

# Tracking The Obesity Epidemic: New Zealand, 1977-2003

RESEARCH ARTICLE

## How Has the Age-Related Process of Overweight or Obesity Development Changed over Time? Co-ordinated Analyses of Individual Participant Data from Five United Kingdom Birth Cohorts

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**Data Availability Statement:** The dataset used in this research combines and harmonises data from five cohort studies. The original and the harmonised NSHD data are made available to researchers who submit data requests to [mrca@ucl.ac.uk](mailto:mrca@ucl.ac.uk); see also the full policy documents at <http://www.nshd.mrc.ac.uk/data.aspx>. Applications to access the original and the harmonised ALSPAC data should be submitted to [alpac@bristol.ac.uk](mailto:alpac@bristol.ac.uk). The original data for the NCDS, BCS and MCS cohorts are available from the UK Data Archive (<http://www.data-archive.ac.uk/>); applications for access to any data

### Abstract

#### Background

There is a paucity of information on secular trends in the age-related process by which people develop overweight or obesity. Utilizing longitudinal data in the United Kingdom birth cohort studies, we investigated shifts over the past nearly 70 years in the distribution of body mass index (BMI) and development of overweight or obesity across childhood and adulthood.

#### Methods and Findings

The sample comprised 56,632 participants with 273,843 BMI observations in the 1946 Medical Research Council National Survey of Health and Development (NSHD; ages 2–64 years), 1958 National Child Development Study (NCDS; 7–50), 1970 British Cohort Study (BCS; 10–42), 1991 Avon Longitudinal Study of Parents and Children (ALSPAC; 7–18), or 2001 Millennium Cohort Study (MCS; 3–11). Growth references showed a secular trend toward positive skewing of the BMI distribution at younger ages. During childhood, the 50th centiles for all studies lay in the middle of the International Obesity Task Force normal weight range, but during adulthood, the age when a 50th centile first entered the overweight range (i.e., 25–29.9 kg/m<sup>2</sup>) decreased across NSHD, NCDS, and BCS from 41 to 33 to 30 years in males and 48 to 44 to 41 years in females. Trajectories of overweight or obesity showed that more recently born cohorts developed greater probabilities of overweight or obesity at younger ages. Overweight or obesity became more probable in NCDS than NSHD in early adulthood, but more probable in BCS than NCDS and NSHD in adolescence, for example. By age 10 years, the estimated probabilities of overweight or obesity in cohorts born after the 1980s were 2–3 times greater than those born before the 1980s (e.g., 0.229 [95% CI 0.219–0.240] in MCS males; 0.071 [0.065–0.078] in NSHD males). It was

In the interim, this report on Tracking the Obesity Epidemic: New Zealand ? provides detailed information that will be useful in further developing and.Tracking the Obesity Epidemic examines changes in the prevalence of National Nutrition Survey, and /03 New Zealand Health.Good evening everyone. I am delighted to be here to launch Tracking the Obesity Epidemic, a significant overview of one of New Zealand's.Tracking the Obesity Epidemic: New Zealand Zealand Survey, the National Nutrition Survey, and the New Zealand Health.Despres JP, Lemieux I. Abdominal obesity and metabolic syndrome. *Nature*. Tracking the obesity epidemic: New Zealand Wellington.Tracking the Obesity Epidemic: New Zealand contains data from four national nutrition and health surveys. It tracks changes to the body mass index.Title: Tracking the obesity epidemic: New Zealand Alternative Title: Author / Speaker: PDF: [bjornhalldal.com](http://bjornhalldal.com) Publisher: Ministry of.Data for the years were sourced from the New Zealand Health between Maori and non-Maori has long been recognised in New Zealand. .. Paul S. Tracking the Obesity Epidemic: New Zealand Australian and New Zealand Journal of Public Health Previous article in issue: 1 Ministry of Health. Tracking the Obesity Epidemic: New Zealand Hon. Mita Ririnui 6 December Speech Notes Launch of Tracking the Obesity Epidemic: New Zealand For New Zealand children aged 2 to 14 years in / One in five Tracking the obesity epidemic: New Zealand Wellington.1Ministry of Health. Tracking the obesity epidemic: New Zealand Ministry of Health, Wellington, New Zealand; Google Scholar. 2Sassi, F.obesity in New Zealand: cross-sectional analysis. Martin Tobias, Li-Chia Counties Manukau District Health Board, New Zealand. Tobacco use and obesity .. 3. Ministry of Health. Tracking the Obesity Epidemic. New Zealand .New Zealand rates of obesity and overweight have increased since the s, .. Tracking the Obesity Epidemic: New Zealand obesity, before exploring their prevalence in New Zealand children and young people using information from .. Tracking the Obesity Epidemic: New Zealand and for the Maori Population from It uses .New Zealand there are limited services for the diagnosis and treatment of sleep related problems. .. Tracking the Obesity Epidemic: New Zealand Fears of an 'obesity epidemic' have led to a growing focus on children's weight, diet . (Tracking the obesity epidemic: New Zealand , , p. ix).New Zealand secondary schools: a pilot study. Anthony Maher, Nick .. Tracking the obesity epidemic: New Zealand Public Health. Intelligence.A Literature Review of the Epidemiology of Type II Diabetes in New Zealand. Article (PDF ()). Tracking the obesity epidemic: New Zealand

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