

## Appendix A. The characteristics of included studies in meta-analysis

**Table A1.** 25 cohort studies with 174 hazards ratio (HR) estimates and corresponding 95% confidence interval (CI) selected for analysis of the association of incidence of pancreatic cancer with alcohol consumption in general populations, 1994-2023

Author ¥	Publ. Year	Sex/Subgroup †	Mean Age ††	Country	N of cohort	N of PC incidence	Covariates assessed ‡
Shibata et al. [2]	1994	Men and women	75	US	11,000	63	1,2,7,12
Isaksson et al. [3]	2002	Men and women	56	Sweden	21,884	149	1,2,5-9,12
Allen et al. [4]	2009	Women	60	UK	1,280,296	1,325	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men smoker ATBC	60	US	26,987	204	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men COSM	62	US	45,338	75	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men CPS II	62	US	66,165	210	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men HPFS	58	US	47,762	198	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men MCCS	55	Australia	14,908	28	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men NLCS	62	US	58,279	144	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men NYSC	61	US	30,363	90	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men PLCO	65	US	28,315	60	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Men SMC	66	Sweden	36,630	54	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women BCDDP	67	US	43,162	102	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women CNBSS	50	Canada	49,654	105	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women CPS II	62	Canada	74,138	164	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women CTS	63	Sweden	100,030	116	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women IWHS	62	US	34,588	171	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women MCCS	55	Australia	22,830	35	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women NHS	53	US	68,478	178	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women NLCS	62	US	62,573	115	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women NYSC	61	US	22,550	48	1,2,4-6,8,9,12
Genkinger et al. [5]	2009	Women PLCO	65	US	29,914	90	1,2,4-6,8,9,12
Heinen et al. [6]	2009	Men and women	62	Netherlands	120,852	350	1,2,5-9,12
Heinen et al. [6]	2009	M/W current smoker	62	Netherlands	37,434	122	1,2,5-9,12
Heinen et al. [6]	2009	M/W ex-smoker	62	Netherlands	41,393	131	1,2,5-9,12
Heinen et al. [6]	2009	M/W never smoker	62	Netherlands	42,025	97	1,2,5-9,12
Jiao et al. [7]	2009	Men	62	US	280,084	748	1,2,6-9,12
Jiao et al. [7]	2009	Men and women	62	US	470,681	1,149	1,2,6-9,12
Jiao et al. [7]	2009	M/W current smoker	62	US	65,831	387	1,2,7-9,12
Jiao et al. [7]	2009	M/W ever smoker	62	US	297,580	821	1,2,7-9,12
Jiao et al. [7]	2009	M/W former smoker	62	US	177,939	434	1,2,7-9,12
Jiao et al. [7]	2009	M/W never smoker	62	US	172,317	328	1,2,7-9,12
Jiao et al. [7]	2009	Women	62	US	190,597	401	1,2,6-9,12
Klatsky et al. [8]	2015	Men and women	41	US	124,193	535	1-3,5,6,9,12
Pang et al. [9]	2018	Men	52	China	209,290	208	1,2,4-6,8,9,12
Jayasekara et al. [10]	2019	Men and women	55	Australia	38,472	239	1-9,12
Okita et al. [11]	2022	Men	52	Japan	45,577	315	1,2,4,6,8,9,12
Okita et al. [11]	2022	Men current smoker	52	Japan	24,711	179	1,2,4,8,9,12
Okita et al. [11]	2022	Men former smoker	52	Japan	10,813	71	1,2,4,8,9,12
Okita et al. [11]	2022	Men never smoker	52	Japan	10,879	61	1,2,4,8,9,12
Okita et al. [11]	2022	Women	52	Japan	50,235	283	1,2,4,6,8,9,12
Park et al. [12]	2022	M/W with IFG	47	South Korea	2,146,038	3,537	1,2,6,8,9,12
Park et al. [12]	2022	M/W with diabetes	47	South Korea	810,864	2,891	1,2,6,8,9,12
Park et al. [12]	2022	M/W withnormoglycemia	47	South Korea	6,557,269	6,390	1,2,6,8,9,12
Bui et al. [13]	2023	Men	42	South Korea	2,839,332	4,722	1,2,5,6,8,9,12
Bui et al. [13]	2023	Men non-smoker	42	South Korea	1,014,304	1687	1,2,5,6,8,9,12

Note: ¥ The study by Genkinger et al (2009) estimated HRs for each of 14 cohorts. † M=men, W=women and MW=men and women combined; IWHS-Iowa Women's Health Study, HPFS-Health Professional Follow-up Study, NHS-Nurses' Health Study, ATBC-Alpha-Tocopherol Beta-Carotene Cancer Prevention Study, COSM-Cohort of Swedish Men, CPS-II-Cancer Prevention Study II Nutrition Cohort, MCCS-Melbourne Collaborative Cohort Study, NLCS-The Netherlands Cohort Study, NYSC-New York State Cohort, PLCO-Prostate-Lung-Colorectal-Ovarian Cancer Screening Trial, SMC-Swedish Mammography Cohort, BCDDP-Breast Cancer Detection Demonstration Project Follow-up Study, CNBSS-Canadian National Breast Screening Study and CTS-California Teachers Study. †† Mean age of the cohorts at enrollment. ‡ Controlled confounders in individual studies for OR estimates of PC mortality due to alcohol consumption: 1=age, 2=sex, 3=race, 4=residence, 5=SES, 6=smoke, 7=diet, 8=exercise, 9=BMI/weight/height, 10=diabetes exclusion/control, 11=PC exclusion/control and 12=other cancer/disease exclusion/control.

**Table A2.** 13 cohort studies with 108 hazards ratio (HR) estimates and the corresponding 95% confidence interval (CI) selected for analysis of the association of mortality of pancreatic cancer with alcohol consumption in general populations, 1986-2019

Author	Pub Year	Sex/Subgroup †	Mean Age††	Country	N of cohort ‡	N of PC deaths ‡	Covariates assessed ‡‡
Kono et al. [14]	1986	Men physician	50	Japan	5,135	14	1,2,5,12
Zheng et al. [15]	1993	Men white	63	USA	23,464	100	1,2,6,12
Coughlin et al. [16]	2000	Men	57	USA	483,109	1,317	1-3,5-10,12
Coughlin et al. [16]	2000	Women	57	USA	619,199	979	1,3,5-10,12
Gaziano et al. [17]	2000	Men physician	55	USA	89,299	85	1,2,6,9,12
Lin et al. [18]	2002	Men	57	Japan	44,646	94	1,2,6,12
Lin et al. [18]	2002	Women	57	Japan	54,881	97	1,2,6,12
Ozasa et al. [19]	2007	Men	58	Japan	52,734	167	1,2,4
Ozasa et al. [19]	2007	Women	58	Japan	79,206	173	1,2,4
Stevens et al. [20]	2009	Women	56	UK	1,280,000	1,697	1,2,4-6,8,9,12
Kim et al. [21]	2010	Men	48	South Korea	919,199	388	1,2,4,6,8-12
Kim et al. [21]	2010	Men non-smoker	48	South Korea	291,864	108	1,2,4,6,8-12
Kim et al. [21]	2010	Women	48	South Korea	422,194	113	1,2,4,6,8-12
Yi et al. [22]	2010	Men	66	South Korea	2,696	16	1,2,5-7,8,12
Gapstur et al. [23]	2011	Men	57	USA	453,770	3,893	1-3,5,6,9,12
Gapstur et al. [23]	2011	Men ever smoker	57	USA	324,177	2,620	1-3,5,6,9,12
Gapstur et al. [23]	2011	Men never smoker	57	USA	119,350	823	1-3,5,6,9,12
Gapstur et al. [23]	2011	Women	57	USA	576,697	3,404	1-3,5,6,9,12
Gapstur et al. [23]	2011	W ever smoker	57	USA	253,473	1,602	1-3,5,6,9,12
Gapstur et al. [23]	2011	W never smoker	57	USA	322,472	1,802	1-3,5,6,9,12
Gapstur et al. [23]	2011	Men and women	57	USA	1,030,467	6,847	1-3,5,6,9,12
Gapstur et al. [23]	2011	MW ever smoker	57	USA	577,650	4,222	1-3,5,6,9,12
Gapstur et al. [23]	2011	MW never smoker	57	USA	441,823	2,624	1-3,5,6,9,12
Nakamura et al.[24]	2011	Men	55	Japan	13,792	33	1,2,6,9,12
Nakamura et al.[24]	2011	Women	55	Japan	16,529	18	1,2,6,9,12
Shen et al. [25]	2013	Men	72	HK-China	22,677	94	1,2,5,6,8-10,12
Shen et al. [25]	2013	Women	72	HK-China	44,138	148	1,2,5,6,8-10,12
Shen et al. [25]	2013	Men and women	72	HK-China	66,815	242	1,2,5,6,8-10,12
Jayasekara et al.[10]	2019	Men and women	55	Australia	38,492	239	1-9,12

Note: † M=men, W=women and MW=men and women combined. †† Mean age of the cohorts at enrollment. ‡ No of subjects and deaths in subgroup. ‡‡ Controlled confounders in individual studies for OR estimates of PC mortality due to alcohol consumption: 1=age, 2=sex, 3=race, 4=residence, 5=SES, 6=smoke, 7=diet, 8=exercise, 9=BMI/weight/height, 10=diabetes exclusion/control, 11=PC exclusion/control and 12=other cancer/disease exclusion/control.

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