

Supplementary Table SIII Association between age and BMI at adiposity peak/rebound and between weight classes in different age groups and fertility outcomes.

		Decreased fecund- ability at age 31 years	Infertility assess- ments before age 46 years	Infertility treatments before age 46 years	Childlessness at age 50 years
Adiposity peak OR 95% CI					
Age (years)	Crude	0.88 (0.57–1.36)	0.86 (0.59–1.24)	0.91 (0.61–1.36)	1.01 (0.73–1.39)
	Model I	0.89 (0.58–1.37)	0.86 (0.59–1.24)	0.91 (0.61–1.36)	1.00 (0.70–1.42)
	Model II	0.86 (0.57–1.37)	0.86 (0.60–1.24)	0.91 (0.61–1.36)	0.98 (0.70–1.41)
BMI (kg/m ²)	Crude	1.08 (0.86–1.34)	0.88 (0.73–1.06)	0.87 (0.71–1.08)	0.84 (0.70–0.99)
	Model I	1.08 (0.86–1.34)	0.88 (0.74–1.06)	0.88 (0.71–1.08)	0.83 (0.69–1.00)
	Model II	1.08 (0.87–1.35)	0.89 (0.74–1.07)	0.88 (0.71–1.08)	0.83 (0.69–1.01)
Adiposity rebound OR 95% CI					
Age (years)	Crude	0.86 (0.72–1.04)	1.06 (0.91–1.24)	1.09 (0.92–1.29)	0.89 (0.76–1.02)
	Model I	0.87 (0.72–1.04)	1.06 (0.91–1.24)	1.10 (0.93–1.31)	0.86 (0.73–0.99)
	Model II	0.87 (0.72–1.05)	1.07 (0.91–1.25)	1.09 (0.92–1.31)	0.86 (0.74–1.00)
BMI (kg/m ²)	Crude	1.10 (0.95–1.27)	0.87 (0.76–0.99)	0.88 (0.76–1.01)	1.01 (0.89–1.14)
	Model I	1.10 (0.95–1.27)	0.87 (0.77–0.99)	0.87 (0.76–1.01)	0.99 (0.87–1.13)
	Model II	1.10 (0.95–1.27)	0.87 (0.76–0.98)	0.88 (0.75–1.01)	0.99 (0.87–1.12)
Age 3–6 years OR 95% CI					
Underweight	Crude	1.12 (0.50–2.51)	1.45 (0.81–2.62)	1.39 (0.71–2.70)	1.23 (0.67–2.25)
	Model I	1.10 (0.49–2.47)	1.42 (0.80–2.59)	1.36 (0.69–2.65)	1.55 (0.83–2.89)
	Model II	1.16 (0.51–2.61)	1.48 (0.81–2.64)	1.39 (0.71–2.72)	1.59 (0.85–2.98)
Overweight	Crude	0.99 (0.64–1.52)	0.84 (0.58–1.21)	0.83 (0.55–1.26)	0.83 (0.55–1.26)
	Model I	0.98 (0.64–1.52)	0.84 (0.58–1.21)	0.83 (0.55–1.25)	0.83 (0.55–1.25)
	Model II	0.99 (0.64–1.53)	0.84 (0.58–1.22)	0.83 (0.55–1.26)	0.83 (0.55–1.26)
Obese	Crude	1.25 (0.73–2.41)	0.65 (0.38–1.14)	0.67 (0.37–1.25)	0.82 (0.50–1.34)
	Model I	1.23 (0.72–2.12)	0.65 (0.37–1.13)	0.67 (0.36–1.24)	0.74 (0.43–1.26)
	Model II	1.24 (0.72–2.13)	0.64 (0.36–1.11)	0.66 (0.35–1.22)	0.74 (0.43–1.25)
Age 7–10 years OR 95% CI					
Underweight	Crude	0.86 (0.44–1.69)	1.37 (0.86–2.16)	1.31 (0.79–2.18)	1.03 (0.63–1.68)
	Model I	0.86 (0.44–1.69)	1.35 (0.86–2.14)	1.30 (0.78–2.16)	1.00 (0.69–1.70)
	Model II	0.84 (0.46–1.65)	1.37 (0.87–2.18)	1.31 (0.78–2.18)	1.00 (0.59–1.71)
Overweight	Crude	1.28 (0.81–2.05)	1.13 (0.77–1.67)	1.10 (0.71–1.68)	1.23 (0.85–1.78)
	Model I	1.28 (0.80–2.04)	1.12 (0.76–1.65)	1.07 (0.70–1.65)	1.35 (0.91–2.00)
	Model II	1.28 (0.80–2.04)	1.11 (0.75–1.64)	1.08 (0.70–1.66)	1.31 (0.88–1.94)
Obese	Crude	1.88 (1.08–3.27)	0.71 (0.37–1.35)	0.73 (0.36–1.47)	1.18 (0.70–1.98)
	Model I	1.87 (1.07–3.24)	0.70 (0.37–1.35)	0.71 (0.35–1.44)	1.00 (0.56–1.77)
	Model II	1.86 (1.07–3.28)	0.71 (0.37–1.35)	0.73 (0.36–1.47)	0.99 (0.56–1.77)
Age 11–15 years OR 95% CI					
Underweight	Crude	0.92 (0.53–1.58)	1.42 (0.97–2.09)	1.54 (1.02–2.33)	1.14 (0.76–1.71)
	Model I	0.92 (0.53–1.58)	1.42 (0.97–2.09)	1.55 (1.02–2.34)	1.25 (0.82–1.93)
	Model II	0.89 (0.51–1.53)	1.43 (0.97–2.10)	1.55 (1.02–2.36)	1.27 (0.82–1.95)
Overweight	Crude	1.16 (0.74–1.82)	0.87 (0.58–1.31)	0.93 (0.60–1.46)	1.68 (0.96–1.96)
	Model I	1.16 (0.74–1.83)	0.86 (0.57–1.32)	0.91 (0.58–1.42)	1.57 (1.08–2.29)

(continued)

Supplementary Table SIII Continued

		Decreased fecund- ability at age 31 years	Infertility assess- ments before age 46 years	Infertility treatments before age 46 years	Childlessness at age 50 years
Obese	Model II	1.04 (0.63–1.73)	0.86 (0.57–1.30)	0.94 (0.59–1.45)	1.56 (1.06–2.27)
	Crude	1.78 (0.97–3.23)	1.21 (0.68–2.16)	1.13 (0.59–2.18)	1.68 (1.01–2.79)
	Model I	1.75 (0.97–3.21)	1.21 (0.68–2.15)	1.11 (0.57–2.14)	1.77 (1.02–3.01)
	Model II	1.82 (0.99–3.33)	1.22 (0.68–2.18)	1.16 (0.60–2.24)	1.77 (1.02–3.07)

Normal weight is used as a reference group.

Women with polycystic ovary syndrome were excluded. Women who reported to have never attempted to achieve pregnant were excluded from the analyses.

Underweight (BMI <5th percentile (pc)), normal weight (BMI 5th–85th pc), overweight (BMI 85th–95th pc), obese (BMI >95th pc).

Results are shown as OR with 95% CI.

Model I: adjustment for marital status during reproductive period.

Model II: Model I + adjustment for education and smoking.

The bold values significance is expressed in the Tables as ORs.