

Shift work and colorectal cancer risk in the MCC-Spain case-control study ¹
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1 *Supplementary table*

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Table A. The five most frequent occupational sectors that include permanent night and rotating shift work based on the 2-digit International Standard Classification of Occupations (ISCO-88)^a

Occupational sector	Jobs with permanent		Jobs with rotating	
	night shift work		shift work	
	(N=530)		(N=1751)	
	N	%	N	%
Restaurant services	105	20.2	88	4.8
Driving vehicles for public transportation or trucks	51	9.8	128	6.9
Food, drink or tobacco industry	48	9.2	17	0.9
Fixed machine operation	37	7.1	147	8.0
Personal service workers	26	5.0	113	6.1

^aTable based on number of jobs; subjects may have more than one night job

Table B. Age of first of first shift work and years since quitting shift work in quartiles and colorectal cancer risk in MCC-Spain study (OR=odds ratio, 95%CI=95% confidence interval).

	Controls		Cases		OR	(95% CI) ^a	OR	(95% CI) ^b
	N	%	N	%				
Never shift work	2432	89.5	1071	89.3	1.00		1.00	
Age at first rotating shift work								
Q1: ≤19 yrs	105	3.7	92	6.9	1.53	1.13-2.07	1.48	1.08-2.03
Q2: 20-23 yrs	116	4.0	56	4.2	1.09	0.77-1.53	0.98	0.69-1.39
Q3: 24-29 yrs	102	3.6	60	4.5	1.20	0.85-1.69	1.14	0.79-1.64
Q4: ≥30 yrs	120	4.2	57	4.3	0.91	0.65-1.27	0.87	0.61-1.23
<i>p-trend</i>					0.905		0.653	
Age at first permanent night work								
Q1: ≤17 yrs	65	2.4	31	2.6	0.76	0.48-1.19	0.76	0.48-1.20
Q2: 18-22 yrs	74	2.7	31	2.6	0.78	0.50-1.22	0.79	0.50-1.24
Q3: 23-32 yrs	74	2.7	38	3.2	0.96	0.64-1.46	0.93	0.60-1.43
Q4: ≥33 yrs	73	2.7	28	2.3	0.71	0.45-1.13	0.66	0.41-1.07
<i>p-trend</i>					0.140		0.086	
Years since last rotating night work								
Q1: ≤8 yrs	86	3.1	41	3.2	1.00	0.67-1.48	1.01	0.67-1.52
Q2: 9-18 yrs	94	3.4	68	5.3	1.33	0.95-1.87	1.14	0.80-1.62
Q3: 19-34 yrs	91	3.3	53	4.1	1.04	0.72-1.49	0.96	0.65-1.40
Q4: ≥35 yrs	95	3.4	63	4.9	1.14	0.81-1.60	1.06	0.75-1.51
<i>p-trend</i>					0.346		0.769	
Years since last permanent night work								
Q1: ≤9 yrs	59	2.2	29	2.4	0.98	0.61-1.57	0.98	0.61-1.59
Q2: 10-18 yrs	59	2.2	26	2.2	0.80	0.49-1.30	0.77	0.47-1.28
Q3: 19-36 yrs	64	2.4	35	2.9	0.93	0.60-1.43	0.87	0.56-1.36
Q4: ≥37 yrs	63	2.4	26	2.2	0.62	0.39-1.00	0.60	0.37-0.99
<i>p-trend</i>					0.047		0.031	

^aOR adjusted for age, centre, educational level (less than primary, primary, high school, university) and sex

^bOR adjusted for age (continuous), centre, educational level (less than primary, primary, high school, university), sex (female, male), history of colorectal cancer in first degree relatives (yes/no), body mass index (<22.5, 22.5-24.9, 25-29.9, ≥30), smoking status (ever, never), leisure time physical activity (inactive, little active, moderately active, very active), past alcohol consumption (quartiles), total energy intake in grams/day (quartiles), all red meat consumption in grams/day (quartiles), sleep duration in hours/day (<6, 6, 7, 8, >8), bisphosphonates (yes, no), non-steroid nnti-inflammatory drug use (yes, no)

[†]Two-sided p value (Wald test) across quartiles of exposure in subjects with rotating shift work history

