

Supplementary Table 1. Prevalence of cardiometabolic risk factors for severe obesity using the 120% of 95th percentile of the body mass index

Cardiometabolic risk factor	BMI category	Boys				Girls			
		No.	Prevalence (%) (95% CI)	Odds ratio (95% CI) [†]	P-value	No.	Prevalence (%) (95% CI)	Odds ratio (95% CI) [†]	P-value
High blood pressure	<95th	271	5.7 (5.0–6.6)	Ref.	-	221	5.2 (4.5–6.1)	Ref.	-
	95th to 120% of 95th	60	14.3 (10.9–18.6)	2.7 (1.9–3.9)	<0.001	41	13.2 (9.4–18.1)	2.9 (1.9–4.4)	<0.001
	≥120% of 95th	37	28.2 (20.5–37.5)	7.7 (4.8–12.2)	<0.001	21	33.7 (21.8–46.7)	10.2 (5.6–18.6)	<0.001
High blood glucose	<95th	345	8.8 (7.8–9.9)	Ref.	-	203	5.2 (4.5–6.1)	Ref.	-
	95th to 120% of 95th	41	12.9 (9.2–17.9)	1.5 (1.0–2.3)	0.037	32	11.5 (7.9–16.5)	2.6 (1.7–4.1)	<0.001
	≥120% of 95th	13	9.0 (4.9–16.0)	1.2 (0.6–2.3)	0.649	11	24.1 (12.8–40.6)	7.5 (3.4–16.9)	<0.001
High triglyceride	<95th	290	7.3 (6.3–8.4)	Ref.	-	259	6.9 (6.0–7.9)	Ref.	-
	95th to 120% of 95th	72	19.2 (15.1–24.1)	3.0 (2.2–4.2)	<0.001	67	23.5 (18.5–29.3)	4.8 (3.4–6.7)	<0.001
	≥120% of 95th	34	28.7 (20.2–39.0)	5.2 (3.1–8.4)	<0.001	16	25.9 (15.0–41.0)	6.3 (3.1–13.1)	<0.001
Low HDL cholesterol	<95th	543	13.3 (12.1–14.5)	Ref.	-	298	7.6 (6.6–8.7)	Ref.	-
	95th to 120% of 95th	111	30.8 (25.5–36.6)	3.0 (2.2–3.9)	<0.001	67	21.0 (16.1–26.9)	3.4 (2.3–4.8)	<0.001
	≥120% of 95th	48	38.6 (29.4–48.8)	3.8 (2.4–5.8)	<0.001	29	47.6 (33.7–62.0)	12.2 (6.7–22.2)	<0.001
High alanine aminotransferase	<95th	910	20.0 (18.6–21.5)	Ref.	-	714	17.2 (15.9–18.5)	Ref.	-
	95th to 120% of 95th	224	53.7 (48.0–59.3)	4.6 (3.6–5.9)	<0.001	90	27.6 (22.3–33.6)	2.0 (1.5–2.7)	<0.001
	≥120% of 95th	98	71.2 (62.0–78.9)	10.6 (6.9–16.4)	<0.001	40	54.6 (40.8–67.6)	7.2 (4.1–12.7)	<0.001

BMI, body mass index; CI, confidence interval; HDL, high-density lipoprotein.

No. of participants: high blood pressure and high alanine aminotransferase (boys 5,289 and girls 4,695); high blood glucose (boys 4,521 and girls 3,996); high triglyceride (boys 4,539 and girls 4,010); and low HDL cholesterol (boys 4,538 and girls 4,009).

[†]Adjusted for age and sex.

Supplementary Table 2. Prevalence of cardiometabolic risk factors for severe obesity using the 99th percentile of the body mass index

Cardiometabolic risk factors	BMI category	Boys				Girls			
		No.	Prevalence (%) (95% CI)	Odds ratio (95% CI) [†]	P-value	No.	Prevalence (%) (95% CI)	Odds ratio (95% CI) [†]	P-value
High blood pressure	<95th	271	5.7 (5.0–6.6)	Ref.	-	221	5.2 (4.5–6.1)	Ref.	-
	95th to <99th	45	14.0 (10.2–18.8)	2.6 (1.8–3.9)	<0.001	29	13.0 (8.8–18.6)	2.8 (1.8–4.5)	<0.001
	≥99th	52	23.0 (17.5–29.6)	5.4 (3.7–7.9)	<0.001	33	21.3 (15.2–29.0)	5.4 (3.5–8.4)	<0.001
High blood glucose	<95th	345	8.8 (7.8–9.9)	Ref.	-	203	5.2 (4.5–6.1)	Ref.	-
	95th to <99th	26	11.8 (7.6–17.9)	1.4 (0.8–2.3)	0.194	19	8.0 (4.7–13.2)	1.7 (0.9–3.0)	0.097
	≥99th	28	11.8 (7.8–17.5)	1.5 (0.9–2.4)	0.090	24	21.6 (14.6–30.8)	6.5 (3.9–10.8)	<0.001
High triglyceride	<95th	290	7.3 (6.3–8.4)	Ref.	-	259	6.9 (6.0–7.9)	Ref.	-
	95th to <99th	49	16.1 (11.9–21.5)	2.4 (1.7–3.6)	<0.001	54	26.7 (20.6–33.9)	5.4 (3.7–7.8)	<0.001
	≥99th	57	28.0 (21.4–35.5)	4.9 (3.4–7.3)	<0.001	29	20.3 (13.5–29.4)	4.5 (2.6–7.6)	<0.001
Low HDL cholesterol	<95th	543	13.3 (12.1–14.5)	Ref.	-	298	7.6 (6.6–8.7)	Ref.	-
	95th to <99th	78	28.3 (22.6–34.9)	2.6 (1.9–3.6)	<0.001	49	21.9 (16.3–28.9)	3.5 (2.3–5.2)	<0.001
	≥99th	81	37.5 (30.2–45.3)	3.7 (2.6–5.3)	<0.001	47	30.9 (23.0–40.1)	5.9 (3.8–9.2)	<0.001
High alanine aminotransferase	<95th	910	20.0 (18.6–21.5)	Ref.	-	714	17.2 (15.9–18.5)	Ref.	-
	95th to <99th	157	50.4 (43.9–56.8)	4.1 (3.1–5.3)	<0.001	60	25.7 (19.7–32.8)	1.8 (1.2–2.6)	0.002
	≥99th	165	69.2 (62.2–75.3)	9.4 (6.8–13.0)	<0.001	70	40.4 (32.3–49.1)	3.9 (2.7–5.6)	<0.001

BMI, body mass index; CI, confidence interval; HDL, high-density lipoprotein.

No. of participants: high blood pressure and high alanine aminotransferase (boys 5,289 and girls 4,695); High blood glucose (boys 4,521 and girls 3,996); High triglyceride (boys 4,539 and girls 4,010); and Low HDL cholesterol (boys 4,538 and girls 4,009).

[†]Adjusted for age and sex.