

References author	Study time, year	Study time, prefecture, Type and subjects age source	Study subjects	Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Definition	Number of cases	Number of controls				
Tomimaga K Jpn J Cancer Res 1991; 82: 974-979	1991	1971-1985	Cases: newly histologically diagnosed gastric cancer at the center	294 188 (Men) 106 (Women)	588 376 (Men) 212 (Women)		Mached (1:2) for sex age (± 5 years) resident	
		Tochigi Prefecture Age; Not specified	Control: randomly selected who received the same early detection program and were verified as being free of gastric cancer			1.0 0.85 (0.57-1.27) 1.16 (0.78-1.72)		
Hoshiyama Y Cancer Causes Control 1992; 3 441-448	1992	1984-1990	Case: newly diagnosed adenocarcinoma	294 206 (men) 88 (women)	hospital 202 104 (men) 98 (women)		Matched for sex age administrative	
		Saitama Prefecture	Control: hospital control general			1.0 0.7 (0.3 - 1.8) 0.8 (0.5 - 1.3) 0.7 (0.4 - 1.2) 1.0 (0.5 - 1.7)		vs general Adjusted for sex age administrative smoking status
			Total alcohol consumption (l / lifetime)					
			Nondrinker			1.0		
			<500			0.9 (0.5 - 1.6)		
			≥ 500			1.0 (0.5 - 1.9)		
			vs hospital control					
			Alcohol drinking					
			Never			1.0		
			Past			0.3 (0.1 - 0.8)		
			Occasional			1.1 (0.6 - 1.7)		
			Daily			1.4 (0.7 - 2.8)		
			< 50ml / day			1.3 (0.6 - 2.4)		
			≥ 50 ml / day					
			Total alcohol consumption (l / lifetime)					
			Nondrinker			1.0		
			<500			1.4 (0.7 - 2.6)		
			≥ 500			1.2 (0.6 - 2.3)		
			0.92					

References author	Study time, year	Study time, prefecture, Type and subjects age source	Study subjects		Number of controls	Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
			Definition	Number of cases						
Inoue M Int J Cancer 1994; 56: 494-499	1994	1988-1991 Aichi Prefecture Control (mean=57.8) Cases (mean=58.0)	Case: histologically incident cases Control: outpatients of the hospital	668 420 (men) 248 (women) Subsite Cardia: 123 Middle: 218 Antrum: 256 Unclassified: 71	control 668 420 (men) 248 (women)	Subsite Total vs non-drinkers Drinkers Current drinker Ex-drinker <1-yr after quitting ≥1-yr after quitting Cardia vs non-drinkers Drinkers Current drinker Ex-drinker <1-yr after quitting ≥1-yr after quitting Middle vs non-drinkers Drinkers Current drinker Ex-drinker <1-yr after quitting ≥1-yr after quitting Antrum vs non-drinkers Drinkers Current drinker Ex-drinker <1-yr after quitting ≥1-yr after quitting	1.23 (0.92 - 1.65) 1.16 (0.86 - 1.56) 1.87 (1.11 - 3.15) 2.60 (1.09 - 6.19) 1.60 (0.87 - 2.94) 1.60 (0.92 - 2.78) 1.45 (0.82 - 2.57) 2.81 (1.21 - 6.54) 3.71 (1.02 - 13.5) 2.47 (0.93 - 6.69) 1.47 (0.94 - 2.28) 1.38 (0.88 - 2.16) 2.29 (1.12 - 4.68) 3.63 (1.23 - 10.7) 1.78 (0.75 - 4.23) 1.00 (0.69 - 1.46) 0.96 (0.65 - 1.41) 1.36 (0.69 - 2.70) 2.16 (0.75 - 6.25) 1.06 (0.46 - 2.45)	none	Matched for sex age (±2yrs) time of first	

References author	Study time, subjects age source		Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
	year	Type and Definition	Number of cases	Number of controls					
Murata M Cancer Detect Prev 1996; 20: 557-565	1996	1984-1993 Cohort population record linkage to Chiba file of the Chiba Prefecture Registry	887 (only men)	Control 1,774 (only)	Amount of alcohol intake (cups / day)	1.0	NS	Matched for sex birth year (\pm 2yrs) first digit of the address code	In sake-equivalents (a cup of 180ml of sake contains 27 ml of ethanol)
		Age: unknown			Nonsmoker				
					Amount of alcohol intake (cups / day)	1.0	NS		
					0	1.0			
					0.1 - 1.0	1.1			
					1.1 - 2.0	1.1			
					2.1 +	0.4			
					Smoker				
					Amount of alcohol intake (cups / day)	1.0	NS		
					0	1.2			
				0.1 - 1.0	1.1				
				1.1 - 2.0	1.1				
				2.1 +	0.6				
Kikuchi S Jpn J Cancer	2002	1993-1995 Case: newly nine hospitals in Tokyo Metropolitan	Whole stomach cancer patients 717	Control 883	Drinking dose (alcohol-year) *1			Adjusted for age <i>H. Pylori</i> status smoking dose *2	*1 Pure alcohol intake (ml) / day multiplied by years of drinking
		20-69 yrs	494 (men) 224 (women)	448 (men) 435 (women)	Men Stomach cancer diagnosed in screening	1.89 (0.97 - 3.69)	<0.001	Never	
			Control: recruited from screening- check programs in cancer patients in the same area			Never drinker			
			394		Occasional and 0.1-134.9 ml / day	1.0		1-399	*2 The smoking dose for ex- and current smokers was calculated by multiplying cigarettes consumed per day by years of smoking (cigarette years)
			293 (men) 101 (women)		135.0-1349.0 ml / day	2.82 (1.63 - 4.86)		400-799	
					1350.0+ ml / day	2.84 (1.67 - 4.83)		800+	
					Whole stomach cancer				
					Never drinker	1.75 (1.00 - 3.07)	<0.001		
					Occasional and 0.1-134.9 ml / day	1.0			
					135.0-1349.0 ml / day	2.15 (1.39 - 3.39)			
				1350.0+ ml / day	2.45 (1.57 - 3.83)				
				Women					
				Stomach cancer diagnosed in screening					
				Never drinker	1.54 (0.90 - 2.63)	0.291			
				Occasional and 0.1-134.9 ml / day	1.0				
				1350.0+ ml / day	1.39 (0.66 - 2.93)				

References author	Study time, year	Study time, prefecture, Type and subjects age source	Definition	Study subjects Number of cases	Number of controls	Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
						Whole stomach cancer				
						Never drinker	1.86 (1.22 - 2.83)	0.016		
						Occasional and 0.1-134.9 ml / day	1.0			
						1350.0+ ml / day	1.38 (0.77 - 2.48)			
						Stomach cancer diagnosed in screening				
						Male				
						Intestinal type				
						Never drinker	1.76 (0.94 - 3.32)	0.02		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.07 (1.22 - 3.53)			
						1350.0+ ml / day	2.14 (1.29 - 3.55)			
						Diffuse type				
						Never drinker	1.74 (0.80 - 3.79)	<0.01		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.20 (1.19 - 4.07)			
						1350.0+ ml / day	3.05 (1.68 - 5.56)			
						Early				
						Never drinker	1.76 (0.90 - 3.44)	<0.01		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.23 (1.29 - 3.87)			
						1350.0+ ml / day	2.50 (1.48 - 4.23)			
						Advance				
						Never drinker	1.88 (0.94 - 3.77)	0.02		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.17 (1.21 - 3.89)			
						1350.0+ ml / day	2.38 (1.36 - 4.17)			
						Proximal				
						Never drinker	2.72 (1.13 - 6.53)	0.06		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.24 (1.01 - 4.96)			
						1350.0+ ml / day	2.46 (1.17 - 5.17)			
						Middle				
						Never drinker	1.74 (0.84 - 3.57)	<0.01		
						Occasional and 0.1-134.9 ml / day	1.0			
						135.0-1349.0 ml / day	2.34 (1.30 - 4.19)			
						1350.0+ ml / day	3.29 (1.88 - 5.76)			

References author	Study time, prefecture, Type and subjects age source	Study subjects Number of cases	Definition	Number of controls	Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
					Distal				
					Never drinker	1.28 (0.60 - 2.76)	0.25		
					Occasional and 0.1-134.9 ml / day	1.0			
					135.0-1349.0 ml / day	1.85 (1.00 - 3.41)			
					1350.0+ ml / day	1.56 (0.86 - 2.84)			
					Whole stomach cancer				
					Female				
					Intestinal type				
					Never drinker	2.18 (1.18 - 4.03)	0.04		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	1.39 (0.55 - 3.53)			
					Diffuse type				
					Never drinker	1.74 (1.07 - 2.84)	0.06		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	1.02 (0.48 - 2.19)			
					Early				
					Never drinker	1.48 (0.88 - 2.49)	0.22		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	0.88 (0.38 - 2.05)			
					Advanced				
					Never drinker	2.48 (1.42 - 4.33)	<0.01		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	1.54 (0.68 - 3.44)			
					Proximal				
					Never drinker	1.50 (0.70 - 3.21)	0.21		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	0.43 (0.10 - 2.05)			
					Middle				
					Never drinker	2.07 (1.22 - 3.53)	0.02		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	1.34 (0.64 - 2.84)			
					Distal				
					Never drinker	1.69 (0.85 - 3.35)	0.28		
					Occasional and 0.1-134.9 ml / day	1.0			
					1350.0+ ml / day	1.78 (0.67 - 4.71)			

表E-7 喫煙と大腸がんとの関連に関するコホート研究(エビデンステーブル)

References	Study period		Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
	Year		Number of subjects for analysis	Source of subjects							Event followed
Kono S	1987	1965-1983	5,477 men	male physicians	Death	Large bowel 39	Never/past Current	NA	1.00 NA	NA	age, alcohol drinking
							-19 cigs./day 20+		0.89 (0.42-1.87) 0.93 (0.39-2.21)		
Akiba S	1990	1966-1981	265,000	6 prefecture	Death	Colon 190 males	Never Current	43	1.0	>0.1	age, residence, occupation
							1-4 cigs./day 5-14 15-24 25-34 35+	147 3 62 69 8 5	1.1 (0.8-1.5) 0.9 (0.2-2.6) 1.0 (0.7-1.6) 1.2 (0.5-2.4) 1.8 (0.6-4.2) 1.1 (0.8-1.5)		
						Colon 257 females	Never Current	232 25	1.0 0.9 (0.6-1.3)	>0.1	
							1-4 cigs./day 5-14 15+	5 18 2	1.1 (0.4-2.4) 0.9 (0.5-1.4) 0.5 (0.1-1.6)		
						Rectum 254 males	Never Current	50 204	1.0 1.4 (1.0-1.9)	0.09	
							1-4 cigs./day 5-14 15-24 25-34 35+	5 85 101 10 3	1.4 (0.5-3.2) 1.3 (0.9-1.9) 1.4 (1.0-2.0) 1.5 (0.7-2.9) 1.1 (0.3-2.9)		
						Rectum 211 females	Never Current	189 22	1.0 0.9 (0.6-1.5)	>0.1	
							1-4 cigs./day 5-14 15+	2 14 6	0.5 (0.1-1.7) 0.9 (0.5-1.5) 2.1 (0.8-4.3)		

References Author	Study period		Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
	Year	Number of subjects for analysis	Source of subjects	Event followed						
Akiba S	1994	1963-1987	61,505	atomic bomb survivors	Incidence	Colon 324 (M:172; F: Past Current)	Never 1.0 0.9 (0.6-1.4) 1.2 (0.9-1.6)	NA	city, sex, population group, atomic bomb exposure, year of birth, age	
					Incidence	Rectum 218 (M:122; F: Past Current)	Never 1.0 1.3 (0.8-2.0) 1.0 (0.7-1.4)	NA	exposure, year of birth, age	
Shimizu N	2003	1993-2000	29,051	residents in	Incidence	Colon 104 males	Never 1.00 NA	0.19	Adjusted for age, body height, body mass index, alcohol intake, and year of education	
					Current	-20 pack-years >20	1.36 (0.79-2.33) 1.37 (0.81-2.32)			
					Incidence	Colon 77 females	Never 1.00 NA	0.54		
					Current	-10 pack-years >10	0.59 (0.21-1.62) 0.77 (0.30-1.96)			
					Incidence	Rectum 57 males	Never 1.00 NA	0.04		
					Current	-20 pack-years >20	1.33 (0.57-3.12) 2.44 (1.12-5.30)			
					Incidence	Rectum 38 females	Never 1.00 NA	0.63		
					Current	-10 pack-years >10	1.76 (0.60-5.14) 0.94 (0.21-4.16)			

References Author	Study period		Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
	Year	Study period	Number of subjects for analysis	Source of subjects							Event followed or deaths
Otani T	2003	1990-1999	90,004 (42,540 males, 47,464 females)	JPHC study	Incidence	Colorectal 447 males	Never Past Current	78 124 245	1.00 1.3 (0.98-1.7) 1.4 (1.1-1.8)	age, family history of colorectal cancer, body mass index, smokers alcohol consumption, physical exercise, and area	0.47 among current smokers
					-20 pack-years 20-29 30-39 40+	Colon 298 males	Never Past Current	33 50 73 83	1.1 (0.8-1.7) 1.3 (0.9-1.9) 1.4 (1.05-2.0) 1.4 (0.99-1.8)		
							Never Past Current	53 86 160	1.00 1.4 (0.96-1.9) 1.4 (0.99-1.9)		
							-20 pack-years 20-29 30-39 40+	17 31 55 54	0.9 (0.5-1.5) 1.2 (0.8-2.0) 1.7 (1.1-2.4) 1.3 (0.9-2.0)	among current smokers	
						Rectal 148 males	Never Past Current	25 38 85	1.0 1.2 (0.7-2.0) 1.4 (0.9-2.3)		
							-20 pack-years 20-29 30-39 40+	16 19 18 29	1.6 (0.9-3.0) 1.5 (0.8-2.7) 1.0 (0.6-1.9) 1.4 (0.8-2.3)	among current smokers	
						Colorectal 259 females	Never Past Current	239 4 16	1.0 1.3 (0.5-3.6) 1.4 (0.8-2.4)		NA

References Author	Study period Year	Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Number of subjects for analysis	Source of subjects Event followed Number of incident cases or deaths						
Wakai K	2003 1988-1997	59,879 (25,260 males, 34,619 females)	JACC study Incidence Colon 219 males	Never Past Current	39 67 113	1.00 1.07 (0.72-1.59) 1.23 (0.85-1.78)	NA	area, age, aducation, family history of colorectal cancer in parents or siblings, body mass index, alcohol drinking, walking time, sedetary work, consumption of green leafy vegetables, and	
			Colon 189 females	Never Past Current	175 4 10	1.00 1.07 (0.39-2.92) 1.06 (0.55-2.02)	NA		
			Rectum 147 males	Never Past Current	34 44 69	1.00 0.88 (0.56-1.39) 0.83 (0.55-1.26)	NA		
			Rectum 57 females	Never Past Current	55 1 1	1.00 1.05 (0.14-7.69) 0.36 (0.05-2.65)	NA		

表E-8 喫煙と大腸がんとの関連に関するケースコントロール研究(エビデンステーブル)

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Type and source	Definition					
Kondo R	1975, 1967-1973	Hospital-based (3 hospitals in Nagoya)	Cases: 91% were histologically confirmed;	93 males	406 males*	Non-smoker	Matched (1:2) for : age (± 5 yrs), sex	* Total number of controls for colorectal cancer cases. Number for each site was not shown. Odds ratio was calculated based on numbers of cases and controls presented in table.
			Controls: Inpatients without history of cancer of the digestive organs, oral cavity, pharynx, lung, or larynx, or other diseases of the colorectum	86 females	174 females*	Current 1-20 cigs/day 21+ Non-smoker Smoker 1-10 cigs/day 11+		
Watanabe Y	1984, 1977-1983	Hospital-based (5 hospitals in Kyoto, Shiga, Hyogo)	Case:	138 males and females	138 males and females	Non-smoker	Matched (1:1) for : hospital, sex, and age (± 5 yrs)	
			Controls:	Rectum 65 males and females	65 males and females	Smoker 1-20 cigs/day 21+ Non-smoker Smoker 1-10 cigs/day 11+		

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Type and source	Definition					
Tajima K	1985 1981-1983	Hospital-based (Aichi Cancer Center)	Case: Colon histologically confirmed cases; Controls: Inpatients without history of cancer	Colon	111 males*	Never	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum
				27 males	Brinkman index	Current	0.61 (n.s.)	
						Never	1.00	
						<600 cig-years	0.33 (n.s.)	
						600+	0.82 (n.s.)	
						Never	1.00	
						20 + yrs old	0.71 (n.s.)	
						-19	0.15 (n.s.)	
						Never	1.00	
						Current	1.02 (n.s.)	
Kato I	1990 1979-1987	Registry based (Aichi Cancer Registry)	Cases: Colon histologically confirmed (90%); Controls: cases	Colon	16,600 males*	Non-smoker	1.00	Adjusted for age * Patients with smoking-related cancers were excluded.
				1,716 males	Brinkman index	Smoker	0.78 (0.70-0.88)	
						Non-smoker	1.00	
						Smoker	0.70 (0.57-0.87)	
						Non-smoker	1.00	
						Smoker	0.83 (0.71-0.98)	
						Non-smoker	1.00	
						Smoker	0.93 (0.82-1.05)	
						Non-smoker	1.00	
						Smoker	0.78 (n.s.)	
Kato I	1990 1986-1990	Hospital based (Aichi Cancer Center Hospital)	Cases: Colon histologically confirmed cases; 53	Colon	578 (M: 377; F: 201)*	Never	1.00	Adjusted for residence, sex, and age (five year age group) rectum
				132 (M: 79; F: 53)	Past	1.12 (0.60-2.10)		
					Current	0.59 (0.32-1.11)		
					Never	1.00		
					Past	1.54 (0.70-3.42)		
					Current	1.44 (0.69-2.99)		
					Never	1.00		
					Past	1.54 (0.70-3.42)		
					Current	1.44 (0.69-2.99)		
					Never	1.00		

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
		Type and source	Definition						Number of cases
Hoshiyama Y	1993	1984-1990	Hospital based (Saitama Cancer Center Hospital)	Cases:	653 (M: 343; F: 310)*	Never	1.0	Adjusted for sex and age	* Common controls for cases of cancer of the colon and rectum
				histologically confirmed cases;	79 (M: 37; F: 41)	Past	0.3 (0.1-0.8)		
				Current	NA				
				1-29 cigs/day	0.3 (0.1-0.7)				
				30+	0.3 (0.1-1.0)				
				Cigarette years	1.0	<0.01			
				- 800 cig-yr	0.3 (0.1-0.7)				
				>800	0.2 (0.0-0.7)				
			Rectum						
			102 (M: 61; F: 41)	Never	1.0	NA			
			653 (M: 343; F: 310)*	Past	1.4 (0.6-3.1)				
				Current	NA				
				1-29 cigs/day	1.7 (0.9-3.1)				
				30+	1.0 (0.3-2.6)				
				Cigarette years	1.0	0.31			
				Never (0)	1.6 (0.8-3.0)				
				- 800 cig-yr	1.5 (0.6-3.6)				
				>800					
Kotake K	1995	1992-1994	Hospital based (10 hospitals in Kanto region)	Cases:	187 (M: 111; F: 76)	Never	1.0	Matched for sex, age (5-year age group)	
				histologically confirmed cases;	187 (M: 111; F: 76)	Past	NA		
				Controls:		Current	1.3 (0.3-5.2)		
				screening controls and hospital		Never (0)	1.0		
				controls, including cancer patients		-400 cig-yr	NA		
						>400	0.8 (0.2-2.8)		
			Rectum						
			176 (M: 103; F: 73)	Never	1.0				
			176 (M: 103; F: 73)	Past	NA				
				Current	1.4 (0.3-6.8)				
				Never (0)	1.0				
				-400 cig-yr	NA				
				>400	2.7 (0.9-8.3)	NA			

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Type and source	Definition					
Inoue M	1988-1992	Hospital based (Aichi Cancer Center Hospital)	Cases: histologically confirmed cases; Controls: first-visit outpatients free from cancer	Colon: Proximal	8,621 males*	Never	1.0	Adjusted for age * Common controls for cases of cancer of the colon and rectum
				51 males	8,621 males*	Ever (habitual)	0.7 (0.5-1.4)	
				43 females	23,161 females*	Never	1.0	
						Ever (habitual)	0.9 (0.4-2.4)	
				Colon: Distal	8,621 males*	Never	1.0	
				75 males	8,621 males*	Ever (habitual)	1.0 (0.6-1.7)	
				62 females	23,161 females*	Never	1.0	
						Ever (habitual)	1.1 (0.6-2.3)	
				Rectum		Never	1.0	
				131 males	8,621 males*	Ever (habitual)	1.9 (1.1-3.2)	
Murata M	1984-1993	Population based (participants of stomach cancer screening)	Cases: confirmed by a record linkage to cancer registry data; Controls: screenees free from any cancer during the follow-up period	Colon	122 males	Non-smoker*	1.0	Matched (1:2) for sex, birth year (± 2 yrs), and residence
				61 males	122 males	Smoker*	NA	
						1-10 cigs/day	0.8 (n.s.)	
						11-20	1.1 (n.s.)	
						21+	1.0 (n.s.)	
				Rectum	86 males	Non-smoker	1.0	
				43 males	86 males	Smoker	NA	
						1-10 cigs/day	1.3 (n.s.)	
						11-20	1.1 (n.s.)	
						21+	3.0 (n.s.)	

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments			
		Type and source	Definition						Number of cases	Number of controls	
Yamada K	1991-93	Health check-up based (PL Tokyo Health Care Center; multiphasic health check-up program)	Cases: histologically confirmed cases; Controls: examinees without history of colorectal cancer and inflammatory bowel disease	Colorectum 66 (M:55; F: 11)	132 (M: 110; F: 22)	Never	Matched (1:2) for sex, age, and history of prior health check-up at the Center; Adjusted for body mass index and alcohol consumption	Results for <i>situ</i> (n=129) were also presented.			
									Past	1.0	0.8
									Current	1.8 (0.7-4.4)	
									1-15 cigs/day	NA	
									16-30	1.2 (0.4-3.8)	
									31+	0.8 (0.3-2.1)	
									0 pack-yr	2.4 (0.7-8.6)	
									1-20	1.0	0.02
									21-40	0.8 (0.3-2.2)	
									41+	1.2 (0.5-3.0)	
Ping Y	1986-1994	Health check-up based (Tokay University Hospital; source: health checkup examinees at the hospital)	Cases: histologically confirmed cases; Controls: cancer-free examinees	Colorectum 100 (M: 77; F: 23)	265 (NA)	Never	Matched (1:3) for sex, age (± 2 yrs), date of health checking (± 3 months), and residence; excluded 35 controls due to the lack of information on lifestyle	Odds ratio (not presented in the paper) was calculated according to figures in table. Description of method is unclear (should be omitted from the evidence table?)			
									Past	1.0	
									Current	1.4 #	
									0 pack-yr	1.5 #	
									1-15	1.0	0.005
									16-30	1.1 (0.5-2.7)	
									31+	1.2 (0.5-2.9)	
									0 pack-yr	2.9 (0.9-9.4)	
									1-15	1.0	
									16-30	1.0 (0.4-2.4)	
31+	3.4 (1.2-9.2)										
		5.0 (1.3-18.3)									

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
		Type and source	Definition						Number of cases
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Colorectal 267 males	395 males	Non-smoker	1.00	Adjusted for age (10 year age group)	
						Smoker <20 cig/day	NA		
						20-29	1.03 (0.64-1.6)		
						30+	1.20 (0.80-1.8)		
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Colon 157 males	Non-smoker	1.00	0.32		
					Smoker <20 cig/day	NA			
					20-29	0.93 (0.54-1.6)			
					30+	1.09 (0.68-1.8)			
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Rectum 110 males	Non-smoker	1.00	0.04		
					Smoker <20 cig/day	NA			
					20-29	1.17 (0.60-2.3)			
					30+	1.40 (0.77-2.5)			
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Rectum 110 males	Non-smoker	1.00	0.04		
					Smoker <20 cig/day	NA			
					20-29	1.17 (0.60-2.3)			
					30+	1.40 (0.77-2.5)			
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Rectum 110 males	Non-smoker	1.00	0.04		
					Smoker <20 cig/day	NA			
					20-29	1.17 (0.60-2.3)			
					30+	1.40 (0.77-2.5)			
Murata M	1989-1997	Hospital based case-control study (Chiba Cancer Center Hospital)	Cases: those who underwent surgery; Controls: outpatients free from cancer	Rectum 110 males	Non-smoker	1.00	0.04		
					Smoker <20 cig/day	NA			
					20-29	1.17 (0.60-2.3)			
					30+	1.40 (0.77-2.5)			
Minami Y	2003	Hospital based case-control study (Miyagi Cancer Center Hospital)	Cases: clinical, cytological and/or histopathological examination; Controls: non-	Colon 184 males	Never	1.00	Adjusted for age, year of survey, alcohol consumption, family history of index cancer in parents and siblings, and occupation	NA	
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	1.13 (0.38-3.38)			
					Current	1.16 (0.60-2.23)			
					Never	1.00			
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	2.12 (0.61-7.34)			
					Current	1.79 (0.82-3.93)			
Minami Y	2003	Hospital based case-control study (Miyagi Cancer Center Hospital)	Cases: clinical, cytological and/or histopathological examination; Controls: non-	Colon 184 males	Never	1.00	Adjusted for age, year of survey, alcohol consumption, family history of index cancer in parents and siblings, and occupation	NA	
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	1.13 (0.38-3.38)			
					Current	1.16 (0.60-2.23)			
					Never	1.00			
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	2.12 (0.61-7.34)			
					Current	1.79 (0.82-3.93)			
Minami Y	2003	Hospital based case-control study (Miyagi Cancer Center Hospital)	Cases: clinical, cytological and/or histopathological examination; Controls: non-	Rectum 104 males	Never	1.00	Adjusted for age, year of survey, alcohol consumption, family history of index cancer in parents and siblings, and occupation	NA	
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	1.13 (0.38-3.38)			
					Current	1.16 (0.60-2.23)			
					Never	1.00			
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	2.12 (0.61-7.34)			
					Current	1.79 (0.82-3.93)			
Minami Y	2003	Hospital based case-control study (Miyagi Cancer Center Hospital)	Cases: clinical, cytological and/or histopathological examination; Controls: non-	Rectum 104 males	Never	1.00	Adjusted for age, year of survey, alcohol consumption, family history of index cancer in parents and siblings, and occupation	NA	
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	1.13 (0.38-3.38)			
					Current	1.16 (0.60-2.23)			
					Never	1.00			
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	2.12 (0.61-7.34)			
					Current	1.79 (0.82-3.93)			
Minami Y	2003	Hospital based case-control study (Miyagi Cancer Center Hospital)	Cases: clinical, cytological and/or histopathological examination; Controls: non-	60 females	Never	1.00	Adjusted for age, year of survey, alcohol consumption, family history of index cancer in parents and siblings, and occupation	NA	
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	1.13 (0.38-3.38)			
					Current	1.16 (0.60-2.23)			
					Never	1.00			
					Past	0.92 (0.59-1.42)			
					Current	0.90 (0.60-1.35)			
					Never	1.00			
					Past	2.12 (0.61-7.34)			
					Current	1.79 (0.82-3.93)			

表E-9 飲酒と大腸がんとの関連に関するコホート研究(エビデンスデータベース)

References Author	Study period		Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
	Year		Number of subjects for	Source of subjects						
Kono S	1987	1965-1983	5,477 males	male physicians	Death Large bowel 39	NA NA NA NA NA	1.00 NA 1.21 (0.54-2.72) 1.09 (0.45-2.68) 1.40 (0.54-3.61)	NA	age, smoking	
Hirayama T	1989	1966-1981	265,118 males and females	6 prefecture	Death Proximal colon ? males Occupational/daily	NA NA	1.00 1.07 (0.85-1.35)		age	
					Non-drinker Infrequent Occupational Daily	NA NA NA NA	1.00 1.02 (n.s.) 1.09 (n.s.) 0.93 (n.s.)	NA		
					Sigmoid colon 43 males Occupational/daily	NA NA	1.00 3.95 (1.98-7.86)			
					Non-drinker Infrequent Occupational Daily	NA NA NA NA	1.00 2.03 (n.s.) 3.83 (p<0.05) 5.42 (p<0.01)	NA		
					Type of drink Non-drinker Sake-drinker Non-drinker Shochu-drinker Non-drinker Beer-drinker	NA NA NA NA NA NA	1.00 4.46 (p<0.05) 1.00 5.90 (p<0.01) 1.00 12.57 (p<0.001)			
					Rectum ? males Infrequent Occupational Daily	NA NA NA NA NA	1.00 0.95 (n.s.) 1.14 (n.s.) 1.39 (n.s.)	NA		

References Author	Study period Year	Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments
		Number of subjects for	Source of subjects residents in						
Shimizu N	2003 1993-2000	29,051	Incidence 108 males	Non-drinker Current -36.7 g/day >36.7	5 NA 45 58	1.00 NA 1.79 (0.71-4.90) 2.67 (1.06-6.76)	0.01	age, body height, body mass index, smoking, and year of education	
			Colon 94 females	Non-drinker Current -3.75 g/day >3.75	34 NA 28 32	1.00 NA 1.07 (0.58-1.96) 1.78 (1.00-3.18)	0.03		
			Rectum 59 males	Non-drinker Current -36.7 g/day >36.7	8 NA 20 31	1.00 NA 0.59 (0.25-1.42) 1.17 (0.50-2.73)	0.06		
			Rectum 41 females	Non-drinker Current -3.75 g/day >3.75	7 NA 15 19	1.00 NA 1.20 (0.44-3.26) 1.80 (0.70-4.62)	0.17		

References Author	Study period		Study population		Category	Number among cases	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments		
	Year	Study period	Number of subjects for	Source of subjects							Event followed	Number of incident cases
Otani T	2003	1990-1999	90,004 (42,540 males, 47,464 females)	JPHC study	Incidence	Colorectal 447 males	Non-drinker Occasional drinker Regular drinker 1-149 g/week 150-299 300+	87 24 NA 83 107 146 62 16 NA 51 71 99 25 8 NA 32 36 47 230 12 17	1.0 0.8 (0.5-1.3) NA 1.1 (0.8-1.5) 1.4 (1.1-1.9) 2.1 (1.6-2.7) 1.0 0.8 (0.4-1.3) NA 1.0 (0.7-1.4) 1.3 (0.9-1.8) 1.9 (1.4-2.7) 1.0 1.0 (0.5-2.3) NA 1.6 (0.9-2.6) 1.7 (1.01-2.8) 2.4 (1.5-4.0) 1.0 0.5 (0.3-0.9) 0.7 (0.4-1.1)	<0.001 among drinkers	age, family history of colorectal cancer, body mass index, smoking, physical exercise, and area	

表E-10 飲酒と大腸がんとの関連に関するケースコントロール研究(エビデンステーブル)

References author	Study time year	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
		Type and source	Definition						Number of cases
Kondo R	1975 1967-1973	Hospital-based (3 hospitals in Nagoya)	Cases: 91% were histologically confirmed; Controls: Inpatients without history of cancer of the digestive organs, oral cavity, pharynx, lung, or larynx, or other diseases of the colorectum	Colon 93 males	406 males*	Sake: less use : daily	1.00	Matched (1:2) for : age (± 5 yrs), sex	* Total number of colorectal cancer cases. Number for each site was not shown.
						Beer: less use : daily	0.69 (n.s.)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : daily	0.49 (<0.05)		
						Sake: less use : 6+/mo	1.00		
						Beer: less use : 6+/mo	1.81 (n.s.)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : daily	0.58 (n.s.)		
						Sake: less use : 6+/mo	1.00		
						Beer: less use : 6+/mo	0.45 (n.s.)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : daily	1.11 (n.s.)		
						Rectum 112 males	406 males*		
Watanabe Y	1984 1977-1983	Hospital-based (5 hospitals in Kyoto, Shiga, Nagoya)	Cases: histologically confirmed cases; Controls: Inpatients without history of cancer or any diseases of	Colon 138 males and females Rectum 65 males and females	138 males and females 65 males and females	Sake: less use : daily	0.71 (n.s.)		
						Beer: less use : daily	1.00		
						Wine: less use : 6+/mo	0.61 (n.s.)		
						Whisky: less use : daily	1.00		
						Sake: less use : 6+/mo	0.93 (n.s.)		
						Beer: less use : 6+/mo	1.00		
						Wine: less use : 6+/mo	0.35 (<0.05)		
						Whisky: less use : daily	1.00		
						Sake: less use : 6+/mo	0.42 (n.s.)		
						Beer: less use : 6+/mo	1.00		
						Wine: less use : 6+/mo	0.67 (n.s.)		
						Whisky: less use : 6+/mo	1.00		
						Rectum 99 females	174 females*	Sake: less use : 6+/mo	1.00
Watanabe Y	1984 1977-1983	Hospital-based (5 hospitals in Kyoto, Shiga, Nagoya)	Cases: histologically confirmed cases; Controls: Inpatients without history of cancer or any diseases of	Colon 138 males and females Rectum 65 males and females	138 males and females 65 males and females	Beer: less use : 6+/mo	0.73 (0.43-1.23)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : 6+/mo	0.86 (0.40-1.85)		
						Sake: less use : 6+/mo	1.00		
						Beer: less use : 6+/mo	0.86 (0.40-1.85)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : 6+/mo	0.86 (0.40-1.85)		
						Sake: less use : 6+/mo	1.00		
						Beer: less use : 6+/mo	0.86 (0.40-1.85)		
						Wine: less use : 6+/mo	1.00		
						Whisky: less use : 6+/mo	0.86 (0.40-1.85)		
						Sake: less use : 6+/mo	1.00		
						Beer: less use : 6+/mo	0.86 (0.40-1.85)		
Wine: less use : 6+/mo	1.00								
Whisky: less use : 6+/mo	0.86 (0.40-1.85)								

References author	Study year	Study time	Study subjects		Category	Relative risk (95%CI or p)	p for trend	Confounding variables considered	Comments	
			Type and source	Definition						Number of cases
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Colon	27 males	111 males*	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum
					Drinker	0.68 (n.s.)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Non-drinker	1.00	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					Sometimes Daily	0.40 (n.s.) 0.77 (n.s.)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Non-drinker	1.00	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					<360 ml/day	0.41 (<0.05)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	360 +	1.25 (n.s.)	360 +	1.25 (n.s.)	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					Non-drinker	1.00				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Rectum	25 males	111 males*	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum
					Drinker	0.60 (n.s.)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Non-drinker	1.00	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					Sometimes Daily	0.85 (n.s.) 0.47 (n.s.)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	Non-drinker	1.00	Non-drinker	1.00	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					<360 ml/day	0.58 (n.s.)				
Tajima K	1985	1981-83	Hospital-based (Aichi Cancer Center)	Case: histologically confirmed cases; Controls: Inpatients without history of cancer	360 +	0.69 (n.s.)	360 +	0.69 (n.s.)	Adjusted for age *Common controls for cases of cancer of the stomach, colon, or rectum	
					Non-drinker	1.00				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Colon	1716 males	16,600 males*	Non-drinker	1.00	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker
					Occasional Daily	1.23 (1.05-1.44) 1.10 (0.97-1.25)				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Sake**	1.00 (0.88-1.13)	Sake**	1.00 (0.88-1.13)	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker	
					Beer**	1.54 (1.32-1.79)				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Whisky**	1.18 (0.85-1.66)	Whisky**	1.18 (0.85-1.66)	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker	
					Non-drinker	1.00				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Proximal colon (n=445)	1.09 (0.83-1.45)	Proximal colon (n=445)	1.09 (0.83-1.45)	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker	
					Occasional Daily	0.80 (0.63-1.02)				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Sake	0.75 (0.59-0.96)	Sake	0.75 (0.59-0.96)	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker	
					Beer	1.49 (1.13-1.95)				
Kato I	1990	1979-1987	Registry based (Aichi Cancer Registry)	Cases: histologically confirmed (90%); Controls: cases with smoking-unrelated cancers	Whisky	1.09 (0.59-2.02)	Whisky	1.09 (0.59-2.02)	Adjusted for age * Patients with smoking-related cancers were excluded; ** compared to non-drinker	
					Non-drinker	1.00				