

S6 Table. Summary of the previous studies on the associations between meat intake and colorectal cancer in Korea

Study	Study design	Study period	Study subjects			No.	No. of cases	No. of controls	Category	RR/OR (95% CIs)	Confounding variables considered
			Type and source	Cancer site	Sex						
Kim JI et al. (2003) [5]	Case-control	Not specified	Hospital based (Ilsan Paik Hospital, Goyang, Korea); 125 cases and 247 controls	Colon	Both sexes		66	159 < 2	1.00	Matched by age (± 5 years) and sex; pair-matched into a 2 to 1 ratio; adjusted for age, sex, drinking habits, smoking and diet habits to control the effect of potential confounding environmental factors.	
							59	88 ≥ 2	1.72 (1.12-2.76)		
Ahn EJ et al. (2006) [6]	Case-control	2003 to 2005	Hospital based (Ewha Womans University Hospital, Seoul, Korea); 113 cases and 110 controls	Colorectum	Both sexes		14	17 None	1.00	Not specified	
							38	38 < 3	1.20 (0.50-2.80)		
							28	20 ≥ 3	1.70 (0.70-4.20)		
Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Proximal colon	Men	401,767 416,245 44,658	222	\leq once a week	1.00	Adjusted for age	
							269	2-3 times/wk	1.30 (1.10-1.50)		
							43	≥ 4 times/wk	1.40 (1.00-1.90)		
Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Distal colon	Men	401,767 416,245 44,658	336	\leq once a week	1.00	Adjusted for age	
							344	2-3 times/wk	1.10 (0.90-1.30)		
							64	≥ 4 times/wk	1.30 (1.00-1.70)		
Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Rectum	Men	401,767 416,245 44,658	705	\leq once a week	1.00	Adjusted for age	
							702	2-3 times/wk	1.00 (0.90-1.20)		
							112	≥ 4 times/wk	1.10 (0.90-1.30)		
Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Proximal colon	Women	229,434 137,308 23,494	133	\leq once a week	1.00	Adjusted for age	
							71	2-3 times/wk	1.00 (0.70-1.30)		
							24	≥ 4 times/wk	1.70 (1.10-2.70)		

Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Distal colon	Women	229,434	125	≤ once a week	1.00	Adjusted for age	
								137,308	78	2-3 times/wk		1.10 (0.90-1.50)
								23,494	16	≥ 4 times/wk		1.30 (0.70-2.10)
Shin A et al. (2011) [10]	Prospective cohort	1996 to 1997; 7 years of follow-up	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea Medical Insurance Corporation; 869,725 men and 395,501 women	Rectum	Women	229,434	303	≤ once a week	1.00	Adjusted for age	
								137,308	194	2-3 times/wk		1.20 (1.00-1.40)
								23,494	44	≥ 4 times/wk		1.40 (1.00-1.90)
Kim J et al. (2011) [29]	Prospective cohort	1996 to 1997	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea Medical Insurance Corporation; 1,420,981 men and 827,148 women	Colorectum	Men	654,332	2,025	≤ once a week	1.00	Adjusted for age, sex, BMI, smoking habits, alcohol consumption, physical activity, and family history of cancer	
								690,795	2,123	2-3 times/wk		1.05 (0.99-1.12)
								75,854	353	≥ 4 times/wk		1.13 (1.02-1.26)
Kim J et al. (2011) [29]	Prospective cohort	1996 to 1997	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea Medical Insurance Corporation; 1,420,981 men and 827,148 women	Colorectum	Women	464,119	1058	≤ once a week	1.00	Adjusted for age, sex, BMI, smoking habits, alcohol consumption, physical activity, and family history of cancer	
								305926	694	2-3 times/wk		1.07 (0.97-1.18)
								57103	191	≥ 4 times/wk		1.42 (1.21-1.66)
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Colorectum	Men	Not specified	Not specified	≤ once a week	1.00	Adjusted for age, height, family history for cancer, BMI, and amount of alcohol consumed.	
										2-3 times/wk		1.04 (0.98-1.09)
										≥ 4 times/wk		1.15 (1.04-1.27)
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Insurance Corporation; 869,725 men and 395,501 women	Population-based cohort; Korea	Colon	Men	Not specified	Not specified	≤ once a week	1.00	Adjusted for age, height, family history for cancer, BMI, and	

			Medical Insurance Corporation; 846,559 men and 479,449 women					2-3 times/wk ≥ 4 times/wk	1.04 (0.97-1.13) 1.17 (1.00-1.35)	amount of alcohol consumed.
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Right colon	Men	Not specified	Not specified	≤ once a week 2-3 times/wk ≥ 4 times/wk	1.00 1.09 (0.97-1.23) 1.23 (0.98-1.55)	Adjusted for age, height, family history for cancer and amount of alcohol consumed.
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Colorectum	Women	Not specified	Not specified	≤ once a week 2-3 times/wk ≥ 4 times/wk	1.00 1.07 (0.99-1.16) 1.29 (1.12-1.49)	Adjusted for age, height, fasting glucose, and family history of cancer
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Colon	Women	Not specified	Not specified	≤ once a week 2-3 times/wk ≥ 4 times/wk	1.00 1.14 (1.01-1.29) 1.26 (1.02-1.56)	Adjusted for age, height, fasting glucose, and family history of cancer
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Left colon	Women	Not specified	Not specified	≤ once a week 2-3 times/wk ≥ 4 times/wk	1.00 1.16 (0.98-1.38) 1.34 (0.99-1.81)	Adjusted for age, height, fasting glucose, and family history of cancer
Shin A et al. (2014) [19]	Prospective cohort	1996 to 1997	Population-based cohort; Korea Medical Insurance Corporation; 846,559 men and 479,449 women	Rectum	Women	Not specified	Not specified	≤ once a week 2-3 times/wk ≥ 4 times/wk	1.00 1.03 (0.91-1.16) 1.39 (1.14-1.70)	Adjusted for age, height, and frequency of alcohol consumption
Wie GA et al. (2014) [24]	Prospective cohort	2004 to 2008	Hospital based (participated in the Cancer	Colorectum	Both sexes	3,128 4,896	22 31	< 43 (g/day) ≥ 43	1.00 1.31 (0.60-2.61)	Adjusted for age, sex, energy intake, BMI, physical activity, smoking, alcohol use, income,

Author(s)	Study Design	Year	Location	Site	Sexes	Number of Cases	Number of Controls	OR (95% CI)	RR (95% CI)	Adjustment Factors
Kim NH et al. (2019) [30]	Case-control	1995 to 2004	Three university hospitals in Seoul, Korea	Colorectum	Both sexes	91	78	< 1	1.00	Adjusted for age (year, continuous), sex (men and women), BMI (kg/m ² , continuous), energy intake (kcal/day, continuous), alcohol intake (g/day, continuous), smoking (pack-years, continuous), use of multivitamins (yes or no), and education level (below high school, high school, and college or above)
						451	310	1-<3	1.29 (0.91-1.84)	
						243	172	3-<5	1.12 (0.76-1.64)	
						186	98	≥ 50.0	1.29 (0.83-2.01)	

BMI, body mass index; CI, confidence interval; OR, odds ratio; RR, relative risk.

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