

ACTA SCIENTIFIC WOMEN'S HEALTH (ISSN: 2582-3205)

Volume 7 Issue 8 August 2025

Editorial

Obesity in Adolescent Girls: A Looming Crisis with Physical, Social, and Psychological Ramifications

Shweta Rasaria*

Ph.D. Scholar, L.T. College of Nursing, S.N.D.T. Women's University, Mumbai, India
*Corresponding Author: Shweta Rasaria, Ph.D. Scholar, L.T. College of Nursing, S.N.D.T.
Women's University, Mumbai, India.

Received: July 01, 2025

Published: July 10, 2025

© All rights are reserved by Shweta

Rasaria.

Abstract

Obesity in adolescent girls has reached alarming proportions globally, raising serious concerns about long-term health, psychological well-being, and social integration. This editorial examines the multifaceted impact of obesity in this vulnerable population, with a focus on physical health consequences, social discrimination, and psychological burdens. An urgent call for integrated, gender-sensitive interventions is warranted.

Keywords: Adolescent Obesity; Girls; Physical Health; Psychological Impact; Social Stigma; Public Health; Intervention

Introduction

Adolescent obesity has emerged as one of the most pressing public health challenges of the 21st century. Globally, the prevalence of obesity in girls aged 10–19 has increased nearly tenfold over the past four decades.

According to the World Health Organization (WHO), the global prevalence of obesity among girls aged 10–19 has increased from around 1% in 1975 to over 6% in 2016, and continues to rise. In some high-income countries, adolescent obesity rates in girls exceed 15–20%.

This trajectory is particularly concerning given the profound physical, social, and psychological consequences that can persist into adulthood. For adolescent girls—already navigating the complexities of puberty, identity formation, and peer relationships—the implications of obesity are uniquely intense and multilayered.

Causes

Obesity in adolescent girls is multifactorial, resulting from complex interactions between biological, behavioral, psychosocial, and environmental influences.

Biological Causes of obesity are genetic predisposition Family history of obesity significantly increases the risk of obesity. Hormonal changes during puberty like estrogen promote fat storage, particularly in girls. Certain medical conditions like Polycystic Ovary Syndrome (PCOS), Hypothyroidism, Cushing's syndrome increases insulin resistance and promote fat storage in body. Behavioral & Lifestyle Causes includes Unhealthy diet comprise of high intake of processed foods, sugary drinks, fast food, Skipping breakfast or irregular meals. Emotional eating such as eating in response to stress, anxiety, or depression (comfort eating). Physical inactivity and Sedentary lifestyle consist of frequent use of TV, video games, phone which leads to decrease physical exercise. Poor or insufficient sleep disrupts metabolic hormones (leptin and ghrelin), leading to increased appetite. The environment in which an adolescent grows up significantly impacts their health behaviors: Family lifestyle and role modeling where parents' dietary patterns and activity levels strongly influence those of adolescents. Socioeconomic status in where lower-income families may have limited access to healthy foods or safe exercise spaces. School and neighborhood environment have great role in development of obesity as they lack of recreational facilities and physical education in schools. Easy availability of processed and fast foods around educational institutions promotes unhealthy eating.

Physical impact

The physical health effects of adolescent obesity are both immediate and long-term. Metabolic disorders such as type 2 diabetes, insulin resistance, dyslipidemia, and hypertension are now increasingly diagnosed in younger populations. Obese adolescent girls are also at greater risk of developing polycystic ovary syndrome (PCOS), which can impair fertility and exacerbate hormonal imbalances. Furthermore, excess weight places undue strain on the musculoskeletal system, increasing the risk of orthopedic issues, such as slipped capital femoral epiphysis and knee injuries, which may hinder physical activity and perpetuate a cycle of inactivity and further weight gain.

Moreover, adolescence is a critical period for bone mass accrual and overall physiological development. Obesity may alter hormonal regulation and disrupt normal pubertal progression, potentially leading to earlier menarche and associated reproductive health complications. These conditions set the stage for future chronic illnesses and diminished quality of life if not addressed early.

Social impact

The stigma associated with obesity is particularly damaging in adolescent girls. In school and social environments, overweight and obese girls frequently encounter teasing, bullying, and social exclusion. These negative experiences often lead to decreased participation in school activities, sports, and peer-related events—further isolating them from positive social development.

In many cultures, idealized body standards—often reinforced by media—perpetuate unrealistic expectations for adolescent girls. This can result in poor self-perception, body dissatisfaction, and a compromised sense of self-worth. Moreover, weight bias from peers, educators, and even healthcare professionals can compound feelings of alienation and reduce trust in support systems designed to help.

Psychological impact

Perhaps the most profound yet underappreciated impact of adolescent obesity lies in the psychological domain. Numerous studies have shown a strong correlation between obesity and increased rates of depression, anxiety, and low self-esteem in girls. Disordered eating patterns, such as binge eating or chronic dieting, often emerge as coping mechanisms, further exacerbating the issue.

Adolescence is a critical period for the development of identity and mental health resilience. Girls who internalize negative weight-related experiences may carry these scars into adulthood, increasing their risk of substance abuse, suicidal ideation, and persistent mental health challenges.

Furthermore, obesity can negatively influence academic performance, not only due to increased absenteeism from obesity-related illnesses but also from diminished classroom engagement stemming from psychological distress.

Conclusion and Call to Action

The physical, social, and psychological ramifications of obesity in adolescent girls demand an urgent and coordinated response. Interventions must be holistic, addressing not only dietary and physical activity patterns but also the emotional and social land-scapes in which these girls live. Schools, families, and healthcare systems must collaborate to foster environments that are inclusive, body-positive, and conducive to long-term health.

Early intervention, health education, counseling, and gendersensitive policies are essential to combatting this epidemic. Most importantly, adolescent girls must be empowered to define health on their own terms—free from stigma and guided by compassion, science, and support [1-10].

Bibliography

- World Health Organization. "Obesity and overweight". Geneva: WHO; (2020).
- 2. Centers for Disease Control and Prevention. "Childhood obesity facts". Atlanta: CDC; (2023).
- Kumar S and Kelly AS. "Review of childhood obesity: From epidemiology, etiology, and comorbidities to clinical assessment and treatment". Mayo Clinic Proceedings 92.2 (2017): 251-265.
- Biro FM and Wien M. "Childhood obesity and adult morbidities". The American Journal of Clinical Nutrition 91.5 (2010): 1499S-1505S.
- Reilly JJ and Kelly J. "Long-term impact of overweight and obesity in childhood and adolescence on morbidity and premature mortality in adulthood: a systematic review". *International Journal of Obesity* 35.7 (2011): 891-898.

- Dietz WH. "Health consequences of obesity in youth: child-hood predictors of adult disease". *Pediatrics* 101.2 (1998): 518-525.
- 7. Daniels SR., *et al.* "Overweight in children and adolescents: pathophysiology, consequences, prevention, and treatment". *Circulation* 111.15 (2005): 1999-2012.
- Ogden CL., et al. "Trends in obesity prevalence among children and adolescents in the United States, 1988-1994 through 2013-2014". JAMA 315.21 (2016): 2292-2299.
- Griffiths LJ., et al. "Self-esteem and quality of life in obese children and adolescents: a systematic review". International Journal of Pediatric Obesity 5.4 (2010): 282-304.
- Sahoo K., et al. "Childhood obesity: causes and consequences". Journal of Family Medicine and Primary Care 4.2 (2015): 187-192.