

**Table S3. Per allele percentage increases in measures of regional adiposity measures (fat mass, fat free mass, leptin, adiponectin, arm circumference, triceps skinfold, subscapular skinfold) among never, former and current smokers, before and after adjustment for body mass index**

		ADJUSTED FOR AGE			<i>p for interaction</i>	ADJUSTED FOR AGE AND BMI *			<i>p for interaction +</i>
		Never smokers	Former smokers	Current smokers		Never smokers	Former smokers	Current smokers	
<b>Fat mass</b>	% increase	0.42	-0.33	-0.43		0.85	-0.31	-0.43	
	95%CI	(-0.09, 0.94)	(-0.93, 0.27)	(-1.13, 0.28)		(0.25, 1.45)	(-0.97, 0.36)	(-1.13, 0.28)	
	<i>p</i>	0.11	0.28	0.24	0.08	0.005	0.37	0.42	0.015
	<i>N</i>	15,249	11,381	6,914					
	<i>I</i> <sup>2</sup>	45%	20%	6%		21%	19%	5%	
<b>Fat free mass</b>	% increase	0.36	-0.03	0.03		0.44	-0.08	-0.08	
	95%CI	(0.09, 0.63)	(-0.33, 0.28)	(-0.35, 0.41)		(0.22, 0.67)	(-0.34, 0.19)	(-0.40, 0.25)	
	<i>p</i>	0.008	0.86	0.89	0.13	1.19 x 10 <sup>-4</sup>	0.57	0.64	3.95 x 10 <sup>-3</sup>
	<i>N</i>	15,543	11,511	7,011					
	<i>I</i> <sup>2</sup>	19%	0%	36%		13%	0%	24%	
<b>Leptin</b>	% increase	-0.97	0.03	-3.48		-0.66	-0.38	-1.36	
	95%CI	(-3.34, 1.45)	(-2.32, 2.43)	(-6.42, -0.44)		(-2.53, 1.26)	(-2.24, 1.52)	(-3.64, 0.98)	
	<i>p</i>	0.43	0.98	0.025	0.2	0.5	0.69	0.25	0.81
	<i>N</i>	8,840	8,472	6,073					

	$I^2$	15%	0%	5%		0%	23%	0%	
<b>Adiponectin</b>	% increase	-0.04	-2.96	-0.31		-0.23	-2.88	-1.14	
	95%CI	(-2.17, 2.13)	(-5.35, -0.51)	(-3.07, 2.54)	0.18	(-2.30, 1.89)	(-5.22, -0.48)	(-3.81, 1.60)	0.26
	$p$	0.97	0.18	0.83		0.83	0.019	0.41	
	$N$	8,840	8,472	6,073					
	$I^2$	16%	18%	2%		18%	21%	18%	
<b>Arm circumference</b>	% increase	0.11	-0.17	-0.4		-0.08	-0.03	0.06	
	95%CI	(-0.05, 0.27)	(-0.36, 0.02)	(-0.60, -0.20)	$3.29 \times 10^{-4}$	(-0.17, 0.01)	(-0.14, 0.08)	(-0.05, 0.17)	0.14
	$p$	0.17	0.08	$8.40 \times 10^{-5}$		0.09	0.6	0.25	
	$N$	32,413	20,063	20,061					
	$I^2$	0%	0%	0%		0%	46%	0%	
<b>Triceps skinfold</b>	% increase	0.86	1.98	-2.14		-0.64	1.98	-1.6	
	95%CI	(-1.05, 2.81)	(-0.18, 4.18)	(-5.31, 1.13)	0.12	(-2.17, 0.90)	(0.12, 3.87)	(-3.92, 0.79)	0.034
	$p$	0.38	0.072	0.2		0.41	0.037	0.19	
	$N$	3,234	3,064	1,460					
	$I^2$	71%	0%	0%		42%	0%	0%	
<b>Subscapular skinfold</b>	% increase	-0.16	-0.93	-2.29		0.14	-0.41	-1.23	
	95%CI	(-2.14, 1.87)	(-2.83, 1.01)	(-5.54, 1.06)	0.55	(-1.01, 1.31)	(-1.89, 1.10)	(-3.29, 0.87)	0.55
	$p$	0.88	0.34	0.18		0.81	0.59	0.25	

<i>N</i>	3,234	3,064	1,460			
<i>I</i> <sup>2</sup>	56%	0%	8%	0%	0%	3%

\*adjustment only made for age and height for fat mass and fat free mass

+Interaction assessed by assessing heterogeneity between effect estimates according to smoking status, with fixed effects model