Supplemental material

											NOS total
				Size of		Exposure	Definition of				quality score;
		Study	Age at	cohort/	No. of	assessment	coffee		Follow-		Risk of bias
Study	Country	period	baseline	controls	cases	methods	consumption	Outcome	up time	Confounder adjustments	(Potential bias)
Ong et al.	UK	2006-2010	37-73	131834	7532	Self-reported	1 cup/day	Total	<5 years	Age, townsend deprivation index,	7 stars; low risk
2019			years			diet survey	increase; no	prostate		top 10 ancestral principal	of bias (exposure
							information on the	cancer		components, smoking status,	misclassification
							highest and lowest			BMI, height, alcohol intake, drink	bias)
							coffee intakes			temperature, overall heath rating,	
										highest qualification. Instrumental	
										variable analyses (SNP	
										instruments) were also used to	
										control confounders	
Sen et al.	Europe	1990s-2015	Mean:	142196	7036	Validated	The highest	Total,	Mean: 14	Stratified by center and age at	9 stars; low risk
2019			52			FFQ	intake: median of	Localized,	years	recruitment in 5 years categories,	of bias
			years.				855 ml/day (no. of	advanced		and adjusted for smoking status,	
							cases: 1271);	prostate		BMI, history of diabetes, alcohol	
							The lowest intake:	cancer		intake, education, physical	
							median of 0			activity, energy intake, as well as	
							ml/day (no. of			calcium, fish, tea, fruit and	
							cases: 396)			vegetable intake.	
Pounis et al	Italy	2005-2010	≥50	6989	100	Validated	The highest	Total	Mean:	Age, energy intake, smoking	8 stars; low risk
2017			years;			FFQ	intake: >3	prostate	4.24 years	habits and BMI	of bias
							cups/day (>90	cancer			

			Mean:				g/day) (no. of				
			67 years				cases: 14);				
							The lowest intake:				
							0-2 cups/day (0-				
							55 g/day) (no. of				
							cases: 45)				
Hashibe et	USA	1992-2011	55-74	46771	3037	Validated diet	Mean coffee	Total	>10 years	Age, sex, race, and education.	8 stars; low risk
al. 2015			years			history	intake is 1.9	prostate			of bias
						questonnaire	cups/day;	cancer			(confounding
							The highest				bias)
							intake: ≥2				
							cups/day (no. of				
							cases: 1731);				
							The lowest intake:				
							<1 cups/day (no.				
							of cases: 889)				
Tverdal et	Norway	1974-1999	20-69	224234	5740	Questionnaire	The highest	Total	Mean:	Age, smoking, BMI, height,	8 stars; low risk
al. 2015			years				intake: ≥9	prostate	17.6 years	physical activity, total cholesterol,	of bias (exposure
							cups/day (no. of	cancer		triglycerides, systolic blood	misclassification
							cases: 642);			pressure, year of examination and	bias)
							The lowest intake:			diabetes	
							none (no. of				
							cases: 389)				
Li et al.	Japan	1995-2005	40-79	18,853	318	Validated	The highest	Total	11 years	Age, education, BMI, time	8 stars; low risk
2013			years			FFQ	intake: ≥3	prostate		engaging in sports or exercise,	of bias
										marital status, time spent walking,	

Supplemental material

							cups/day (no. of	cancer		smoking status, family history of	
							cases: 24);	incidence		cancer, job status, total energy	
							The lowest intake:			intake, passive smoking, alcohol	
							none (no. of			drinking, daily consumption of	
							cases: 84)			miso soup	
Discacciati	Sweden	1998-2010	45-79	44,613	3801	Validated	The highest	Localized	13 years	Age, tea, alcohol, BMI, diabetes,	8 stars; low risk
et al. 2013			years			self-	intake: ≥6	and		family history of prostate cancer,	of bias
						administered	cups/day (median	advanced		smoke, physical activity,	
						FFQ	of 1484 g/day)	prostate		education, total energy intake.	
							(no. of cases:	cancer			
							173);	incidence			
							The lowest intake:	Prostate			
							none (median: 0	cancer			
							g/day) (no. of	mortality			
							cases: 129)				
Bosire et al.	USA	1995-2008	50-71	288,391	23335	Validated	The highest	Total	>11 years	Age, race, height, BMI, physical	8 stars; low risk
2013			years			FFQ	intake: ≥6	prostate	(median:	activity, smoking, history of	of bias
							cups/day (no. of	cancer	10.5	diabetes, family history of	
							cases: 787);	incidence	years)	prostate cancer, PSA testing,	
							The lowest intake:			intakes of tomato sauce, alpha-	
							none (no. of			linolenic acid, and total energy	
							cases: 2136)			intake.	
Shafique et	UK	1970-2007	21-75	6017	318	Self-	The highest	Total	37 years	Age at screening, cholesterol,	8 stars; low risk
al. 2012			years			administered	intake: ≥3	prostate	(median:	systolic blood pressure, BMI,	of bias (exposure
			(median			questionnaire	cups/day (no. of	cancer	28 years)	alcohol intake, tea consumption,	misclassification
							cases: 65);	incidence		smoking status, social class.	bias)

			: 48				The lowest intake:				
			years)				none (no. of				
							cases: 139)				
Wilson et al. 2011	USA	1986-2006	40-75 years	47,911	5035	Validated FFQ	The highest intake: ≥6 cups/day (no. of cases: 152); The lowest intake: none (no. of cases: 587)	Total prostate cancer incidence	20 years	Age in months, calendar time, race, BMI at age 21, current BMI, vigorous physical activity, smoking, diabetes, family history of prostate cancer in father or brother, multivitamin use, intakes of processed meat, tomato sauce, calcium, alpha-linolenic acid, supplemental vitamin E, alcohol intake, energy intake, history of	9 stars; low risk of bias
NT'I	0 1	1005 2007	40.60	20.020	(52	37 11 1 4 1	771 1:1 4	TF 4 1	15	PSA testing.	0 4 1 11
Nilsson et al. 2010	Sweden	1985-2007	40-60 years (median : 50 years)	30,930	653	Validated Semi- quantitative FFQ	The highest intake: ≥4 cups/day (no. of cases: 209); The lowest intake: <1 cup/day (no. of cases: 60)	Total prostate cancer incidence	15 years (median: 6 years)	Age, BMI, smoking, education, recreational physical activity.	8 stars; low risk of bias
Iso et al. 2007	Japan	1988-1997	40-79 years	43,500	161	Self- administrated questionnaire	The highest intake: ≥2 cups/day (no. of cases: 38);	Prostate cancer mortality	Mean: 8.15 years	Age, area of study	7 stars; low risk of bias (exposure misclassification bias, confounding bias)

Supplemental material

							cases: 146);	incidence			bias)
						interview	cups/week (no. of	cancer			(confounding
al. 1989			years			diet recall	intake: ≥5	prostate	17.4 years		of bias
Severson et	USA	1965-1986	46-68	7998	174	FFQ + 24-h	The highest	Total	Mean:	Age	7 stars; low risk
			years)				<3 cups/day.				bias)
			: 51				The lowest intake:		years)		bias, confounding
			(Median				cups/day;	mortality	15.6		misclassification
1990			years				intake: ≥5	cancer	(Mean:		of bias (exposure
Hsing et al.	USA	1966-1986	≥35	17,633	149	FFQ	The highest	Prostate	20 years	Age, tobacco use.	7 stars; low risk
											bias)
							none.				bias, confounding
						questionnaire	The lowest intake:	incidence			misclassification
al. 1994						life-style	cups/day;	cancer			(exposure
Marchand et			years			administered	intake: ≥2.5	prostate	years		risk of bias
Le	USA	1975-1989	≥45	20,316	198	Self-	The highest	Total	Median: 6	Age, ethnicity, income.	6 stars; medium
							cases: 23)				
							0 mg/day (no. of				bias)
							The lowest intake:				bias, confounding
							cases: 122);	incidence			misclassification
			•				mg/day (no. of	cancer	·		(exposure
2000			years				intake: ≥750	prostate	11.6 year		risk of bias
Ellison et al.	Canada	1970-1993	50-84	3400	145	FFQ	The highest	Total	Mean:	Age, wine consumption.	6 stars; medium
							(no. of cases: 47)				
							≤1-2 cup/month				
							The lowest intake:				

The lowest intake:

<1 cups/week (no.

of cases: 22)

BMI, body mass index; CI, confidence interval; FFQ, food frequency questionnaire; NA, not available; PSA, prostate-specific antigen; RR, relative risk;