

Table 2.1. Cohort studies of cigarette smoking and cancer

Country Name of study	Date of cohort sampling	References	Maximum years of follow-up	Cohort sample and age at beginning of follow- up	Collection of information	Cases/ deaths	Neoplasms analysed	Comments
United Kingdom								
British Doctors' Study	1951	Doll & Hill (1964a,b); Doll & Peto (1976); Doll <i>et al.</i> (1980, 1994), Doll <i>et al.</i> (2004); Doll <i>et al.</i> (2005)	1951–2001	40 634 (34 440 men, 6194 women) British doctors [age not reported]	Postal questionnaire	Deaths	Lung, urinary bladder, kidney, upper aerodigestive tract (oesophagus, mixed, pharyngeal, nasopharynx), pancreas, stomach, colon, rectum, liver, leukaemia, ovary, non-Hodgkin lymphoma, multiple myelomas	Information on pipe and cigars
Whitehall Study	1967–69	Ben-Shlomo <i>et al.</i> (1994); Batty <i>et al.</i> (2008)	1967–87	19 018 men from the British Civil Service, clinically examined, aged 40–69 years	Interview	Deaths	Lung, stomach, pancreas, bladder, upper aerodigestive tract, kidney, liver, myeloid leukaemia, colon/rectum, lymphoma, brain, melanoma, prostate, lymphatic leukaemia	Information on pipe and cigars
British United Provident Association (BUPA) Study	1975–82	Wald & Watt (1997)	1975–93	21 520 professional and business men, aged 35–64 years	Interview	Deaths	Lung	Information on pipe and cigars
Oxford Vegetarian Study	1980–84	Sanjoaquin <i>et al.</i> (2004)	1980–99	10998 vegetarians and non- vegetarians in the UK, 4162 men, 6836 women, aged 16– 89	Self- completed questionnaire	Cases	Colon/rectum	

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General Practitioner Research Database (GPRD)	1994-2001	Lindblad <i>et al.</i> (2005)	1994-2001	Patients attending general practitioner throughout Britain. Aged 40-84 years	GP records	Cases	Upper aerodigestive tract (oesophagus), stomach	Lindblad <i>et al.</i> (2005) is nested case-control study
British Women's Heart and Health Cohort Study	1999-2001	Lawlor <i>et al.</i> (2004)	1999-2004	4286 women randomly sampled from 23 towns in the UK, aged 60-79 years	Self- completed questionnaire and interview	Cases	Breast	
Sweden								
Swedish Twin Registry Study	1961	Floderus <i>et al.</i> (1988); Steineck <i>et al.</i> (1988); Grönberg <i>et al.</i> (1996); Terry <i>et al.</i> (1998, 1999, 2001); Isaksson <i>et al.</i> (2002)	1961-97	10 942 same-sex twin pairs, born 1886-1925	Postal questionnaire	Deaths	Lung, urinary bladder, stomach, colon, rectum, endometrium, prostate, pancreas	Information on pipe and cigars

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Swedish Census Study	1963	I: Cederlöf <i>et al.</i> (1975); Carstensen <i>et al.</i> (1987); Nilsson <i>et al.</i> (2001)	1963–72	Adults selected from the 1960 census population, aged 18–69 years I: 55 930 (27 841 men, 28 089 women)	Postal questionnaire (94%), telephone, interview	Deaths	Lung, urinary bladder, pancreas, colon, rectum, liver, endometrium, cervix, upper aerodigestive tract	Information on pipe and cigars Stratified by urban-rural residence
		II: Nordlund <i>et al.</i> (1997, 1999)	1964–89	II: 41 710 (15 881 men, 25 829 women)	Postal questionnaire (87%), telephone, home visits	Cases	Lung, urinary bladder, kidney, upper aerodigestive tract (oral cavity, pharynx, oesophagus, mixed), pancreas, stomach, colon/rectum, liver, breast, endometrium, cervix, leukaemia	Stratified by place of residence
Swedish Construc-tion Workers’ Study	1971–75 (I) 1971–91 (II) 1971–92 (III-V)	I: Adami <i>et al.</i> (1996); Nyrén <i>et al.</i> (1996) II: Adami <i>et al.</i> (1998) III: Chow <i>et al.</i> (2000) IV: Fernberg <i>et al.</i> (2006) V: Fernberg <i>et al.</i> (2007); Zendejdel <i>et al.</i> (2008)	1971–2004	Male construction workers, aged ≥ 35 years I: 143 998 II: 334 957 III: 363 992 IV: 335 612 V: 336 381	Self-administered questionnaire/interview	Cases	Kidney, colon, rectum, prostate, leukaemia, non-Hodgkin lymphoma, Hodgkin lymphoma, multiple myelomas, stomach	Information on cigars, pipes and snuff (IV and V) Lymphoma stratified by sex (IV)

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Swedish Mammo- graphy Cohort (SMC) and Cohort of Swedish Men (COSM)	1987-90 (SMC) and 1997 (COSM)	Larsson <i>et al.</i> (2005)	1997-2004	37 147 women (SMC) and 45 906 men (COSM)	Postal questionnaire	Cases	Pancreas	
Norway								
Norwegian Cohort Study	1964–65	Heuch <i>et al.</i> (1983); Engeland <i>et al.</i> (1996a,b); Kjaerheim <i>et al.</i> (1998)	1966–93	26 132 subjects (11 863 men, 14 269 women) including a sample of the 1960 census population, a random sample from 4 selected countries and a sample of siblings living in Norway with a sibling living in the USA, aged 33–72 years	Postal questionnaire	Cases	Lung, urinary bladder, kidney, upper aerodigestive tract (mixed), pancreas, stomach, colon, rectum, breast, endometrium, cervix, prostate, leukaemia, ovary	
Norwegian Screening Study	1974–78 (I) 1972–78 (II) 1977–83 (III)	I: Vatten & Kvinnsland (1990) II: Tverdal <i>et al.</i> (1993); Thune & Lund (1994) III: Veierød <i>et al.</i> (1997)	1972–88	Participants in a health screening programme, aged 35–49 years I: 24 329 women II: 44 290 men, 24 535 women; 53 242 men III: 26 119 men	Interview	Deaths	Lung, pancreas, stomach, colon, rectum, breast, cervix, prostate	Information on pipe and cigars
Norwegian Women and Cancer Study (NOWAC)	1996 and 1998	Gram <i>et al.</i> (2009)	1996-2005	Country-wide population- based cohort study. 68 160 women aged 30-69 years	Postal- questionnaire	Cases	Colon/rectum	

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Nord- Trøndelag Health Survey (HUNT-I)	1984-86	Nilsen and Vatten (2000); Sjödahl <i>et al.</i> (2007)	1984-96	77 310 residents Nord Trondelag, aged ≥ 20 years	Health examination and self- completed questionnaire	Cases	Pancreas, stomach	Nilsen and Vatten (2000) based on 31 000 men and 32 374 women aged ≥ 30 years
Finland								
Finnish Men's Study	1962	Magnus <i>et al.</i> (1969); Tenkanen <i>et al.</i> (1987); Hakulinen <i>et al.</i> (1997)	1964-80	4452 men from 3 urban and 3 rural areas, born 1898- 1917	Interview	Cases	Lung, prostate	Hakulinen <i>et al.</i> (1997) also included subjects from another survey in 1972-77
Finnish Mobile Clinic Health Examination Study	1966-72	Knekt <i>et al.</i> (1998); Heikkilä <i>et al.</i> (1999)	1966-91	56 973 subjects having received multiphasic health examination from the Mobile Clinic [sex distribution not reported]	Postal questionnaire, checked by interview	Cases	Colon, rectum, prostate	

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Iceland								
Reykjavík Study	1967–91	Tulinius <i>et al.</i> (1997)	1968–95	22 946 (11 366 men, 11 580 women) residents of Reykjavík, born 1907–1954, aged 31–61 years	Self- administered questionnaire	Cases	Lung, urinary bladder, oesophagus, pancreas, stomach, colon, endometrium, cervix, prostate, leukaemia	
The Netherlands								
Dutch DOM Study	1975–77, 1982–83	Ellard <i>et al.</i> (1995); de Waard <i>et al.</i> (1995); van Wayenburg <i>et al.</i> (2000); van der Hel <i>et al.</i> (2003)	1975–90	26 697 women from 2 breast cancer screening programmes (DOM project and Lutine Study) in Utrecht, aged 40–64 years	Self- administered questionnaire	Cases	Lung, colon/rectum	van der Hel <i>et al.</i> (2003) conducted a nested case-control study, stratified by NAT2 genotype (slow/rapid acetylator)
Monitoring Project on Cardio- vascular Disease Risk Factors	1987–91	Tiemersma <i>et al.</i> (2002a)	1987–98	36 000 men and women	Self- administered questionnaire	Cases	Colon/rectum	Tiemersma <i>et al.</i> (2002) conducted a nested case-control study.
Netherlands Cohort Study on Diet and Cancer	1986	Lüchtenborg <i>et al.</i> (2005)	1986–93	58,279 men and 62,573 women from 204 municipal population registries, aged 55–69 years. Lüchtenborg <i>et al.</i> (2005) based on sub- cohort of 2948 subjects.	Self- administered questionnaire	Cases	Colon/rectum	

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Denmark								
Copenhagen City Heart Study	1976–78, 1981–83	Lange <i>et al.</i> (1992); Prescott <i>et al.</i> (1999)	1976–89	14 223 subjects (6511 men, 7703 women) randomly selected among 90 000 persons living in a defined area of Copenhagen, aged ≥ 20 years	Self-adminis- tered questionnaire	Deaths	Lung	The study by Prescott <i>et al.</i> (1999) was based on data from three cohorts, including the Copenhagen City Heart Study, the Centre of Preventive Medicine and the Copenhagen Male Study.
Europe								
European Prospective Investigation into Cancer and Nutrition (EPIC)	1992–99	González <i>et al.</i> (2003); Bjerregaard <i>et al.</i> (2006); Vrieling <i>et al.</i> (2009)	2000–07	484 042 healthy subjects across 10 countries	Self- administered questionnaire	Cases	Bladder, pancreas, stomach	
Norwegian- Swedish Cohort Study	1991–92	Gram <i>et al.</i> (2005)	1991–2000	102 098 population-based women in Norway and Sweden	Postal questionnaire	Cases	Breast	
USA								
Framingham Heart Study	1948–52	Williams <i>et al.</i> (1981); Freund <i>et al.</i> (1993)	1948–82	5209 subjects receiving routine examinations at the Framingham Heart Study Clinic, MA	Interview	Cases	Lung, colon	

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American Cancer Society (nine-state) Study	1952	Hammond & Horn (1958a, b)	1952–55	187 783 men from 9 states, aged 50–69 years	Self- administered questionnaire	Deaths	Lung, urinary bladder, upper aerodigestive tract (mixed), pancreas, colon, rectum	Information on pipe and cigars
US Veterans' Study	1954, 1957	Kahn (1966); Rogot & Murray (1980); Kinlen & Rogot (1988); McLaughlin <i>et al.</i> (1989); Hsing <i>et al.</i> (1990a); McLaughlin <i>et al.</i> (1990a,b); Hsing <i>et al.</i> (1991); Heineman <i>et al.</i> (1992); Zahm <i>et al.</i> (1992); Chow <i>et al.</i> (1993); Heineman <i>et al.</i> (1994); Chow <i>et al.</i> (1995); Heineman <i>et al.</i> (1994); McLaughlin <i>et al.</i> (1995); Chow <i>et al.</i> (1996)	1954–80	293 958 male holders of a US Government Life Insurance, aged 31–84 years	Postal questionnaire	Deaths	Lung, urinary bladder, kidney, upper aerodigestive tract (oral cavity, nasopharynx, larynx, pharynx, oesophagus), pancreas, stomach, colon, rectum, liver, leukaemia, soft- tissue sarcoma, brain, biliary ducts, adrenals, non- Hodgkin lymphoma, Hodgkin's lymphoma, multiple myelomas	Information on pipe and cigars

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Californian Study	1954–57	Weir & Dunn (1970)	1954–62	68 153 male labour union members, aged 35–64 years	Postal questionnaire	Deaths	Lung, urinary bladder, upper aerodigestive tract (oral cavity, larynx, pharynx, oesophagus), pancreas	
Cancer Prevention Study I (CPS-I)	1959–60	Hammond & Garfinkel (1961); Hammond (1966); Garfinkel (1980); Hammond & Seidman (1980); Garfinkel (1985); Stellman & Garfinkel (1986, 1989a,b); Garfinkel & Boffetta (1990); Thun <i>et al.</i> (1995); Thun & Heath (1997); Thun <i>et al.</i> (1997a); Shanks & Burns (1998)	1959–72	1 051 038 adults from 25 states, aged > 30 years	Postal questionnaire	Deaths	Lung, urinary bladder, upper aerodigestive tract (oesophagus, mixed), pancreas, stomach, colon/rectum, liver, endometrium, cervix, leukaemia, biliary ducts	Information on pipe and cigars For women, all sites of the aerodigestive tract and all cancers of the haematopoie-tic system were grouped.
Harvard Alumni Study	1962, 1966	Paffenbarger <i>et al.</i> (1977, 1978)	1962–92	13 905 male Harvard alumni; mean age 58.3 years	Postal questionnaire	Cases/ deaths	Leukaemia, Hodgkin lymphoma	

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Tecumseh Community Health Study (I/II/III)	1962–69	Islam & Schottenfeld (1994)	1962–87	3956 residents (1857 men, 2099 women) of Tecumseh, MI, aged > 25 years	Interview	Cases	Lung	
Kaiser Permanente Medical Care Program Study	1964–73 (I) 1978–85 (II) 1964–91 (I+II)	I: Hiatt & Bawol (1984); Hiatt & Fireman (1986); Friedman (1993); Friedman & van den Eeden (1993); Iribarren <i>et al.</i> (1999, 2001) II: Hiatt <i>et al.</i> (1988); Klatsky <i>et al.</i> (1988); Sidney <i>et al.</i> (1993); Hiatt <i>et al.</i> (1994) I+II: Herrinton & Friedman (1998)	I: 1964–97 II: 1978–87 I + II: 1973–93	Members of the Kaiser Permanente Medical Care Program I: approx. 175 000 members aged 15–94 years II: approx. 80 000 members aged 30–89 years I+II: 252 836 members aged 16–84 years	Interview	Cases	Lung, pancreas, colon, rectum, breast, prostate, leukaemia, thyroid, non-Hodgkin lymphoma, multiple myelomas	Information on pipe and cigars Period of collection and age range of participants at baseline vary slightly between studies, leading to different cohort sizes

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American Men of Japanese Ancestry Study	1965–68	Stemmermann <i>et al.</i> (1988); Severson <i>et al.</i> (1989); Nomura <i>et al.</i> (1990a,b); Chyou <i>et al.</i> (1992, 1993a,b, 1995); Nomura <i>et al.</i> (1995); Chyou <i>et al.</i> (1996)	1965–95	8 006 American men of Japanese ancestry residing in Hawaii, born 1900–19	Interview	Cases	Lung, urinary bladder, upper aerodigestive tract (mixed), stomach, colon, rectum, colorectal polyps, prostate	
Lutheran Brotherhood Insurance Study	1966	Hsing <i>et al.</i> (1990b); Kneller <i>et al.</i> (1991); Linet <i>et al.</i> (1991); Chow <i>et al.</i> (1992); Linet <i>et al.</i> (1992); Zheng <i>et al.</i> (1993); Hsing <i>et al.</i> (1998)	1966–86	17 633 male holders of a Lutheran Brother-hood Insurance policy, largely of Swedish, Norwegian or German descent, aged ≥ 35 years	Postal questionnaire	Deaths	Lung, pancreas, stomach, colon/rectum, leukaemia, non- Hodgkin lymphoma, multiple myelomas	Information on pipe and cigars
MRFIT Study	1975	Kuller <i>et al.</i> (1991)	1975–85	12 866 randomized participants initially selected for the MRFIT, aged 35–57 years	Interview	Deaths	Lung, urinary bladder, kidney, upper aerodigestive tract (oesophagus, mixed), pancreas	

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Nurses' Health Study	1976	Willett <i>et al.</i> (1987); London <i>et al.</i> (1989); Hunter <i>et al.</i> (1990); Chute <i>et al.</i> (1991); Giovannucci <i>et al.</i> (1994a); Kearney <i>et al.</i> (1995); Grodstein <i>et al.</i> (1995); Fuchs <i>et al.</i> (1996); Hunter <i>et al.</i> (1997); Speizer <i>et al.</i> (1999); Egan <i>et al.</i> (2002); Al-Delaimy <i>et al.</i> (2004); Tamimi <i>et al.</i> (2004); Kenfield <i>et al.</i> (2008)	1976–2004	121 700 female nurses from 11 states, aged 30–55 years	Postal questionnaire	Cases and deaths	Lung, colon, rectum, colorectal polyps, pancreas, breast, skin, ovary,	
Adventists' Health Study	1976	Mills <i>et al.</i> (1988, 1989a,b, 1990, 1991); Singh & Fraser (1998)	1976–82	34 198 male and female Adventists, aged > 25 years	Postal questionnaire	Cases	Urinary bladder, breast, pancreas, colon, prostate, leukaemia, multiple myeloma	

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Leisure World Study	1981–82 (I) 1981–85 (II)	I: Wu <i>et al.</i> (1987) II: Ross <i>et al.</i> (1990); Shibata <i>et al.</i> (1994)	1981–85	Retirees living in a retirement community I: 11888 II: 13 976 [sex distribution not reported]	Postal questionnaire	Cases	Pancreas, colon/rectum, prostate	

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Cancer Prevention Study II (CPS- II)	1982	Garfinkel (1985); Stellman & Garfinkel (1986); Garfinkel & Stellman (1988); Stellman & Garfinkel (1989a); Garfinkel & Boffetta (1990); Calle <i>et al.</i> (1994); Thun <i>et al.</i> (1995); Heath <i>et al.</i> (1997); Thun & Heath (1997); Thun <i>et al.</i> (1997a,b); Kahn <i>et al.</i> (1998); Chao <i>et al.</i> (2000); Shapiro <i>et al.</i> (2000); Coughlin <i>et al.</i> (2000); Chao <i>et al.</i> (2002); Flanders <i>et al.</i> (2003); Harris <i>et al.</i> (2004); Henley <i>et al.</i> (2004)	1982–96	1 185 106 adults from 25 states, aged > 30 years	Postal questionnaire	Deaths	Lung, kidney, stomach, colon/rectum, colorectal polyps, breast, leukaemia, pancreas	Information on pipe and cigars

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Iowa Women's Health Study	1986	Potter <i>et al.</i> (1992); Gapstur <i>et al.</i> (1992); Bostick <i>et al.</i> (1994); Harnack <i>et al.</i> (1997); Parker <i>et al.</i> (2000); Limburg <i>et al.</i> (2003); Olson <i>et al.</i> (2005)	1986–99	41 837 women randomly selected from the Iowa driver's licence list, aged 55–69 years	Postal questionnaire	Cases	Lung, pancreas, colon/rectum, breast, non-Hodgkin lymphoma	
Health Professionals' Follow-up Study	1986	Giovannucci <i>et al.</i> (1994b); Kearney <i>et al.</i> (1995); Fuchs <i>et al.</i> (1996); van Dam <i>et al.</i> (1999); Giovannucci <i>et al.</i> (1999)	1986–94	47 781 male health professionals, aged 40–75 years	Postal questionnaire	Cases	Pancreas, colon/rectum, colorectal polyps, prostate, skin	
Chicago Heart Association Detection Project in Industry (CHA)	1967-73	Colangelo <i>et al.</i> (2004); Gapstur <i>et al.</i> (2000)	1967-97	22 295 men and 17 004 women from 84 companies in Chicago. All adult ages (exact range not provided)	Self-administered questionnaire	Deaths	Colon/rectum, pancreas.	Stratified by age (<>60 years) and sex.
Washington County Maryland	1963 (I) and 1975 (II)	Gallicchio <i>et al.</i> (2006); Alberg <i>et al.</i> (2007)	1963-78 (I) 1975-94 (II)	45 749 adults >25 years from 1963 and 48172 from 1975 private censuses	Self-administered questionnaire	Cases	Bladder, pancreas	Stratified by cohort

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NIH-AARP study	1995-96	Freedman <i>et al.</i> (2007); Freedman <i>et al.</i> (2008); Leitzmann <i>et al.</i> (2009)	1995-2000	American Association of Retired Persons Diet and Health Study (NIH-AARP), 282 856 men and 191 750 women in six US states, aged > 50 years	Self-administered questionnaire	Cases	Lung, upper aerodigestive tract (oesophagus, larynx, oral cavity, oropharynx, hypopharynx), stomach	
Women's Health Initiative (WHI)	1993-1998	Paskett <i>et al.</i> (2007)	1998-2005	146 877 women from an observational study and three clinical trials of women's health at post-menopausal ages, aged 50-79 years	Self-completed questionnaire	Cases	Colon/rectum	
California Teachers Study cohort (CTS)	1995	Reynolds <i>et al.</i> (2004)	1995-2000	116 544 female professional school employees in California, all ages	Self-completed questionnaire	Cases	Breast	
US radiologic technologists study	1983-89	Ha <i>et al.</i> (2007)	1983-98	Nationwide cohort of radiologic technologists, 54 522 women	Questionnaire survey	Cases	Breast	
Multiethnic Cohort Study	1993	Nöthlings <i>et al.</i> (2007)	1993-2002	183 522 men and women, aged 45-75 years	Self-administered questionnaire	Cases	Pancreas	
Canada								
Canadian War Veterans' Study	1956	Best <i>et al.</i> (1961); Lossing <i>et al.</i> (1966)	1956-62	92 000 war veterans (78 000 men, 14 000 women), aged 55-79 years	Postal questionnaire	Deaths	Lung, urinary bladder, pancreas	

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National Breast Screening Study (NBSS)	1980–85	Friedenreich <i>et al.</i> (1993); Terry <i>et al.</i> (2002a,b); Cui <i>et al.</i> (2006)	1980–93	Multicentre randomized controlled trial of mammography screening for breast cancer in almost 90 000 women, aged 40–59 years	Self-administered questionnaire	Cases	Breast, endometrium, colon/rectum	Friedenreich <i>et al.</i> (1993) conducted a nested case–control study.
China								
Shanghai Factory Study	1972–73, 1977–78	Chen <i>et al.</i> (1997)	1972–93	9351 factory employees (6494 men, 2857 women) aged 35–64 years	Interview	Deaths	Lung, upper aerodigestive tract (oesophagus), stomach, colon/rectum, liver	Site-specific analyses conducted for men only
Xi'an Factory Study	1976	Lam <i>et al.</i> (1997)	1976–96	1696 factory employees (1124 men, 572 women) aged ≥ 35 years	Interview	Deaths	Lung, upper aerodigestive tract (oesophagus), liver	
Shanghai female textile workers trial of breast self- examination	1989–91	Li <i>et al.</i> (2006)	1989–98			Cases	Pancreas	Li <i>et al.</i> (2006) conducted nested case-control study
Shanghai Residential Study	1983–84	Gao <i>et al.</i> (1999)	1983–94	213 800 residents of urban, suburban and rural areas of Shanghai, aged > 20 years [sex distribution not reported]	Interview	Deaths	Lung, upper aerodigestive tract (oesophagus), stomach, liver	

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Linxian Intervention Trial Study	1985	Guo <i>et al.</i> (1994); Tran <i>et al.</i> (2005)	1985–2001	Approx. 30 000 residents of 4 communes in Linxian, aged 40–69 years [sex distribution not reported]	Interview	Cases	Upper aerodigestive tract (oesophagus), stomach	Nested case–control study
Shanghai Men's Study	1986–89	Ross <i>et al.</i> (1992); Yuan <i>et al.</i> (1996); Fan <i>et al.</i> (2008)	1986–93	18 244 male residents of 4 communities in Shanghai, aged 45–64 years	Interview	Cases	Lung, urinary bladder, upper aerodigestive tract (oesophagus, mixed), pancreas, stomach, colon, rectum, liver	Ross <i>et al.</i> (1992) conducted a nested case–control study on smoking and risk of colorectal adenomatous polyps.
Taiwan								
Taiwanese Study	1982–86	Liaw & Chen (1998)	1982–94	14 397 residents (11 096 men, 3301 women) of Taiwan, aged > 41 years	Interview	Deaths	Lung, urinary bladder, upper aerodigestive tract (nasopharynx, oesophagus, mixed), stomach, colon/rectum, liver, pancreas, cervix	
Taichung Veterans General Hospital	2005–07	Yen <i>et al.</i> (2008)	2007	8356 male patients at Taichung Veterans General Hospital, aged > 18 years	[not clear]	Cases	Oral cavity	

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Japan								
Life Span Study (LSS)	1963, 1968, 1985	Akiba (1994); Land <i>et al.</i> (1994); Goodman <i>et al.</i> (1995); Sauvaget <i>et al.</i> (2005)	1963–87	93 000 exposed survivors of the atomic blasts and 27 000 non-exposed controls Sauvaget <i>et al.</i> (2005): subcohort in Hiroshima and Nagasaki, 14885 men and 23691 women, aged 34–98 years	Postal questionnaire, interview	Cases	Lung, upper aerodigestive tract (nasal cavity and sinuses, larynx, oesophagus, mixed), colon, rectum, liver, breast, stomach	
Japanese Physicians’ Study	1965	Kono <i>et al.</i> (1987)	1965–83	5477 male physicians, aged 27–89 years	Self-adminis- tered questionnaire	Deaths	Lung, upper aerodigestive tract (oesophagus, mixed), stomach, colon/rectum, liver	
Six-Prefecture Study	1965	Hirayama (1967, 1975a,b, 1977a,b, 1978, 1981, 1982, 1985, 1989a,b,c); Mizuno <i>et al.</i> (1989); Akiba & Hirayama (1990); Hirayama (1990); Kinjo <i>et</i> <i>al.</i> (1998)	1965–81	265 118 subjects (122 261 men, 142 857 women) covering > 90% of the census population from 29 districts, aged > 40 years	Interview	Deaths	Lung, urinary bladder, upper aerodigestive tract (larynx, oesophagus, mixed), pancreas, stomach, colon, rectum, liver, cervix	

Table 2.1. Cohort studies of cigarette smoking and cancer

Country Name of study	Date of cohort sampling	References	Maximum years of follow-up	Cohort sample and age at beginning of follow- up	Collection of information	Cases/ deaths	Neoplasms analysed	Comments
Chiba Center Association Study	1984	Murata <i>et al.</i> (1996)	1984–93	17 200 male participants in a mass screening for gastric cancer	Self- administered questionnaire	Cases	Lung, urinary bladder, upper aerodigestive tract (mixed), pancreas, stomach, colon, rectum, liver	
Fukuoka Study	1986–89	Mizoue <i>et al.</i> (2000)	1986–96	13 270 residents of 4 towns in Fukuoka, aged ≥ 30 years [sex distribution not reported]	Self-adminis- tered questionnaire	Deaths	Stomach, liver	Results reported include only men because of the low prevalence of site- specific cancer deaths in women.
Japan Public Health Center- based prospective study (JPHC)	1990 (I, III), 1993 (II)	I: Otani <i>et al.</i> (2003); II: Hanaoka <i>et al.</i> (2005); III: Sasazuki <i>et al.</i> (2002); Ishiguro <i>et al.</i> (2009)	1990-1999	I: 27 063 men and 27 435 women aged 40-59 in four public health centre areas II: 30 524 men and 31 668 women, aged 40-69 years III: 19 576 men	Self-adminis- tered questionnaire	Cases	Colon/rectum, breast, stomach, oesophagus	
Japan Collaborative Cohort study (JACC)	1988-90	I: Wakai <i>et al.</i> (2003); II: Lin <i>et al.</i> (2002); Fujino <i>et al.</i> (2005); Sakata <i>et al.</i> (2005); Ide <i>et al.</i> (2008)	1988-97	I: 25 260 men and 34 619 women II: 46 465 men and 64 327 women Aged 40-79 years	Self- administered questionnaire	I: Cases II: Deaths	Colon, rectum, pancreas, stomach, oesophagus, oral, pharynx	

Table 2.1. Cohort studies of cigarette smoking and cancer

Country Name of study	Date of cohort sampling	References	Maximum years of follow-up	Cohort sample and age at beginning of follow- up	Collection of information	Cases/ deaths	Neoplasms analysed	Comments
Pooled analysis of JPHC (I), Three- Prefecture study (II) and JACC (III)	1983-84 and 1990 (II), 1990 and 1993 (I), 1988- 90 (III)	Wakai <i>et al.</i> (2007)	1983-99	Pooled analysis of 110 002 men. Aged 40-59 and 40-69 (I), 40-79 (II and III).	Self- administered questionnaire in each of the three studies	Deaths	Lung	
Takayama Study	1992	Shimizu <i>et al.</i> (2003)	1993-2000	31 152 residents of Takayama city, aged ≥ 35 years	Self- completed questionnaire	Cases	Colon/rectum	
Miyagi Prefecture Study	I: 1984 II: 1990	I and II: Koizumi <i>et al.</i> (2004); Ishikawa <i>et al.</i> (2006) II: Akhter <i>et al.</i> (2007)	I:1984-92; II:1990- 97	22 836 men and 24 769 women resident in Miyagi Prefecture, aged 40-64 years	Self- administered questionnaire	Cases	Colon/rectum, stomach, oesophagus	Koizumi <i>et al.</i> (2004) men only
Korea								
Korean Cancer Prevention Study (KCPS)	1992-95	Jee <i>et al.</i> (2004); Yun <i>et al.</i> (2005); Sung <i>et al.</i> (2007)	1993-2002	1 307 275 participants (833 608 men and 473 667 women) in the National Health Insurance Corporation with biennial medical evaluations in 1992- 1995, aged 30-95 years Sung <i>et al.</i> (2007) 669 570 men	Self- completed questionnaire	Cases and deaths	Oesophagus, stomach, colon/rectum, liver, bile duct, pancreas, larynx, lung, prostate, kidney, bladder, brain, thyroid, leukaemia, breast, cervix.	Stratified by sex.

Table 2.1. Cohort studies of cigarette smoking and cancer

Country Name of study	Date of cohort sampling	References	Maximum years of follow-up	Cohort sample and age at beginning of follow- up	Collection of information	Cases/ deaths	Neoplasms analysed	Comments
Korea Elderly Phamacepidem iologic Cohort (KEPEC)	1993-98	Kim <i>et al.</i> (2006)	1993-2002	4694 men and 9409 women resident in the Busan Metropolitan City and beneficiaries of the Korean Medical Insurance Corporation	Self- administered mailed questionnaire	Cases	Colon-rectum	
Korea Multi- Center Cohort study (KMCC)	1993- 2002:	Kim <i>et al.</i> (2007)	1993-2000	13 785 subjects	Interview	Cases	Stomach	
Singapore								
Singapore Chinese Health Study	1993-98	Friborg <i>et al.</i> (2007), Tsong <i>et</i> <i>al.</i> (2007)	1993-2005	61 320 men and women resident in Singapore and of Chinese ethnicity, aged 45- 74 years	Interview- administered questionnaire	Cases	Nasopharyngeal and oropharynx, colon- rectum.	
Others								
Seven-Country Study	1957–64	Jacobs <i>et al.</i> (1999)	25 years	12 763 men from 16 cohorts in Croatia, Finland, Greece, Italy, Japan, the Netherlands, Serbia and the USA, aged 40–59 years	Self-adminis- tered questionnaire	Deaths	Lung	

Table 2.1. Cohort studies of cigarette smoking and cancer

Country Name of study	Date of cohort sampling	References	Maximum years of follow-up	Cohort sample and age at beginning of follow- up	Collection of information	Cases/ deaths	Neoplasms analysed	Comments
Israel Civil Service Centre Study	1963	Kark <i>et al.</i> (1995)	1963–86	9975 male civil servants in Israel, aged 40–69 years	Interview	Cases	Lung	
Asia Pacific Cohort Studies Collaboration (APCSC)	1966-99	Huxley <i>et al.</i> (2007a,b); Ansary- Moghaddam <i>et al.</i> (2006)	Varies by study, 1961-99	Pooling of 31 studies with 480 125 subjects from Australia, New Zealand and Asia	Self-reported	Cases, deaths	Lung, colon/rectum, pancreas	