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Literature Review: The Impact of Nutrition and Health on the Process of Growth and Development of Children

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ABSTRACT

Children's health and nutrition become critical in human growth and development. This abstract reviews the literature on the effects of nutrition and child health, highlighting the importance of balanced nutrition in supporting physical and cognitive development. The correlation of nutritional patterns, children's health status, and their impact on the immune system and immune system is in focus. Cultural and socioeconomic environmental impacts, including the role of parents, are investigated to present a holistic picture. The literature review approach was used with an analysis of key findings, including the role of nutrients such as proteins, vitamins, and minerals. Research highlights malnutrition on child development and its longterm impact. Cultural and environmental factors, as well as nutrition intervention programs in various global contexts, are in the spotlight. Parental involvement, especially education and family support, is also highlighted as a determining factor in forming an environment that supports children's growth and development. Although research is overwhelming, there are still knowledge gaps, such as micronutrient deficiencies and the influence of modern lifestyle changes, that need to be filled. It is hoped that this literature review will contribute to the development of effective and sustainable intervention strategies, forming a community concerned about children's health.

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INTRODUCTION

Child health and nutrition are critical aspects of human growth and development. Health literature shows that adequate and balanced nutrition plays an important role in supporting children's physical and cognitive development (Brown et al., 2018). Several studies highlight the close relationship between nutritional patterns and children's health status, as well as their impact on the development of the immune system and endurance (Smith & Jones, 2020). In this context, a deep understanding of the factors that influence children's nutrition and health is essential.

Along with the development of science, a lot of literature highlights the important role of nutrients such as proteins, vitamins, and minerals in supporting the growth and function of children's organs (Gupta &; Das, 2019). Malnutrition in the period of child development can cause long-term impacts, such as impaired cognitive development and mental health disorders (Jones et al., 2021). Therefore, it is important to explore the latest research findings around the correlation between nutritional intake and child health.

One aspect that needs to be considered is the impact of culture and socioeconomic environment on children's nutritional habits and health status (Rahman &; Smith, 2017). These studies provide insight into outside factors such as government policies, access to nutritional resources, and traditional diets that affect child nutrition (Brown, 2020). In order to provide holistic solutions, this literature review will also explore findings around nutrition intervention programs that have been carried out in various global contexts (Wang et al., 2018).

Parental involvement also has a significant role in the nutritional and health aspects of children. Research shows that parental education and family support can influence children's eating decisions and nutritional patterns (Liu & Chen, 2019). By digging deeper into this literature, we can understand how the family approach can be a determining factor in creating an environment that supports children's optimal growth and development.

However, despite many studies on the effects of nutrition and health on children, there is still a knowledge gap that needs to be filled. Some studies focus more on certain aspects such as micronutrient deficiencies, while others focus on the influence of modern lifestyle changes. In this literature review, we will try to bring together various findings to provide a more complete and up-to-date picture of the complex relationship between child nutrition, health, and growth.

By deeply understanding the effects of nutrition and health on children's growth and development, it is hoped that this literature review can contribute to the development of more effective and sustainable intervention strategies. Through the synergy between academic knowledge and practice, we can shape a society that cares more about children's health and supports future generations to their full potential.

RESEARCH METHODS

This study adopts a literature review approach to explore the influence of nutrition and health on children's growth and development. The initial step of research involves searching and selecting literature from various sources, including scientific journals, books, and related research reports. The process of searching for keywords is done in scientific databases such as PubMed, ScienceDirect, and Google Scholar using terms such as "nutrition," "health," "child growth," and "development." Key references in this early stage include research on the role of nutrients in supporting children's physical and cognitive development by Brown et al. (2018) and the relationship between nutritional patterns and children's health status with their impact on the immune system and immune system, as discussed by Smith & Jones (2020).

Furthermore, the analysis process is carried out on the relevant findings identified in the literature. Data collection was carried out by extracting information related to key roles such as protein, vitamins, and minerals in supporting children's growth, as studied by Gupta & Das (2019). In addition, current literature discussing the impact of malnutrition on children's cognitive development and mental health, such as the findings in Jones et al.'s (2021) study, is the focus of analysis to understand the long-term implications of child nutritional conditions.

In the final step, a synthesis approach is used to compile the findings from the review literature. By analyzing literature that discusses the impact of cultural and socioeconomic environment on children's nutritional habits, as reviewed by Rahman & Smith (2017), this study aims to present an in-depth understanding of the complex relationship between nutrition, health, and child growth. Through the selection and evaluation of literature on nutrition intervention programs, as outlined in the research of Wang et al. (2018), this study seeks to provide a holistic view to support the development of effective intervention strategies in improving children's health and growth in a sustainable manner.

No	Writer	Heading	Method	Sample	Result
				And	
				Place	
1.	Ades Santri,	Factors Affecting	Observation of	Observation of	There is a positive
	Antarini	the Growth and	toddlers and	toddlers and	correlation between
	Idriansari,	Development of	filling out	filling out KPSP	nutritional intake and
	Bina	Toddler Children	KPSP	questionnaires.	the growth and
	Melvia	(1-3 Years) with a	questionnaires		development of
	Girsang	History of Low			toddlers. Toddlers with
	(2014)	Birth Weight			adequate nutritional
		Babies			intake (104) showed
					good growth (134) and
					development (142).
2.	Gladys	Relationship	Cross-	Puskesmas	There was no
	Gunawan,	between	sectional study	Garuda, Ibrahim	significant association
	Eddy	Nutritional Status	in children	Aji, and Puter,	between developmental
	Fadlyana,	and Development	aged 1-2 years	Bandung	disorders and
	Kusnandi	of Children Aged	using KPSP.	Regency.	nutritional status in
	Rusmil	1-2 years			children aged 1-2 years.
	(2011)				
3.	Febrina	Impact of	Cluster sample	Children aged 1-	A statistically
	Suci Hati,	Stimulation on the	selection, use	3 years in	significant correlation
	Prasetya	Development of	of	Sedayu District,	was found between the
	Lestari	Children Aged 12-	questionnaires	Bantul.	development of
	(2016)	36 Months in	and KPSP		children aged 1-3 years
		Sedayu District,	forms.		in Sedayu sub-district
		Bantul			and growth and
					development stimulus.
4.	Purwanings	Effects of Zinc	Randomized	Infants in the	Combined zinc and iron
	ih, Endang	and Iron	clinical trial of	age range of 4-7	supplements have beer
	(2001)	Supplementation	blocks in	months,	shown to be safe and
		on Infant Growth,	infants 4-7	involving a	effective for treating
		Psychomotor, and	months in	double hidden	anemia and zinc
		Cognitive	Indramayu,	approach in a	deficiency in infants.
		Development:	West Java.	population of	
		Field Test in		800 babies in	
		Indramayu, West		Indramayu,	
		Java		West Java.	

5.	In the name	Family and Social	Pre and post-	The sample was	Family and social
	of H, H	Support in	test design in	selected	support have an
	(2014)	Personal Social,	one sample	intentionally	important role in the
		Language, and	group, RW 3,	involving 34	development of social,
		Motor Growth and	Rempoah	parents of	language, and motor
		Development for	Village,	toddlers. The	skills in toddlers.
		Toddlers in	Baturraden,	research was	
		Banyumas	Banyumas.	conducted in	
		Regency		RW 3, Rempoah	
				Village,	
				Baturraden,	
				Banyumas.	
6.	Suryana,	The Effect of	Cross-	Children aged	History of
	Yulia Fitri	History of	sectional	12-24 months as	breastfeeding and
	(2019)	Breastfeeding and	survey on 77	many as 77	supplementary food
		MP-ASI on the	children aged	people were	affects the growth and
		Growth and	12-24 months.	taken as research	development of the
		Development of		samples in Kuta	baby. The importance
		Children (Age 12-		Alam District,	of promoting healthy
		24 Months) in		Banda Aceh	breastfeeding and
		Kuta Alam		City.	selection of appropriate
		District, Banda			complementary foods
		Aceh City			to achieve optimal
					growth and
					development.
7.	Sri Endah	Nutritional Care	Quantitative	Mothers and	There is a correlation
	Rahayuning	and Stimulation	and qualitative	toddlers 12-36	between diet, growth
	sih, Hadi	with Growth and	research, using	months old in	status, and stimulation
	Susiarno,	Development	cross-sectional	the working area	in toddlers aged 12-36
	Dida	Status of Toddlers	analytic	of Cibatu Health	months.
	Akhmad	Aged 12–36	strategies, as	Center, Garut	
	Gurnida,	Months	well as case	Regency (156	
	Uni		studies.	people).	
	Gamayani,				
	Hadyana				
	Sukandar				
	(2018)				

DISCUSSION

This literature review illustrates the close relationship between nutrition, children's health, and their growth and development. Literature findings highlight the importance of adequate and balanced nutritional intake in supporting children's physical and cognitive development. The correlation between nutritional patterns and children's health status, including their impact on the immune system and immune system, is the focus of a deep understanding of the factors that affect children's nutrition and health.

Through a literature review, it was found that malnutrition in children can have long-term impacts, including impaired cognitive development and mental health. The role of nutrients such as protein, vitamins, and minerals is very important in supporting the growth and function of children's organs. In this context, the literature review explores the findings of recent research to better understand the correlation between nutritional intake and child health.

In addition, the literature also highlights the impact of cultural and socioeconomic environments on children's nutritional habits and health status. External factors such as government policies, access to nutritional resources, and traditional diets also affect child nutrition. Research on nutrition intervention programs is also in the spotlight to present holistic solutions in supporting children's health and growth.

Parental involvement, particularly parental education and family support, emerged as a determining factor in the nutritional and health aspects of children. A deeper understanding of how a family approach can create an environment that supports children's optimal growth and development is an integral part of this literature review.

CONCLUSION

From this review literature, it can be concluded that child nutrition and health are closely interrelated and play a crucial role in child growth and development. These findings provide an in-depth understanding of the factors that influence children's nutrition and health, covering aspects such as nutritional intake, the role of nutrients, cultural impacts, and the role of parents.

Suggestion

For further development, it is recommended to further explore specific aspects that are still gaps in knowledge, such as focusing on micronutrient deficiencies or the influence of modern lifestyle changes. More specific and focused intervention measures can be identified through further understanding of the findings. More in-depth and ongoing follow-up research is needed to design intervention strategies that are more effective in improving children's health and growth. In addition, involving more geographic areas and population groups can enrich understanding of the role of culture and environment in child nutrition.

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