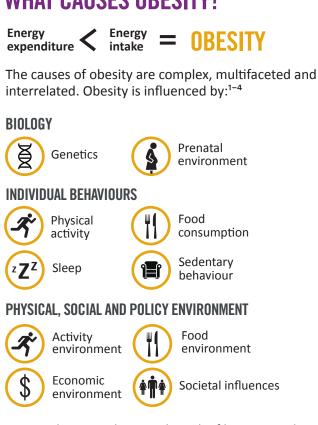


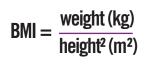
WHAT CAUSES OBESITY?



Factors that contribute to the risk of becoming obese begin before birth and extend across the life course.^{2,3}

HOW IS OBESITY MEASURED?

Obesity is often measured using **body mass index** (BMI).

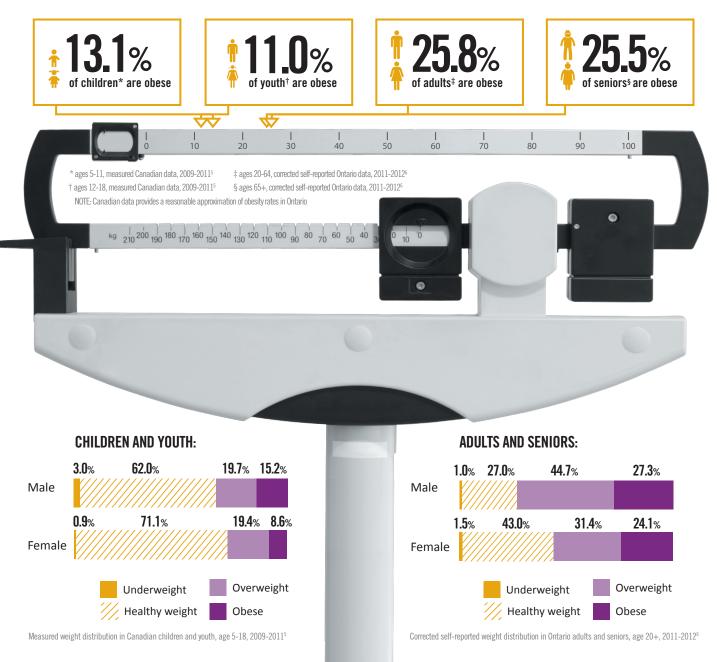


Underweight: <18.5 kg/m² **Normal:** 18.5-24.9 kg/m² Overweight: 25-29.9 kg/m² **Obese:** 30+ kg/m²

For children and youth, BMI-for-age is often calculated using sex-specific growth charts from the World Health Organization.

OBESITY A BURDEN ACROSS THE LIFE COURSE

A substantial proportion of the Ontario population – both adults and children – is obese, and an even greater proportion is overweight. This is a result of several decades of increase and cannot be attributed to just one cause. Obesity is a complex issue with a negative impact on the health and quality of life of Ontarians.



1. Public Health Agency of Canada and Canadian Institute for Health Information. Obesity in Canada: A joint report from the Public Health Agency of Canada and the Canadia; 2011. Available from: https://secure.cihi.ca/free_products/Obesity_in_canada_2011_en.pdf 2. Foresight. Tackling obesities: Future choices - project report. London, U.K.: Government Office for Science; 2007. Available from: http://www.publichealthontario.ca/en/eRepository/Addressing_Obesity_Children_Youth_Sept2013.pdf 4. Wardle J. Eating behaviour and obesity. Obes Rev. 2007;8 Suppl 1:73-5. 5. Statistics Canada. Canadian health measures survey. Cxcle 2 data tables - 2009 to 2011. Table 25: Distribution of the household nonulation aged 5 to 18. by body mass index norms based on direct measures - World Health Organization (WHO) system. by age and sex. Canada. 2009 to 2011. Ottawa. ON: Minister of Industry: 2012 Available from: http://www.statcan.gc.ca/nub/82-626-y/2012001/026-eng.pdf 6. Data source: Canadian Community Health Survey 2011/2012, Statistics Canada, Canada Share File, Distributed by Ontario Ministry of Health and Long-Term Care. 7. Ezzati M, Hoorn SV, Lopez AD, Danaei G, Rodgers A, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality and burden of disease attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality attributable to selected risk factors. In: Lopez AD, Mathers CD, et al. Comparative quantification of mortality attributable to selected risk factors. In: Lopez AD, et al. Comparative quantification of mortality attributable to selected risk factors. In: Lopez AD, et al. Comparative quantification of mortality attributable to selected risk factors. In: Lopez AD, et al. Comparative quantification of mortality attributable to selected risk factors. In: Lop Bank: 2006. Available from: http://www.ncbi.nlm.niib.gov/books/NBK11813/ 8. Konelman P. Health risks associated with overweight and obesity in childhood and adolescence on morbidity and premature mortality in adulthood: Systematic review. Int J Obes (Lond). 2011;35(7):891-8. 11. Griffiths LJ, Parsons TJ, Hill AJ. Self-esteem and quality of life in obese children and adolescents: A systematic review. Int J Pediatr Obes. 2010;5(4):282-304.

DISPARITIES IN OBESITY

Obesity rates are not consistent—disparities have been found in adult subpopulations. Obesity rates are higher in:⁶



Females from neighbourhoods with the highest material deprivation (28.0%), compared to the lowest (19.9%)



People born in Canada (28.7%), compared to people that immigrated in the past five years (13.2%)



People who have not completed high school (33.9%), compared to people with post-secondary education or more (25.7%)



People who identify as Aboriginal (38.2%), compared to people who do not (28.4%)

THE IMPACT OF OBESITY

Obesity in children and youth may lead to:^{3,7}

- Asthma
- Glucose intolerance and type 2 diabetes
- Obesity in adulthood
- Sleep apnea
- Orthopaedic complications

- Self-esteem and mental health-related issues



In addition, obesity in adults may also lead to:^{3,8-11}

- Cancer
- Hypertension
- Infertility and disrupted reproductive functioning
- Ischaemic heart disease and stroke
- Liver and gall bladder disease
- Metabolic syndrome
- Musculoskeletal disorders
- Premature mortality
- Respiratory disease
- Type 2 diabetes

For more information, visit publichealthontario.ca



otection and Prom Agence de protection et