S5 Table. Summary of the previous studies on the associations between physical activity and colorectal cancer in Korea

| | | | Study subjects | | | | | | | | |
|---|------------------------|---|---|------------|---------------|----------------|----------|-------------------------------------|---|--------------------------------------|--|
| A .1 | Study | G. 1 . 1 | T. 1 | G : | C. | N | No. of | No. of | C . | DD (OD (O50) CL) | Confounding variables |
| Author (year) Kim DH et al. (2002) [27] | design Case-control | Study period 1995 to 1996 | Type and source Hospital-based (two university hospitals | | Sex Men | No. | cases 78 | | Category edentary (TEE 170) | RR/OR (95% CIs) 1.00 | considered ORs were adjusted for age, sex, education level, job activity |
| | | | in Seoul, Korea) | | | | 30 | 22 M 17 | Ioderate (TEE: 70-330) | 1.02 (0.40-2.40) | level, hospital of admission, meat intake, fiber intake, and |
| | | | | | | | 30 | 33 | 30) | 1.20 (0.50-2.40) | total energy intake |
| Kim DH et al. (2002) [27] | Case-control | | Hospital-based (two Colorectum university hospitals in Seoul, Korea) | Colorectum | Women | | 18 | ≤ | edentary (TEE 170) | | ORs were adjusted for age, sex, education level, job activity |
| | | | | | | | 37 | 17 | 19 Moderate (TEE: 1.39 (0.50-3.90) 170-330) | | level, hospital of admission, meat intake, fiber intake, and |
| | | | | G 1 | 3.6 | | 42 | 33 | 30) | 1.42 (0.50-4.10) | total energy intake |
| Kim DH et al. (2002) [27] | Case-control | 1995 to 1996 | Hospital-based (two Colorectu university hospitals in Seoul, Korea) | Colorectum | n Men | | 94 | | PTA (MET: ≥ | 1.00 | ORs were adjusted for age, sex, education level, job activity level, hospital of admission, |
| | | | | | | | 44 | 31 Ever heavy LPTA (MET: ≥ 6) | | 0.65 (0.30-1.30) | meat intake, fiber intake, and total energy intake |
| Kim DH et al. (2002) [27] | Case-control | 1995 to 1996 | Hospital-based (two Couniversity hospitals in Seoul, Korea) | Colorectum | Women | | 71 | 40 N | ever heavy PTA (MET: ≥ | 1.00 | ORs were adjusted for age, sex, education level, job activity level, hospital of admission, |
| | | | | | | | 26 | | ver heavy PTA (MET: ≥ | 1.10 (0.50-2.60) | meat intake, fiber intake, and total energy intake |
| Kim JI et al. (2003) [5] | Case-control | Not specified | (Ilsan Paik Hospital, Goyang, Korea); 125 cases and 247 controls | Colon | Both sexes | | 61 | 104 < | | 1.00 | Matched by age (±5 years) and sex; pair-matched into a 2 to 1 |
| | | | | | | | 64 | 143 ≥ | 4 | 0.76 (0.48-1.20) | ratio; adjusted for age, sex, drinking habits, smoking and diet habits to control the effect of potential confounding environmental factors. |
| Lim HJ et al. (2008) [8] | Prospective cohort | 1993 to 1998; aged 65 years or more; linking data from the Korean Medical | Population-based dynamic cohort (Korea Elderly Phamacepidemilogi c Cohort (KEPEC)); 4,834 men and 9,470 | Colorectum | Both sexes | 5,128 | 41 | | requently | 1.00 | Crude RR |
| | | | | | | 3,047 5,672 | 27 40 | | ometimes arely | 1.08 (0.67-1.76) 0.86 (0.56-1.33) | |

| | | Insurance Corporation (KMIC) until December 31, 2002 | women | | | | | | | |
|-----------------------------|-----------------------|--|---|------------|---------------|--------------------|--------------|----------------------|--------------------------|--|
| Yun YH et al. (2008) [28] | Prospective cohort | 1996 to 2002 | Population-based cohort; Korea Medical Insurance Corporation; 444,963 men | Colorectum | Men | 262,146 184,781 | 1,076 751 | Low Moderate-High | 1.00 0.98 (0.90-1.08) | Adjusted for age, dietary preference, LPA, smoking status, amount of alcohol drinking, body mass index, employment and fasting blood sugar as appropriate. |
| Kim J et al. (2009) [9] | Case-control | 2001 to 2004 | Hospital-based (two university hospitals | | Men | | 242 119 | 164 Low 106 High | 1.00 0.76 (0.55-4.57) | Crude OR; Matched by age |
| Kim J et al. (2009) [9] | Case-control | 2001 to 2004 | in Seoul, Korea) Hospital-based (two university hospitals in Seoul, Korea) | | Women | | 193 42 | 179 Low 60 High | 1.00 0.65 (0.42-3.68) | Crude OR; Matched by age |
| Kim H et al. (2019) [16] | Case-control | 2007 to 2014 | , , | Colorectum | Both sexes | | 790 1,030 | 612 No 310 Yes | 1.00 0.47 (0.38-0.57) | Adjusted for prior BMI, physical activity, smoking, alcohol drinking and dietary inflammatory index |

BMI, body mass index; CI, confidence interval; LPA, light physical activity; LPTA, leisure time physical activity; OR, odds ratio; RR, relative risk; TEE, total energy expenditure.