

SUPPLEMENTARY DATA

Supplementary Figure 1 and 2.

Association of smoking status and risk of type 2 diabetes for men with never smokers as the reference group.

Country-specific Hazard Ratios (HRs) (95% confidence intervals) were derived from modified Cox proportional hazard regression and were pooled using a random effects meta-analysis.

eFigure 1: Model 2: HRs adjusted for age, educational level, centre, physical activity, consumption of alcohol, coffee and meat.

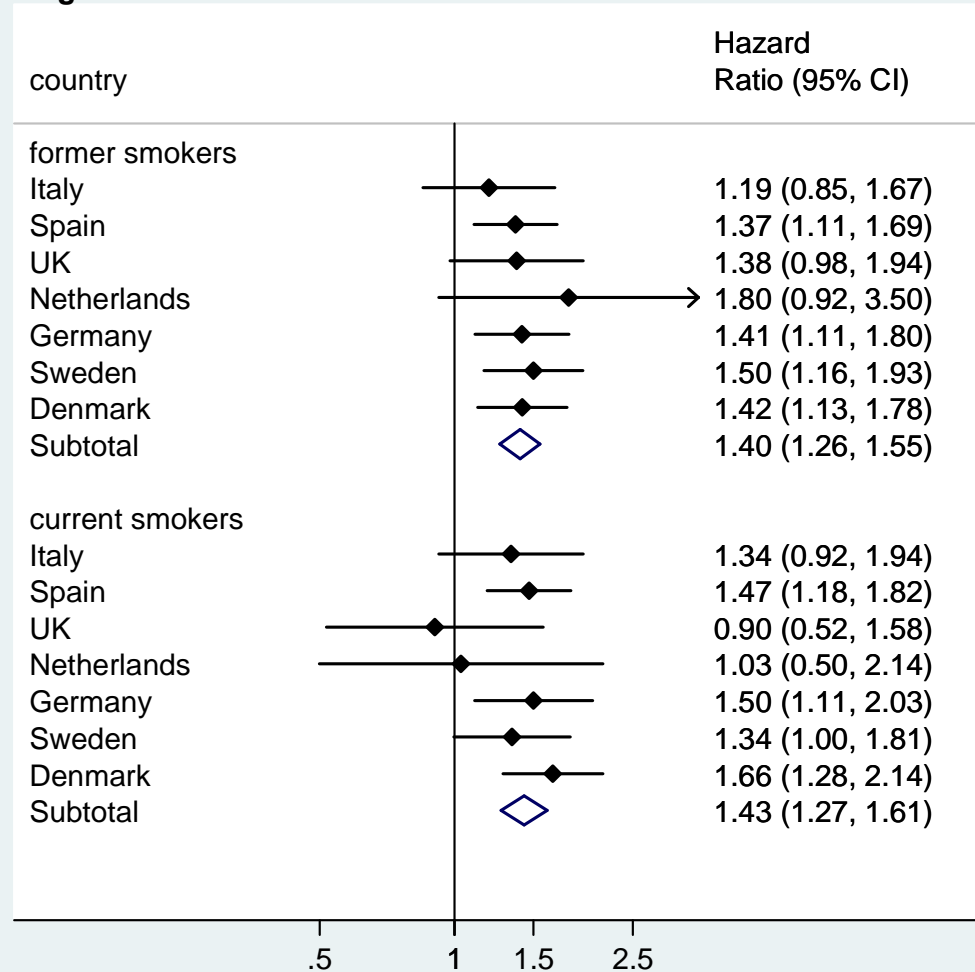
Heterogeneity former smokers, $I^2 = 0.0\%$
Heterogeneity current smokers, $I^2 = 0.0\%$

eFigure 2: Model 4: HRs adjusted for age, educational level, centre, physical activity, consumption of alcohol, coffee and meat and BMI.

Heterogeneity former smokers, $I^2 = 0.0\%$
Heterogeneity current smokers, $I^2 = 7.1\%$

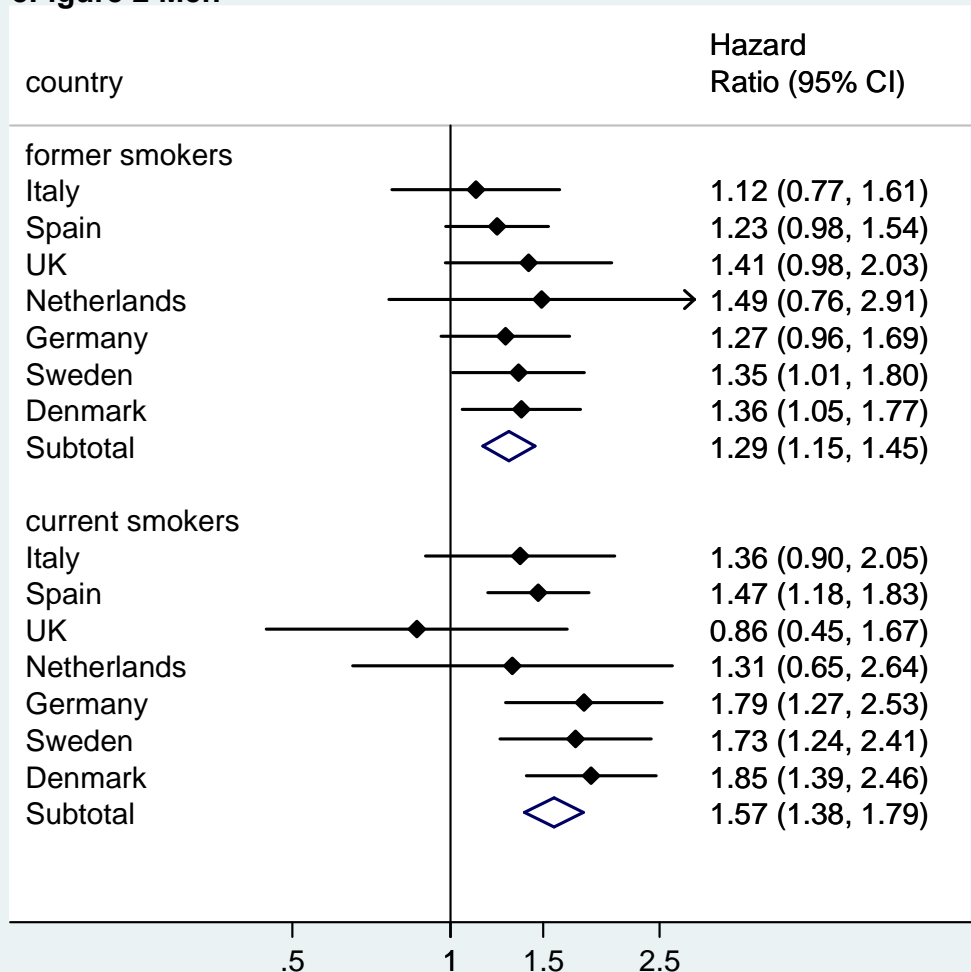
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eFigure 1 Men



SUPPLEMENTARY DATA

eFigure 2 Men



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Supplementary Figure 3 and 4.

Association of smoking status and risk of type 2 diabetes for women with never smokers as the reference group.

Country-specific Hazard Ratios (HRs) (95% confidence intervals) were derived from modified Cox proportional hazard regression and were pooled using a random effects meta-analysis.

eFigure 3: Model 2: HRs adjusted for age, educational level, centre, physical activity, consumption of alcohol, coffee and meat.

Heterogeneity former smokers, $I^2=60.1\%$

Heterogeneity current smokers, $I^2=0.0\%$

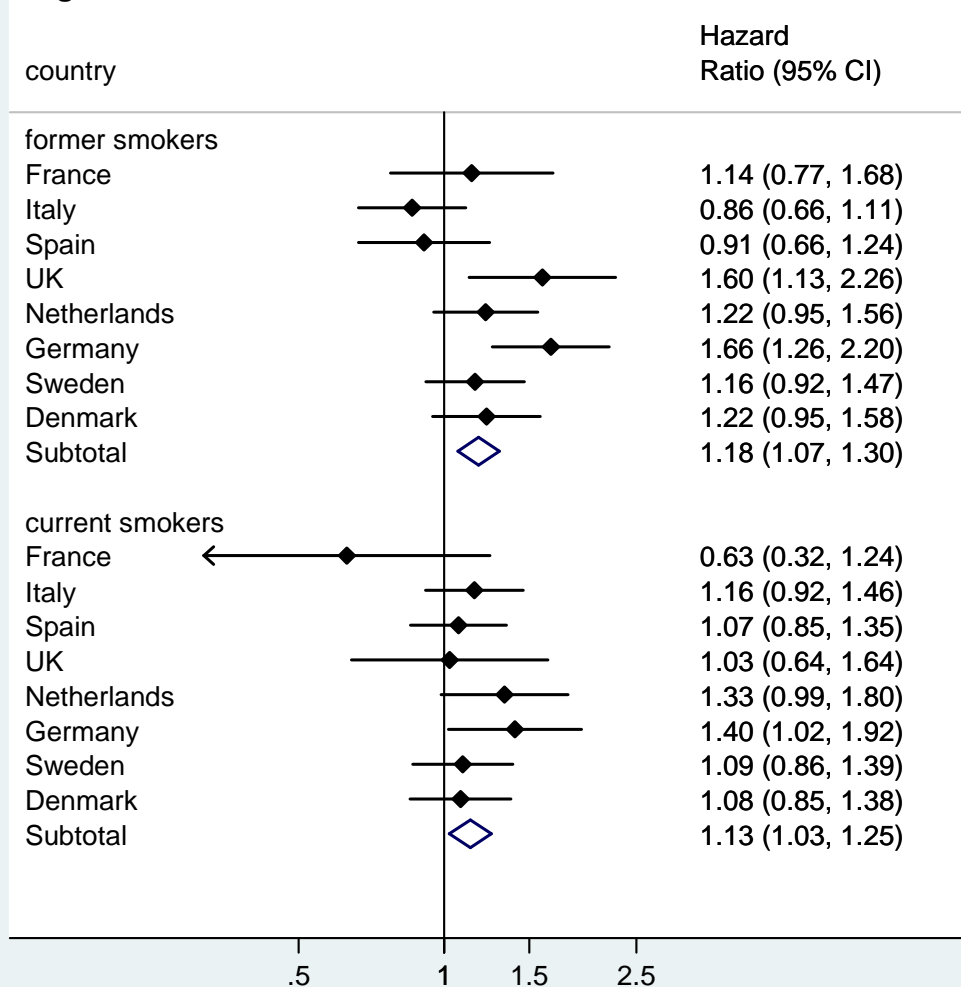
eFigure 4: Model 4: HRs adjusted for age, educational level, centre, physical activity, consumption of alcohol, coffee and meat and BMI.

Heterogeneity former smokers, $I^2=29.9\%$

Heterogeneity current smokers, $I^2=0.0\%$

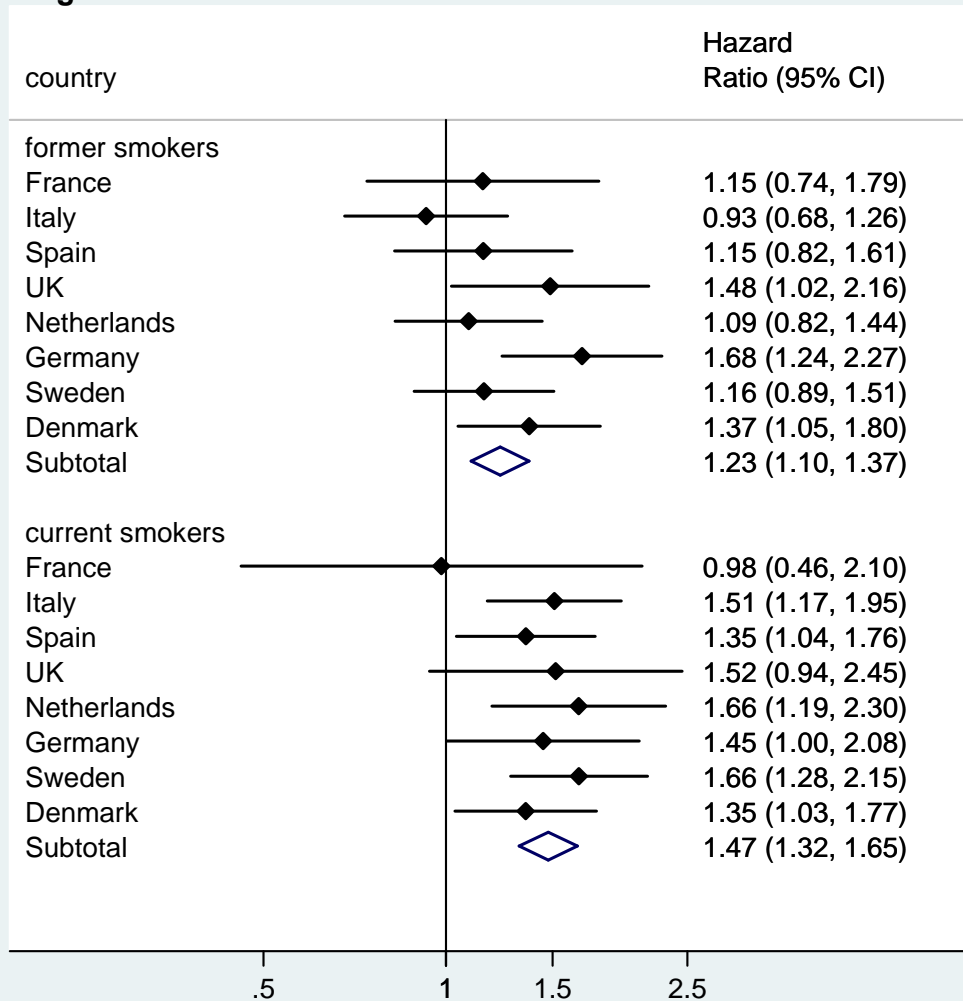
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eFigure 3 Women



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eFigure 4 Women



SUPPLEMENTARY DATA

Supplementary Table 1. Distribution of Smoking Status, Age, Time Since Quitting, Pack Years and Number of Daily Cigarettes per Country in the EPIC-Interact Subcohort

MEN	Never	Age	Former	Age	Time since quitting	Packyears	Current	Age	Cigs/day	Packyears
Italy	26.8	49.5 (7.9)	43.6	50.5 (7.3)	13.3 (8-18.5)	12.2 (6.3-19.6)	29.6	48.4 (7.4)	16 (6-21)	21.7 (14.4-28.9)
Spain	31.3	50.9 (6.9)	34.6	50.7 (7.1)	9.3 (3.5-15.5)	20.0 (11.6-31.0)	34.1	49.5 (7.0)	18 (8-20)	25.1 (15.3-35.2)
United Kingdom	38.2	55.9 (10.3)	51.1	61.1 (9.3)	19.0 (10.5-27.5)	15.0 (8.25-26.0)	10.6	56.6 (8.6)	20 (10-20)	33.7 (23.2-41.3)
Netherlands	31.8	40.4 (11.7)	29.6	47.8 (11.3)	12.5 (5.0-20.5)	12.3 (5.0-26.5)	38.6	41.8 (11.3)	15 (10-20)	15.4 (6.4-35.4)
Germany	32.5	52.4 (7.6)	45.6	52.8 (7.4)	16.5 (8.5-24.0)	11.7 (6.0-18.8)	21.9	51.1 (8.0)	20 (10-25)	23.0 (17.3-31.3)
Sweden	41.4	50.7 (11.9)	36.4	57.2 (9.0)	16.0 (8.0-25.5)	--	22.2	54.3 (8.5)	15 (10-20)	--
Denmark	28.1	56.2 (4.2)	41.0	57.1 (4.5)	17.0 (8.0-24.5)	14.2 (6.3-24.0)	30.9	56.3 (4.4)	16 (10-20)	30.3 (18.5-38.7)
WOMEN										
France	69.0	56.7 (6.5)	22.6	54.8 (6.2)	15.0 (7.5-20.0)	--	8.4	57.0 (7.1)	10 (10-30)	--
Italy	54.0	51.7 (8.0)	20.7	49.4 (7.7)	10.5 (5.5-16.0)	6.1 (2.7-12.4)	25.3	48.4 (7.8)	11 (6-16)	12.1 (7.4-17.7)
Spain	70.8	50.3 (8.0)	10.3	43.1 (6.0)	6.5 (2.5-13.5)	5.8 (2.7-12.5)	19.0	43.1 (6.2)	12 (6-20)	10.1 (6.0-16.4)
United Kingdom	59.9	55.4 (11.5)	28.1	57.0 (11.0)	16.3 (8.0-25.3)	9.4 (3.0-16.4)	12.0	54.4 (9.4)	12 (5-20)	21.4 (12.6-29.5)
Netherlands	42.0	54.9 (10.3)	33.7	54.8 (8.7)	16.5 (7.5-23.5)	8.1 (3.0-18.0)	24.3	51.7 (10.5)	15 (8-20)	19.2 (11.6-27.2)
Germany	57.7	50.4 (9.1)	24.5	47.3 (8.4)	14.5 (7.0-21.5)	5.0 (2.6-11.3)	17.8	46.2 (7.8)	10 (6-15)	12.3 (7.0-20.5)
Sweden	49.8	54.0 (11.3)	22.2	54.4 (9.0)	14.5 (6.0-22.5)	--	28.0	52.6 (9.6)	10 (8-16)	--
Denmark	42.6	56.5 (4.1)	22.0	56.6 (4.5)	18 (10.0-26.5)	8.2 (3.0-15.0)	35.5	53.6 (4.5)	15 (10-20)	23.5 (14.9-29.7)

Data are %, means (standard deviation) or median (interquartile range).

SUPPLEMENTARY DATA

Supplementary Table 2. Hazard Ratios of 2 Categories of Former Smokers, and 2 Categories of Current Smokers for Diabetes Incidence, for Men and Women Separately in the EPIC-Interact Study

MEN	Never smokers	Former, <10 yrs		Former, ≥ 10 yrs		Current, <20 cigs/day		Current, ≥ 20 cigs/day	
Cases/ participants	1201/2708	HR 830/1435	95% CI	HR 1396/2623	95% CI	HR 718/1424	95% CI	HR 798/1394	95% CI
Model 1	1	1.75	(1.54, 1.99)	1.31	(1.17, 1.46)	1.34	(1.18, 1.53)	1.90	(1.66, 2.17)
Model 2	1	1.69	(1.48, 1.93)	1.29	(1.16, 1.45)	1.27	(1.11, 1.46)	1.79	(1.55, 2.07)
Model 3	1	1.48	(1.28, 1.72)	1.20	(1.06, 1.37)	1.43	(1.24, 1.66)	1.89	(1.62, 2.21)
WOMEN	Never smokers	Former, <10 yrs		Former, ≥ 10 yrs		Current, <20 cigs/day		Current, ≥ 20 cigs/day	
Cases/ participants	3137/7960	HR 424/1068	95% CI	HR 685/1864	95% CI	HR 729/2097	95% CI	HR 409/928	95% CI
Model 1	1	1.29	(1.12, 1.48)	0.95	(0.85, 1.06)	0.93	(0.83, 1.03)	1.45	(1.26, 1.68)
Model 2	1	1.42	(1.23, 1.63)	1.08	(0.96, 1.20)	0.97	(0.87, 1.09)	1.61	(1.39, 1.88)
Model 3	1	1.43	(1.21, 1.68)	1.13	(1.00, 1.28)	1.27	(1.12, 1.44)	1.84	(1.54, 2.20)

Presented data are Hazard Ratios (95% confidence intervals) from modified Cox proportional hazard regression models.

Never smokers as the reference group. Total cases/participants: 10,327/23,514.

Model 1: age adjusted; Model 2: 1 + educational level, physical activity, intake of alcohol, coffee and meat; Model 3: 1 + educational level, physical activity, intake of alcohol, coffee and meat and BMI.

SUPPLEMENTARY DATA

Supplementary Table 3. Hazard Ratios of 2 Categories of Former Smokers, and 2 Categories of Current Smokers for Diabetes Incidence, for Men and Women in Strata of BMI in the EPIC-Interact Study

MEN	Never smokers	Former, <10 yrs HR	95%CI	Former, ≥ 10 yrs HR	95%CI	Current, <20 cigs/day HR	95%CI	Current, ≥ 20 cigs/day HR	95%CI
BMI < 25	1	1.56	(1.04, 2.34)	1.61	(1.21, 2.14)	1.52	(1.10, 2.11)	2.07	(1.46, 2.95)
BMI ≥ 25	1	1.40	(1.19, 1.64)	1.15	(1.00, 1.31)	1.33	(1.13, 1.58)	1.67	(1.41, 1.98)
WOMEN	Never smokers	Former, <10 yrs HR	95%CI	Former, ≥ 10 yrs HR	95%CI	Current, <20 cigs/day HR	95%CI	Current, ≥ 20 cigs/day HR	95%CI
BMI < 25	1	1.18	(0.84, 1.64)	1.03	(0.81, 1.31)	1.37	(1.10, 1.71)	1.61	(1.18, 2.19)
BMI ≥ 25	1	1.34	(1.11, 1.62)	1.13	(0.97, 1.30)	1.23	(1.06, 1.44)	1.68	(1.37, 2.06)

Presented data are Hazard Ratios (95% confidence intervals) from modified Cox proportional hazard regression models. Never smokers as the reference group. HRs for smoking status adjusted for age, educational level, physical activity, intake of alcohol, coffee and meat and waist.