

**Web Table 1. Odds ratios (ORs) and 95% confidence intervals (CIs) for leptin concentration and pancreatic cancer by sex, smoking status, and follow-up time in the Alpha-Tocopherol, Beta-Carotene, Cancer Prevention Study (1985-2009), Cancer Prevention Study II Nutrition Cohort (1998-2006), and Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial (1992-2010) Cohorts**

	Overall			< 5 years			5 - <10 years			≥10 years		
	Cases	Controls	OR 95% CI	Cases	Controls	OR 95% CI	Cases	Controls	OR 95% CI	Cases	Controls	OR 95% CI
<b>By sex<sup>1</sup></b>												
<b>Female</b>												
Q1 <sup>2</sup>	29	43	1.00 (ref)	11	17	1.00 (ref)	18	26	1.00 (ref)	-	-	-
Q2	28	43	1.15 (0.52-2.54)	9	18	0.84 (0.21-3.37)	19	25	1.46 (0.53-4.05)	-	-	-
Q3	33	44	1.35 (0.58-3.13)	14	13	1.75 (0.37-8.21)	19	31	0.97 (0.32-2.90)	-	-	-
Q4	30	43	1.09 (0.45-2.60)	11	17	0.68 (0.15-3.05)	19	26	0.94 (0.29-3.03)	-	-	-
Q5	35	44	1.20 (0.46-3.16)	15	23	0.44 (0.08-2.59)	20	21	1.70 (0.47-6.19)	-	-	-
<i>p-trend</i> <sup>3</sup>	-	-	0.78	-	-	0.10	-	-	0.56	-	-	-
Per SD <sup>4</sup>	155	217	0.96 (0.71-1.30)	60	88	0.64 (0.35-1.15)	95	129	1.13 (0.75-1.71)	-	-	-
<b>Male</b>												
Q1 <sup>2</sup>	120	138	1.00 (ref)	34	35	1.00 (ref)	32	32	1.00 (ref)	54	71	1.00 (ref)
Q2	110	138	0.91 (0.63-1.33)	28	40	0.82 (0.38-1.78)	28	32	0.83 (0.38-1.79)	54	66	1.17 (0.68-2.03)
Q3	104	139	0.93 (0.62-1.39)	31	39	0.96 (0.42-2.19)	30	44	0.67 (0.31-1.45)	43	56	1.11 (0.59-2.08)
Q4	130	138	1.23 (0.82-1.86)	36	38	1.34 (0.56-3.20)	33	59	0.62 (0.29-1.34)	61	41	<b>2.43 (1.26-4.70)</b>
Q5	112	139	1.14 (0.72-1.80)	31	58	0.70 (0.28-1.72)	31	45	0.86 (0.34-2.13)	50	36	<b>2.94 (1.34-6.46)</b>
<i>p-trend</i> <sup>3</sup>	-	-	0.23	-	-	0.26	-	-	0.63	-	-	<b>0.001</b>
Per SD <sup>4</sup>	576	692	1.10 (0.94-1.29)	160	210	0.84 (0.61-1.15)	154	212	1.07 (0.80-1.44)	262	270	<b>1.53 (1.15-2.04)</b>
<i>p-heterogeneity</i> <sup>5</sup>	-	-	0.73	-	-	-	-	-	-	-	-	-
<b>By Smoking Status<sup>6</sup></b>												
<b>Never</b>												
Q1 <sup>2</sup>	21	54	1.00 (ref)	8	22	1.00 (ref)	7	22	1.00 (ref)	6	10	1.00 (ref)
Q2	28	47	1.51 (0.74-3.06)	7	19	1.03 (0.29-3.61)	13	21	1.84 (0.59-5.73)	8	7	1.60 (0.36-7.13)
Q3	36	50	1.80 (0.88-3.68)	17	13	<b>3.90 (1.11-13.7)</b>	16	28	1.87 (0.61-5.76)	3	9	0.47 (0.08-2.92)
Q4	29	48	1.58 (0.75-3.36)	15	12	<b>4.01 (1.07-15.1)</b>	7	30	0.90 (0.25-3.17)	7	6	1.75 (0.30-10.2)
Q5	43	65	1.65 (0.75-3.65)	17	35	0.98 (0.24-4.00)	<b>19</b>	<b>22</b>	<b>4.00 (1.09-14.7)</b>	7	8	1.23 (0.21-7.24)
<i>p-trend</i> <sup>3</sup>	-	-	0.79	-	-	0.09	-	-	0.14	-	-	0.63
Per SD <sup>4</sup>	157	264	0.97 (0.77-1.22)	64	101	0.73 (0.51-1.06)	62	123	1.35 (0.91-2.02)	31	40	1.18 (0.60-2.33)
<b>Former</b>												
Q1 <sup>2</sup>	21	29	1.00 (ref)	9	14	1.00 (ref)	7	11	1.00 (ref)	5	4	1.00 (ref)
Q2	26	33	1.11 (0.51-2.41)	12	14	1.40 (0.43-4.53)	9	15	1.04 (0.28-3.87)	5	4	1.92 (0.22-16.9)
Q3	34	59	0.76 (0.37-1.58)	15	23	0.98 (0.32-3.03)	11	25	0.66 (0.18-2.41)	8	11	0.97 (0.16-5.76)
Q4	43	69	0.81 (0.38-1.71)	15	30	0.74 (0.23-2.41)	20	29	0.88 (0.24-3.20)	8	10	1.56 (0.24-10.1)
Q5	39	62	0.66 (0.29-1.50)	16	35	0.52 (0.15-1.78)	19	21	1.07 (0.26-4.47)	4	6	1.39 (0.16-11.9)
<i>p-trend</i> <sup>3</sup>	-	-	0.85	-	-	0.17	-	-	0.20	-	-	0.79
Per SD <sup>4</sup>	163	252	0.98 (0.76-1.25)	67	116	0.74 (0.48-1.15)	66	101	1.27 (0.87-1.87)	30	35	0.89 (0.37-2.11)
<b>Current</b>												
Q1 <sup>2</sup>	107	98	1.00 (ref)	28	16	1.00 (ref)	31	20	1.00 (ref)	48	62	1.00 (ref)
Q2	84	98	0.79 (0.52-1.21)	18	22	0.61 (0.24-1.56)	21	19	0.63 (0.27-1.51)	45	57	1.07 (0.60-1.90)
Q3	67	72	0.89 (0.56-1.42)	13	16	0.63 (0.22-1.79)	17	15	0.52 (0.19-1.41)	37	41	1.25 (0.66-2.36)
Q4	86	64	1.27 (0.78-2.06)	17	13	1.13 (0.38-3.37)	21	22	0.39 (0.15-1.05)	48	29	<b>2.37 (1.21-4.65)</b>
Q5	65	56	1.12 (0.64-1.97)	13	11	1.16 (0.34-4.03)	9	18	<b>0.16 (0.04-0.59)</b>	43	27	<b>2.38 (1.11-5.13)</b>
<i>p-trend</i> <sup>3</sup>	-	-	0.5013	-	-	0.43	-	-	<b>0.008</b>	-	-	0.06
Per SD <sup>4</sup>	409	388	1.07 (0.88-1.28)	89	78	1.25 (0.72-2.14)	99	94	<b>0.53 (0.32-0.87)</b>	221	216	1.25 (0.98-1.60)
<i>p-heterogeneity</i> <sup>7</sup>	-	-	0.88	-	-	-	-	-	-	-	-	-

1 – Conditional logistic regression. Odds ratios conditioned on age, race, cohort, and date of blood draw, and adjusted for age, smoking (never, current, former <15 years since quit, former 15+ years since quit), body mass index (8 categories), and diabetes.

2 – Sex-specific quintiles were <2.89, 2.89-<4.80, 4.80-<7.22, 7.22-<11.67, and ≥11.67 ng/ml for men and <10.82, 10.82-<17.43, 17.43-<26.55, 26.55-<40.78, and ≥40.78 ng/ml for women

3 – *p-trend* based on a -2 log-likelihood test comparing a model with a continuous leptin measure (standard deviation) to a model without a continuous measure

4 – SDs were 7.34 ng/ml for men and 23.12 ng/ml for women

5 – *p-heterogeneity* calculated comparing a -2 log-likelihood test with 1 degree of freedom comparing a model with an interaction term with sex and one without. A continuous leptin measure was used

6 – Unconditional logistic regression. Models exclude unknown smoking status and odds ratios were adjusted for age, sex, body mass index (3 categories), diabetes, and cohort (note: the current smoking <5 years model does not adjust for cohort)

7 – *p-heterogeneity* calculated comparing a -2 log-likelihood test with 2 degrees of freedom comparing a model with an interaction term with former and current smoking and one without any interaction terms. A continuous leptin measure was used.