Eating disorder among adolescents: A cause of concern

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Abstract
Eating Disorders are a serious group of psychiatric disorders with a high level of impairment. They involve a poor body image, abnormal eating behaviours, overemphasis of the importance of weight and shape, and the use of extreme weight control behaviours. This paper presents a review of research done on adolescent eating disorders and the probable factors underlying it.

Keywords: Eating Disorder, Body Image, Adolescents, Body Mass Index (BMI)

1. Introduction

2. Types of Eating Disorder
The Diagnostic and Statistical Manual of Mental Disorders fourth edition (DSM-IV) 27 recognizes three clinically diagnosable Eating Disorders. These are Anorexia Nervosa (AN), Bulimia Nervosa (BN), and Eating Disorder Not Otherwise Specified (EDNOS).

2.1 Anorexia Nervosa
Anorexia Nervosa (AN) involves having a body weight that is 15 percent lower than normal, a relentless AN involves having a body weight that is 15 percent lower than normal, a relentless pursuit of thinness, a disturbed view of one’s actual shape and weight, a lack of menstruation among girls and women, and an intense fear of gaining weight or becoming fat. Females with AN typically overvalue thinness and a low body weight, while males with anorexia are more likely to value and strive toward a lean body shape that is muscular and low in fat.

2.2 Bulimia Nervosa
BN is characterised by recurrent episodes of binge-eating, described as consuming a very large amount of food within a short period of time with an accompanying sense of loss of control, and regular use of inappropriate behaviours designed to compensate for binge eating. These behaviours include fasting, vomiting, laxative and diuretic misuse, enemas, diet pills, and compulsive exercising.
2.3 Eating Disorder Not Otherwise Specified

Eating Disorder Not Otherwise Specified (EDNOS) is a diagnostic category for individuals who present with other extreme disturbances in eating behaviours and body image, that are sufficiently distressing and disabling as to warrant classification as a psychiatric condition. This category “captures” individuals who do not meet full criteria for AN or BN, but nonetheless evidence disordered eating behaviours to a clinically significant degree.

3. Eating Disorder and Media

Media presentation of thin image is a major contributor to current high incidence of body dissatisfaction and eating disorder in adolescents. Television advertising and soap opera generally represent the hero and heroine as slim, young and beautiful. Adolescents are very much influenced by watching these advertisements on television and mostly they try to keep their body slim. Groesz et al. (2002) [14] found that the greatest decline in body satisfaction occurred in girls under the age of 19 following exposure to overtly thin media images. Recent studies indicate that current diet, exercise, and beauty trends displayed in reality television shows and social media outlets can contribute to unhealthy adolescent body perceptions. Tiggemann and Slater (2013) [18] found that among 13–15-year old girls, body image concerns increased with time spent on the Internet and Facebook usage. Meier and Gray (2014) [25] further identified that the time spent on Facebook was less important than the degree of exposure to appearance-specific media such as photo sharing, which was positively associated with body image concerns. These findings suggest that in addition to print media, current television and Internet trends are sources of promoting unrealistic and so-called ideal images to adolescents.

4. Factor of age and gender on Eating Disorder

A substantial amount of research has shown that females are more prone to eating disordered behaviour than males (Borchert and Heinberg 1996). Mishra and mukhopadhyay (2010) [31] reported that girl often opted for skipping of meals to control their body weight. Some of them reported the habit of snacking between main meals. The same study revealed that girls who remained dissatisfied with their body weight were more inclined to diet. Adolescents after transition from high school to college environment face many new environmental factors which influence them in a different ways. Many of these factors contribute to the development and exacerbation of disorder eating behaviors (Vohs, et al. 2001) [19]. Eating disorders are more common at the age of 25 or below and mainly occur among females (Deering, S, 2001) [10]. However, studies showed that eating disorders are increasing in young males (Sepulveda, et al. 2008, Lavender, et al. 2010) [33, 23]. Gardner (1999) [28] found that Females show greater discrepancy between their perceived body size and their ideal body size compared to males. Moreover, concern over body image is more common among adolescent females than the other age groups (Bruch, 1981) [15].

5. Eating Disorder and Socio-economic status

Eating disorder is found among adolescent girls of higher socioeconomic status (Neumark, et al. 2008) [9] on the other hand, Jones et al. (2001) [17] observed that socioeconomic status (SES) was not significantly associated with disturbed eating behaviours in a school-based study in Ontario. Similar result has been found by Rogers et al. (1997) [21]. Dev et al., (2009) [11] found that overweight was more frequently found among urban female as compared to rural female adolescents because the economic status of the urban adolescents was higher than their rural counterparts. Furthermore, they also found that urban female adolescents have the perception of being overweight from the actual BMI value and these youths were beginning to be thin or too thin body image. Moreover, many normal healthy adolescents compared their image with thin women portrayed in the media. According to Monir et al. (2010) [26] eating disorder is more prevalent among overweight-obese adolescents of high social class and they conclude that social background, obesity, negative body image, depression and teasing are the main risk factors for developing eating disorder.

6. Eating Disorder, BMI and Body Image

According to the World Health Organization (WHO), obesity is defined as abnormal or excessive weight that may cause serious health problems (http://www.who.int/, 2015). There are more than 1.4 billion of overweight adults and more than 40 million overweight children under the age of 5 worldwide. Babio et al. (2009) [10] in a study among adolescents aged 12 -18 years showed that the increasing risk of eating disorders was positively associated with body mass index (BMI) and fat mass (FM) percentage and negatively associated with waist-to-hip ratio. Body image is a multidimensional construct that involves the perception of body size, feelings, beliefs and behaviors toward physical appearance (Laus MF, et al. 2011, Lepage ML & Crowther JH, 2010) [22, 24]. According to White & Halliwell (2010) [40], body image consists of two dimensions: perceptive and attitudinal, and the latter includes body dissatisfaction. The latter, in turn, relates to discontentment with weight and physical appearance. Body dissatisfaction directly influences inappropriate eating behaviors, such as food restriction and the use of pharmaceutical drugs that promote weight loss (Keery H, 2004) [18]. Negative body image has been a central diagnostic feature for all clinical eating disorders (ie, anorexia nervosa, bulimia nervosa, binge eating disorder) as outlined by the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5)

7. Eating Disorder and Dieting

A number of studies involving clinical samples have found that the majority of individuals with eating disorders report that they started to diet before they initiated their disordered eating behaviors (Bulik CM, et al. 1997, Fairburn CG and Cooper PJ, 1984) [5, 12]. Further evidence of the association is provided by prospective studies within community samples of adolescents. Among adolescents, self-reported dieting has been shown to predict increased risk of disordered eating behavior (Stice E, and Agras WS. 1998, Field, AE., 1999, Stice E. A. 2001) [34, 3, 35]. Chugh and Puri (2001) [29] reported that weight concern and dissatisfaction over body weight were prevalent among overweight adolescent girls. Eating behaviours like skipping meals, eating out and snacking were common among these adolescent girls. Augustine and Poojara (2003) [30] reported that more than half of the adolescent girls wanted to lose body weight. Results showed that weight loss plans among the study groups included exercise (21%), followed by meal skipping (20%), starvation (16%), binging eating (6%), and consumption of diet pills (2%) and the most commonly skipped meal was breakfast.
8. Conclusion
Adolescence is a critical period for developing Eating Disorders them because of the various social, physical, and psychological changes occurring between the 13 to 18 years of age. The relationship between eating disorder and body image is complex, such that additional variables must be considered when explaining this association, including Body Image, Media effect, socio economic status, age, gender, weight-related pressures and concerns etc.

9. References
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