Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)


Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)
$\left.\left.\begin{array}{llllll}\hline \begin{array}{l}\text { Reference, location } \\ \text { enrolment/follow- } \\ \text { up period, study } \\ \text { design }\end{array} & \begin{array}{l}\text { Population size, } \\ \text { description, exposure } \\ \text { assessment method }\end{array} & \text { Organ site } & \begin{array}{l}\text { Exposure } \\ \text { category or level }\end{array} & \begin{array}{l}\text { Exposed } \\ \text { cases/deaths }\end{array} & \begin{array}{l}\text { Risk estimate } \\ \text { (95\% CI) }\end{array} \\ \hline & \text { Colon \& rectum } & \text { All coffee (cups/day) } & \begin{array}{l}\text { Covariates } \\ \text { controlled }\end{array} \\ \text { comments }\end{array}\right] \begin{array}{l}\text { Age, study year, } \\ \text { education, cigarette } \\ \text { smoking, alcohol } \\ \text { consumption, leisure } \\ \text { time physical } \\ \text { activity, history of } \\ \text { diabetes, tea } \\ \text { consumption, and } \\ \text { body mass index, sex }\end{array}\right]$

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location <br> enroment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Colon | All coffee (cups/day) | Covariates <br> controlled | Comments |  |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location <br> enroment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Rectum | All coffee (cups/day) | Covariates <br> controlled | Comments |  |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)


Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location <br> enrolment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Colon | All coffee (cups/day) | Covariates <br> controlled |  |  |
| Coments |  |  |  |  |  |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)
$\left.\begin{array}{lllllll}\hline \begin{array}{l}\text { Reference, location } \\ \text { enrolment/follow- } \\ \text { up period, study } \\ \text { design }\end{array} & \begin{array}{l}\text { Population size, } \\ \text { description, exposure } \\ \text { assessment method }\end{array} & \text { Organ site } & \begin{array}{l}\text { Exposure } \\ \text { category or level }\end{array} & \begin{array}{l}\text { Exposed } \\ \text { cases/deaths }\end{array} & \begin{array}{l}\text { Risk estimate } \\ \text { (95\% CI) }\end{array} & \begin{array}{l}\text { Covariates } \\ \text { controlled }\end{array} \\ \hline & & 1 & 13 & 0.88(0.48-1.59) & \begin{array}{l}\text { walking time, and } \\ \text { regular meat }\end{array} \\ \text { consumption, and } \\ \text { district }\end{array}\right]$

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)


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$\left.\left.\begin{array}{llllll}\hline \begin{array}{l}\text { Reference, location } \\ \text { enrolment/follow- } \\ \text { up period, study } \\ \text { design }\end{array} & \begin{array}{l}\text { Population size, } \\ \text { description, exposure } \\ \text { assessment method }\end{array} & \text { Organ site } & \begin{array}{l}\text { Exposure } \\ \text { category or level }\end{array} & \begin{array}{l}\text { Exposed } \\ \text { cases/deaths }\end{array} & \begin{array}{l}\text { Risk estimate } \\ \text { (95\% CI) }\end{array} \\ \hline & \text { Colon } & \text { All coffee (cups/day) } & \begin{array}{l}\text { Covariates } \\ \text { controlled }\end{array} \\ \text { Comments }\end{array}\right] \begin{array}{l}\text { Age, drinking, family } \\ \text { history of colorectal } \\ \text { cancer, education, } \\ \text { body mass index, } \\ \text { walking time, and } \\ \text { regular meat } \\ \text { consumption }\end{array}\right]$

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Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location enrolment/followup period, study design | Population size, description, exposure assessment method | Organ site | $\begin{array}{ll}\text { Exposure } \\ \text { category or level } & \begin{array}{l}\text { Exposed } \\ \text { cases/deaths }\end{array}\end{array}$ | $\begin{aligned} & \text { Risk estimate } \\ & \text { (95\% CI) } \end{aligned}$ | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Phillips \& Snowdon <br> (1985) <br> USA <br> Enrolment, 1960; <br> FU 21 years <br> Cohort | 25 493; white men and women California Seventh-Day Adventists aged $\geq 30$ years at baseline Exposure assessment method: Questionnaire | Colon \& rectum | All coffee (cups/day) | $\begin{aligned} & 1.5(0.9-2.3) \\ & 1.5(1-2.2) \end{aligned}$ | Age, sex | Strengths: unique characteristics of the Adventist population; linkage with registries; FFQ used by the American Cancer Society. Limitations: all the dietary data come from a 1960 selfadministered questionnaire; limited accuracy of the underlying cause of death as recorded on death certificates; inferences with regard to risk of CRC; no adjustment for confounders; possibility that subjects may have substantially changed their dietary habits or weigh during long follow-up period Strengths: unique characteristics of the Adventist population. Limitations: all the dietary data come from a 1960 selfadministered questionnaire; limited accuracy of the underlying cause of death as recorded on death certificates; inferences with regard to risk of CRC; possibility that subjects may have substantially changed their dietary habits or weigh during long follow-up period |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Reference, location enrolment/followup period, study design \& Population size, description, exposure assessment method \& Organ site \& Exposure category or level \& Exposed cases/deaths \& Risk estimate
(95\% CI) \& Covariates controlled \& Comments \\
\hline \begin{tabular}{l}
Hartman et al. \\
(1998) \\
Finland \\
Enrolment 1985- \\
1988; Median FU \\
8 years \\
Cohort
\end{tabular} \& \begin{tabular}{l}
27111 subjects; male smokers aged 50 and 69 years; men who were alcoholics, who had cirrhosis of the liver, severe angina with exertion, or chronic renal insufficiency, who had been previously diagnosed with cancer, or who had been taking supplements of vitamin E or A or \(\beta\)-carotene in excess of defined amounts or receiving anticoagulant therapy were excluded. \\
Exposure assessment method: \\
Questionnaire
\end{tabular} \& Colon

Rectum \& \begin{tabular}{l}
All coffee (cups \\
$\leq 4$ \\
$>4$ \\
$>6$ \\
Trend-test p-val \\
All coffee (cups \\
$\leq 4$ \\
$>4$ \\
$>6$ \\
Trend-test p-val

 \& 

51 \\
31 \\
24 \\
0.11 \\
y) \\
33 \\
29 \\
17 \\
0.44

\end{tabular} \& \[

$$
\begin{aligned}
& 1 \\
& 0.73(0.47-1.16) \\
& 0.69(0.42-1.13) \\
& 1 \\
& 1.05(0.63-1.75) \\
& 0.77(0.43-1.4)
\end{aligned}
$$

\] \& | Age, intervention group, calcium, occupational physical activity, BMI |
| :--- |
| Age, intervention group, calcium, occupational physical activity, BMI, cholesterol | \& Strengths: all important available measured as confounders Limitations: the distribution and levels of intake of coffee were very different from each other; inability to use nondrinkers of coffee as the referent group; not ruled out the possibility that residual confounding contributed to the results \\


\hline | Naganuma et al. |
| :--- |
| (2007) |
| Japan |
| Enrolment from |
| 1990; FU 11.6 years |
| Cohort | \& | $38701 ; 18867$ men and 19834 women aged 40-64 years at the baseline with no previous history of cancer |
| :--- |
| Exposure assessment method: |
| Questionnaire | \& Colon \& r \& | All coffee |
| :--- |
| Never |
| Occasionally |
| 1-2 cups/day |
| $\geq 3$ cups/day |
| Trend-test p-valu | \& \[

$$
\begin{aligned}
& 93 \\
& 195 \\
& 123 \\
& 46 \\
& : 0.55
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& 1 \\
& 1.14(0.87-1.46) \\
& 0.98(0.74-1.32) \\
& 0.95(0.65-1.39)
\end{aligned}
$$
\] \& Age, sex, family history of colorectal cancer, education level, BMI, walking time, smoking, alcohol drinking, tea consumption, consumption of meat, vegetables, fruits, total caloric intake \& Strengths: population based design; large number of cases; long follow-up period; high validity and reproducibility of coffee consumption assessment Limitations: collection of coffee consumption data only once before follow-up period; no information on type of coffee consumed (filtered/boiled, caffeinated/decaffeinated) \\

\hline
\end{tabular}

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location enrolment/followup period, study design | Population size, description, exposure assessment method | Organ site | Exposure Exposed category or level cases/deaths | Risk estimate $(95 \% \mathrm{CI})$ | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dominianni et al. <br> (2013) <br> Muticenters <br> (England \& USA) <br> 1993-2001, median <br> follow up of <br> 11.4 years <br> Cohort | 57 398; men and women aged 55-74 years in the National Cancer InstituteProstate, Lung, Colorectal and Ovarian (PLCO) cancer screening trial enrolled from 10 centres (England and the United States) <br> Exposure assessment method: Questionnaire | Colon \& rectum | All coffee (cups/day)  <br> None 73 <br> $<1$ 138 <br> 1 147 <br> $2-3$ 207 <br> $\geq 4$ 116 <br> Trend-test p-value: 0.229  | $\begin{aligned} & 1 \\ & 0.94(0.7-1.25) \\ & 0.94(0.7-1.26) \\ & 1.03(0.77-1.37) \\ & 1.08(0.79-1.48) \end{aligned}$ | Age, BMI, smoking, sex, race, family history of colorectal cancer, education, physical activity, NSAID intake, history of diabetes, number of colorectal examinations up to 3 years before the start of study, hormone use (among women), fruit intake (servings per day), vegetable intake (servings per day), meat intake (g per day), alcohol intake ( g per day) and study centre | Strengths: collection of diet and demographic information before diagnosis of cancer; collection of extensive baseline and diet intake information allowing for appropriate control of confounders. <br> The majority of the cohort (83.3\%) has complete sigmoidoscopy at baseline, so all participants had an equal opportunity to be screened, unlike any screening-related biases. Limitations: Conducted in the screening arm of a randomized controlled trial of CRC screening, results may not be generalizable to all cases; Inherent limitation of dietary questionnaires; Limited power to detect an association in specific subgroups, such as by location (proximal, distal or rectal) or coffee type (caffeinated vs decaffeinated) |

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| Reference, location enrolment/followup period, study design | Population size, description, exposure assessment method | Organ site | Exposure category or level | Exposed cases/deaths | Risk estimate $(95 \% \text { CI) }$ | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dik et al. (2014) <br> EPIC <br> Enrollment 1992 <br> 2000; median FU <br> 11.6 years <br> Cohort | 521, 448; men (29.8\%) and women ( $70 \%$ ) aged between 25 and 70 years without any type of prevalent cancer at enrolment, carcinoma in situ, unknown histology of the tumour, unknown first incidence tumour or a colorectal tumour originating from other organs, within 23 centres in 10 different European countries Exposure assessment method: Questionnaire | Colon \& rectum | All coffee <br> Non/low <br> Moderately low <br> Moderate <br> Moderately high <br> High <br> Per $100 \mathrm{ml} /$ day <br> Trend-test p-valu | $\begin{aligned} & 914 \\ & 761 \\ & 694 \\ & 863 \\ & 1002 \\ & \text { NR } \\ & : 0.58 \end{aligned}$ | $\begin{aligned} & 1.04(0.94-1.15) \\ & 1.06(0.95-1.19) \\ & 0.99(0.89-1.1) \\ & 1.06(0.95-1.18) \\ & 1.01(0.99-1.02) \end{aligned}$ | BMI, diabetes, menopausal status, hormone replacement therapy, physical activity, education level, smoking, baseline intake of energy from fat, energy from non-fat, alcohol, fibres, dairy products, red meat, processed meat | Prospective cohort studies have found no significant associations with either proximal colon, distal colon or rectal cancer. Strengths: prospective population-based design; multiple populations; considerable follow up; large number of participants and cases; performing analyses by anatomical subsite studying differences between caffeinated and decaffeinated coffee <br> Limitations: the self-reported consumption; single assessment; absence of data on brewing methods, cup size and levels of caffeine, cafestol, kahweol and antioxidants |
| Larsson et al. (2006) Sweden Enrolment 19871990; Follow up to 2004 <br> Cohort | 106739 (pooled two cohorts); 61433 women aged 40-76 years (Swedish Mammography Cohort) and 45306 men aged 45-79 years (Cohort of Swedish Men), excluded subjects who diagnosed with cancer | Colon \& rectum | All coffee (cups/ $<1$ <br> 1 $2-3$ $\geq 4$ | 103 <br> 213 <br> 701 <br> 262 | $\begin{aligned} & 1 \\ & 1.26(0.99-1.6) \\ & 1.19(0.96-1.47) \\ & 1.14(0.9-1.44) \end{aligned}$ | Age, education, BMI, family history of colorectal cancer, history of diabetes, smoking, physical activity, aspirin use, multivitamin supplement, daily intake of calories, fruit, vegetables, | Approximately $15 \%$ of population consumed boiled coffee only or both boiled and filtered coffee. Decaffeinated coffee is very uncommon in Sweden. Strengths: two large population-based cohorts Prospective design eliminated recall bias |

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| Reference, location enrolment/followup period, study design | Population size, description, exposure assessment method | Organ site | Exposure category or level | Exposed cases/deaths | Risk estimate (95\% CI) | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (except nonmelanoma skin cancer) before baseline Exposure assessment method: <br> Questionnaire |  | One additional cup/day | 1279 | 1 (0.97-1.04) | milk, and red meat, postmenopausal hormone form women | Large number of cases of CRC <br> Information on many potential risk factors for CRC <br> The use of data from two completely separate cohorts Completeness of follow-up Limitations: self-reported coffee consumption No data on type of coffee |
| Michels et al. (2005) <br> USA <br> Enrolment from 1980 (NHS), from 1986 (HPFS); <br> Follow up to 1998 Cohort | 133893 (pooled two cohorts); 87794 women aged $30-55$ years at enrolment [Nurses' Health Study (NHS)] and 46099 men aged 40-75 at enrolment [Health Professionals' Follow-up Study (HPFS)], excluded subjects who diagnosed with Crohn disease, ulcerative colitis, or cancers other than nonmelanoma skin cancer at baseline Exposure assessment method: Questionnaire | Colon \& rectum | Caffeinated coffee Total subjects | (cups/day) 1431 |  | Age, family history of cancer, history of sigmoidoscopy, height, BMI, smoking pack-years, | Strengths: large sample size, repeated measurements of diet over time, adjustment for screening history Limitations: - |
|  |  |  | Never |  |  | physical activity, |  |
|  |  |  | 0.5 | 243 | 1.05 (0.88-1.26) | aspirin use, vitamin supplements, alcohol |  |
|  |  |  |  | 228 | 0.99 (0.82-1.18) | consumption, red meat intake, total calorie intake, |  |
|  |  |  | 2-3 | 497 | 1.02 (0.87-1.19) | menopause, postmenopausal |  |
|  |  |  |  | 164 | 0.98 (0.8-1.21) | hormone use |  |
|  |  |  | $>5$ | 40 | 0.98 (0.69-1.38) |  |  |
|  |  |  | 1 additional cup/day | 1431 | 0.99 (0.96-1.03) |  |  |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)


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| Reference, location <br> enrolment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | Covariates <br> controlled |  |  |  |

Table 2.22 Cohort studies on cancer of the colorectum and coffee drinking (web only)

| Reference, location <br> enrolment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | Covariates <br> controlled |  |  |  |

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| Reference, location <br> enrolment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths | Risk estimate <br> (95\% CI) |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Colon | Covariates <br> controlled |  |  |  |

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| Reference, location <br> enrolment/follow- <br> up period, study <br> design | Population size, <br> description, exposure <br> assessment method | Organ site | Exposure <br> category or level | Exposed <br> cases/deaths |
| :--- | :--- | :--- | :--- | :--- |

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| Reference, location enrolment/followup period, study design | Population size, description, exposure assessment method | Organ site | Exposure Exposed category or level cases/deaths | Risk estimate (95\% CI) | Covariates controlled | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lukic et al. (2016) <br> Norway <br> Enrolment 1996- <br> 2004; FU 6-8 years <br> Cohort | 91767 ; women aged 30-70 at the baseline excluding subjects with prevalent cancer other than non-melanoma skin cancer at baseline Exposure assessment method: Questionnaire | Colon \& rectum | All coffee (cups/day) <br> Light consumers, 224 <br> $\leq 1$ <br> Low moderate consumers, more than 1 up to 3 <br> High moderate consumers, more than 3 up to 7 <br> Heavy consumers, > 7 <br> Trend-test p-value: 0.1 | $0.95(0.81-1.11)$ $0.83(0.7-0.98)$ $0.98(0.72-1.32)$ | Smoking status, age at smoking initiation, number of pack-years smoked, duration of education, physical activity level, use of oral contraceptives, and total energy intake | The interaction between coffee consumption and smoking status for colorectal cancer risk was also tested, but no interaction (data not shown) <br> Strengths: prospective design; relatively large sample size; sampling from general population; validated FFQ; repeated measurements of coffee consumption and smoking exposure <br> Limitations: no information on type of coffee; not excluded the effect of residual confounding; selfreported coffee consumption data with misclassification bias |

CI, confidence interval; CRC, colorectal cancer; FU, follow-up; NR, not reported

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