1976]

^aData not stratified by sex.

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Spain 1980–1982	Occupational group PMR	Professionals managers Manual workers		1.23			Proportional analysis on death certificates
		Agricultural workers		1.07			
				0.90			
							[E. Regidor, pers. commun.]
Switzerland	Social class	1, 11		1.12		1.12	Proportional mortality study. UK
(Vaud)	PMR			0.84		0.77	Registrar General's social class
1977–1984 all ages		IV, V		1.07		1.25	classification (No. of males = 113 females = 71) [Levi <i>et al.</i> , 1988]
Switzerland	Social class	I		0.96			Surveillance system statistics
1979–1982	SMR	11		0.73			using 1980 census data as
age: 15–74		III-NM		1.20			denominator. UK Registrar
		III-M IV-V		1.15			General social-class classificatio
IV England		10-0		0.93			[C.E. Minder, pers. commun.]
JK – England and Wales	Social class SMR	1		1.24			Surveillance system statistics
910-1912	SMIN	111		0.97 0.95			using 1910 census data as
age: 15–64		IV		0.95			denominator. For social classification see Introduction
		V		0.95			[OPCS, 1919]
JK – England	Social class	1		1.18		0.52	Surveillance system statistics
and Wales	SMR	au l		0.99		0.98	using 1930 census data as
1930–1932		111		1.01		0.98	denominator. For social
age: 15–64		IV		0.95		0.94	classification see Introduction.
married women)		V		1.04		1.18	Women classified according to
							husband's occupation [OPCS, 1938]
JK – England	Social class	1		1.20			Surveillance system statistics
and Wales	SMR			1.01			using 1950 census data as
949-1953				1.01			denominator. For social
ige: 15–64		IV		0.93			classification see Introduction
lk England	Social class	V		1.03			[OPCS, 1958]
JK – England and Wales	SMR			1.03		1.06	Surveillance system statistics
970-1972	OMIT	III-NM		0.97 1.05		0.93	using 1970 census data as denominator. For social
ige: 15–64		III-M		1.10		- 1.13	classification see Introduction.
married women)		IV		1.01		1.05	Women classified according to
,		V		1.04		1.34	husband's occupation [OPCS, 1977]
JK –	Social class	l	163	0.79	57	0.96	Surveillance system statistics
Great Britain		1	876	0.90	252	0.92	using 1980 census data as
979–1980,		III-NM	437	0.96	122	1.02	denominator. For social
982–1983		III-M	1486	1.06	417	1.10	classification see Introduction.
ge: 20–64		IV	921	1.17	237	1.22	Women classified according to
married women,	20–59)	V	371	1.27	80	1.31	husband's occupation [OPCS, 1986]

	Table 16. (Contd) Pancreas cancer mortality									
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design			
UK (London)	Employment	Administrators	4	1			17530 London civil servants,			
1967–1987	grade	Professionals	37	0.83			medically examined 1967–1969			
	RR	Clerical	14	1.04			and followed-up until 1987			
		Other	9	1.67			[Davey Smith & Marmot, 1991]			
USA – California	Social class	I		0.93			Surveillance system statistics			
1949–1951	SMR	ll		0.88			using 1950 census data as			
age: 25–64		111		1.00			denominators, Social class			
		IV		1.13			indicator based on occupation			
		V		1.97			ICD: 162-163			
							[Buell, <i>et al.</i> 1960]			
USA	Education	College: 5+ y		0.78		0.73	Census linkage			
(12 census	SMR	4 y		0.76		1.21				
samples)		1-3 y		1.12		0.99				
1979–1985		High school: 4 y		0.92		1.00				
age: 25+		1-3 y		1.28		1.20				
		Elementary schoo	ol: 8 y	0.98		0.82				
		5-7 y	-	1.09		1.01				
		0-4 y		0.92		0.95	[Rogot <i>et al.</i> , 1992]			

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		Table 17. I	anoicei	ଽଡ଼ୠ୲୲ଡ଼ଌ	n inc	000000	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 1.4 1.7			Population-based case-control study. Tertiles of total family income
Canada	Education	High		1			[Bourbonnais, in press] Population-based case-control
(Montreal) 1979–1985 age: 35–70 (French)	OR	Middle Low		1.3 1.4			study. Tertiles of years of education.
. ,							[Bourbonnais, in press]
Canada (Montreal)	Occupational prestige	Middle		1 1.1			Population-based case–control study. Tertiles of the occupational
1979–1985 age: 35–70	scale OR	Low		1.4			prestige scale.
(French)							[Bourbonnais, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 1 1		1 0.95 1.00		1 0.81 0.52	Data from 1973 census were used for rate denominators. Social class based on area of residence. [Cuello, 1982]

Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	458 35 89 194 106 239 533	0.88 0.71 1.09 1.02 1.27 1.14 1.02	41 12 28 33 131 9 230	1.05 1.69 1.01 0.65 1.02 2.59 1.14	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.95 0.95 1.00 1.08		1.14 1.09 0.92 1.06	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
ltaly (Milano) 1983–1988 age: <75	Social class RR	I, II III IV, V	35 ^a 61 ^a 88 ^a	1.87 ^a 0.88 ^a 1 ^a			Hospital-based case-control study UK Register General's social class classification Adjusted by set [Ferraroni, 1989]
Italy (Milano) 1983–1988 age: <75	Years of education RR	12+ 7–11 <7	39ª 53ª 122ª	0.85 ^a 0.88 ^a 1 ^a			Hospital-based case-control study Adjusted by sex [Ferraroni, 1989]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Indep. farmers: III White-collar: IV Blue-collar: V	557 519 578 1407 3397	1.01 0.99 0.83 1.03 1.03	 86 748 846	- 1.06 - 0.97 1.04	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	137 59 64	0.97 1.18 0.89	116 51 45	1.04 1.13 0.77	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		1.41 1		0.86 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.81 1		0.94 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

	Ta	151e 18. Nose a	nelinees	al caviti	es e	all(cərinno)	rtality
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – England	Social class	1		0.90		1.20	Surveillance system statistics
and Wales	SMR	11		0.91		0.88	using 1950 census data as
1949–1953				1.04		0.91	denominator. For social
age: 15–64	,	IV		0.86		1.14	classification see Introduction.
(married women))	V		1.17		1.37	Women classified according to husband's occupation [OPCS, 1958]
UK – England	Social class	1		0.75		0.40	Surveillance system statistics
and Wales	SMR	11		0.85		0.72	using 1960 census data as
1959–1963		[]]		1.10		1.12	denominator. For social
age: 15–64		IV		0.92		1.14	classification see Introduction
(married women))	V		1.35		1.25	[OPCS, 1971]
UK – England	Social class	I		0.71		0.84	Surveillance system statistics
and Wales	SMR	11		0.85		0.78	using 1970 census data as
1970–1972		III-NM		0.90		0.89	denominator. For social
age: 15–64		111-M		1.01		1.14	classification see Introduction.
(married women)		IV		1.00		1.54	Women classified according to
		V		1.97		0.82	husband's occupation [OPCS, 1977]
UK –	Social class	I	4	0.43	0		Surveillance system statistics
Great Britain	SMR	11	39	0.92	16	0.93	using 1980 census data as
1979–1980,		III-NM	16	0.80	7	0.96	denominator. For social
1982-1983		III-M	70	1.13	35	1.44	classification see Introduction.
age: 20–64		IV	30	0.89	11	0.96	Women classified according to
(married women,		V	26	2.08	5	1.42	husband's occupation
20–59)							[OPCS, 1986]

Table 19. Nose and nasal cavities cancer incidence								
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design	
Denmark	Occupational	Self-employed	38	0.80	2	0.98	Record-linkage study using 1970	
1970 –1 980	group	Employees: I	2	0.40	0		census and 1970–1980 incidence	
all ages	RR	Employees: II	9	1.03	3	1.56	data. Employees classified •	
Ū.		Employees: III	17	0.88	8	2.58	according to educational level	
		Employees: IV	13	1.53	4	0.49		
		Skilled workers	37	1.71	0	-		
		Unskilled workers	44	0.89	13	1.16	[Lynge, 1990]	
Finland	Social class	Upper white-collar		0.52		0.80	Record-linkage study using 1970	
1971-1985	SIR	Lower white-collar		0.87		0.82	census and 1971-1985 incidence	
birth cohort:		Skilled workers		1.03		1.10	data. Social class based on	
1906-1945		Unskilled workers		1.34		1.04	occupation	
							[Pukkala, 1993]	
Sweden	Social class	Employees: I	77	0.95	_	-	Record-linkage study between	
1961–1970	SIR	Self-employed: II	40	0.95	7	1.60	1961 census and 1961-1970	
all ages		Indep. farmers: III	53	0.92	-	_	incidence data. Social class	
		White-collar: IV	108	0.93	37	0.78	indicator based on occupation	
		Blue-collar: V	279	1.03	54	1.16	[Vågerö, 1986]	

Table 20: Larynx cancer mortality

Study base	Indicators	Social scale	Ν	Male N RR	Female RR	Study design
Brazil (São Paulo) 1978–1982	Years of education OR	12+ 9–11 1–8		0.5 1.6 1.9		Case-control study using deaths from other causes as controls
age: 35–74		<1		1		[Bouchardy, 1992]
France 1975–1982 age: 45–54	Occupational group RR	Groups managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.21 0.46 0.75 1.17 1.58 1.96		A sample of about 1000 000 of 1975 censused population followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
France 1975–1982 age: 55–64	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.28 0.65 0.81 1.14 1.49 1.97		A sample of about 1000 000 of 1975 censused population followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
ltaly 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	0 33 92 503 153 36	- 1 2.11 2.80 2.69 3.30		Record-linkage between 1981 census and mortality in the following six months [Faggiano, 1995]

		Table 20. (Co	omiđi) La	arvinx e	ગાલ્સ	r mortallit	y
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Japan 1965–1982 age: 40+	Social class SMR	, V		0.86		_ 3.20	265 000 Japanese interviewed in 1965 and followed-up until 1982.
ago. 101		V		0.86 1		1	Social class based on on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	 -NM -M V V		1 3.25 3.00 5.25 6.00 6.00			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I II III-NM III-M IV V	0 1 10 14 15 9	- 1 6.5 10.0 14.0 19.0			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Spain 1980–1982	Occupational group PMR	Professionals managers Manual workers Agricultural workers		0.56			Proportional analysis on death certificates
				0.88			[E. Regidor, pers. commun.]
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V-V		0.50 0.67 1.11 1.20 1.09			Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification [C.E. Minder, pers. commun.]
UK – England and Wales 1910–1912 age: 15–64	Social class SMR	 V V		1.04 0.87 1.00 0.91 1.18			Surveillance system statistics using 1910 census data as denominator. For social classification see Introduction [OPCS, 1919]
UK – England and Wales 1930–1932 age: 15–64 (married women)	Social class SMR	 V V		0.60 0.81 0.98 0.90 1.43		0.55 1.15 0.95 1.04 1.02	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation

[OPCS, 1938]

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	Table 20. (Contd) Larynx cancer mortality							
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design	
UK – England and Wales 1959–1963 age: 15–64 (married women)	Social class SMR	 V V				0.50 0.72 1.01 1.10 1.62	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]	
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I II-NM III-M IV V		0.65 0.65 0.81 1.02 1.32 1.94		0.92 0.68 0.98 1.17 0.95 2.28	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]	
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	 -NM -M V V	18 138 50 360 251 138	0.39 0.63 0.49 1.14 1.41 2.10	2 11 4 43 26 11	0.40 0.48 0.40 1.34 1.58 2.12	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]	

		Table 21.	Larynx	(œince	rinci	dence -	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 11		1 0.62 0.40		1 0.83 0.83	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: III Employees: IV Skilled workers Unskilled workers	241 24 29 125 55 187 364	0.76 0.56 1.03 1.06 1.43 1.14	6 0 2 10 21 1 49	1.07 0.40 1.18 0.90 1.60 1.46	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.70 0.76 1.06 1.27		0.82 0.85 1.03 1.18	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]

		Table 21. (Cor	nitol). Lai	TYNX Ga	incen	ineleend	e
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
France (Paris)	Educational level OR	Upper Medium Low		1 1.42 2.18			Hospital-based case-control study 1983–1991 [Leclerc, 1993]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	8 28 60 129	1 1.45 1.83 2.23			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	17 43 30 119	1 1.59 1.57 2.14			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	89 130	1 1.48			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employees: II Indep. farmers: III White-collars: IV Blue-collars: V	193 197 82 609 1135	1.01 1.13 0.42 1.15 1.01	 9 34 46	 2.73 0.72 1.21	Record-linkage study between 1961 census and incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984 all ages	Social class OR	Higher Medium Lower	11 170 597	1 3.2 4.1			Hospital-based case-control study. Adjusted for sex. Social class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	45 25 49	0.72 1.14 1.45		·	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.73 1		1.56 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.88 1		0.77 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

		Table 22	, Lung-	(esmeet	-məid	ality	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		2.6 2.3 1.6 1		1.8 1.2 1.2 1	Case-control study using deaths from other causes as controls
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.82 0.67 0.98 1.02 1.41		0.84 0.88 0.71 1.32 1.20	[Bouchardy, 1992] Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.69 0.84 0.93 1.09 1.47		0.75 0.92 0.89 1.02 1.39	Surveillance system statistics unsing 1986 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, pers. commun.]
Denmark 1970–1975 age: 20–64	Occupational group SMR	Employees: I Employees: II Employees: III Employees: IV Skilled workers		0.51 0.68 1.07 1.16 1.35		 1.01 1.02	Record-linkage study using 1970 census and 1970–1975 mortality data. Employees classified according to the educational level
Finland 1969–1972 age: 15–64 (married women)	Social class CMF	Unskilled workers Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1.15 0.53 0.89 1.24 1.23 0.60		1.15 0.88 1.05 1.23 1.53 0.82	[Danmarks Statistik, 1979] Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Näyhä, 1977]
Finland 1971–1985 age: 35–64	Social class RR	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1 1.70 2.84 3.52 1.89		1 1.33 1.60 0.68	Record-linkage study using 1970, 1975 and 1980 censuses and 1971–1985 mortality data. Social class indicator based on occupation [Valkonen, 1990]
France group 1975–1982 age: 45–54	Occupational Managers RR	Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.68 1.02 0.93 1.11 1.35 1.35			A sample of about 1000 000 of 1975 censused population was followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
France 1975–1982 age: 55–64	Occupational group RR	Managers Intermediate Self-employed Clerks Skilled workers Unskilled workers		0.74 0.06 0.96 1.11 1.28 1.28	•		A sample of about 1000 000 of 1975 censused population was followed-up until 1982. The scale shown represents a choice of the total scale [Desplanques, 1985]
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		0.83 0.99 1.77 0.85		0.48 0.82 1.38 0.93	Surveillance system statistics using 1970 census data as denominators [Jozan, 1971]

		Table 22. (C	ionici) (L	unoiœ	ncer	mortelliti	V second s
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
Hungary 1980 age: 25–64	Years of education SMR	15+ 1214 811 07		0.65 0.84 1.11 1.06		2.31 1.48 1.14 0.82	Surveillance system statistics using 1980 census data as denominators [Jozan, 1971]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate	386 338 898 4006 1170	1 1.12 1.42 1.53 1.34	0 43 94 449 185	- 1 1.20 1.09 0.99	Record-linkage between 1981 census and the mortality of the following six months
Japan 1965–1982 age: 40+	Social class SMR	Illiterate I, II III IV V	201	1.13 0.81 1.08 1.10 1	45	1.04 1.26 1.23 0.97 1	[Faggiano, 1995] 265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category: farmers and miners [Hirayama, 1990]
The Netherlands 1959–1961 age: 40–64	Social class SMR	I Ila Ilb II IV		0.59 0.60 0.82 1.44 1.12			Surveillance system statistics using 1960 census data as denominator
New Zealand 1974–1978 age: 15–64	Social class RR	Miners I II III-NM III-M IV		1.42 1 1.42 1.52 2.21 2.08			[Van Reek, 1986] Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification
New Zealand 1984–1987 age: 15–64	Social class RR	V I II-NM III-M IV	41 128 243 258 304	3.06 1 1.53 1.63 1.92 3.05			[Pearce, 1976] Surveillance system statistics using 1971 census data as denominator. UK Registrar General's social class classification
Norway 1970–1973 age: 20–69	Social class CMF	V A B C D E (farmers)	136	3.03 0.81 1.13 0.74 1.22 0.40			[Pearce & Bethwaite, in press] Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Central Bureau of Statistics, 1976]

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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Portugal 1980–1982 age: 20–64	Occupational group RR	Managers Professionals Clerks Sales workers Service workers		1.00 1.48 1.33 1.24 0.95			Surveillance system statistics using 1980 census data as denominator
		Agriculture, forest and fishery, Other manual workers	ry,	1.01 1.61			[M. Giraldes, pers. commun.] SMRs calculated by authors
Spain 1980–1982 age: 30–64	Occupational group PMR	Professionals and managers Manual workers		0.92 1.13			Proportional analysis on death certificates
5		Agricultural workers		0.98			[E. Regidor, unpublished]
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V		0.90 1.04 1.07		1.07 0.88 1.13	Proportional mortality study. UK Registrar General's social class classification (No. of males = 907; females =103) [Levi, 1988]
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V, V		0.42 0.72 0.91 1.33 1.10			Surveillance system statistics using 1980 census data as denominator. UK Registrar age: General's social class classification [C.E. Minder, unpublished]
UK – England and Wales 1910–1912 age: 15–64	Social class SMR	 1 V V		0.94 1.06 1.06 0.83 1.22			Surveillance system statistics using 1910 census data as denominator. For social classification see Introduction [OPCS, 1919]
UK – England and Wales 1930–1932 age: 15–64 (married womer	Social class SMR	 V V		1.07 0.96 1.01 0.91 1.12		1.00 1.00 1.10 0.82 0.91	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]
UK – England and Wales 1949–1953 age: 15–64	Social class SMR	 V V		0.81 0.82 1.07 0.91 1.18			Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction [OPCS, 1958]

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Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
UK England and Wales 1970–1972 age: 15–64 (married women	Social class SMR)	I II III-NM III-M IV V		0.53 0.68 0.84 1.18 1.23 1.43		0.73 0.82 0.89 1.18 1.25 1.34	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – England and Wales 1971–1975 age: 15–64	Social class SMR	I II III-NM III-M IV V		0.66 0.64 0.82 1.01 1.09 1.46			Record-linkage study (longitudinal study) between 1971 census and 1971–1975 mortality data for a 1% sample of the total population. UK Registrar General's social class classification [OPCS, 1990]
UK England and Wales 1976–1981 age: 15–64	Social class SMR	 -NM -M V V		0.42 0.68 0.83 1.08 1.31 1.24			Record-linkage study (Longitudinal Study) between 1971 census and 1976–1981 mortality data for a 1% sample of the total population. UK Registrar General's social class classification [OPCS, 1990]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	I II III-NM III-M IV V	742 5163 3116 14266 8594 4503	0.43 0.63 0.80 1.20 1.26 1.78	147 991 485 2314 1348 524	0.50 0.73 0.81 1.22 1.38 1.70	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	12 207 108 110	1 1.42 2.58 3.69			17 530 Londoner civil servants, undergoing a medical examination 1967–1969, followed-up until 1987 [Davey Smith, 1991]
UK Scotland 19491953 age: 2064	Social class SMR	I II III IV V		1.04 0.81 1.15 0.86 1.09			Surveillance system statistics using 1950 census data as denominator. UK Registrar General social class classification [Registrar General for Scotland, 1956]
UK –Scotland 1959–1963 age: 20–64 (married women)	Social class SMR	1 V V		0.61 0.70 1.04 0.98 1.51		0.59 0.81 0.78 0.85 1.38	Surveillance system statistics using 1960 census data as denominator. UK Registrar General classification. Women classified according to husband's occupation. [Registrar General for Scotland, 1970]

Table 22. (Contd) Lung cancer mortality								
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design	
USA – California		ł		0.85			Surveillance system statistics	
1949–1951	SMR	11		0.77			using 1950 census data as	
age: 25–64				1.12			denominator. Social class indicator	
		IV		1.08			based on occupation. ICD 162-163	
		V		1.12			[Buell, 1960]	
USA	Educational							
1960	level	College		0.61		0.90	Record-linkage study using 1960	
age: 25–64	SMR	High school		0.95		0.94	mortality and census data.	
(White)		Elementary school		1.14		0.96	•	
		<8 years of school		1.18		1.23	[Kitagawa, 1973]	
USA	Education	College: 5+ y		0.51		0.41	Census linkage	
(12 census	SMR	4 y		0.69		0.64		
samples)		1-3 y		0.85		1.13		
White population		High school: 4 y		0.92		1.05		
1979–1985		1-3 y		1.27		1.23		
age: 25+		Elementary school	: 8 y	1.11		0.83		
		5-7 y		1.31		0.89		
		0-4 y		1.04		0.92	[Rogot et al., 1992]	
USA	Education	College: 1-3 y		1.00			Census linkage	
(12 census	SMR	High school: 4 y		0.84			~	
samples)		1-3 y		1.15				
Black population		Elementary school	:8y	1.23				
1979–1985		5-7 y		0.84				
age: 25+		0-4 y		1.18			[Rogot <i>et al.</i> , 1992]	

Table 23. Lung cancer incidence

Study base	Indicators	Social scale N	Male N RR	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70	Income level OR	High Middle Low	1 2.5 3.7		Population-based case-control study. Tertiles of total family income
(French)					[Bourbonnais, in press]
Canada	Education	High	1	• 1	Population-based case-control
(Montreal)	OR	Middle	1.6		study. Tertiles of years of education
1979-1985		Low	2.3		
age: 35-70 (Frei	nch)				[Bourbonnais, in press]
Canada	Occupational	High	1		Population-based case-control
(Montreal)	prestige scale	Middle	2.2		study. Tertiles of the occupational
1979–1985	OR	Low	3.8		prestige scale
age: 35–70 (French)					[Bourbonnais, in press]

		Table 23. (Co	៣(6)) [山	માણે ભ્લ	nceri	neidenc	9
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.71 0.72		1 1.00 0.93	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	2674 191 338 1241 589 1725 3773	0.80 0.61 1.04 1.13 1.31 1.13	83 7 43 124 363 17 707	0.88 0.37 0.56 0.91 0.99 1.78 1.27	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge, 1990]
Denmark (Copenhagen) 1971–1988 age: 35–74	Social class RR	 1 V V	755 414 776 1684 469	1 1.6 2.3 2.9 3.7			5249 Male employees, aged 40–59, followed up 1971–1988. Social class indicator based on occupation [Hein <i>et al.</i> , 1992]
Greece (Athens) 1978–1986	Education low/high					1.30	[Trichopoulos <i>et al.,</i> 1981]
Greece (Greater Athens) 1987–1989	Education 0 y/7 y					0.56	
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.45 0.73 1.07 1.38		1.08 1.11 0.92 1.04	[Katsoyanni <i>et al.</i> , 1991] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	31 100 223 475	1 1.66 2.03 2.47	0 26 44 91	- 1 0.74 0.62	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1995]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	71 154 124 487	1 1.30 1.80 1.81	0 34 18 16	 1 0.86 0.45	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1995]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	344 573	1 1.44	57 99	1 1.44	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1995]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employees: II Indep. farmers: III White-collars: IV Blue-collars: V	1760 1598 719 4274 10638	1.08 1.04 0.41 0.97 1.10	0 84 0 860 925	- 1.09 - 0.92 1.09	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1971]

		Table 23. (Co	onic) Lu	ଆହାଡ଼ିଆ	nceri	ncidence	
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Turkey (Istanbul) 1979–1984 all ages	Social class OR	Higher Medium Lower	64 294 790	1 1.0 0.9			Hospital-based case-control study. Social-class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Social class SIR	I III-NM III-M IV V	48 383 250 888 584 313	0.48 0.77 0.86 1.05 1.16 1.24			Record-linkage study between 1971 census and 1971–81 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	1062 574 1016	0.75 1.16 1.38	304 153 246	0.83 1.11 1.22	Record-linkage study between 1971 census and 1971–81 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA (Du Pont) 1959–1967 all ages	Income level SIR	1 2 3 4 5	7 44 42 17 171	0.79 0.93 1.07 0.84 1.04			1959–1967 follow-up of 115 000 employees of the Du Pont Co. [Pell, 1970]
USA 1969–1971 all ages	Educational level OR	College Less		0.62 1		0.60 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.89 1		0.60 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, 1977]

		Table 24	l Boine	Gancer I	morii	ality	
Study base	Indicators	Social scale	Ν	Male I RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		1.7 1.6 1.8 1		0.3 0.6 0.9 1	Case-control study using deaths from other causes as controls
New Zealand	Social class			1		I	[Bouchardy, 1992] Surveillance system statistics
1974–1978 age: 15–64	RR	II III-NM III-M IV V		0.83 1.0 0.83 0.83 2.0			using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	 -NM -M V V		 1 5.0 1.0 	·		Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V-V		0.27 1.16 0.86 0.95 0.78			Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification [C.E. Minder, unpublished]
UK – England and Wales 1921–1923 age: 15–64	Social class SMR	 V V		0.73 1.14 1.05 0.95 0.86			Surveillance system statistics using 1920 census data as denominator. For social classification see Introduction [OPCS, 1927]
UK – England and Wales 1949–1953 age: 15–64	Social class SMR	 V V		1.30 0.89 1.08 0.86 0.96			Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1958]
UK – England and Wales 1959–1963 age: 15–64 (married women)	Social class SMR	 V V		0.74 0.87 1.09 0.91 1.12		0.81 1.09 0.92	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	 -NM -M V V		0.95 0.89 0.91 1.08 1.02 1.12		0.75 1.06 1.14 0.83 1.63	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]

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Table 24. (Contd) Bone cancer mortality									
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design		
UK –	Social class	1	13	0.85			Surveillance system statistics		
Great Britain	SMR	H	59	0.95			using 1980 census data as		
1979–1980,		III-NM	28	0.86			denominator. For social		
1982–1983		III-M	104	1.05			classification see Introduction.		
age: 20–64		IV	53	1.09			Women classified according to		
-		V	24	1.31			husband's occupation [OPCS, 1986]		

Table 25. Bone cancer incidence

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Denmark	Occupational	Self-employed	31	1.21	0	_	Record-linkage study using 1970
1970–1980	group	Employees: I	5	0.51	0	-	census and 1970–1980 incidence
all ages	RR	Employees: II	14	0.53	3	1.37	data. Employees classified
		Employees: III	6	1.00	3	0.92	according to educational level
		Employees: IV	22	0.72	10	1.09	
		Skilled workers	34	0.99	1	3.05	
		Unskilled workers		0.99	12	1.21	[Lynge, 1990]
Finland	Social class	Upper white-collar		1.09		0.61	Record-linkage study using 1970
1971–1985	SIR	Lower white-collar		1.01		1.26	census and 1971-1985 incidence
birth cohort:		Skilled workers		1.02		1.00	data. Social class based on
1906–1945		Unskilled workers		0.85		0.75	occupation
							[Pukkala, 1993]
Sweden	Social class	Employees: I	21	0.74			Record-linkage study between
1961-1970	SIR	Self-employed: II	30	1.21	5	1.39	1961 census and 1961-1970
all ages		Indep. farmers: III	35	1.04	_		incidence data. Social class
-		White-collar: IV	87	1.03	51	1.01	indicator based on occupation
		Blue-collar: V	195	0.99	44	1.02	[Vågerö, 1986]

Table 26. Cancer of the connective tissue mortality								
Study base	Indicators	Social scale	Ν	Male N RR	Female RR	Study design		
UK – England and Wales 1959–1963 age: 15–64 (married women	Social class SMR)	 V V		1.08 0.95 1.09 0.93 0.97	0.71 1.12 0.98 1.11 0.87	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]		
UK – England and Wales 1970–1972 age: 15–64 (married women	Social class SMR)	I II III-NM III-M IV V		0.80 0.88 0.89 1.05 1.17 1.00	1.48 1.12 0.90 0.95 0.94 1.01	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]		
UK – Great Britain 1979–1980, 1982–1983 age: 20–64	Social class SMR	I II III-NM III-M IV V	21 86 53 193 64 24	0.87 0.84 1.08 1.26 0.83 1.19		Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]		

Table 27. Cancer of the connective tissue – incidence

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Denmark	Occupational	Self-employed	60	1.06	0	-	Record-linkage study using 1970
1970–1980	group	Employees: I	8	1.23	.1	1.07	census and 1970–1980 incidence
all ages	RR	Employees: II	18	1.38	6	1.23	data. Employees classified
		Employees: III	22	0.84	7	0.89	according to educational level
		Employees: IV	9	0.69	30	1.34	0
		Skilled workers	38	1.12	0	-	
		Unskilled workers	59	0.92	23	0.87	[Lynge, 1990]
Finland	Social class	Upper white-collar		1.18		1.22	Record-linkage study using 1970
1971–1985	SIR	Lower white-collar		0.97		1.05	census and 1971–1985 incidence
birth cohort:		Skilled workers		0.99		0.99	data. Social class based on
1906–1945		Unskilled workers		0.98		0.87	occupation
							[Pukkala, 1993]
Sweden	Social class	Employees: I	97	0.95	·		Record-linkage study between
1961–1970	SIR	Self employed: II	76	0.83	15	0.99	1961 census and 1961–1970
all ages		Indep. farmers: III	115	0.98		n ≓ s	incidence data, Social class
		White-collar: IV	319	1.12	203	0.97	indicator based on occupation
		Blue-collar: V	648	0.98	184	1.01	[Vågerö, 1986]
					1. S.		

and a state of	Table 27	7. (Contd) Cano	er of th	ie connecti	we lissue	- incidence
Study base	Indicators	Social scale	Ν	Male N RR	Female RR	Study design
USA 1969–1971 all ages	Educational level OR	College Less		0.56 1	0.65 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.96 1	1.96 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

Table 28. Malignant melanoma mortality								
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design	
Brazil (São Paulo) 1978–1982	Years of education OR	12+ 9–11 1–8		8.0 6.3 2.1		0.6 2.3 2.0	Case-control study using deaths from other causes as controls	
age: 35–74		<1		1		1	[Bouchardy, 1992]	
Italy 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate	0 27 20 82 17	- 1 0.58 0.73 0.51	0 19 17 67 18	 1 0.59 0.62 0.42	Record-linkage between 1981 census and the mortality in the following six months	
New Zealand 1974–1978 age: 15–64	Social class RR	Illiterate I II III-NM III-M IV V	4	0.61 1 1.18 0.94 0.84 0.56 0.53	6	0.62	[Faggiano, 1995] Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]	
New Zealand using 1986 1984–1987 age: 15–64	Social class RR	I II-NM III-NM IV V		1 1.23 1.13 1.25 1.20 0.45			Surveillance system statistics census data as denominator. UK Registrar General's social class classification [Pearce and Bethwaite, in press]	
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V		1.39 0.82 0.86		1.38 0.70 0.98	Proportional mortality study. UK Registrar General's social class classification. ICD-9: 172-173 (No. of males = 180; females = 50) [Levi, 1988]	

	Ì	able 28. (Cont	o)) Malio	jnant m	elano	oma mor	tality
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Switzerland 1979–1982 age: 15–74	Social class SMR	1 11 111-NM 111-M 1V-V		0.79 0.87 1.20 1.27 0.71			Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification. ICD-9: 172-173 [C.E. Minder, unpublished]
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	 11 V V		1.45 0.98 1.07 0.81 0.85		1.45 1.11 1.04 0.71 0.95	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1958]
UK – England 1959–1963 age: 15–64 (married women)	Social class SMR	 V V		1.50 1.16 1.00 0.95 0.84		0.90 1.04 1.13 0.77 0.95	Surveillance system statistics and Wales using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I II-NM III-M IV V		1.37 1.35 1.21 0.88 0.73 1.05		1.74 1.34 1.04 0.97 0.95 0.67	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	 -NM -M V V	79 320 153 315 163 55	1.33 1.26 1.34 0.85 0.89 0.82	48 179 70 251 102 36	1.21 1.07 1.01 1.07 0.97 1.12	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 111		1 2.33 1.33		1 1.22 0.22	Data from 1973 census were used for rate denominators. Socia class based on area of residence [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Employees: IV Skilled workers Unskilled workers	234 53 113 206 80 161 244	0.83 1.50 1.56 1.47 1.21 0.93 0.76	44 13 77 117 270 7 257	1.05 1.22 1.33 1.31 1.06 0.84 0.87	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.63 1.11 0.92 0.69		1.29 1.18 0.88 0.91	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	283 196 220 1200 1557	1.05 0.84 0.82 1.38 0.86	0 45 0 937 522	- 0.93 - 1.14 0.82	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	2 11 39	1 1.3 1.6			Hospital-based case–control study. Social class indicator base on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	49 9 32	1.02 0.57 1.21			Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		2.27 1		0.79 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.88 1		0.94 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
	Tab	le 30. Female bi	(HSI (C	anceru	nortality		
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Study base	Indicators	Social scale	Ν	RR	Study design		
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		2.6 2.4 1.6 1	Case–control study using deaths from causes as controls [Bouchardy, 1992]		
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.08 1.00 1.01 0.95 0.99	Surveillance system statistics using 1971 census data as denominators. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]		
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.06 0.98 0.99 1.04 0.95	Surveillance system statistics using 1986 census data as denominators. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]		
Denmark 1970–1975 age: 20–64	Occupational groups SMR	Employees: I Employees: II Employees: IV Employees: IV Skilled workers Unskilled workers		 1.49 1.06 1.05 0.87	Record-linkage study using 1970 census and 1970–1975 mortality data. Employees classified according to educational level		
Finland 1969–1972 age: 15–64 (married women)	Social class CMF	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1.47 1.07 0.94 0.79 0.74	[Danmarks Statistik, 1979] Surveillance system statistics using 1970 census data as denominators. Social class indicator based on occupation [Näyhä, 1977]		
Finland 1971–1985 age: 35–66	Social class RR 20	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers	≥20 ≥20 ≥20 ≥20	1 0.85 0.69 0.60	Record-linkage study using 1970, 1975 and 1980 censuses and 1971–1985 mortality data [Valkonen, 1990]		
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.84 1.66 1.31 0.86	Surveillance system statistics using 1970 census data as denominators [Jozan, 1986]		
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.85 1.68 1.06 0.77	Surveillance system statistics using 1980 census data as denominators [Jozan, 1986]		
Italy 1981–1982 age: 18–74	Educational level RR	I University High school Middle school Primary school Literate Illiterate	46 186 338 1328 479 95	1 1.17 1.04 0.86 0.74 0.56	Record-linkage between 1981 census and mortality in the following six months. [Faggiano, 1995]		

	Table 3	10. (Conto) Fema	e biez	ast can	cer mortality
Study base	Indicators	Social scale	N	RR	Study design
Japan 1965–1982 age: 40+	Social class SMR	1, 11 111 IV V		2.33 1.45 1.58 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category: farmers and miners. [Hirayama, 1990]
Norway 1970–1973 age: 20–69	Social class CMF	A B C D E (farmers)		1.39 1.09 1.10 0.72 0.66	Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation. [Central Bureau of Statistics, 1976]
Portugal 1980–1982 ages: 20–64	Occupational group RR	Mangers Professionals Clerks Sales workers Service workers Agriculture, forestr and fishery Other manual	y	1.00 2.68 1.95 1.08 0.41 0.11	[M. Giraldes, pers. commun.;
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	workers I, II III IV, V		1.01 1.11 0.80	SMRs calculated by authors] Proportional mortality study. UK Registrar General's social class classification (No. = 275) [Levi, 1988]
UK – England and Wales 1930–1932 age: 15–64 (married women)	Social class SMR	 V V		1.38 1.16 1.03 0.84 0.82	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]
UK – England and Wales 1949–1953 age: 15–64	Social class SMR	 V V		1.37 1.10 1.04 0.84 0.85	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction [OPCS, 1958]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I II III-NM III-M IV V		1.17 1.12 1.10 1.09 1.03 0.92	Surveillance system statistics using 1970 census data as denominators. For social classification see Introduction. Women classified according to husband's occupation. [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	I III-NM III-M IV V	815 3498 1591 4784 2359 711	1.09 1.05 1.14 1.04 1.07 1.04	Surveillance system statistics using 1980 census data as denominators. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]

	Table 30. (Contd) Female breast cancer mortality						
Study base	Indicators	Social scale	Ν	RR	Study design		
UK – Scotland 1959–1963 age: 20–64 (married women)	Social class SMR	 V V		1.15 1.11 1.01 0.89 1.02	Surveillance system statistics using 1960 census data as denominator. UK Registrar General's classification. Women classified according to husband's occupation [Registrar General for Scotland, 1970]		
USA 1960 age: 25–64 (White)	Education level SMR	College High school Elementary school <8 years of school		1.11 1.03 0.98 0.87	Record-linkage study using 1960 mortality and census data. [Kitagawa, 1973]		
USA (12 census samples) White population age: 25+	Education SMR	College High school Elementary school		1.67 1.15 1.07 1.01 0.84 1.10 0.72 0.61	Census linkage [Rogot <i>et al.,</i> 1992]		

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	Table 31. Female breast cancer incidence							
Study base	Indicators	Social scale	N	RR	Study design			
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 111		1 0.64 0.45	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello, 1982]			
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers	459 124 507 792 2015 50	1.16 1.38 1.25 1.20 1.08 1.00	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level			
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Unskilled workers Upper white-collar Lower white-collar Skilled workers Unskilled workers	2147	0.84 1.42 1.19 0.90 0.82	[Lynge, 1990] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]			

	Table 31. (C	ontd) Female bro	¥3) (4	ancerti	neidence
Study base	Indicators	Social scale	Ν	RR	Study design
Hong Kong 1971 age: 35–64 (Chinese)	Income level RR	Higher Medium Lower	10 39 55	1 0.62 0.33	Surveillance system statistics using 1971 census data as denominator. Income levels based on residence [Crowther <i>et al.</i> , 1976]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	44 161 316 589	1 0.86 0.84 0.66	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	38 187 68 159	1 0.89 0.67 0.77	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	503 580	1 0.98	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	729 1004 6708	- 1.08 - 0 1.12 0.86	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	18 86 127	1 0.4 0.4	Hospital-based case–control study. Social class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	1074 348 571	1.02 0.93 0.99	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		1.44 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US \$10 000 Less		1.30 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

	Tal	ole 32. Cervical and	endomei	nele	310(C) (111)	ontality
Study base	Indicators	Social scale N	Cervix	N	Corpus	s Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1	0.2 0.4 0.7 1		2.3 1.9 2.0 1	Case-control study using deaths from other causes as controls [Bouchardy, 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5			0.40 0.63 0.98 1.23 1.65	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator. ICD-9: 179-182 [R. Wilkins, unpublished]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5			0.52 0.96 0.94 0.92 1.60	Surveillance system statistics using 1986 census data as denominators. Neighbourhood income quintiles as social indicator. ICD-9: 179-182 [R. Wilkins, unpublished]
Denmark 1970–1975 age: 20–64	Occupational group SMR	Employees: I Employees: II Employees: IV Employees: IV Skilled workers Unskilled workers			- 0.82 0.93 0.98 - 1.15	Record-linkage study using 1970 census and 1970–1975 mortality data. Employees classified according to educational level
Finland 1969–1972 age: 15–64 (married women	Social class CMF)	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers	0.68 1.06 1.35 1.33 0.57		0.84	Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Näyhä, 1977]
Finland 1971–1985 age: 35–64 (married women	Social class RR)	Upper white-collar<20	1 2.60 3.71 1.72			Record-linkage study using 1970, 1975 and 1980 censuses and 1971–1985 mortality data. Social class indicator based on occupation [Valkonen, 1990]
ltaly 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate Illiterate		0 52 113 512 240 102	- 1 1.35 1.23 1.20 1.76	Record-linkage between 1981 census and mortality in the following six months [Faggiano, 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V	0.70 1.21 0.99 1			265 000 Japanese interviewed in 1965 and followed up until 1982. Social class based on occupation. Reference category is farmers and miners

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[Hirayama, 1990]

	. Table 3	2. (Conid) Carv	icellei	10) (2) (0)	neiti	allicanice	r mortality
Study base	Indicators	Social scale	Ν	Cervix	Ν	Corpus	Study design
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	 V V		0.64 0.75 0.99 1.05 1.34		1.03 0.93 1.06 0.92 0.99	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1958]
UK – England and Wales 1959–1963 age: 15–64 (married women)	Social class SMR	1 11 111 1V V		0.34 0.64 1.00 1.16 1.81		1.00 0.94 1.03 0.99 1.22	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I II III-NM III-M IV V		0.42 0.66 0.69 1.20 1.40 1.61		0.75 0.97 1.03 1.16 1.20 1.02	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	I II III-NM III-M IV V	47 399 193 1073 544 268	0.33 0.65 0.75 1.25 1.37 2.20	20 128 64 185 104 39	0.73 1.01 1.15 1.05 1.15 1.37	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
UK – Scotland 1959–1963 age: 20–64 (married women)	Social class SMR	 11 V V		0.31 0.49 0.94 1.37 2.19		1.16 1.09 0.92 1.15 1.20	Surveillance system statistics using 1960 census data as denominator. UK Registrar General's classification. Women classified according to husband's occupation [Registrar General for Scotland, 1970]
USA 1960 age: 25–64 (white)	Educational level SMR	College High school Elementary school <8 years of school		0.68 0.88 1.11 1.42			Record-linkage study using 1960 mortality and census data. Uterus and ovary [Kitagawa, 1973]

	Tali	le 33. Cervical.	and en	dometr	ଜୀ ଜଣ	ncer inic	idence
Study base	Indicators	Social scale	N	Cervix	N	Corpus	Study design.
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 2.44 2.95		1 1.03 0.55	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	157 15 85 184 737 25 1349	1.12 0.43 0.49 0.67 0.94 1.07 1.38	108 33 71 161 465 15 574	1.02 1.56 0.86 1.07 1.15 1.43 0.92	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level.
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.63 0.86 1.02 0.83		1.18 1.11 0.98 0.84	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Italy (Torino) 1985–1987 age: 20–69	Education level OR	University High school Middle school Primary school	0 10 32 92	- 1 1.77 2.33	0 28 50 118	 1 0.93 0.81	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. [Faggiano, 1995]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	0 16 11 24	 1 1.88 2.15	0 27 8 34	- 1 0.73 1.35	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1995]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	34 97	1 2.27	100 93	1 0.98	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1995]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Indep. farmers: III White-collar: IV Blue-collar: V	 154 2189 2242	 0.98 0.84 1.22	 159 2248 1829		Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerõ, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	1 13 44	1 0.8 2.3	1 8 22	1 0.8 1.6	Hospital-based case-control study. Social class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	133 79 140	0.72 1.25 1.34	183 53 94	1.07 0.84 0.99	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]

	Table 3	3. (Contol) Cerv	vilcal an	nd endometri	elcence	r incidence
Study base	Indicators	Social scale	N	Cervix N	Corpus	Study design
USA 1969–1971 all ages	Educational level OR	College Less		0.30 1	1.24 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.45 1	1.23 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

	Tabl	e 34. Ovarilan	લ્લાતલ	er imoria	aliity
Study base	Indicators	Social scale	Ν	RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		2.2 2.3 1.7 1	Case–control study using deaths from other causes as controls [Bouchardy, 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.19 0.73 1.24 0.89 0.94	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.97 0.97 1.03 0.93 1.07	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Italy 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate Illiterate	13 35 71 323 113 19	1 0.72 0.70 0.67 0.58 0.45	Record-linkage between 1981 census and mortality in the following six months [Faggiano, 1994]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V		1.16 0.77 1.34 1	265 000 Japanese interviewed in 1965 and followed up until 1982. Social class based on occupation. Reference category's farmers and miners. [Hirayama, 1990]
UK – England and Wales 1930–1932 age: 15–64 (married women)	Social class SMR	 V V		1.43 1.16 1.02 0.77 0.83	Surveillance system statistics using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1938]

Table 34. (Contd) Ovarian cancer mortality						
Study base	Indicators	Social scale	Ν	RR	Study design	
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	 V V		1.57 1.06 1.06 0.80 0.82	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction [OPCS, 1958]	
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	1 11 111-NM 111-M IV V		1.18 1.04 1.08 1.12 1.08 0.93	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]	
UK Great Britain 19791980, 19821983 age: 2064 (married women, 2059)	Social class SMR	 -NM -M V V	212 944 439 1327 728 224	1.04 1.02 1.11 1.03 1.15 1.13	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation. Ovary, unoccupied: 0.13 [OPCS, 1986]	
UK – Scotland 1959–1963 age: 20–64 (married women)	Social class SMR	 V V		1.04 1.22 1.00 1.02 0.92	Surveillance system statistics using 1960 census data as denominator. UK Registrar General's classification. Women classified according to husband's occupation [Registrar General for Scotland, 1970]	
USA (12 census samples) White population 1979–1985 age: 25+	Education SMR	College High school Elementary scho	ol	1.15 0.84 1.48 0.88 0.93 1.14 0.82 0.71	Census linkage	

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	Tá	ble 35. Ovarian (esinge	r incide	nec
Study base	Indicators	Social scale	Ν	RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.85 0.76	Data from 1973 census were used for rate denominators. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Employees: IV Skilled workers Unskilled workers	113 21 103 169 494 7 662	1.07 0.93 1.06 1.01 1.07 0.55 1.00	Record-linkage study using 1970 census and 1970–1980 incidence data Employees classified according to educational level [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR 5	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.00 1.08 0.97 0.97	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Greece (Greater Athens) 1980–1981	Sociocultural indicator Iow/high			1.31	[Franceschi, 1991]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Indep. farmers: III White-collar: IV Blue-collar: V		- 1.06 - 1.00 0.99	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	2 16 31	1.0 0.7 0.5	Hospital-based case–control study. Social class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	243 62 105	1.14 0.81 0.88	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		1.12 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.10 1	Case-control study based on US Third National Cancer Survey, using deaths for other causes as controls. [Williams, 1977]

		Table 36. Pros	steli@o	ancer mortality	
Study base	Indicators	Social scale	Ν	RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8		0.9 0.7 0.8	Case-control study using deaths from other causes as controls
Canada (urban araa		<1		1	[Bouchardy, 1992]
Canada (urban area 1971 all ages	CMF	Q1 Q2 Q3 Q4 Q5		0.79 1.41 1.23 0.72 0.85	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, unpublished]
Canada (urban area 1986 all ages) Income CMF	Q1 Q2 Q3 Q4 Q5		1.00 0.88 1.08 0.92 1.16	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator [R. Wilkins, unpublished]
Denmark 1970–1975 age: 20–64	Occupational group SMR	Employees: I Employees: II Employees: III Employees: IV Skilled workers		0.90 1.02 1.06 1.16 1.17	Record-linkage study using 1970 census and 1970–1975 mortality data. Employees classified according to educational level
		Unskilled workers		0.96	[Danmarks Statistik, 1979]
Finland 1969–1972 age: 15–64 (married women)	Social class CMF	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1.29 1.00 0.81 1.03 0.87	Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Näyhä, 1977]
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		0.94 1.35 1.67 0.87	Surveillance system statistics using 1970 census data as denominator [Jozan, 1986]
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.59 1.16 1.13 0.83	Surveillance system statistics using 1980 census data as denominator [Jozan, 1986]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	21 47 104 441 193 38	1 1.57 1.60 1.38 1.22 1.02	Record-linkage between 1981 census and mortality in the following six months [Faggiano, 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V		0.88 0.83 0.78 1	[1 aggiano, 1995] 265 000 Japanese interviewed in 1965 and followed up until 1982. Social class based on occupation. Reference category's farmers and miners. [Hirayama, 1990]

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Spain 1980–1982Occupational group PMRProfessionals managers Agricultural workers0.92Proportional analysis on death certificatesSwitzerland 1979–1982Social classI1.13IISwitzerland age: 15–74Social classI0.65Surveillance system statisticsIII-NM III-NM1.17denominator. UK Registrar III-M0.93using 1980 census data as using 1980 census data as using 1980 census data as using 1980 census data as III-NMUK – England age: 15–64Social classI1.44Social classI1.44Surveillance system statistics using 1910 census data as IV-VUK – England age: 15–64Social classI1.11Social classI1.11Surveillance system statistics using 1910 census data as using 1910 census data as 1910–1912 age: 15–64III0.96 denominator. For social using 1910 census data as using 1910 census data as 1910–1912 age: 15–64UK – England age: 15–64Social classI1.11SwitzIII0.96 using 1930 census data as using 1930 census data as 1930–1932 and WalesIII0.96 using 1930 census data as using 1930 census data as using 1930 census data as using 1930 census data as 1930–1932UK – England and WalesSocial classI0.91 using 1930 census data as using 1930 census data as		Ta	ble 36. (Conto)	Prosidi	ક ભગાવક	ar mortality
1974–1978 RR II 1.02 using 1976 census data as denominator. UK Registrar denominator. UK Registrar denominator. UK Registrar (VV) age: 15–64 New Zealand Social class I 1 Surveillance system statistics using 1976 census data as denominator. UK Registrar (Parce, 1986) 1984–1987 RR II 1 Surveillance system statistics using 1976 census data as age: 15–64 1984–1987 RR II 0.82 using 1976 census data as age: 15–64 1970–1973 CMF B 1.27 denominator. UK Registrar (IVV) 1970–1973 CMF B 1.27 using 1970 census data as and age: 20–69 29. C 0.99 denominator. Social class inficator D D 2980–1982 Occupational profesionals margers managers managers no death certificates nanagers on death certificates 1979–1982 SMR I 0.65 Surveilance system statistics 1979–1982 SMR I 0.93 using 1910 census data as age: 15–74 1979–1982 SMR I 0.65 Surveilance system statistics 1979–1982 SMR I 0.93 denominator. KR egistrar II-M	Study base	Indicators	Social scale	Ν	RR	Study design
1984–1987 RR II 0.82 using 1986 census data as age: 15–64 III-NM 0.71 denominator. UK Registrar III-M 0.77 General's social class item press] Norway Social class A 0.91 Surveillance system statistics 1970–1973 CMF B 1.27 using 1970 census data as age: 20–69 C 0.99 denominator. Social class indicator D 0.90 based on occupation E (farmers) 1.20 Spain Occupational group PMR Manual workers Agricultural workers Agricultural 1.13 workers III-NM 1.17 denominator. UK Registrar 1979–1982 SMR I 0.93 using 1980 census data as as age: 15–74 II 0.93 using 1980 census data as as 1979–1982 SMR I 0.93 using 1910 census data as age: 15–74 III-NM 1.17 denominator. UK Registrar III-M 0.92 General's social class i 1.44 SMR I	1974–1978		III-NM III-M IV		1.02 0.58 1.08 0.66	using 1976 census data as denominator. UK Registrar General's social class classification
1970–1973 age: 20–69CMFB1.27 Cusing 1970 census data as denominator. Social class indicator based on occupation E (farmers)Spain 1980–1982Occupational group PMRProfessionals0.92 managers AgriculturalProportional analysis on death certificates1980–1982Occupational group PMRProfessionals0.92 managers AgriculturalProportional analysis on death certificatesSwitzerland 1979–1982Social classI0.65 Manual workers AgriculturalSurveillance system statistics1979–1982SMRII0.93 Using 1980 census data as age: 15–74III-NM III-NM1.17 Henominator. UK Registrar UK – England 	1984–1987		III-NM III-M IV		0.82 0.71 0.77 1.38	using 1986 census data as denominator. UK Registrar General's social class classification
1980–1982group PMRmanagers Manual workers Agricultural workerson death certificatesSwitzerlandSocial classI0.98[E. Regidor, unpublished]SwitzerlandSocial classI0.65Surveillance system statistics1979–1982SMRII0.93using 1980 census data asage: 15–74III-NM1.17denominator. UK Registrar III-MUK – EnglandSocial classI1.44SMRII1.02General's social class dassification (V-VUK – EnglandSocial classI1.44age: 15–64IV0.96denominator. For social age: 15–64UK – England age: 15–64Social classI1.11Switzerland age: 15–64Social classI1.11UK – England and WalesSocial classI1.11Switzerland age: 15–64Social classI1.11UK – England and WalesSocial classI1.11Switzerland and WalesSocial classI1.11Switzerland and WalesSocial classI1.11Switzerland V0.98classification see Introduction NVV0.88classification see Introduction. VNomen classified according to husbard's occupation (OPCS, 1938]UK – England and WalesSocial classI0.91Surveillance system statistics ausing 1970 census data as using 1970 census data as using 1970 census data as using 1970 census data as 	1970–1973		B C D		1.27 0.99 0.90	using 1970 census data as denominator. Social class indicator
Switzerland 1979–1982 age: 15–74Social classI0.65 0.93 using 1980 census data as denominator. UK Registrar III-NMSurveillance system statistics denominator. UK Registrar (III-NMUK – England and WalesSocial classI1.44 0.96General's social class classification (C.E. Minder, unpublished]UK – England and WalesSocial classI1.44 		group	managers Manual workers Agricultural			
1979–1982 age: 15–74SMRII0.93 using 1980 census data as denominator. UK Registrar III-Mage: 15–74III-NM1.17 III-Mdenominator. UK Registrar General's social class classification 					0.98	[E. Regidor, unpublished]
and WalesSMRII1.02using 1910 census data as1910–1912III0.96denominator. For socialage: 15–64IV0.90classification see IntroductionV0.75[OPCS, 1919]UK – EnglandSocial classI1.11and WalesSMRII0.981930–1932III1.06age: 15–64IV0.88classification see Introduction.VV1.06Women classified according to husband's occupation [OPCS, 1938]UK – England and WalesSocial classI0.91Surveillance system statisticsusing 1970 census data as1970–1972III0.99age: 15–64III0.99using 1970 census data as1970–1972III-NM0.99age: 15–64III-M1.15using 1970 census data as1970–1972III-NM0.99using 1970 census data as1970–1972III-NM0.99using 1970 census data as1970–1972III-M1.15using 15–64IV1.06	1979–1982		11 111-NM 111-M		0.93 1.17 1.02	using 1980 census data as denominator. UK Registrar General's social class classification
and WalesSMRII0.98using 1930 census data as1930–1932III1.06denominator. For socialage: 15–64IV0.88classification see Introduction.V1.06Women classified according to husband's occupation [OPCS, 1938]UK – England and WalesSocial classI0.91SMRII0.89using 1970 census data as1970–1972III-NM0.99denominator. For socialage: 15–64III-M1.15classification see Introduction.IV1.06Women classified according to	and Wales 1910–1912		11 111 1V		1.02 0.96 0.90	using 1910 census data as denominator. For social classification see Introduction
and WalesSMRII0.89using 1970 census data as1970–1972III-NM0.99denominator. For socialage: 15–64III-M1.15classification see Introduction.IV1.06Women classified according to	and Wales 1930–1932		III IV		0.98 1.06 0.88	using 1930 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation
	and Wales 1970–1972		III-NM III-M IV		0.89 0.99 1.15 1.06	using 1970 census data as denominator. For social classification see Introduction.

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	Ta	Ible 36. (Contd) I	Piosia	ate cancer i	nortality
Study base	Indicators	Social scale	Ν	RR	Study design
UK – Great Britain 1979–1980, 1982–1983 age: 20–64	Social class SMR	I II III-NM III-M IV V	80 527 259 831 426 179	0.77 1.04 1.03 1.12 0.97 1.09	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation Ovary, unoccupied: 0.13 [OPCS, 1986]
UK (London) 1967–191987	Employment grade RR	Administrators Professionals Clerical Other	5 62 11 10	1 0.95 0.57 0.85	17530 London civil servants, medically examined 1967–1969, and followed up until 1987. [Davey Smith, 1991]
USACalifornia 19491951 age: 2564	Social class SMR	 V V		1.35 1.12 0.96 0.88 1.07	Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation ICD 162-163 [Buell, 1960]
USA 1960 age: 25–64 (White)	Educational level SMR	College High school Elementary school <8 years of school		1.77 0.86 0.95 0.91	Record-linkage study using 1960 mortality and census data [Kitagawa, 1973]
USA (12 census samples) White population 1979–1985 age: 25+	Education) SMR	College: 5+ y 4 y 1-3 y High school: 4 y 1-3 y Ellementary school 5-7 y 0-4 y	l: 8 y	0.83 1.31 1.07 0.94 0.93 0.95 0.95 1.38	Census linkage [Rogot <i>et al.</i> , 1992]

		able 37. Prosta	ie cano	ectionetele	entee
Study base	Indicators	Social scale	Ν	RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 1.0 1.4	Population-based case-control study. Tertiles of total family income [Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1 1.1 1.1	Population-based case–control study. Tertiles of years of education [Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Occupational prestige scale OR	High Middle Low		1.0 0.9 1.0	Population-based case–control study. Tertiles of the occupational prestige scale. [Bourbonnais, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 11		1 0.84 0.64	Data from 1973 census were used for rate denominator. Social class based on area of residence [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers	1001 90 158 383 174 393	0.95 1.01 1.15 1.14 1.12 1.01	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Unskilled workers Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.96 1.24 1.10 0.98 0.83	[Lynge, 1990] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
ltaly (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	20 29 30 95	1 0.81 0.45 0.66	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self employed Manual workers	21 32 26 76	1 0.73 1.17 0.94	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	96 76	1 0.80	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Indep. farmers: III White-collar: IV Blue-collar: V	2521 2353 3441 5781 13920	1.04 0.99 1.01 1.06 0.97	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	8 6 13	1 0.2 0.2	Hospital-based case–control study. Social class indicator based on occupation [Dosemeci, 1993]

	Table 37. (Contd) Prostate cancer incidence								
Study base	Indicators	Social scale	Ν	RR	Study design				
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	380 132 185	1.00 0.95 1.04	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]				
USA 1969–1971 all ages	Educational level OR	College Less		1.00 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]				
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.86 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, 1977]				

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		Table 38. Testis d	ANCE	2morialih	y .
Study base	Indicators	Social scale	Ν	RR	Study design
Finland 1971–1985 age: 35–66	Social class RR	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1 0.85 0.69 0.60	Record-linkage study using 1970, 1975 and 1980 censuses and 1971–1985 mortality data [Valkonen, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-NM III-M IV V		1 2.7 2.0 2.7 1.0 4.9	Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I II-NM III-M IV V	0 6 7 12 6 2	- 1 0.9 1.4 0.9 0.4	Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce and Bethwaite, in press]
UK – England and Wales 1921–1923 age: 15–64	Social class SMR	1 11 111 1V V	L	0.83 1.67 0.89 0.89 0.78	Surveillance system statistics using 1920 census data as denominator. For social classification see Introduction [OPCS, 1927]
UK – England and Wales 1949–1953 age: 15–64	Social class SMR	 V V		1.64 1.21 0.92 0.98 0.90	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. [OPCS, 1958]
UK – England and Wales 1970–1972 age: 15–64	Social class SMR	I II III-NM III-M IV V		1.57 1.06 1.25 0.89 1.05 0.86	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64	Social class SMR	I II III-NM III-M IV V	29 112 80 213 92 36	0.80 0.85 1.22 1.04 1.04 1.12	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]

		Table 39. Tes	siis ca	icer incid	lence
Study base	Indicators	Social scale	N	RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR			1 0.62 0.75	Data from 1973 census were used for rate denominators. Social class based on area of residence [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: III Employees: IV Skilled workers	227 37 133 204 121 306	0.97 0.93 1.25 1.17 1.11 1.03	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level.
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Unskilled workers Upper white-collar Lower white-collar Skilled workers Unskilled workers	313	0.82 1.69 1.08 0.85 0.90	[Lynge, 1990] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Ind. farmers: III White-collar: IV Blue-collar: V	66 48 60 413 548	0.99 0.87 0.98 1.34 0.85	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation
Turkey (Istanbul) 1979–1984	Social class OR	Higher Medium Lower	7 48 136	1 1.1 1.0	[Vågerö, 1986] Hospital-based case-control study. Social class indicator based on occupation. [Dosemeci, 1993]
UK 1977–1981 Age >10 years	Social class OR	I II-NM III-NM IV V		1.99 1.61 1.42 1 1.11 1.00	Hospital-based case-control study. Controls were cancer and no-cancer patients [Swerdlow <i>et al.</i> 1991]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	41 19 22	0.98 1.29 0.91	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 990]
USA Buffalo 1969–1971 all ages	Occupation OR	Professionals All other occupations Semi-unskilled		1 1.44 1.89	Hospital-based case-control study [Graham & Gibson, 1972]

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		Table 40	Bedde	i canc	97 me	ortallity	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	>11 9–11 1–8 <1		1.4 2.2 1.2 1		2.1 0.6 1.5 1	Case-case study using deaths from other causes as controls [Bouchardy, 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		1.27 0.97 0.70 1.23 0.91			Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Canada (urban area) 1986 all ages		Q1 Q2 Q3 Q4 Q5		0.88 0.88 1.00 1.13 1.06			Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	30 50 129 446 147 35	1 1.11 1.34 1.02 0.79 0.78	0 7 13 79 41 9	- 0.91 0.95 0.90 0.69	Record-linkage between 1981 census and the mortality in the following six months [Faggiano, 1995]
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V		1.23 1.13 0.99 1		1.00 1.24 - 1	265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-NM III-M IV V		1 1.04 1.17 1.78 0.91 1.26			Surveillance system statistics using 1976 census data as denominators. UK Registrar General's social class classification
New Zealand 1984–1987 age: 15–64	Social class RR	I II III-NM III-M IV V	3 8 11 18 12 7	1.20 1.36 1.00 1.86 1.57 2.07			[Pearce, 1986] Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Norway 1970–1973 age: 20–69	Social class CMF	A B C D E (farmers)		1.32 1.01 1.14 0.88			Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Central Bureau of Statistics, 1976]

Study base	Indicators	Social scale		Male R	Ν		Study design
Spain 1980–1982	Occupational group	Professionals managers).98		RR	Proportional analysis on death certificates
	PMR	Manual workers Agricultural workers, etc.	1	1.20			
			0).75			[E. Regidor, unpublished]
Switzerland							
(Vaud)	Social class	1, 11	0).84		0.70	Proportional mortality study. UK
1977–1984 all ages	PMR	III IV, V		.26).90		1.09 1.39	Registrar General's social class classification. (No. of males = 147 females = 27) [Levi, 1988]
Switzerland	Social class	I	0).75			Surveillance system statistics
1979–1982	SMR	[]	0).84			using 1980 census data as
age: 15–74		III-NM	1	.09			denominator. Registrar General's
		III-M		.24			social class classification
		IV-V	0	.98			[C.E. Minder, unpublished]
UK – England	Social class	1	. 0	.96			Surveillance system statistics
and Wales	SMR	11		.95			using 1910 census data as
1910–1912		111	1	.00			denominator. For social
age: 15–64		IV		.89			classification see Introduction
		V	1	.21			[OPCS, 1919]
UK – England	Social class	I	0	.76		0.60	Surveillance system statistics
and Wales	SMR	11		.98			using 1930 census data as
1930-1932				.06			denominator. For social
age: 15–64 (morried women)		IV		.94			classification see Introduction.
(married women)		V	1	.06			Women classified according to husband's occupation [OPCS, 1938]
UK – England	Social class	I	1	.06		0.76	Surveillance system statistics
and Wales	SMR	11	0	.77			using 1950 census data as
1949–1953		111	1.	.09			denominator. For social
age: 15–64		IV	0.	.96		1.04	classification see Introduction
(married women)		V	1.	.07		0.92	[OPCS, 1958]
JK – England	Social class	1	0.	.79		0.54	Surveillance system statistics
and Wales	SMR	11		.83			using 1970 census data as
970–1972		III-NM		.91			denominator. For social
ige: 15–64		III-M	1.	.20		1.31	classification see Introduction.
married women)		IV	1 e -	.05			Women classified according to
		V	1.	.15			husband's occupation
							[OPCS, 1977]

	Table 40. (Contd) Bladder cancer mortality								
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design		
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women 20–59)	Social class SMR	I II III-NM III-M IV V	100 464 258 983 614 251	0.80 0.77 0.89 1.13 1.22 1.34	11 70 31 154 81 27	0.58 0.80 0.80 1.26 1.28 1.35	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]		
UK (London) 1967–1987	Employment grade RR	Administrators Professionals Clerical Other	2 29 6 8	1 1.12 0.62 1.44			17 530 London civil servants, medically examined 1967–1969 and followed-up until 1987. [Davey Smith, 1991]		
USA (12 census samples) White population 1979–1985 age: 25+	Education SMR	College: $5+ y$ 4 y 1-3 y High school: $4 y$ 1-3 y Elementary school 5-7 y 0-4 y	ol: 8 y	0.80 0.99 0.91 1.29 0.65 0.92 1.06 1.14			Census linkage [Rogot <i>et al.</i> , 1992]		
USA – California 1949–1951 age: 25–64	Social class SMR	 V V		1.06 1.06 0.99 0.98 0.82			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation [Buell, 1960]		

		Table 41.	5)6000	i œme	er inc	idemee	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 1.3 1.4			Population-based case-control study. Tertiles of total family income [Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1 1.1 1.0			Population-based case-control study. Tertiles of years of education
Canada (Montreal) 1979–1985 age: 35–70	Occupational prestige scale OR	-		1 1.0 1.0			[Bourbonnais, in press] Population-based case-control study. Tertiles of occupational prestige scale
(French)							[Bourbonnais, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 1 1		1 0.47 0.27		1 1.59 0.53	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers	1103 112 218 575 272 665	0.83 0.88 1.03 1.17 1.26 1.22	27 4 24 50 136 2	0.73 0.57 0.87 1.00 1.05 0.58	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level
	-	Unskilled workers		0.98	224	1.12	[Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.03 0.98 1.00 1.03		1.29 1.12 0.95 0.90	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
ltaly (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	23 58 100 252	1 1.03 1.10 1.16			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
ltaly (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self employed Manual workers	54 75 57 214	1 0.79 0.99 0.98			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data [Faggiano, 1994]
ltaly (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	189 231	1 1.17			Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. [Faggiano, 1994]

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		Table 41. (Con	(d) Ba	dder G	ncen	inciden	ce
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self employed: II Indep. farmers: III White-collar: IV Blue-collar: V	1013 889 704 2687 5448	1.10 1.02 0.82 1.14 0.99	- 60 - 700 603	- 0.95 - 1.08 0.94	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
Turkey (Istanbul) 1979–1984 all ages	Social class OR	Higher Medium Lower	15 70 182	1 1.1 1.1			Hospital-based case-control study. Social-class indicator based on occupation [Dosemeci, 1993]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	278 122 185	0.89 1.10 1.16	110 43 57	1.01 0.99 0.98	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.82 1		0.95 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$10 000 Less		1.09 1		0.88 1	Case–control study based on US Third National Cancer Survey, using deaths from other causes as controls. [Williams, 1977]

		Table 42	. Kiche	y cance	en mo	nteilliy	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74 Canada (urban area) 1971 all ages	Years of education OR Income CMF	2+ 9–11 1–8 <1 Q1 Q2 Q3 Q4 Q5		4.9 3.0 1.4 1 1.00 1.08 1.11 1.22 0.64			Case–control study using deaths from other causes as controls [Bouchardy, 1992] Surveillance system statistics unsing 1971 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.84 0.82 1.21 0.89 1.18		0.69 1.13 1.13 0.81 1.06	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator [K. Wilkins, unpublished]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	18 31 77 230 67 10	1 1.04 1.24 0.89 0.77 0.62	0 10 19 103 28 3	- 1 1.09 1.15 0.67 0.31	Record-linkage between 1981 census and mortality in the following six months
Japan 1965–1982 age: 40+	Social class SMR	I, II III IV V	10	2.17 1.07 1.45 1	0	2.20 1.87 0.47 1	[Faggiano, 1995] 265 000 Japanese interviewed in 1965 and followed-up until 1982. Social class based on occupation. Reference category is farmers and miners [Hirayama, 1990]
New Zealand 1974–1978 age: 15–64	Social class RR	 -NM -M V V		1 1.06 0.97 0.97 0.89 1.69			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification [Pearce, 1986]
New Zealand 1985–1987 age: 14–64	Social class RR	1 11 111-NM 111-M IV V	7 18 42 23 20 13	1 1.79 1.86 1.07 1.29 2.00			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce & Bethwaite, in press]
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V		1.19 1.16 0.65		1.27 0.78 1.02	Proportional mortality study. UK Registrar General's social class classification (No. of males = 65; females = 33). [Levi, 1988]
UK – England and Wales 1910–1912 age: 15–64	Social class SMR	 V V		1.36 0.91 0.91 0.83 0.91			Surveillance system statistics using 1910 census data as denominator. For social classification see Introduction [OPCS, 1919]

		Table 42. (Co	onto) Kie	iney cai	ngəri	nortellit	У
Study base	Indicators	Social scale	Ν	Male RR		Female RR	Study design
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	 V V		1.34 1.00 1.06 0.96 0.82	,	1.58 1.03 1.00 0.95 0.86	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1958]
UK – England and Wales 1959–1963 age: 15–64 (married women)	Social class SMR	 11 V V		0.89 0.93 1.05 0.98 1.09		0.91 0.86 1.06 1.01 1.21	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]
UK – England and Wales 1970–1972 age: 15–64 (married women)	Social class SMR	I III-NM III-M IV V		1.01 1.03 1.12 1.03 1.02 1.10		1.05 1.04 1.11 1.09 1.12 1.03	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64	Social class SMR	I II III-NM III-M IV V	101 483 256 740 401 1.71	0.95 0.98 1.12 1.04 1.02 1.18			Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
USA – California 1949–1951 age: 25–64	Social class SMR	 V V		0.92 0.89 1.16 0.98 1.07			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation [Buell, 1960]

		Table 43.	Kidney	(Ceme:	r înci	dence	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 2.0 1.4			Population-based case-control study. Tertiles of total family income
Canada	Education	High		1			[Bourbonnais, in press]
(Montreal) 1979–1985 age: 35–70	OR	Middle Low		1.7 1.7			Population-based case-control study. Tertiles of years of education
(French)	Onerweitenst	11.1					[Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70	Occupational prestige OR	High Middle Low		1 1.2 1.8			Population-based case-control study. Tertiles of the occupational prestige scale
(French)							[Bourbonnais, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.44 0.16		1 1.89 1.00	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers	514 75 102 231 104 248	0.95 1.40 1.12 1.11 1.15 1.08	40 7 27 39 142 3	1.21 1.07 1.01 0.82 1.13 0.89	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level
P		Unskilled workers		0.89	184	0.97	[Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.22 1.12 1.00 0.73		1.13 1.11 0.95 0.95	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Sweden 1961–1970 all ages	Social class SIR	Employees: 1 Self-employed: II Indep. farmers: III White-collars: IV Blue-collars: V	710 630 647 1938 3820	1.07 1.05 0.82 1.13 0.96	 62 775 799	 0.83 0.98 1.01	Record-linkage study between 1961 census and incidence data. Social class indicator based on occupation
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	72 24 37	1.03 0.88 0.99	199	1.01	[Vågerö, 1986] Record-linkage study between 1971 census and1971–1981 incidence data (1% sample). UK Registrar General's social class classification
	Calue at the state	0.1					[Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.56 1		1	Case–control study based on US Third National Cancer Survey, using deaths for other causes as controls. [Williams, 1977]

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		Table 43. (Co	mic)) Ki	ຢານອາງ ອອກເອກ	incident	Se
Study base	Indicators	Social scale	Ν	Male N RR	Female RR	Study design
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.96 1	1.08 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

Table 44. Brain cancer mortality

Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		2.6 2.8 1.5 1		0.8 1.3 1.1 1	Case–control study using deaths from other causes as controls ICD: 191-192 [Bouchardy, 1992]
Canada (urban area) 1971 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.93 0.84 1.28 0.93 1.02		1.12 0.82 1.15 1.26 0.62	Surveillance system statistics using 1971 census data as denominators. Neighbourhood income quintiles as social indicator [R. Wilkins, unpublished]
Canada (urban area) 1986 all ages	Income CMF	Q1 Q2 Q3 Q4 Q5		0.95 0.93 1.08 1.05 0.98		1.34 0.97 0.89 0.89 0.91	Surveillance system statistics using 1986 census data as denominators. Neighbourhood income quintiles as social indicator [R. Wilkins, unpublished]
Italy 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate	38 56 115 345 92	1 0.76 0.82 0.75 0.66	10 34 48 230 89	1 0.92 0.68 0.74 0.68	Record-linkage between 1981 census and mortality in the following six months
New Zealand 1974–1978 age: 15–64	Social class CMF	Illiterate I II III-NM III-M IV V	22	0.71 1 0.79 0.82 0.56 0.79 0.81	24	0.71	[Faggiano, 1995] Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification. ICD-191-192 [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class CMF	I II-NM III-M IV V	14 40 47 39 38 10	1 1.54 1.04 0.91 1.22 1.19			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification [Pearce and Bethwaite, in press]

Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Spain 1980–1982	Occupational group PMR	Professionals managers Manual workers		1.06			Proportional analysis on death certificates
		Agricultural workers		1.04			
				1.02			
0	0.111						[E. Regidor, unpublished]
Switzerland	Social class	I, II		1.44		0.91	Proportional mortality study. UK
(Vaud) 1977–1984 all ages	PMR	III IV, V		0.75 0.82		1.24 0.89	Registrar General's social class classification. (No. of males = 75 females = 37) [Levi, 1988]
Switzerland	Social class	1		0.76			Surveillance system statistics
1979–1982	SMR			0.92			using 1980 census data as
age: 15–74		III-NM		1.20			denominator. UK Registrar
		III-M		1.11			General's social class classification
	~ · · · ·	IV-V		0.80			[C.E. Minder, unpublished]
UK – England	Social class	1		1.60			Surveillance system statistics usin
and Wales 1930–1932	SMR	11 		1.60			1930 census data as denominator
age: 15–64		IV .		1.20 0.80			For social classification see Introduction. Women classified
ago. 10 01		V		0.60			according to husband's occupatio [OPCS, 1938]
UK – England	Social class	I		1.33		1.27	Surveillance system statistics usin
and Wales	SMR]]		0.96		1.04	1950 census data as denominator
1949–1953		111		1.04		1.02	For social classification see
age: 15–64		IV		0.88		0.91	Introduction. Women classified
(married women)		V		0.92		0.82	according to husband's occupatio [OPCS, 1958]
UK – England	Social class			1.08		1.37	Surveillance system statistics
and Wales 1970–1972	SMR	II III-NM		1.01		1.08	using 1970 census data as
age: 15–64		III-M		1.11 1.05		0.98 1.11	denominator. For social classification see Introduction.
(married women)		iv		1.00		1.00	Women classified according to
(V		0.92		1.00	husband's occupation [OPCS, 1977]
JK	Social class	ł	215	1.19	97	1.26	Surveillance system statistics
Great Britain	SMR	11	784	0.98	351	1.06	using 1980 census data as
1979–1980,		III-NM	398	1.09	138	0.98	denominator. For social
1982-1983		III-M	1200	1.03	520	1.12	classification see Introduction.
age: 20–64 (married women, 20–59)		IV V	577 262	0.96 1.19	196 76	0.90 1.13	Women classified according to husband's occupation [OPCS, 1986]
JK (London)	Employment	Administrators	3	1			17 530 London civil servants,
1967–1987	grade	Professionals	28	0.87			medically examined 1967-1969
	RR	Clerical	6	0.87			and, followed-up until 1987
		Other	3	0.47			[Davey Smith, 1991]

Table 44. (Contd) Brain cancer mortality								
Study base	Indicators	Social scale N	Male N RR	Female RR	Study design			
USA – California	Social class		1.30		Surveillance system statistics			
1949–1951	SMR	11	1.27		using 1950 census data as			
age: 25–64		111	1.08		denominator. Social class			
		łV	0.77		indicator based on occupation			
		V	0.58		[Buell, 1960]			
JSA	Education	College: 5+y	1.17		Census linkage			
12 census	SMR	4y	1.11		U U			
amples)		1-3y	1.40					
Nhite population		High school: 4y	0.90					
1979–1985		1-3y	0.59					
age:25+		Elementary school: 8y	1.27					
		5-7y	0.92		[Rogot <i>et al.</i> , 1972]			

Table 45. Brain cancer incidence

Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–75 all ages	Social class RR	 		1 1.55 1.05		1 0.51 0.37	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–80 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	483 62 86 209 94 268 501	1.04 1.17 0.84 0.99 0.95 1.05 0.97	39 10 39 79 240 6 279	0.88 1.01 0.80 0.99 1.09 0.87 0.99	Record-linkage study using 1970 census and 1970–80 incidence data. Employees classified according to the educational level [Lynge, 1990]
Finland 1971–85 birth cohort: 1906–45	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.06 1.10 1.00 0.81		1.10 1.05 0.97 0.96	Record-linkage study using 1970 census and 1971–85 incidence data. Social class based on occupation [Pukkala, 1993]
Sweden 1961–70 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	473 402 525 1415 2910	1.01 0.99 1.02 1.06 0.97	 95 1174 973	- 1.11 - 1.02 0.97	Record-linkage study between 1961 census and 1961–70 incidence data. Social class indicator based on occupation [Vågerö, 1986]
UK – England and Wales 1971–81 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	65 17 46	0.99 0.78 1.21	53 18 25	1.07 1.02 0.89	Record-linkage study between 1971 census and 1971–81 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]

		Table 46. T	hyroi	d gland	Cent	ser mort	ality
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Switzerland (Vaud) 1977–84 all ages	Social class PMR	I, II III IV, V		0.45 0.85 2.19		0.27 1.94 1.47	Proportional mortality study. UK Registrar General's social class classification. (No. of males = 11; females = 9) [Levi, 1988]
UK – England and Wales 1949–53 age: 15–64 (married women	Social class SMR)	 V V		1.00 1.19 0.98 0.97 0.88		0.64 0.93 1.05 1.04 1.00	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1958]
UK – England and Wales 1959–63 age: 15–64 (married women)	Social class SMR	 V V		0.88 1.12 1.00 0.80 1.38		0.60 0.83 1.01 1.10 1.54	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction [OPCS, 1971]
UK – England and Wales 1970–72 age: 15–64 (married women)	Social class SMR	I II III-NM IIIMM IV V		1.57 1.06 1.17 0.85 1.13 1.09		0.74 0.77 0.58 1.25 1.28 1.64	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1977]
UK – Great Britain 1979–80, 1982–83 age: 20–64	Social class SMR	I III-NM III-M IV V	9 45 17 63 37 10	0.98 1.08 0.89 1.05 1.15 0.85			Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]

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		Table 47. Thy	rold gl	andea	nceri	neidenei	9
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	1 11 111		1 1.33 0.55		1 0.97 0.84	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	42 3 14 22 12 27 56	0.89 0.56 1.32 1.02 1.14 0.99 1.05	4 2 6 22 41 0 43	0.57 1.22 0.68 1.50 0.99 - 0.90	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.07 1.19 1.01 0.64		1.16 1.05 0.95 0.97	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	76 91 88 261 493	0.92 1.25 0.96 1.12 0.93	33 489 370	 1.08 1.01 0.98	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vågerö, 1986]
USA 1969–1971 all ages	Educational level OR	College Less		1.66 1		1.86 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.52 1		1.86 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls [Williams, 1977]

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		Table (48. Lym)	ahoma	mori	ality	
Study base	Indicators	Social scale	Ν	Male RR	N	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		2.3 1.2 1.6 1		2.6 1.1 0.6 1	Case-control study using deaths from other causes as controls. ICD-9: 201 [Bouchardy, 1992]
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	12+ 9–11 1–8 <1		1.2 1.4 0.6 1		2.0 1.0 1.5 1	Case-control study using deaths from other causes as controls. ICD-9: 202 [Bouchardy, 1992]
Hungary 1970 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.15 0.92 1.51 0.79		1.83 1.62 1.14 0.84	Surveillance system statistics using 1970 census data as denominator [Jozan, 1986]
Hungary 1980 age: 25–64	Years of education SMR	15+ 12–14 8–11 0–7		1.55 0.87 1.05 0.86		1.61 1.03 1.16 0.84	Surveillance system statistics using 1980 census data as denominator [Jozan, 1986]
Italy 1981–1982 age: 18–74	Education level RR	University High school Middle school Primary school Literate	26 48 102 333 89	1 0.84 0.96 1.03 0.82	11 30 62 257 101	1 0.66 0.70 0.68 0.60	Record-linkage between 1981 census and mortality in the following six months
New Zealand 1974–1978 age: 15–64	Social class RR	Illiterate I II III-NM III-M IV V	33	1.40 1 0.37 0.46 0.50 0.25 0.83	21	0.53	[Faggiano, 1995] Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification ICD-9: 201 [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	I II III-NM III-M IV V	3 5 9 4 1	- 1.0 1.7 1.0 0.8			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification ICD-9: 201 [Pearce & Bethwaite, in press]
New Zealand 1974–1978 age: 15–64	Social class RR	I III-NM III-M IV V		1 0.55 0.58 0.63 0.54 0.52			Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification ICD-9: 202 [Pearce, 1986]
New Zealand 1985–1987 age: 14–64	Social class RR	I II IIIN IIM IV V	4 24 26 24 24 10	1 3.19 2.06 1.81 2.44 2.44			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification ICD-9: 202 [Pearce & Bethwaite, in press]

Study base	Indicators	Social scale	N Ma RF		Female RR	Study design
Spain 1980–1982	Occupational group PMR	Professionals managers Manual workers Agricultural workers	1.C	1		Proportional analysis on death certificates ICD-9: 201
			0.9	6		[E. Regidor, unpublished]
Spain 1980–1982	Occupational group PMR	Professionals managers Manual workers Agricultural workers	1.1 1.0			Proportional analysis on death certificates ICD-9: 201-202
		Workers	0.9	0		[E. Regidor, unpublished]
Quite a data d	Conict store	1 11			0.04	
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V	1.3 0.9 0.6	4	0.81 1.45 0.67	Proportional mortality study. UK Registrar General's social class classification. ICD-9: 202 (No. of males = 77; females = 46 [Levi, 1988]
Switzerland (Vaud) 1977–1984 all ages	Social class PMR	I, II III IV, V	2.3 0.4 0.7	.9	1.51 0.36 1.88	Proportional mortality study. UK Registrar General's social class classification. ICD-9: 203 (No. of males = 35; females = 18 [Levi, 1988]
Switzerland 1979–1982 age: 15–74	Social class SMR	 -NM -M V-V	0.6 0.8 1.2 1.1 0.8	9 7 0		Surveillance system statistics using 1980 census data as denominator. UK Registrar General's social class classification ICD-8: 200-203, 208-209 [C.E. Minder, unpublished]
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	 V V	1.4 1.1 1.0 0.9 0.8	0 10 13	1.74 0.95 1.05 0.95 0.74	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation. ICD-9:20 [OPCS, 1958]
UK – England and Wales 1949–1953 age: 15–64 (married women)	Social class SMR	I II IV V	1.1 1.3 1.0 0.7 0.9	34 02 70	4.00 1.06 0.96 0.57 0.92	Surveillance system statistics using 1950 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation. ICD-9: 20 [OPCS, 1958]

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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
UK – England and Wales 1959–1963 age: 15–64 (married women	Social class SMR)	 V V		1.01 1.07 1.07 0.83 1.09		1.45 1.12 1.02 0.82 1.07	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction ICD-9: 201 [OPCS, 1971]
UK – England and Wales 1959–1963 age: 15–64 (married women	Social class SMR)	 V V		1.11 1.00 1.06 0.93 1.24		 0.96 1.13 0.81 0.91	Surveillance system statistics using 1960 census data as denominator. For social classification see Introduction. ICD-9: 202 [OPCS, 1971]
UK – England and Wales 1970–1972 age: 15–64 (married women	Social class SMR)	I III-NM III-M IV V		1.13 1.03 1.07 1.03 1.03 0.91		1.23 0.94 1.17 1.03 1.14 1.17	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation. ICD-9: 201 [OPCS, 1977]
UK – England and Wales 1970–1972 age: 15–64 (married women	Social class	I II III-NM III-M IV V		1.08 0.81 1.11 1.17 1.13 0.63		0.73 1.26 1.63 1.00 0.93 0.39	Surveillance system statistics using 1970 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation. ICD-9: 202 [OPCS, 1980]
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 30–59)	Social class SMR	 -NM -M V V	382 1526 724 2427 1257 538	1.07 0.97 0.98 1.05 1.04 1.21	136 639 258 919 466 149	0.95 1.04 0.98 1.06 1.15 1.19	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
USA – California 1949–1951 age: 25–64	Social class SMR	 V V		1.64 1.00 1.01 0.88 1.07			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation ICD-9: 202-203, 205 [Buell, 1960]
USA (12 census samples) 1979–1985 age: 25+	Education SMR	College: 5+ y 4 y 1-3 y High school: 4 y 1-3 y Elementary school	ol: 8 y	0.75 1.19 0.97 1.17 0.75 1.17		1.16 1.22 1.02 1.02 0.87 1.20 0.51	Census linkage

		Table 49	9. Lymp	bhoma:	insid	સાલિસ	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Canada (Montreal) 1979–1985 age: 35–70 (French)	Income level OR	High Middle Low		1 1.2 1.5			Population-based case-control study. Tertiles of total family income. ICD-9: 202 [Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Education OR	High Middle Low		1 1.0 0.9			Population-based case–control study. Tertiles of the years of education. ICD-9: 202 [Bourbonnais, in press]
Canada (Montreal) 1979–1985 age: 35–70 (French)	Occupational prestige scale OR			1 1.0 1.3			Population-based case-control the occupational prestige scale. ICD-9: 202 [Bourbonnais, in press]
Colombia (Cali) 1971–1975 all ages	Social class RR	 1 1		1 0.82 1.07		1 0.88 0.97	Data from 1973 census were used for rate denominator. Social class based on area of residence. [Cuello, 1982]
Colombia (Cali) 1971–1975 all ages	Social class RR	ł 11 111		1 1.00 2.54		1 0.56 0.75	Data from 1973 census were used for rate denominator. Social class based on area of residence. ICD-9: 201 [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: III Employees: IV Skilled workers Unskilled workers	299 31 45 122 60 157 331	1.01 0.99 0.77 0.98 1.00 1.01 1.03	22 2 23 39 92 4 152	0.94 0.42 1.05 1.04 0.91 1.30 1.11	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level ICD-9: 202 [Lynge, 1990]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: III Employees: IV Skilled workers Unskilled workers	112 12 31 55 43 84 160	0.99 0.80 0.92 0.88 1.25 0.92 1.09	9 4 7 16 48 3 56	1.12 2.14 0.63 0.88 0.94 1.55 1.04	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level. ICD-9: 201 [Lynge, 1990]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.12 1.05 1.00 0.86		1.03 1.05 1.00 0.92	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation. ICD-9: 202 [Pukkala, 1993]

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Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.01 0.89 1.06 0.95		1.12 1.04 0.97 0.95	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation. ICD-9: 201 [Pukkala, 1993]
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		0.85 1.09 1.00 0.97		0.87 0.95 1.05 0.99	Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation. ICD-9: 203 [Pukkala, 1993]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	138 115 142 385 906	1.06 1.00 0.95 0.99 1.00	- 11 - 191 166	 0.84 0.96 1.04	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation. ICD: 201 [Vågerö, 1986]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	313 278 431 932 1983	0.96 0.93 1.07 1.08 0.97	 57 481 484	- 1.30 - 0.97 1.01	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation. ICD-9: 202 [Vågerö, 1986]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	114 42 68	0.95 1.00 1.02	88 32 57	0.95 0.94 1.09	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Educational level OR	College Less		0.71 1		1.98 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. ICD: 201 [Williams, 1977]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.30 1		0.89 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls. ICD: 201 [Williams, 1977]

		Table 8	50. Leu	kemier	noit	ility	
Study base	Indicators	Social scale	N	Male RR	Ν	Female RR	Study design
Brazil (São Paulo) 1978–1982 age: 35–74	Years of education OR	>11 9–11 1–8 <1		1.5 1.1 1.1 1		3.6 2.1 1.7 1	Case-case study using other causes as controls [Bouchardy, 1992]
Canada (urban area) 1971 all ages	Income	Q1 Q2 Q3 Q4 Q5		1.13 0.81 1.15 0.96 0.96		0.95 0.70 1.24 0.97 1.14	Surveillance system statistics using 1971 census data as denominator. Neighbourhood income quintiles as social indicator. ICD-9: 204-207 [R. Wilkins, unpublished]
Canada (urban area) 1986 all ages	Income	Q1 Q2 Q3 Q4 Q5		0.87 1.09 0.87 1.02 1.19		0.76 0.94 1.29 1.00 0.97	Surveillance system statistics using 1986 census data as denominator. Neighbourhood income quintiles as social indicator. ICD-9: 204-208 [R. Wilkins, unpublished]
Denmark 1970–1975 age: 20–64	Occupational group SMR	Employees: I Employees: III Employees: IV Skilled workers Unskilled workers		0.74 1.00 1.09 0.91 0.98		- 0.93 1.05 - 0.89	Record-linkage study using 1970–1975 mortality data and 1970 census. Employees classified according to educational level [Danmarks Statistik, 1979]
Finland 1969–1972 age: 15–64 (married women)	Social class CMF	Upper white-collar Lower white-collar Skilled workers Unskilled workers Farmers		1.26 1.14 0.80 0.82 0.98		1.03 1.02 1.02 1.00 0.92	Surveillance system statistics using 1970 census data as denominator. Social class indicator based on occupation [Näyhä, 1977]
ltaly 1981–1982 age: 18–74	Educational level RR	University High school Middle school Primary school Literate Illiterate	21 45 98 289 126 21	1 0.98 1.14 1.12 1.36 0.97	0 30 40 201 104 23	- 1 0.89 1.12 1.32 1.11	Record-linkage between 1981 census and mortality in the following six months
New Zealand 1974–1978 age: 15–64	Social class RR	I II III-NM III-M IV V		1 0.52 0.39 0.30 0.17 0	20		[Faggiano <i>et al.</i> , 1995] Surveillance system statistics using 1976 census data as denominator. UK Registrar General's social class classification. ICD-9: 204 [Pearce, 1986]
New Zealand 1984–1987 age: 15–64	Social class RR	 -NM -M V V	10 10 37 27 31 5	1 0.49 1.12 0.73 1.24 0.34			Surveillance system statistics using 1986 census data as denominator. UK Registrar General's social class classification. ICD-9: 204 [Pearce & Bethwaite, in press]

		Table 50, (Conici)	Loukoi	niem	ontellity	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Norway 1970–1973	Social class CMF	A B		1.09 1.03			Surveillance system statistics using 1970 census data as
age: 20–69		С		1.04			denominator. Social class
		D		0.85			indicator based on occupation
		E (farmers)		1.00			[Central Bureau of Statistics, 1976]
Spain	Occupational	Professionals		1.09			Proportional analysis
1980–1982	group PMR	managers Manual workers					on death certificates
	1 (11)	Agricultural		1.02			
		workers		1.00			
				1.06			[E. Regidor, unpublished]
Switzerland	Social class	1, 11		0.94		0.99	Proportional mortality study. UK
(Vaud)	PMR			1.02		1.45	Registrar General's social class
1977–1984		IV, V		1.05		0.48	classification
all ages							[Levi, 1988]
Switzerland	Social class	1		0.77			Surveillance system statistics
1979–1982	SMR	II III-NM		0.95			using 1980 census data as
age: 15–74		III-M		1.27 1.06			denominator. UK Registrar General's social class classification
		IV-V		0.79			[C.E. Minder, unpublished]
UK – England							
and Wales	Social class	[1.53		1.67	Surveillance system statistics
1930–1932	SMR	11		1.25		1.18	using 1930 census data as
age: 15–64				0.96		1.07	denominator. For social
(married women))	IV		0.94		0.76	classification see Introduction.
		V		0.85		0.76	Women classified according to
							husband's occupation [OPCS, 1938]
UK – England	Social class	1		1.23		1.45	Surveillance system statistics
and Wales	SMR	Н		0.98		0.92	using 1950 census data as
1949–1953		111		1.04		1.02	denominator. For social
age: 15-64		IV		0.93		1.04	classification see Introduction
(married women)	i	V		0.89		0.87	[OPCS, 1958]
UK – England	Social class			1.13		0.88	Surveillance system statistics
and Wales 1970–1972	SMR			1.00		1.08	using 1910 census data as
age: 15-64		III-NM III-M		1.07		0.98	denominator. For social
aye. 15-64 (married women)		III-IVI IV		1.01 1.04		1.05	classification see Introduction.
(married wornen)		V		1.04 0.95		1.10 1.27	Women classified according to husband's occupation
		•		0.00			[OPCS, 1977]

Table 50. (Contd) Leukemia mortality							
Study base	Indicators	Social scale	N	Male RR	N	Female RR	Study design
UK – Great Britain 1979–1980, 1982–1983 age: 20–64 (married women, 20–59)	Social class SMR	I II III-NM III-M IV V	148 525 275 923 471 200	1.10 0.90 0.99 1.07 1.06 1.22	59 293 109 422 184 64	0.92 1.08 0.95 1.10 1.05 1.19	Surveillance system statistics using 1980 census data as denominator. For social classification see Introduction. Women classified according to husband's occupation [OPCS, 1986]
USA – California 1949–1951 age: 25–64	Social class SMR	 11 V V		1.04 1.16 1.01 0.86 1.04			Surveillance system statistics using 1950 census data as denominator. Social class indicator based on occupation [Buell, 1960]
USA (12 census samples) White population 1979–1985 age: 25+	Education SMR	College: $5+ y$ 4 y 1-3 y High school: $4 y$ 1-3 y Elementary school 5-7 y 0-4 y	ol: 8 y	0.60 0.95 0.78 1.05 1.23 1.00 0.91 1.35		2.44 1.15 1.16 0.89 0.96 0.73 1.12 1.04	Census linkage [Rogot <i>et al.</i> , 1992]

Table 50. (Contd) Leukemia mortality

		Table 5	i.Leuk	kaemila.	incid	ence	
Study base	Indicators	Social scale	Ν	Male RR	Ν	Female RR	Study design
Colombia (Cali) 1971–1975 all ages	Social class RR	 		1 0.90 0.75		1 1.22 1.41	Data from 1973 census were used for rate denominators. Social class based on area of residence. [Cuello, 1982]
Denmark 1970–1980 all ages	Occupational group RR	Self-employed Employees: I Employees: II Employees: IV Skilled workers Unskilled workers	378 41 72 162 77 177	0.98 1.04 1.01 1.05 1.05 0.94	38 5 27 47 112 5	1.41 0.91 1.05 1.08 0.96 1.36	Record-linkage study using 1970 census and 1970–1980 incidence data. Employees classified according to educational level
Finland 1971–1985 birth cohort: 1906–1945	Social class SIR	Upper white-collar Lower white-collar Skilled workers Unskilled workers		1.01 1.15 0.98 1.01 0.93	153	0.99 0.99 0.98 1.01 1.01	[Lynge, 1990] Record-linkage study using 1970 census and 1971–1985 incidence data. Social class based on occupation [Pukkala, 1993]
Italy (Torino) 1985–1987 age: 20–69	Educational level OR	University High school Middle school Primary school	15 40 66 101	1 0.81 0.85 0.81	0 31 53 90	- 1 0.92 0.72	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. ICD-9: 200-208 [Faggiano, 1994]
ltaly (Torino) 1985–1987 age: 20–69	Occupational group OR	Managers Clerks Self-employed Manual workers	29 51 26 100	1 0.94 0.85 0.85	0 32 7 19	 1 0.52 0.65	Record-linkage study between 1971 and 1981 census and 1985–1987 incidence data. ICD-9: 200-208 [Faggiano, 1995]
Italy (Torino) 1985–1987 age: 20–69	Housing tenure OR	Owners Tenants	88 125	1 1.08	71 100	1 1.03	Record-linkage study between 1971 and 1981 censuses and 1985–1987 incidence data. ICD-9: 200-208 [Faggiano, 1994]
Sweden 1961–1970 all ages	Social class SIR	Employees: I Self-employed: II Indep. farmers: III White-collar: IV Blue-collar: V	373 382 506 957 2279	0.98 1.08 1.01 1.01 0.99	 48 530 481	 1.06 1.04 0.98	Record-linkage study between 1961 census and 1961–1970 incidence data. Social class indicator based on occupation [Vagero, 1986]
UK – England and Wales 1971–1981 all ages	Housing tenure SIR	Owner occupier Private rented Council tenant	103 25 44	1.11 0.76 0.89	90 36 43	1.01 1.05 0.89	Record-linkage study between 1971 census and 1971–1981 incidence data (1% sample). UK Registrar General's social class classification [Kogevinas, 1990]
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		1.64 1			Case-control study based on US Third National Cancer Survey' using deaths from other causes as controls Acute lymphocytic leukaemia [Williams, 1977]

		166651. (0	xom(d) (leukaemia.	incidence	
Study base	Indicators	Social scale	N	Male N RR	Female RR	Study design
USA 1969–1971 all ages	Family income level OR	>US\$ 10 000 Less		0.49 1	1.10 1	Case-control study based on US Third National Cancer Survey, using deaths from other causes as controls Chronic lymphocytic leukaemia [Williams, 1977]
USA 1969–1971 ages	Educational level OR	College Less		1.31 1	0.67 1	Case–control study based on US Third National Cancer Survey, using deaths from all other causes as controls Acute lymphocytic leukaemia [Williams, 1977]
USA 1969–1971 ages	Educational level OR	College Less		0.56 1	0.21 1	Case–control study based on US Third National Cancer Survey, using deaths from all other causes as controls Chronic lymphocytic leukaemia [Williams, 1977]