

Supplementary Online Content

Van Cleave J, Gortmaker SL, Perrin JM. Dynamics of obesity and chronic health conditions among children and youth. *JAMA*. 2010;303(7):623-630.

eTable 1. Obesity-specific results, presented with all obese data and only data measured with tape measure and scale

eTable 2. Prevalence during any part of the 6-year study period, both with poverty imputed and with models that had actual poverty data

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

eTable 1. Obesity-specific results, presented with all obese data and only data measured with tape measure and scale

Cohort/chronic condition	N	Prevalence at baseline (%)	P value, compared to previous cohort	Prevalence at end of study period (%)	P value, compared to previous cohort	P value, compared to baseline of same cohort	Incidence during study period (%)	P value, compared to previous cohort	Percent of cases at end of study period that are new (%)	P value, compared to previous cohort	Conditions present at baseline that persisted (%)	P value, compared to previous cohort
All Cohorts	5001											
Obesity all		11.9 (10.8-13.1) N=611	--	13.3 (12.1-14.5) N=721	--	<0.001	10.1 (9.0-11.2) N=467	--	66.7 (62.4-70.7) N=467	--	37.2 (32.7-42.0) N=254	--
Objectively measured height and weight	2320	8.1 (6.8-9.7) N=194	--	12.5 (11.0-14.2) N=332	--	<0.001	10.0 (8.6-11.6) N=238	--	73.6 (67.4-79.0) N=238	--	40.6 (32.3-49.5) N=94	--
Cohort 1: Aged 2 to 8 years in 1988	2337											
Obesity		7.0 (5.9-8.3) N=187	--	8.3 (7.0-9.7) N=225	--	0.03	6.5 (5.3-7.9) N=157	--	73.2 (65.4-79.8) N=157	--	31.5 (24.0-40.1) N=68	--
Objectively measured height and weight	1168	4.2 (3.1-5.7) N=62	--	6.2 (4.8-7.9) N=99	--	<0.001	5.3 (4.0-7.0) N=77	--	82.4 (71.8-89.6) N=77	--	25.9 (15.5-40.1) N=22	--

eTable 1. Obesity-specific results, presented with all obese data and only data measured with tape measure and scale (continued)

Cohort/chronic condition	N	Prevalence at baseline (%)	P value, compared to previous cohort	Prevalence at end of study period (%)	P value, compared to previous cohort	P value, compared to baseline of same cohort	Incidence during study period (%)	P value, compared to previous cohort	Percent of cases at end of study period that are new (%)	P value, compared to previous cohort	Conditions present at baseline that persisted (%)	P value, compared to previous cohort
Cohort 2: Aged 2 to 8 years in 1994	1759											
Obesity		12.3 (10.6-14.3) N=241	<0.001	16.9 (14.9-19.2) N=335	<0.001	<0.001	13.7 (11.7-15.4) N=224	<0.001	70.8 (64.9-76.2) N=224	0.42	40.1 (32.8-47.8) N=111	0.13
Objectively measured height and weight	822	9.2 (7.0-12.0) N=83	<0.001	18.2 (15.3-21.4) N=175	<0.001	<0.001	14.7 (12.0-17.8) N=121	<0.001	73.4 (65.2-80.2) N=121	0.14	52.7 (38.7-66.2) N=54	0.006
Cohort 3: Aged 2 to 8 years in 2000	905											
Obesity		19.0 (16.2-22.3) N=183	<0.001	15.8 (13.2-18.9) N=161	0.43	0.13	10.6 (8.3-13.4) N=86	0.06	54.4 (45.3-63.1) N=86	0.003	37.8 (30.3-46.2) N=75	0.69
Objectively measured height and weight	330	14.2 (10.5-19.4) N=49	0.05	14.6 (10.7-19.6) N=58	0.21	0.34	11.3 (7.7-16.3) N=40	0.14	66.5 (50.0-79.8) N=40	0.42	34.3 (20.1-51.1) N=18	0.10

eTable 2. Prevalence during any part of the 6-year study period, both with poverty imputed and with models that had actual poverty data

		Prevalence during any part of the 6-year study period, AOR (CI)*				
Cohorts 1, 2, and 3 (N=5001)		Any condition (n=1959)	Asthma (n=362)	Other physical condition (n=548)	Behavior/ learning problem (n=317)	Obesity (n=1429)
Age (<i>continuous</i>)		0.95 (0.91-0.99) <i>0.90 (0.78-1.05)</i>	1.02 (0.94-1.11) <i>1.25 (0.95-1.66)</i>	1.15 (1.08-1.22) <i>1.50 (1.20-1.88)</i>	1.13 (1.04-1.23) <i>1.41 (1.06-1.88)</i>	0.85 (0.81-.89) <i>0.78 (0.60-1.00)</i>
Gender (<i>Ref= Female</i>)	Male	1.24 (1.07-1.42) N=1025 <i>1.27 (1.09-1.48)</i>	1.59 (1.23-2.05) N=218 <i>1.60 (1.22-2.11)</i>	1.52 (1.23-1.87) N=324 <i>1.60 (1.28-2.01)</i>	2.96 (2.18-4.02) N=238 <i>3.06 (2.23-4.21)</i>	1.06 (0.91-1.24) N=712 <i>0.93 (0.72-1.19)</i>
Race/ Ethnicity (<i>Ref= Non-Hispanic White</i>)	Black	1.60 (1.35-1.90) N=628 <i>1.63 (1.36-1.97)</i>	1.59 (1.17-2.17) N=132 <i>1.63 (1.17-2.29)</i>	0.59 (0.45-0.77) N=117 <i>0.57 (0.43-0.78)</i>	0.74 (0.42-0.95) N=84 <i>0.66 (0.44-0.98)</i>	2.04 (1.69-2.46) N=504 <i>1.83 (1.34-2.48)</i>
	Hispanic	1.36 (1.11-1.67) N=379 <i>1.32 (1.06-1.66)</i>	1.46 (1.02-2.01) N=77 <i>1.52 (1.02-2.29)</i>	0.73 (0.53-0.99) N=78 <i>0.77 (0.55-1.08)</i>	0.63 (0.49-0.95) N=51 <i>0.74 (0.49-1.14)</i>	1.58 (1.27-1.97) N=289 <i>1.62 (1.11-2.37)</i>
Maternal obesity (<i>Ref=BMI<30</i>)	BMI≥30	1.96 (1.63-2.36) N=611 <i>1.97 (1.62-2.40)</i>	1.46 (1.07-1.99) N=118 <i>1.56 (1.11-2.17)</i>	1.56 (1.20-2.03) N=160 <i>1.59 (1.20-2.10)</i>	1.74 (1.27-2.40) N=106 <i>1.53 (1.08-2.19)</i>	2.07 (1.70-2.51) N=485 <i>2.01 (1.49-2.70)</i>
Maternal education (<i>Ref≤12 years</i>)	>12 years of education	0.85 (0.71-1.00) N=789 <i>0.86 (0.72-1.03)</i>	0.93 (0.68-1.27) N=142 <i>1.10 (0.73-1.41)</i>	1.15 (0.91-1.46) N=261 <i>1.09 (0.84-1.41)</i>	0.67 (0.49-0.91) N=98 <i>0.65 (0.47-0.90)</i>	0.75 (0.62-0.91) N=550 <i>1.00 (0.75-1.45)</i>
Poverty level <i>Ref= ≥100% FPL</i>	<100% FPL	1.00 (0.82-1.20) N=513 <i>0.98 (0.81-1.20)</i>	1.12 (0.81-1.56) N=111 <i>1.17 (0.822-1.67)</i>	0.98 (0.73-1.32) N=111 <i>0.98 (0.70-1.35)</i>	1.64 (1.15-2.32) N=96 <i>1.69 (1.07-2.09)</i>	0.99 (0.80-1.22) N=391 <i>1.04 (0.75-1.45)</i>

Non-italics are data with poverty imputed and all heights and weights (same as the data presented in the article).

Italic results are models with poverty variable=only those with actual poverty data.

Obese model in italics was run using only objectively measured height and weight.