

## Supplementary Online Content

Gjærde LK, Gamborg M, Ångquist L, Truelsen TC, Sørensen TIA, Baker JL. Association of childhood body mass index and change in body mass index with first adult ischemic stroke. *JAMA Neurol*. Published online August 21, 2017. doi:10.1001/jamaneurol.2017.1627

**eFigure 1.** Flowchart Describing the Eligibility Criteria in the Overall Study (n = 307 677), Based on Data from the Copenhagen School Health Records Register

**eFigure 2.** Childhood BMI at 7-12 Years of Age and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke Among Women

**eFigure 3.** Childhood BMI at 7-12 Years of Age and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke Among Men

**eFigure 4.** Childhood BMI at 7 and 13 Years and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic and Unspecified Stroke Among Women

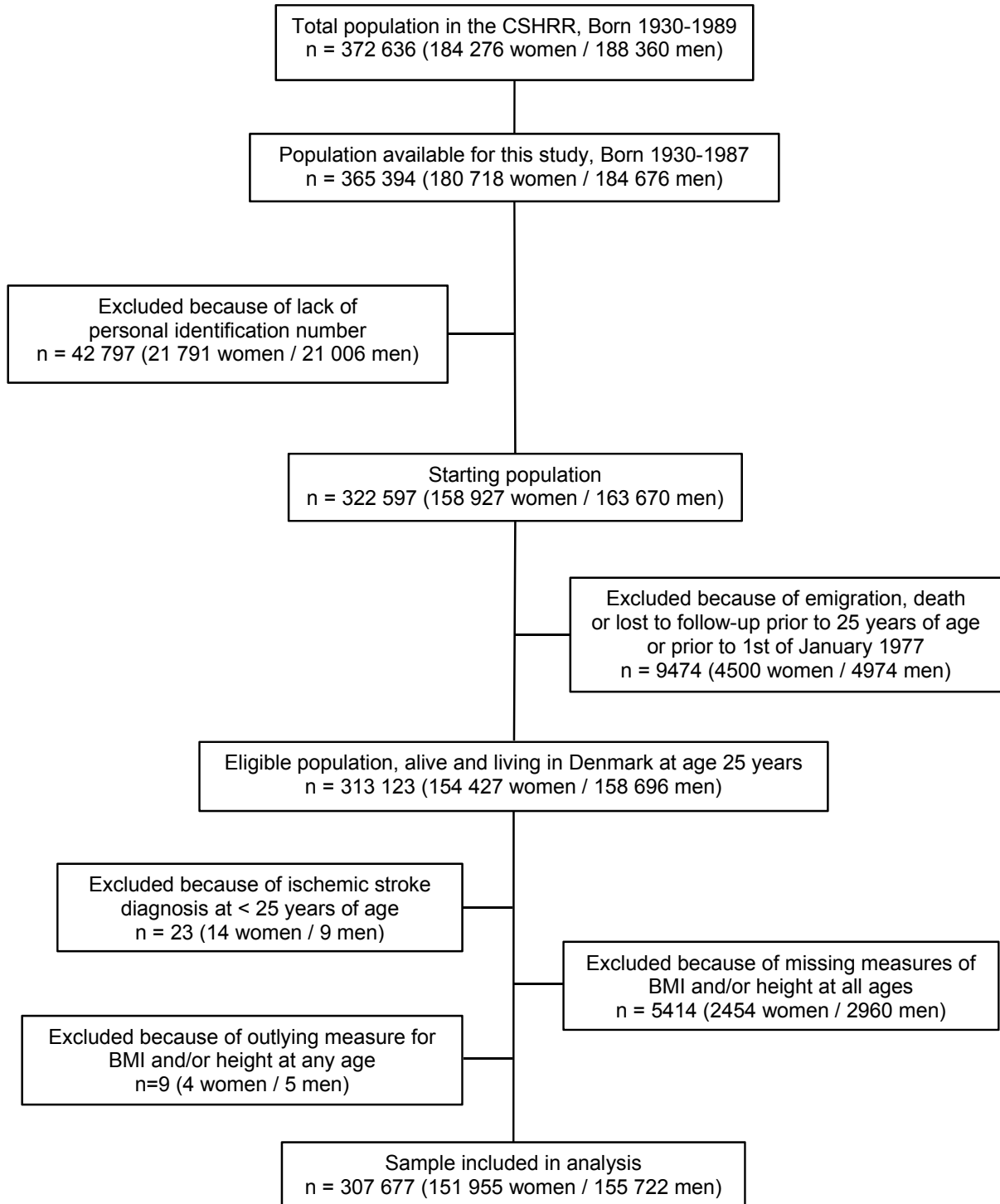
**eFigure 5.** Childhood BMI at 7 and 13 Years and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic and Unspecified Stroke Among Men

**eTable 1.** Birth Weight and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke Among Women and Men

**eTable 2.** Hazard Ratios and 95% CIs for Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke According to a Given BMI z Score in Childhood With and Without Adjustment for Birth Weight

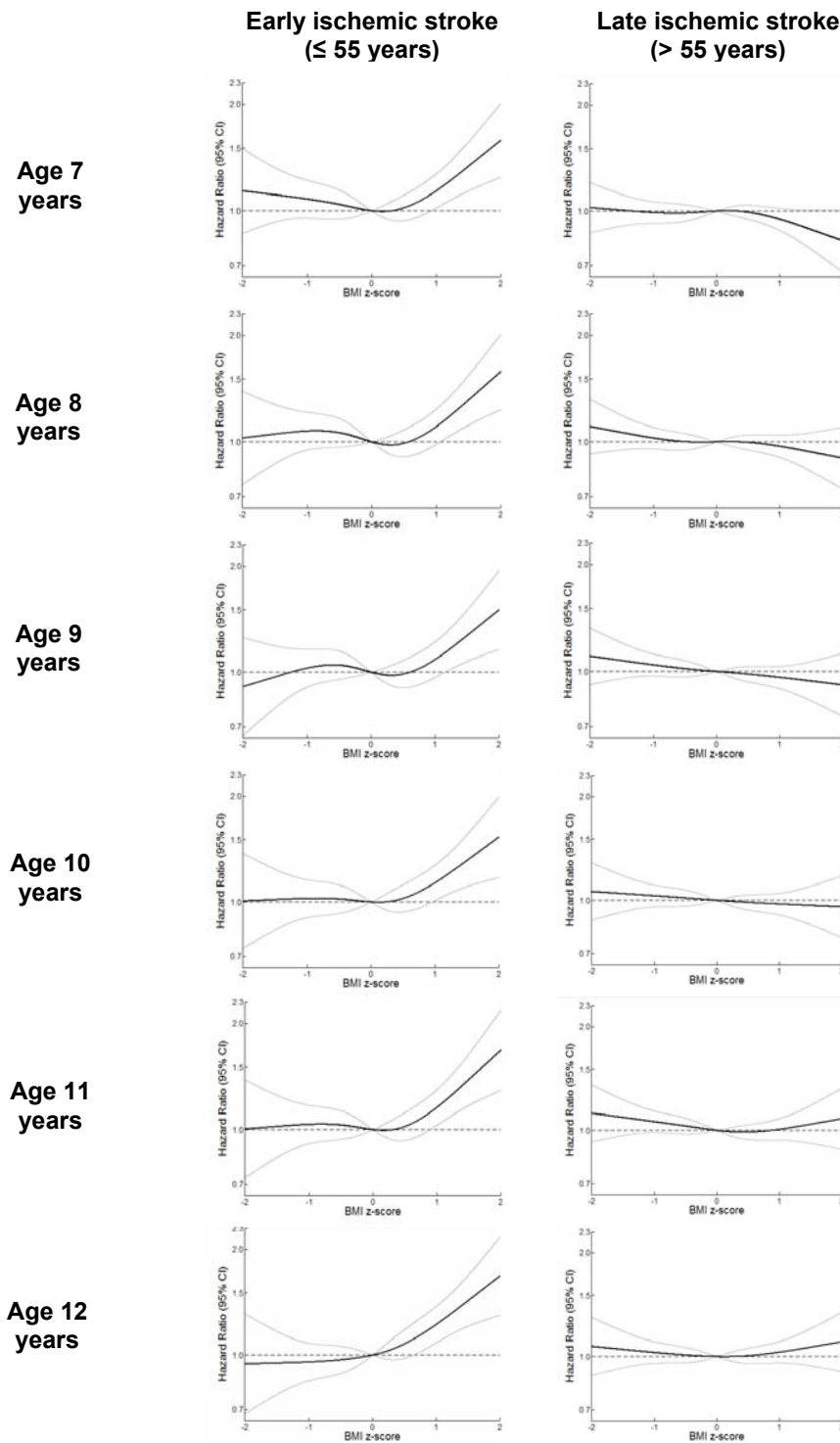
This supplementary material has been provided by the authors to give readers additional information about their work.

**eFigure 1.** Flowchart Describing the Eligibility Criteria in the Overall Study (n = 307 677), Based on Data from the Copenhagen School Health Records Register



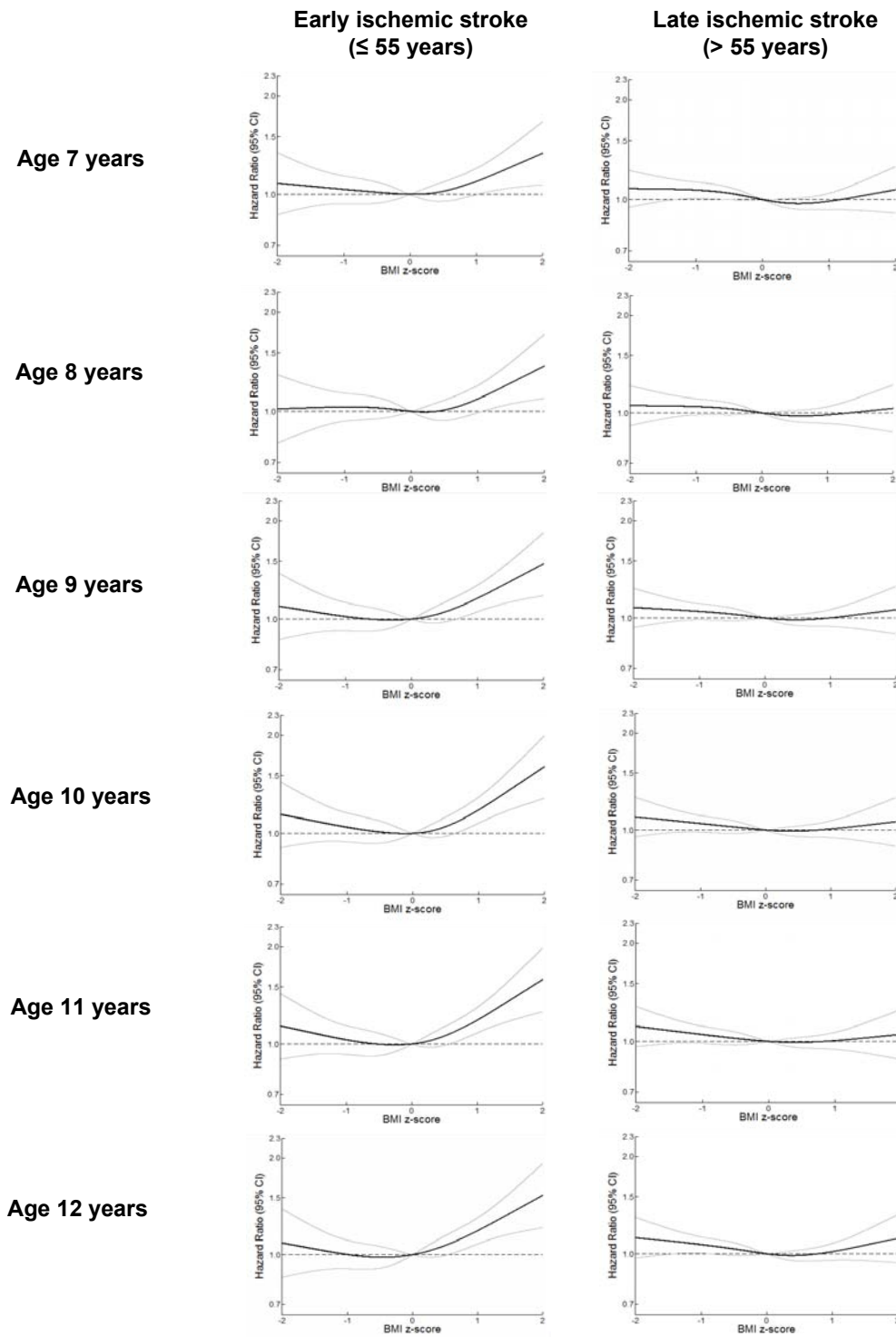
Abbreviations: BMI, body mass index; CSHRR, Copenhagen School Health Records Register; n, number

**eFigure 2.** Childhood BMI at 7-12 Years of Age and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke Among Women



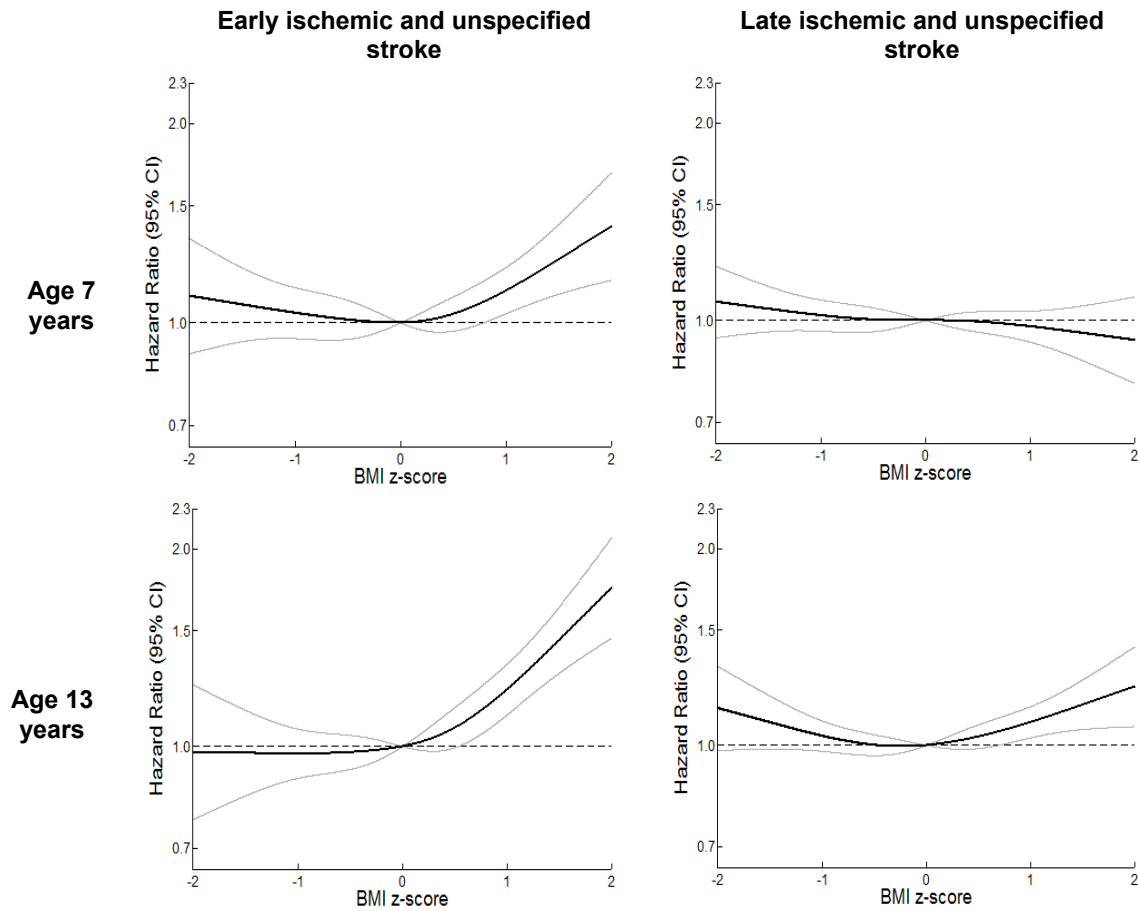
Abbreviations: BMI, body mass index (kg/m<sup>2</sup>); CI, confidence interval.

**eFigure 3.** Childhood BMI at 7-12 Years of Age and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic Stroke Among Men



Abbreviations: BMI, body mass index ( $\text{kg}/\text{m}^2$ ); CI, confidence interval.

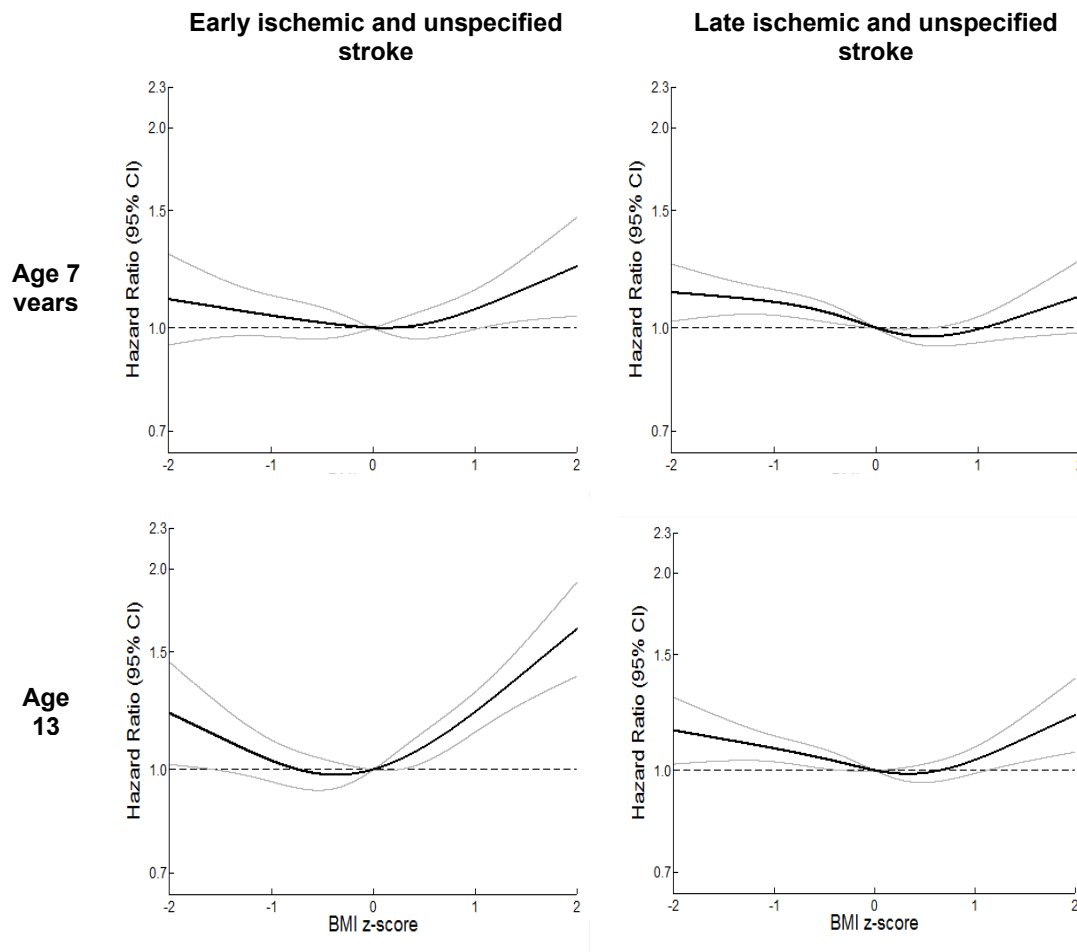
**eFigure 4.** Childhood BMI at 7 and 13 Years and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic and Unspecified Stroke Among Women<sup>a</sup>



Abbreviations: BMI, body mass index ( $\text{kg}/\text{m}^2$ ); CI, confidence interval.

<sup>a</sup>All analyses are stratified by birth cohort.

**eFigure 5.** Childhood BMI at 7 and 13 Years and Early (Age at Diagnosis  $\leq 55$  Years) vs Late (Age at Diagnosis  $>55$  Years) Ischemic and Unspecified Stroke Among Men<sup>a</sup>



Abbreviations: BMI, body mass index ( $\text{kg}/\text{m}^2$ ); CI, confidence interval.

<sup>a</sup> All analyses are stratified by birth cohort.

**eTable 1.** Birth Weight and Early (Age at Diagnosis ≤55 Years) vs Late (Age at Diagnosis >55 Years) Ischemic Stroke Among Women and Men<sup>a</sup>

Sex	Anthropometric value	Number	Early ischemic stroke		Late ischemic stroke	
			Number of cases	HR (95% CI)	Number of cases	HR (95% CI)
Women	Birth weight (per 500g)	114,874	630	0.93 (0.86–1.00)	1348	0.92 (0.87–0.96)
	Birth weight (kg)					
	2.00–2.75	16,582	112	1.24 (0.98–1.55)	228	1.41 (1.20–1.65)
	2.76–3.25	38,890	214	1.02 (0.85–1.24)	478	1.21 (1.07–1.38)
	3.26–3.75	40,262	213	1	423	1
	3.76–4.25	15,227	73	0.92 (0.71–1.20)	163	1.00 (0.84–1.20)
Men	4.26–5.50	3913	18	0.88 (0.54–1.42)	56	1.18 (0.89–1.20)
	Birth weight (per 500g)	119,780	953	0.71 (0.64–0.80)	2326	0.93 (0.89–0.96)
	Birth weight (kg)					
	2.00–2.75	13,015	157	1.66 (1.37–2.01)	266	1.21 (1.05–1.38)
	2.76–3.25	33,024	287	1.20 (1.02–1.41)	687	1.16 (1.04–1.28)
	3.26–3.75	44,218	317	1	820	1
	3.76–4.25	22,275	147	0.93 (0.76–1.13)	417	0.99 (0.88–1.12)
	4.26–5.50	7248	45	0.86 (0.63–1.18)	136	0.89 (0.74–1.06)

Abbreviations: CI, confidence interval; HR, hazard ratio; n, number.

<sup>a</sup>All analyses are stratified by birth cohort.

**eTable 2.** Hazard Ratios and 95% CIs for Early (Age at Diagnosis ≤55 Years) vs Late (Age at Diagnosis >55 Years) Ischemic Stroke According to a Given BMI z Score in Childhood With and Without Adjustment for Birth Weight<sup>a</sup>

Sex	Age	BMI z-score	Early ischemic stroke		Late ischemic stroke	
			Unadjusted HR (95% CI)	Adjusted for BW HR (95% CI)	Unadjusted HR (95% CI)	Adjusted for BW HR (95% CI)
Women	7	-2	0.88 (0.62–1.24)	0.85 (0.60–1.20)	1.00 (0.79–1.27)	0.96 (0.76–1.22)
		-1	1.01 (0.88–1.16)	0.99 (0.86–1.34)	1.00 (0.90–1.10)	0.97 (0.88–1.08)
		0	1	1	1	1
	13	1	1.12 (0.99–1.27)	1.14 (1.00–1.29)	0.94 (0.85–1.03)	0.96 (0.86–1.05)
		2	1.62 (1.25–2.09)	1.65 (1.28–2.15)	0.82 (0.62–1.08)	0.84 (0.64–1.11)
		-2	0.81 (0.55–1.20)	0.79 (0.53–1.17)	0.95 (0.72–1.25)	0.92 (0.70–1.21)
Men	7	-1	0.89 (0.77–1.02)	0.87 (0.76–1.00)	0.98 (0.89–1.08)	0.96 (0.87–1.06)
		0	1	1	1	1
		1	1.26 (1.10–1.45)	1.28 (1.11–1.47)	1.04 (0.94–1.15)	1.11 (0.87–1.41)
	13	2	1.74 (1.33–2.27)	1.77 (1.36–2.32)	1.05 (0.95–1.16)	1.14 (0.89–1.44)
		-2	0.91 (0.69–1.19)	0.82 (0.63–1.08)	1.03 (0.86–1.23)	0.99 (0.83–1.18)
		-1	0.99 (0.89–1.11)	0.94 (0.84–1.05)	1.06 (0.98–1.14)	1.03 (0.96–1.11)
Men	7	0	1	1	1	1
		1	1.09 (0.98–1.21)	1.14 (1.02–1.27)	0.96 (0.89–1.04)	0.98 (0.91–1.06)
		2	1.37 (1.08–1.75)	1.46 (1.15–1.85)	1.01 (0.83–1.24)	1.04 (0.85–1.28)
	13	-2	1.14 (0.86–1.50)	1.05 (0.79–1.38)	1.13 (0.93–1.37)	1.09 (0.90–1.33)
		-1	0.95 (0.85–1.06)	0.91 (0.82–1.02)	1.09 (1.01–1.18)	1.07 (1.00–1.16)
		0	1	1	1	1
Men	13	1	1.29 (1.16–1.44)	1.33 (1.19–1.49)	0.99 (0.92–1.07)	1.00 (0.93–1.08)
		2	1.59 (1.25–2.04)	1.67 (1.31–2.14)	1.14 (0.93–1.39)	1.16 (0.95–1.41)

Abbreviations: BMI, body mass index (kg/m<sup>2</sup>); BW, birth weight; CI, confidence interval; HR, hazard ratio.

<sup>a</sup> All analyses are stratified by birth cohort.