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Food for Comfort: A Short Narrative Review on Eating Behaviour and Obesity

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Abstract
The World Health Organization revealed that worldwide obesity has tripled, with 1.9 billion adults categorised as overweight and 650 million adults classified as obese. The increase in body mass presents public health challenges due to the poor health outcomes of those who are overweight and obese. A computerised literature search was performed using Scopus, PubMed and Google Scholar with keywords ‘eating behaviours, ‘eating habits’, ‘food consumption’, ‘food choice’, ‘food preference, ‘body mass index’, ‘overweight’ and ‘obesity’. Titles and abstracts of potentially relevant articles published in English between 2010 and 2020 were screened. The objective of this review was to identify the contribution of eating behaviour on obesity among university students. Studies were included solely based on relevance to the research review objective. The included papers were grouped based on content and methodology of cross-sectional studies which examined the relationship between eating behaviour and obesity among university students. The reviews on past research focused on eating behaviour and obesity among university students since an abundance of literature demonstrates that most students gain weight during the university life. Determining the extent to which psychological aspects contribute to the increasing worldwide obesity pandemic is critical for improving interventions, policies and practices.

Introduction
The importance of food is obvious, as it is essential for survival. Individuals’ food consumption and selection on a daily basis are usually affected by their own motivations (Phan & Chambers, 2016) and environments (Funk et al., 2021). Healthy eating behaviour by consuming nutrient-dense food is crucial as it affects individuals’ well-being and lifestyle rather than merely helping them survive day-to-day life. In contrast, unhealthy eating behaviours such as consuming nutrient-deficient food, skipping meals, and a lack of timely diet are understood to cause nutritional deficiencies and various health problems (Kabir et al., 2018).

Nowadays, food is no longer solely a source of survival. It has increasingly become a matter of concern due to the possibility of diseases resulting from unhealthy eating behaviour. The
prime reason for such concern is the growing epidemic of obesity resulting from the obesogenic environment with plenty of cheap and high-calorie foods available at any place, any time (Llewellyn, 2018). It is possible that consuming a large amount of unhealthy food, like fast food or junk food, and liquid calories, such as sweetened beverages and sugary soft drinks, is detrimental to one’s health since it will result in obesity which in turn contributes to serious disease, reduced quality of life and greater risk of mortality (Upadhyay et al., 2018). Obesity is a serious health issue that goes beyond an attractive physical appearance. It is a life-threatening medical condition wherein an individual has excess body fat and a body mass index (BMI) greater than or equal to 30 kg/m² (Shabana & Hasnain, 2016). More concerning, in 2016, the World Health Organization revealed that worldwide obesity has tripled, with 1.9 billion adults categorised as overweight and 650 million adults classified as obese (World Health Organisation, 2016). A high number of children and adolescents are also affected, with 41 million children under the age of 5 and 340 million of those aged 5 to 19 years who had become overweight or developed obesity (World Health Organisation, 2016). The increase in body mass presents public health challenges due to the poor health outcomes of those who are overweight and obese. Obese individuals have to deal with various health problems, such as diabetes, hypertension and heart disease, that may lead to poorer health conditions and shorter life expectancies than normal-weight individuals (Nagai et al., 2012).

Scope And Methodology of the Review
The bibliographic search strategy focused on articles published in peer-reviewed, English language journals was completed by a single researcher and the results were reviewed by the other members of the research team. A computerised literature search was performed using Scopus, PubMed and Google Scholar with keywords ‘eating behaviours, ‘eating habits’, ‘food consumption’, ‘food choice’, ‘food preference, ‘body mass index’, ‘overweight’ and ‘obesity’. Titles and abstracts of potentially relevant articles published in English between 2010 and 2020 were screened. The studies were included solely based on relevance to the research aim to understand the context of current of eating behaviour that underlie the development of obesity in university students. The included papers were grouped based on content and methodology of cross-sectional studies which examined the relationship between eating behaviour and obesity among university students.

Obesity—A Multifactorial Etiology Other Than Genetic
The underlying cause of obesity is multifaceted in etiology, involving genetic, cognitive, behavioural and environmental factors (Todd et al., 2015). Understanding what causes obesity is becoming even more crucial in light of the current rise in its prevalence. At the most basic level, an individual will only become obese if their calorie intake exceeds their calorie expenditure over an extended period of time, resulting in a chronic positive balance in the body. There are vast amounts of research that have been conducted pertaining to the influences of genetics on obesity. The concept of a hereditary factor to obesity has been recognised for a long time, with evidence of familial variation in obesity being published as early as 1923 (Elks et al., 2012). However, although heredity plays a role in obesity, genes are not destiny, and a healthy environment could help offset individuals’ genetic susceptibilities to obesity (Kim, 2020).

Today, much concern has been given to the “nurture” aspects of obesity, including psychological aspects, to understand its onset. Determining the extent to which psychological
aspects contribute to the increasing worldwide obesity pandemic is critical for improving interventions, policies and practices. This overview of past research provides a summary of the current evidence, emphasising determining the relative relevance of nurture issues in particular on eating behaviours contributing to the development of obesity. The reviews on past research focused on eating behaviour and obesity among university students since an abundance of literature demonstrates that most students gain weight during the first year of university life (Beaudry et al., 2019). The eating behaviour may evolve over the university years due to less parental involvement (Fedewa et al., 2014). Furthermore, the failure of university students to cope with the new environment and associated stressors can lead to unhealthy eating behaviours such as excessive alcohol consumption and stress-related over-eating (Leonard et al., 2015). The contribution of eating behaviour to the onset of obesity among university students is discussed in the following sections.

**Nurture: The Contribution of Eating Behaviour Influences on Obesity**

Unhealthy eating behaviours among undergraduate university students have been linked to the excessive consumption of calorie-dense foods, which leads to obesity (Kabir et al., 2018). In Iraq, for example, a study was undertaken to determine the relationship between being overweight or obese and eating behaviour among a total of 111 university students. Among the various eating behaviours, high-calorie-dense foods are thought to be one cause of obesity, particularly when large portion sizes are consumed regularly. This study also revealed that behaviours including a diet high in fatty foods, snacking, and eating quickly have all been linked to an increased prevalence of obesity (Sahib, 2016). Furthermore, a study conducted by Yousif et al (2019) in Sudan involving 216 medical students revealed a significant link between eating behaviours and obesity similar to previous work. Most of the research participants reported unhealthy eating behaviours, where nearly half of the students were uncontrolled eaters (45.8%) and emotional eaters (25.5%). Another study was undertaken to identify eating behaviour involving fast food consumption among female university students in Saudi Arabia. The findings revealed a strong link between fast food consumption frequency and BMI. 56% of the students who eat fast food two or more times a week were obese, putting these students at risk for many chronic diseases related to high fat intake (Al-Otaibi & Basuny, 2015). The same results were found in research involving 398 students in Alexandria, Egypt, conducted to determine the incidence of obesity and their eating behaviours. Students completed a self-reported questionnaire on their eating, drinking and smoking behaviours, as well as their weight and height. The results indicated that 28.9% of the students were obese, while 11.8% were overweight. The study discovered that obesity and being overweight were prevalent among the participants due to the detrimental eating behaviours of irregular and infrequent meals, low vegetable consumption and frequent snacking (Genena & Salama, 2017).

**Conclusion**

The research review shows how university students engaged in unhealthy eating behaviours, such as increased consumption of sugar-sweetened beverages, junk foods that are poor in nutrients and fast food, which may be due to a lack of parental monitoring and greater autonomy over food intake. The scenario of a decrease in healthy eating behaviour helps us to understand the current state of universities students’ physical well-being and why most university students fail to meet the standard dietary recommendations.
Moreover, many obesity research scientists agree that the increasing number of people with obesity during the past few decades is because of major changes in their surroundings (Hurt et al., 2010). Lifestyle choices around what a person’s eating behaviours are like and their level of physical fitness have an important role in causing obesity. Surprisingly, many individuals still turn to food and indulge in unhealthy eating behaviour as a coping technique to deal with situations such as stress, boredom, worry, happiness, sadness or anger. Consequently, they devour a massive amount of food in a short period of time that the normal person would not consume in the same length of time, eventually resulting in being overweight, obesity and other diseases (Gan et al., 2018).

Limitation
This review summarises the literature on eating behaviour influences on obesity among university students. A short narrative approach was favoured to understand the issues over a systematic search strategy. While this has benefits in permitting a breadth of evidence to be included, the absence of a systematic search strategy introduces the potential for bias in the selection of studies. There is substantial literature on this topic, and it is recommended to read it widely to gain a fuller picture of the different approaches that have been taken to study the causes of the obesity epidemic and the various strategies undertaken in an effort to curtail the problem.

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