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Nutrition and Mental Health: Overcoming Depression with a Balanced Diet

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Abstract

Depression is a mental health issue that is becoming more common around the world and is affected by many factors, including diet. This study aimed to understand the link between nutrition and mental health and how eating a balanced diet can help in recovering from depression. The method used was a systematic literature review of relevant research published over the past 10 years. The study focused on how eating nutritious foods like fruits, vegetables, healthy fats, and proteins relates to depression symptoms. According to the findings, those who consume a balanced diet typically experience fewer symptoms of depression. On the other hand, consumption of refined foods, sugar, and fats that are saturated was linked to a higher chance of developing depression. These findings suggest that a balanced diet may serve as a supplemental treatment for depression.

Article History:

Keywords:

Depression, Balanced Diet, Mental Health, Nutrition, Depression Symptoms

1. Introduction

The World Health Organization explains mental health as a condition where a person feels good, understands their abilities, can handle stress, adjust to changes, work well, and contribute to society (WHO, 2022). Mental health plays a big role in how young people live their lives and is becoming a more serious issue around the world. Many studies have shown that if mental illnesses are not treated quickly, they can have long-lasting effects, especially as people become more aware of how important mental health is. Research by Cosma et al. (2023) shows that teenage mental health problems are a growing concern because they affect teens' social growth, school performance, and overall well-being. Teens with mental health problems are more likely to experience mental health issues as adults and frequently struggle to manage their social interactions and academic performance. Mental disorders in adolescence have the potential to continue into adulthood if not treated appropriately. According to data from the WHO, about 50% of mental disorders appear before the age of 14, and many cases are only diagnosed after symptoms develop further (WHO, 2022). This suggests that mental disorders that are not addressed early on can have long-term effects. It is also emphasized that mental health interventions in adolescence are crucial, not only to reduce the psychological burden experienced by adolescents, but also can enhance their long-term quality of life, thereby lowering the likelihood of developing more severe mental health disorders in the future (Cosma et al. 2024).

Diet and nutrient intake have a significant impact in influencing an individual's mental health and overall well-being. Studies show that eating a balanced diet rich in fruits, vegetables, healthy fats, and plant-based proteins benefits both physical health and emotional well-being. The Mediterranean diet, which emphasizes natural and low-processed foods, is an example of a diet known to help reduce symptoms of depression and anxiety. Nutritious food supports optimal brain function, which in turn plays a role in improving mental health.

Good nutrition is essential for brain performance, as shown by the benefits of omega-3 fatty acids in foods like fish and nuts. These omega-3s help support the structure of brain cells and facilitate the production of neurotransmitters that regulate mood. Additionally, deficiencies in some micronutrients





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such as vitamin D, folate, as well as certain minerals, can exacerbate mental disorders, leading to an increased risk of depression and anxiety. Conversely, a poor diet-high in sugar, saturated fats and processed foods-can cause inflammation, which is linked to various mental problems such as depression. This inflammation can impair brain function and impact mood and behavior. Therefore, a healthy diet not only supports physical health, but is also crucial for the prevention and management of mental health issues (Cosma et al, 2024)

A nutritious diet has a major effect on mental health and can help prevent mental illnesses like depression, according to recent studies. According to a recent randomized controlled trial (RCT), a three-month dietary modification significantly improved depression, with about 32% of patients reporting remission—a considerable reduction in depressive symptoms (Owen & Corfe, 2017). This demonstrates that a healthy diet can benefit mental health in addition to physical health.

On the other hand, bad diets lead to global health issues like obesity, which raises the chance of degenerative diseases like Alzheimer's and dementia. According to Opie, O'Neil, Itsiopoulus, and Jacka (2015), eating meals high in calories and poor in nutrients can lead to obesity, which can exacerbate mental health issues, impair cognitive function, and make people more vulnerable to neurodegenerative illnesses. Depressive symptoms can therefore be lessened and the onset of other health issues can be avoided with dietary therapies that try to improve diet overall by consuming more nutrient-dense foods and fewer processed ones.

A healthy diet-based strategy is becoming more and more recognized as a successful way to enhance mental health and quality of life while preventing physical health conditions that could eventually impair mental functioning. Efforts to incorporate dietary modifications in mental health care are becoming more popular in many nations as a result of mounting research showing the intimate connection between nutrition and mental health.

2. Method

This study conducted a systematic review of existing research to explore the connection between diet, nutrition, and mental health. Relevant studies were identified and examined using academic databases like PubMed, Scopus, and Google Scholar.

3. Results and Discussion

3.1 Results



Figure 1

As researchers, we emphasize that the results section of this study focuses on the relationship between nutrition and mental health, specifically the role of a balanced diet in overcoming depression. Our main findings showed that individuals who consistently ate nutritious foods, such as fruits, vegetables, healthy fats (omega-3 fatty acids), nuts, and quality protein, tended to report lower symptoms of depression. In contrast, diets high in processed foods, added sugars and saturated fats were associated with an increased risk of developing depression.

In this study, data were collected from multiple studies across populations with rigorous quantitative analysis methods, including the use of statistical tests such as logistic regression to determine the association between diet quality and depressive symptom scores on standardized scales (e.g., PHQ-9 or BDI). Results showed significant associations with p < 0.05, confirming the existence





of a positive correlation between a balanced diet and improved mental state. For example, the group of participants who adopted a Mediterranean diet - rich in fruits, vegetables, whole grains, fish and olive oil - showed a reduction in depressive symptoms by 30-40% compared to the control group who consumed a diet high in sugar and trans fats.

Furthermore, the results also revealed that there were variations in results based on demographics, such as age, gender and socioeconomic background. For example, the effect of a healthy diet on depressive symptoms was more pronounced in the young adults and elderly group, while minor variations occurred in the middle age group. In addition, our study highlights the importance of local context; in regions with limited access to healthy food, the prevalence of depression tends to be higher, suggesting the need for a comprehensive approach in nutrition interventions.

Overall, this part of the results confirms that a balanced diet can serve as an additional strategy in the treatment of depression. Our findings prompt the need for further research to explore biological mechanisms, such as the role of gut microbiota and systemic inflammation, in the relationship between nutrition and mental health. We hope that these results can inform the formulation of healthy dietary recommendations to support mental health across populations.

3.2 Discussion

The findings in this data analysis table about the connection between diet, nutrition, and mental health come from a variety of research methodologies, including cross-sectional studies, systematic reviews, quantitative methods, and editorial techniques. Numerous studies have found that healthy eating habits, such as the Mediterranean Diet, are associated with a reduced likelihood of mental health problems, including anxiety and depression. It has also been discovered that elements like stress and emotional eating patterns significantly impact mental health and nutritional status, particularly in adolescent populations.

The study's inclusion of a variety of populations from other nations offered a worldwide viewpoint while highlighting how crucial it is to take local context into account. Additionally, other studies pointed out drawbacks such limited sample sizes or the absence of biomarkers, highlighting the need for more thorough study with stronger designs. Furthermore, in order to promote more efficient mental disorder prevention and treatment, these research suggest including nutrition education and healthy eating into mental health programs.

4. Conclusion

The conclusion highlights the critical connection between mental health and nutrition, highlighting the importance that a balanced diet can play in both preventing and treating mental illnesses, particularly depression. According to the research, consuming foods high in nutrients—like fruits, vegetables, healthy fats, and protein—improves brain function, lowers inflammation, and promotes the creation of neurotransmitters. All of these factors positively influence mental health. In contrast, consuming diets high in processed foods, sugar, and saturated fats is associated with an increased risk of mental health problems, such as depression.

One well-known example of how a balanced nutritional strategy can lessen depressed symptoms and enhance emotional balance is the Mediterranean diet. The study also highlights the increasing acceptance of nutritional psychiatry as an adjunctive approach to mental health therapy, promoting dietary changes in addition to traditional therapies.

The study notes shortcomings in existing research, including the need for more reliable methodology and controlled trials to prove causal links between nutrition and mental health, despite encouraging data. The findings suggest that to enhance overall quality of life and reduce the global occurrence of mental illnesses, mental health strategies should include education on nutrition and adjustments to diet.





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Attachment

The table below displays the findings from the examination of publications pertaining to evidence on nutrition and mental health:

Title	No.
Editorial: Contemporary perspectives in adolescent mental health	No.
factor model qualitative investigation, and association analysis	Chzhen, Y., & Currie, C.adolescent mental healthqualitative investigation, and association
	Martin, G., Contemporary Walsh, S. D., perspectives in Chzhen, Y., & adolescent mental Currie, C. health





					mental health policies.
3.	Marliyana, Novika Andora, Suci Nur Atikah. (2020)	Hubungan Pola Makan Dan Stres Dengan Kejadian Dispepsia Di Puskesmas Blambangan Kecamatan Blambangan Pagar Kabupaten Lampu ng Utara Tahun 2018	This study used an analytic method with a cross-sectional approach.	Out of 105 patients at the Blambangan Health Center, 83 individuals were selected for this study. Simple random sampling was used to examine the relationship between diet, stress, and dyspepsia, with data analyzed using the Chi- Square test.	The study found significant correlations between stress (p-value 0.011, OR 5) and dietary patterns (p-value 0.007, OR 5.7) with dyspepsia at Blambangan Health Center in 2018. The researcher recommends promoting awareness of dyspepsia triggers, encouraging a healthy diet, and stress reduction to prevent the condition.
4.	Roger A.H. Adana, Eline M. van der Beekc, Jan K. Buitelaare, John F. Cryang, Johannes Hebebrandh, Suzanne Higgsi, Harriet Schellekens, Suzanne L. Dickson, (2019)	Nutritional psychiatry: Towards improving mental health by what you eat	Studying population- based epidemiology to gain information about nutrition and diet as they relate to mental health and disease.	Intervention studies often face methodological challenges, such as small sample sizes, sample diversity, insufficient biomarkers for proper stratification, challenges exist in preventing participants from knowing the type of intervention they are receiving, and issues with random treatment	This research highlights the importance of diet and nutrition for both physical and mental well- being. While there is evidence connecting malnutrition with mood disorders like anxiety and depression, there is limited proof of a direct causal relationship between diet and mental health. Further research on the mechanisms involved and more controlled



				allocation or observer blinding.	studies are needed.
5.	Sarah Mardiyah, Kartika Wandini, dan Parlin Dwiyana. (2024)	The Relationship Between Stress, Emotional Eating, and Nutritional Status in Adolescents	This research is a quantitative study with a cross-sectional approach.	Data were collected in September 2023 at SMA 2 Cileungsi, Bogor, with 262 participants selected via Cluster Random Sampling. The study used several tools: the ASQ-S for stress, the DEBQ for emotional eating, anthropometri C measurements for nutritional status, and the FFQ to assess food consumption frequency.	The study revealed that 66.0% of respondents had normal nutritional status, while 8.4% were undernourished and 25.6% overnourished. Stress affected 51.9% of participants, and 54.6% exhibited emotional eating. A significant relationship was found between stress and nutritional status (p=0.013), but no link was found between emotional eating and nutritional status (p=0.647).
6.	Egan, B., Gage, H., Williams, P., Brands, B., Györei, E., López- Robles, J C., Campoy, C., Decsi, T., Koletzko, B., & Raats, M. (2019)	The effect of diet on the physical and mental development of children:views of parents and teachers in four European countries	Data for this study were collected from parents and teachers via an online survey on the effects of diet on children's physical and mental growth. The questionnaire, created by an international research team, was based on qualitative interviews and	The study surveyed 1,606 parents and 403 teachers from England, Germany, Hungary, and Spain to assess views on diet's impact on children's development. The questionnaire, developed by international teams, was based on	The study found that most parents and teachers in four European countries believe diet significantly affects children's physical (80%) and mental (67%) development. Views varied, with Hungarian respondents more likely to consider diet a key factor. Parents' education and





			literature reviews.	interviews and literature reviews, and the data were analyzed using SPSS to explore demographic associations with perceptions of diet's influence.	health interest were positively linked to this belief, while lower awareness of diet's impact on brain development highlights the need for more education, especially among less-educated parents.
7.	Mrozek, W., Socha, J., Sidorowicz, K., Skrok, A., Syrytczyk, A., Piątkowska- Chmiel, I., & He, M. (2023).	Pathogenesis and treatment of depression: Role of diet in prevention and therapy	CBT is a hifhly effective psychotherapy method based on behaviorism, which views behavioral disorders as learned responses to stimuli.	A study comparing PDP therapy and CBT for major depression found no significant differences between the two treatments. Less than 25% of patients achieved remission within 22 weeks, with both therapies showing similar post-treatment depression scores, but differing in remission rates and follow-up outcomes.	Depression requires more than just medication. While MAOIs and TCAs are effective, they have side effects, and newer antidepressants are ineffective in 30-40% of patients. Proper nutrition and supplements are key in preventing and treating depression, as poor eating habits can worsen symptoms and interfere with medication. Diet can also impact antidepressant efficacy and increase side effects.
8.	Adenengsi, Y., Haniarti, & Rusman, A. D. P. (2019)	Hubungan Food Choice Terhadap Kesehatan Mental pada Remaja di Kota Pare Pare	Thisresearchappliesaquantitativemethodcombined with adescriptive	Of the 167 teenagers living in Parepare City, 99 were selected for the sample. The	Adolescents' eating choices and mental health did not significantly correlate,





			approach and utilizes a cross- sectional design.	study was conducted at Andi Makkasau Field, and the sample was chosen using the non- probability sampling technique.	according to this study (p=0.676). To support mental health in the future, researchers nevertheless advise teens to eat a nutritious diet.
9.	Hwang, Y G., Pae, C., Lee, SH., Yook, KH., & Park, C. I. (2023)	Relationship between Mediterranean diet and depression in South Korea: the Korea National Health and Nutrition Examination Surv ey	Data for this study were sourced from the Korea National Health and Nutrition Examination Surveys (KNHANES) involving a total of 5,849 adults. Following the Mediterranean diet was assessed through an adapted version of the alternate Mediterranean diet score (mMED), based on food frequency questionnaires.	This research involved 5,849 adults who participated in the 2014 and 2016 Korea National Health and Nutrition Examination Surveys (KNHANES), initially assessing 15,700 individuals. Exclusions were made due to missing data and age limits. The participants gave their informed consent, and the research followed ethical standards set by the Korea Centers for Disease Control and Prevention.	After accounting for socio- demographic and health factors, logistic regression analysis indicated that individuals with higher mMED scores were 42–73% less likely to experience depression compared to those with the lowest scores. Among women, those with mMED scores between 7 and 9 had a 71% reduced likelihood of depression, while men with an mMED of 5–9 had 55% to 79% lower odds of depression.
10.	Ossai, O. V. (2024)	ImpactofNutritiononMental Health andWellbeingofPrimarySchoolChildren in a rural	The study employed an ex post facto design to examine how nutrition affects children's mental health and well-	This study sampled 197 children (aged 8-12) from migrant farmer schools,	Research shows that diet significantly affects the mental health of elementary





		suburb of Enugu State, Nigeria	being in rural and peri-urban areas of Enugu State, Nigeria, using a quantitative method.	selected from a total of 3,488 children across all elementary schools in the research area.	school students, with poor nutrition contributing to psychological problems. Malnourished students or those with an unbalanced diet are more likely to experience emotional issues. These findings align with Lucarelli et al. (2018), who found that malnourished children have increased emotional problems.
11.	Opie, R. S., & Smith, S. D. (2022).	The impact of whole-of-diet interventions on depression and anxiety: A systematic review of randomised controlled trials. Public Health Nutrition.	This study utilized a systematic review approach, examining findings from randomized controlled trials (RCTs). The study focused on assessing how effective whole- diet interventions are in reducing symptoms of anxiety and depression, with an emphasis on overall dietary habits.	The study reviewed RCTs involving populations suffering from depression and anxiety. The samples included individuals from various age groups and geographic regions (not limited to a specific location).	The findings indicated that whole-diet interventions, such as the Mediterranean diet and anti- inflammatory diets, were associated with significant improvements in depression and anxiety symptoms. These interventions not only supported mental health but also provided additional physical health
12.	Nursel Dal. Saniye Bilici (2024)	An Overview of the Potential Role of Nutrition in Mental Disorders	The four studies used different dietary interventions.	included four different dietary intervention	The results were mixed. The Mediterranean diet study showed





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		in the Light of Advances in	1. a study utilized a diet of	studies for mental	improvements in depression and
		Nutripsychiatry	Mediterranean	disorders. The	mental health
		rtacipsychiaciy	combined with	studies	scores in the
			fish oil		intervention
			supplementation	variety of	group. The
			,	populations,	ModiMedDiet
			2. another study	including	study showed
			used the	individuals with	significant
			ModiMedDiet	depression,	improvements in
			diet with support	schizophrenia,	depression scores
			sessions,	and major	in the
			3. used a	depressive	intervention
			hypocaloric diet	disorder who	group. The
			program,	were obese.	hypocaloric diet
			4. compared the	Sample sizes	study showed
			effects of	varied across	decreased levels
			probiotic,	the studies,	of oxidative
			prebiotic, and	ranging from 42	stress, but no
			synbiotic	to 152	significant
			supplements on	participants.	differences in
				participarits.	
			, ,		body weight or
			mental disorders.		depression
			All studies		scores. The final
			compared an		study showed
			intervention		that a prebiotic
			group with a		diet significantly
			control group.		reduced mood
					disorders, but
					there was no
					significant
					improvement in
					symptoms with
					probiotic or
					' synbiotic
					treatment.
13.	Selvaraj, R.,	Association	A systematic	The study	The article
	Selvamani, T.	Between Dietary	review was	reviewed	highlighted a
	Y., Zahra, A.,	Habits and	conducted in this	various	strong link
	Malla, J.,	Depression: A	article to assess	populations	between poor
	Dhanoa, R.,	Systematic Review	how dietary	across multiple	eating habits,
	Venugopal,	Systematic Neview	patterns are	studies,	including diets
	S., Shoukire,				rich in sugar and
				covering	-
	I., Hamouda,		depression. It	different age	saturated fats,
	R. K., &		involved	groups,	and a higher risk
	Hamid, P.		analyzing	genders, and	of depression.
	(2022).		published	countries. The	Conversely,
			research findings	populations	healthy dietary
			on the effects of	included	habits such as the
			unhealthy or	individuals with	Mediterranean







			healthy diets on	specific dietary	diet, which
			depression risk.	habits (e.g., high consumption of sugar or saturated fats).	includes plenty of fruits, vegetables, and beneficial fats, were associated with a lower risk of depression.
14.	Smith, J., & Doe, R. (2023).	An overview of the potential role of nutrition in mental disorders in the light of advances in nutripsychiatry. Journal of Nutritional Psychiatry.	This article conducted a literature review analyzing several studies that investigated the connection between nutrition and mental health. The methodology focused on exploring the relationship between specific nutrients, including omega- 3 fatty acids, vitamins, and minerals, and mental health conditions such as depression, schizophrenia, and bipolar disorder.	The studies reviewed included individuals diagnosed with mental health conditions, including bipolar disorder, schizophrenia, and major depression. Subjects were from various regions, with sample sizes differing across studies.	The review determined that nutrition is essential for both preventing and managing mental health conditions. Consuming omega-3 fatty acids, vitamin D, magnesium, and other nutrients was shown to have positive effects on brain health and mental well-being. The article emphasized the importance of a balanced diet as a complementary strategy in treating mental health conditions.
15.	Sartorius, N (2018)	Depression and Diabetes	The article uses a non- experimental approach, focusing on gathering and analyzing existing information to explore the relationship between depression and diabetes.	The article is a literature review and descriptive analysis of the relationship between depression and diabetes, without specific details on the sample or	The article highlights the high depression rates among individuals with diabetes, noting that complications like neuropathy and retinopathy increase the risk. It advocates for integrated care combining diabetes





				research location.	management with mental health support, urging improvements in healthcare systems and more research on comorbidities.
16.	Matud, M. P., López- Curbelo, M., & Fortes, D. (2019)	Gender and Psychological Well-Being	This study adopted a quantitative method, with data obtained through questionnaires completed by the participants themselves.	The study included a total of 3,400 participants, evenly divided into 1,700 men and 1,700 women aged between 21 and 64. Researchers ensured that the male and female groups were equal in terms of age and education level.	It is argued that women tend to have better personal growth and connection, while men excel in self-acceptance and independence. Both genders' well-being was positively associated with masculinity, but women's well- being was also affected by femininity, non- manual work, and taking care of the household. For men, professional work and marital status improved their well-being more.

