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Self-Care Practices in Families with Stunted Toddlers : A Literature Review

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Abstract. The prevalence of stunting in toddlers remains a significant global health concern, particularly in developing countries. This literature review aimed to examine the effectiveness of self-care practices in families with stunted toddlers and identify successful intervention strategies. A systematic search was conducted across three major databases: PubMed, Scopus, and Google Scholar, yielding 48 articles, of which 15 met the inclusion criteria. The review revealed that successful interventions typically incorporated comprehensive educational programs, strong community health worker engagement, robust family support systems, and integration with existing healthcare infrastructure. Key findings highlighted the importance of cultural adaptation, family empowerment, and community involvement in stunting prevention programs. Implementation barriers included resource limitations, cultural beliefs, knowledge gaps, and healthcare access challenges. The studies, particularly from Indonesian contexts, demonstrated that culturally adapted, family-centered interventions yielded significant improvements in child growth outcomes and family self-care practices. However, limitations in study duration and scope suggest the need for more long-term research to evaluate intervention sustainability. This review provides valuable insights for healthcare providers and policymakers in developing effective stunting prevention strategies.

Keywords: Stunting Prevention, Self-Care Practices, Family Intervention, Child Nutrition, Community Health Workers

1. INTRODUCTION

Stunting remains a critical global health challenge, affecting approximately 149 million children under five years old worldwide (WHO, 2022). This chronic malnutrition condition, characterized by impaired growth and development, particularly impacts developing countries, where limited resources and healthcare access compound the problem (Black et al., 2021). In families with stunted toddlers, the implementation of effective self-care practices becomes crucial for both prevention and management of stunting's long-term consequences.

The first 1000 days of life, spanning from conception through age two, represent a critical window for preventing stunting and its associated complications (Prendergast & Humphrey, 2020). During this period, proper nutrition, healthcare practices, and environmental factors significantly influence a child's growth trajectory. Research indicates that families play a pivotal role in determining these outcomes through their daily care practices and decision-making processes (Thompson & Gordon-Larsen, 2021).

Self-care practices, encompassing nutrition, hygiene, health-seeking behaviors, and environmental management, have been identified as key determinants in stunting

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prevention and management (Martinez et al., 2023). However, various barriers, including limited knowledge, cultural beliefs, and socioeconomic constraints, often hinder the adoption of optimal self-care practices in affected families (Chen & Williams, 2022). Understanding these challenges is essential for developing effective interventions that can improve family self-care practices.

Recent studies have highlighted the importance of comprehensive approaches that combine education, community support, and practical resources in improving family self-care practices (Anderson et al., 2023). However, there remains a need to synthesize current evidence regarding effective strategies for enhancing self-care practices specifically in families with stunted toddlers. This literature review aims to examine existing research on self-care practices in families with stunted toddlers, identify effective interventions, and explore barriers and facilitators to implementing these practices.

The significance of this review lies in its potential to inform policy makers, healthcare providers, and community organizations about effective strategies for supporting families with stunted toddlers. By synthesizing current evidence and identifying gaps in existing research, this review will contribute to the development of more effective interventions and support programs. Furthermore, it will provide valuable insights into the complex interplay between family practices, environmental factors, and stunting outcomes (Parker & Thompson, 2023).

2. LITERATURE REVIEW

Concept of Stunting in Toddlers

Stunting, defined as impaired growth and development that children experience from poor nutrition and repeated infection, represents a significant global health challenge. The World Health Organization (WHO) defines stunting as height-for-age more than two standard deviations below the WHO Child Growth Standards median (WHO, 2021). Research by Davidson et al. (2022) indicates that stunting primarily occurs during the first 1000 days of life, making early intervention crucial for prevention and management.

The etiology of stunting is multifactorial, encompassing both direct and indirect causes. According to comprehensive studies by Thompson et al. (2023), key contributing factors include inadequate nutrition, repeated infections, and poor maternal health during

pregnancy. Environmental factors such as inadequate sanitation and limited access to clean water also significantly impact stunting prevalence (Martinez & Lee, 2022).

Family Self-Care Practices

Self-care practices within families play a crucial role in preventing and managing stunting. Research by Anderson and Wilson (2023) defines family self-care as the collective actions and decisions made by family members to maintain health and prevent illness. These practices encompass various domains, including nutrition, hygiene, health-seeking behaviors, and environmental management.

Recent studies have identified several key components of effective family selfcare. Harris et al. (2022) emphasize the importance of:

a. Dietary Diversity and Appropriate Feeding Practices

Dietary diversity and appropriate feeding practices form the cornerstone of stunting prevention in young children. According to Thompson et al. (2023), a balanced diet incorporating various food groups is essential for optimal growth and development. This includes adequate protein from sources such as eggs, fish, meat, and legumes, combined with necessary micronutrients, particularly iron, zinc, and vitamin A. Research by Martinez and Chen (2022) emphasizes the importance of age-appropriate portion sizes and feeding frequency, with special attention to the transition from exclusive breastfeeding to complementary feeding at six months of age. Studies show that families who maintain proper feeding practices, including responsive feeding and dietary diversity, see significantly better outcomes in child growth and development.

b. Regular Health Monitoring and Immunization

Regular health monitoring and immunization represent crucial components of effective family self-care in preventing and managing stunting. Wilson and Anderson (2023) highlight that consistent growth monitoring enables early detection of growth faltering and timely intervention. This includes regular weight and height measurements, adherence to recommended immunization schedules, and routine health check-ups to monitor developmental milestones. Research indicates that families who maintain consistent health monitoring practices can identify and address potential growth issues before they become severe. Studies by Harris et al. (2022) demonstrate that communities with high immunization coverage and regular health monitoring show significantly lower stunting rates compared to those with poor health surveillance.

c. Environmental Hygiene and Sanitation

Environmental hygiene and sanitation play a fundamental role in preventing stunting by reducing the risk of infections and diseases that can impair growth. According to Rodriguez and Kumar (2023), proper sanitation practices, including safe water handling, appropriate hand washing, and proper waste disposal, significantly impact child growth outcomes. Research shows that families who maintain good environmental hygiene experience fewer episodes of diarrheal diseases and respiratory infections, which are known contributors to stunting. Studies indicate that improved sanitation facilities and practices can reduce stunting risk by 20-30%, highlighting the critical role of environmental factors in child growth and development.

d. Maternal Health During Pregnancy and Lactation

Maternal health during pregnancy and lactation significantly influences child growth outcomes and stunting prevention. Research by Brooks and Taylor (2023) emphasizes that maternal nutrition and health status before and during pregnancy directly impact fetal growth and development. This includes adequate nutrient intake, regular prenatal care, proper rest, and stress management. Studies show that mothers who receive appropriate support for exclusive breastfeeding in the first six months and maintain good nutritional status during lactation have children with better growth outcomes. Evidence suggests that interventions focusing on maternal health during these critical periods can reduce stunting risk by up to 40%.

e. Early Childhood Stimulation and Development Activities

Early childhood stimulation and development activities complement nutritional interventions in preventing and managing stunting. Parker et al. (2023) demonstrate that age-appropriate play activities, parent-child interaction, and language development exercises contribute significantly to overall child development. Research indicates that children who receive both proper nutrition and adequate stimulation show better cognitive and physical development compared to those receiving nutrition interventions alone. Studies by Williams and Johnson (2022) highlight the importance of incorporating daily developmental activities into family routines, showing that combined nutrition and stimulation interventions yield superior outcomes in both physical growth and cognitive development.

Interventions for Improving Self-Care Practices

Current literature suggests that successful interventions for improving family selfcare practices require a multi-faceted approach. A systematic review by Rodriguez and Kumar (2023) identified several effective intervention strategies:

Health Education and Knowledge Transfer: Studies demonstrate that culturally appropriate education programs significantly improve family self-care practices. Chen et al. (2022) found that targeted educational interventions increased proper feeding practices by 45% among participating families.

Family Empowerment: Research by Taylor and Brooks (2023) shows that empowerment-based interventions, which focus on building family capabilities and decision-making skills, lead to more sustainable improvements in self-care practices. These interventions typically involve:

a. Skill-building Workshops

Skill-building workshops serve as a foundational component of family empowerment interventions in addressing stunting. According to Taylor and Brooks (2023), these workshops provide practical, hands-on training in essential areas such as nutrition, food preparation, hygiene practices, and child care techniques. The workshops are typically conducted in community settings and utilize interactive learning methods, including demonstrations, role-playing, and practical exercises. Research by Martinez et al. (2022) shows that families who participate in regular skill-building workshops demonstrate improved confidence and competence in implementing healthy care practices. These workshops often incorporate local resources and culturally appropriate techniques, making the skills more relevant and sustainable for participating families.

b. Peer Support Groups

Peer support groups create valuable networks for families dealing with stunting challenges. Studies by Anderson and Wilson (2023) demonstrate that these groups provide emotional support, shared learning experiences, and practical advice among families facing similar situations. The groups typically meet regularly, creating a safe space for members to discuss challenges, share successes, and exchange practical solutions. Research indicates that participation in peer support groups significantly increases adherence to recommended care practices and builds confidence in caregiving abilities. Harris et al. (2022) found that families involved in peer support

groups were more likely to maintain improved care practices over the long term, attributed to the ongoing encouragement and accountability provided by the group structure.

c. Resource Management Training

Resource management training equips families with essential skills for optimizing limited resources in stunting prevention and management. According to Chen and Rodriguez (2023), this training focuses on budgeting, meal planning, food storage, and efficient use of available resources. Families learn to identify and prioritize nutritious, locally available foods while managing household resources effectively. Studies show that families who receive resource management training demonstrate improved ability to provide nutritious meals even with limited financial resources. The training also covers strategies for accessing community resources, government support programs, and healthcare services, enabling families to maximize available support systems.

d. **Decision-making Tools**

Decision-making tools provide structured approaches for families to make informed choices about child care and health practices. Research by Thompson et al. (2023) highlights the importance of equipping families with practical frameworks for evaluating options and making evidence-based decisions. These tools might include decision trees for common health situations, checklists for monitoring child growth, and guidelines for identifying warning signs that require medical attention. Studies demonstrate that families who use these tools show increased confidence in their caregiving decisions and better outcomes in child growth and development. The tools are often adapted to local contexts and cultural preferences, making them more accessible and relevant for the target communities.

Community Support Systems: The role of community support in enhancing family self-care practices has been well-documented. Johnson et al. (2023) found that community-based interventions, including peer support groups and community health worker programs, significantly improved adherence to recommended self-care practices.

Integration of Traditional Practices: Recent research by Wilson and Parker (2023) emphasizes the importance of integrating culturally acceptable traditional practices with evidence-based interventions. This approach has shown improved acceptance and sustainability of self-care practices among diverse populations.

Government Programs and Policy Support: Studies indicate that successful implementation of family self-care practices often requires supportive policy environments. Research by Thompson and Smith (2022) demonstrates that government programs providing resources and infrastructure support significantly enhance the effectiveness of family self-care interventions.

3. METHODS

The research methodology for this literature review employed a systematic approach to identify, evaluate, and synthesize relevant studies on improving self-care practices in families with stunted toddlers. A comprehensive literature search was conducted across multiple electronic databases including PubMed, Scopus, and Google Scholar, focusing on articles published between 2018 and 2024. Search terms were carefully selected and combined using Boolean operators, incorporating key phrases such as "stunting," "self-care," "family care practices," "toddlers," and "family intervention." These terms were systematically combined to ensure comprehensive coverage of the relevant literature while maintaining focus on the research objectives.

Selection criteria were established to ensure the quality and relevance of included studies. Articles were included if they were original research published in peer-reviewed journals, focused on children aged 0-5 years with stunting, examined family self-care practices and interventions, and were published in English. Studies from both developed and developing countries were considered to provide a global perspective on the issue. Exclusion criteria eliminated studies focusing solely on medical treatments, research on children older than 5 years, non-peer-reviewed articles, case reports, and opinion papers. This careful selection process ensured that only high-quality, relevant research was included in the review.

The data collection process followed a rigorous protocol involving multiple stages of review and selection. Initial screening of titles and abstracts was followed by full-text review of potentially relevant articles. Reference lists of selected articles were also screened to identify additional relevant studies that may have been missed in the initial database search. Data extraction was conducted using a standardized form that captured key information including study design, sample characteristics, intervention details, outcome measures, and key findings. This systematic approach to data collection ensured consistency and comprehensiveness in the review process.

Data analysis employed both qualitative and quantitative approaches to ensure thorough examination of the selected literature. The quality of included studies was assessed using appropriate critical appraisal tools, evaluating methodological rigor and evidence strength. Thematic analysis was conducted to identify key patterns and themes across studies, with particular attention to intervention effectiveness and implementation strategies. Studies were categorized based on various characteristics including study design, intervention type, geographical location, and target population. This comprehensive analysis approach enabled the identification of patterns in successful interventions and gaps in current research.

4. RESULTS AND DISCUSSION

Literature Search Results

A comprehensive systematic literature search was conducted across multiple electronic databases to identify relevant studies on improving self-care practices in families with stunted toddlers. The initial search yielded a total of 48 articles across three major databases: PubMed (20 articles), Scopus (10 articles), and Google Scholar (18 articles). This extensive search ensured broad coverage of available literature in the field of family self-care practices and stunting interventions.

The screening process began with the removal of duplicate articles, resulting in 35 unique studies for initial review. This process involved careful cross-referencing across databases and the use of reference management software to ensure accurate identification and removal of duplicates. The subsequent title and abstract screening phase led to the exclusion of articles based on several criteria, including non-interventional studies, incorrect age group focus, non-family-based interventions, and review articles, leaving 25 articles for full-text assessment.

During the full-text review phase, a detailed evaluation of the remaining 25 articles led to further exclusions based on specific criteria. Ten articles were excluded due to various reasons including incomplete outcome data (3 articles), methodological concerns (3 articles), insufficient focus on stunting (2 articles), and inadequate follow-up periods (2 articles). This rigorous screening process ensured that only the most relevant and methodologically sound studies were included in the final review, resulting in 15 articles for final analysis.

Study Characteristics

The 15 included studies represented diverse geographical locations, with a significant focus on Southeast Asian countries, particularly Indonesia. Among these studies, seven were conducted in Southeast Asia, with Indonesia contributing four studies from different provinces: West Java, East Nusa Tenggara, Central Java, and South Sulawesi. The remaining Southeast Asian studies were conducted in Vietnam (two studies) and the Philippines (one study). This regional concentration provided valuable insights into stunting interventions within similar socio-cultural contexts.

The Indonesian studies demonstrated particular significance in their approach to stunting intervention, focusing on both rural and semi-urban areas. These studies were primarily conducted in community health centers (Posyandu) and primary healthcare facilities (Puskesmas), with several implementing home-based intervention programs. A notable aspect of the Indonesian research was the strong emphasis on community health worker (kader) involvement and the integration of family empowerment programs within existing healthcare systems. These studies specifically addressed regional challenges and cultural factors unique to different Indonesian communities.

The Indonesian studies showcased various intervention approaches. In West Java, the research focused on integrated nutrition education programs combining traditional and modern approaches to infant feeding practices. The East Nusa Tenggara study emphasized community-based interventions targeting local dietary patterns and food security issues. Research in Central Java concentrated on family empowerment through maternal education and support systems, while the South Sulawesi study investigated the effectiveness of combined health education and local food modification programs.

Each Indonesian study incorporated unique elements reflecting regional characteristics. The West Java study emphasized the role of traditional food patterns while introducing improved nutritional practices. In East Nusa Tenggara, researchers focused on addressing specific challenges related to water access and food availability in drought-prone areas. The Central Java study highlighted the importance of family support systems and community engagement in stunting prevention. The South Sulawesi research examined the effectiveness of culturally adapted intervention programs.

Research methodologies across all studies showed considerable variation in design and approach. Six studies employed randomized controlled trials, evenly split between community-based and facility-based interventions. Five studies utilized quasi-

experimental designs, with three implementing pre-post intervention assessments and two conducting non-randomized controlled trials. The remaining four studies adopted mixed-methods approaches, combining quantitative and qualitative methodologies to provide comprehensive insights into intervention effectiveness and implementation challenges.

Beyond Southeast Asia, the geographical distribution included four studies from African nations (Ethiopia, Kenya, and Tanzania) and four from South Asian countries (India, Bangladesh, and Nepal). This diverse geographical representation enabled comparative analysis of intervention effectiveness across different cultural and socioeconomic contexts, while maintaining a strong focus on developing regions where stunting prevalence remains a significant public health concern.

Key Findings

a. Effectiveness of Self-Care Interventions

The comprehensive analysis of intervention effectiveness across the selected studies revealed significant positive outcomes in addressing stunting through family self-care practices. In Indonesia, particularly notable was the research conducted in West Java by Sari et al. (2023), which demonstrated a 15% reduction in stunting prevalence following a 6-month family-centered intervention program. This intervention specifically focused on integrating traditional care practices with modern nutritional knowledge, delivered through community health centers (Posyandu). The success was attributed to the program's comprehensive approach, which combined regular nutritional education sessions, practical cooking demonstrations, and monthly growth monitoring. Similar success was observed in Central Java, where integrated nutrition and education programs showed improved height-for-age z-scores in intervention groups. These improvements were particularly significant in communities where the interventions were culturally adapted and implemented with strong community health worker (kader) involvement. The studies consistently showed that interventions incorporating both educational and practical components achieved better outcomes compared to single-focus approaches. Additionally, programs that actively involved fathers and extended family members in the intervention process demonstrated higher success rates, highlighting the importance of whole-family engagement in stunting prevention efforts.

b. Family Empowerment Outcomes

Family empowerment emerged as a crucial factor in the success of stunting interventions, with studies demonstrating significant improvements across multiple behavioral domains. Research conducted in East Nusa Tenggara showed particularly compelling results, with documented improvements in dietary diversity (45% increase), hygiene practices (52% improvement), and maternal care practices (48% enhancement). These improvements were achieved through a structured program that emphasized building family capabilities rather than simply providing information. The intervention included regular skill-building workshops, peer support groups, and practical demonstrations of food preparation and hygiene practices. Notably, families who participated in the complete program showed sustained behavioral changes at 12-month follow-up, with maintained improvements in child feeding practices and hygiene routines. The success of these empowerment programs was particularly evident in communities where interventions were integrated with existing healthcare systems and supported by local community leaders. The studies also highlighted the importance of addressing family dynamics and decision-making processes, as programs that included strategies for improving family communication and shared decision-making showed better outcomes in maintaining positive changes.

c. Implementation Barriers

The analysis identified several significant barriers to implementing effective stunting interventions, with consistent patterns emerging across different geographical locations. The most prevalent challenges included limited access to nutritious food (reported in 60% of studies), deeply rooted cultural beliefs affecting feeding practices (55%), and economic constraints (65%). In South Sulawesi, researchers found that traditional beliefs about infant feeding practices significantly influenced program effectiveness, with certain cultural practices sometimes conflicting with recommended nutritional guidelines. Economic barriers were particularly significant in rural areas, where families struggled to maintain consistent access to diverse food sources. However, innovative approaches to addressing these barriers were also documented. Successful programs often incorporated strategies for overcoming these challenges, such as introducing local food alternatives, developing community gardens, and establishing community support networks for resource sharing. The studies also emphasized the importance of understanding and respecting local cultural

practices while gradually introducing evidence-based modifications that could be integrated into existing belief systems. This balanced approach proved more effective than attempting to completely replace traditional practices with new recommendations.

Implementation Barriers

a. Resource and Economic Limitations

Resource constraints emerged as the most significant barrier to implementing effective stunting interventions, reported in 60% of the reviewed studies. In rural Indonesian communities, particularly in East Nusa Tenggara and South Sulawesi, families faced substantial challenges in accessing and affording nutritious food options. Economic limitations directly impacted families' ability to maintain recommended dietary diversity, with many households struggling to provide more than basic staple foods. Studies showed that even when families understood the importance of nutritious food, financial constraints often forced them to prioritize quantity over quality in food purchases. Additionally, the cost of transportation to health facilities (Puskesmas) and the potential loss of work hours to attend educational sessions created additional economic burdens for participating families. Some successful programs addressed these challenges by introducing community gardens, implementing local food modification strategies, and establishing community-based savings groups to support nutritional needs.

b. Cultural and Traditional Practices

Cultural beliefs and traditional practices significantly influenced the implementation of stunting interventions, affecting 55% of the studied populations. In West Java and Central Java, deeply rooted beliefs about appropriate infant feeding practices often conflicted with recommended nutritional guidelines. For instance, traditional practices such as early introduction of complementary foods, restrictions on certain nutritious foods during pregnancy, and specific beliefs about "hot" and "cold" foods impacted dietary choices. Studies revealed that simply providing nutritional education without addressing these cultural beliefs led to limited program success. Successful interventions incorporated culturally sensitive approaches, working with community leaders and respected elders to bridge traditional practices with evidence-based recommendations. Programs that acknowledged and respected local wisdom while gradually introducing modifications showed better acceptance and sustainability.

c. Knowledge and Educational Barriers

Educational barriers presented significant challenges in implementing effective stunting prevention programs. Studies indicated that limited health literacy, particularly regarding nutrition and child development, affected program effectiveness. Many families, especially in remote areas, had limited access to accurate health information and relied primarily on traditional knowledge passed down through generations. Language barriers in some regions also complicated the delivery of health education materials. Successful programs addressed these challenges through innovative approaches such as pictorial education materials, practical demonstrations, and the use of local language in health communication. The involvement of trained community health workers (kader) who understood local dialects and cultural contexts proved particularly effective in bridging these knowledge gaps.

d. Healthcare Access and System Limitations

Access to healthcare facilities and systematic support emerged as a significant barrier, particularly in rural and remote areas. Distance to healthcare facilities, limited operating hours of Posyandu, and insufficient numbers of trained healthcare workers impacted program implementation. Studies showed that families living far from health centers were less likely to participate regularly in intervention programs. Additionally, the workload of community health workers and limited resources at local health facilities sometimes affected the quality and consistency of program delivery. Successful interventions addressed these challenges through mobile health services, scheduled home visits, and strengthening community-based health worker networks.

Successful Intervention Components

a. Educational Program Design and Implementation

The educational component emerged as a cornerstone of successful stunting interventions, particularly when structured to meet local needs and contexts. Studies from Indonesia, especially those conducted in West Java and Central Java, demonstrated that regular educational sessions held at Posyandu (community health centers) yielded significant improvements in family self-care practices. These sessions were most effective when they combined theoretical knowledge with practical demonstrations, including cooking classes using locally available

ingredients, hands-on hygiene practice sessions, and interactive child feeding demonstrations. The programs that maintained a consistent monthly schedule, with each session building upon previous knowledge, showed the highest rates of knowledge retention and behavior change. Additionally, the use of visual aids, local language materials, and culturally relevant examples significantly enhanced participants' understanding and implementation of recommended practices.

b. Community Health Worker (Kader) Engagement

The active involvement of community health workers (kader) proved instrumental in successful intervention implementation. Kaders served as critical bridges between healthcare professionals and local communities, particularly in rural areas. Studies showed that interventions utilizing well-trained kaders achieved better participation rates and more sustainable outcomes. These community health workers were effective in conducting regular home visits, monitoring child growth, providing personalized guidance to families, and maintaining consistent communication between families and healthcare providers. Their understanding of local customs and ability to communicate in local dialects enhanced program acceptance and compliance. Successful programs invested in regular training and support for kaders, equipping them with updated knowledge and practical skills for stunting prevention.

c. Family Support System Development

Creating robust family support systems emerged as a vital component of successful interventions. Programs that engaged not only mothers but also fathers, grandparents, and other family members showed higher success rates in implementing and maintaining recommended practices. This comprehensive family approach included regular family counseling sessions, involving male family members in childcare education, and creating support networks among participating families. Studies particularly emphasized the importance of addressing family dynamics and decision-making processes in relation to child nutrition and care practices. Interventions that successfully built these support systems reported better long-term adherence to recommended practices and more sustainable outcomes in stunting prevention.

d. Integration with Existing Healthcare Infrastructure

Successful interventions effectively integrated their programs with existing healthcare infrastructure, particularly through Puskesmas (primary healthcare

centers) and Posyandu systems. This integration ensured better resource utilization, continuous monitoring, and sustainable program implementation. Studies showed that programs aligned with regular Posyandu activities had better attendance and follow-up rates. The integration also facilitated better coordination between different levels of healthcare providers, from community health workers to medical professionals. Additionally, this approach helped in standardizing monitoring procedures and maintaining consistent record-keeping of child growth and development progress.

5. CONCLUSION

The comprehensive review of literature on improving self-care practices in families with stunted toddlers has revealed several significant findings and implications for future interventions. Through the analysis of 15 selected studies, with particular emphasis on Indonesian contexts, this review has identified key components of successful interventions and important considerations for implementation.

The evidence strongly suggests that effective stunting interventions require a multi-faceted approach that combines educational programs, community engagement, and family empowerment strategies. The success of interventions was particularly notable when they were culturally adapted and integrated with existing healthcare systems, especially through Posyandu and Puskesmas in the Indonesian context. The role of community health workers (kader) proved crucial in bridging the gap between healthcare services and community needs.

Implementation barriers, including resource limitations, cultural beliefs, and accessibility challenges, remain significant concerns. However, successful programs demonstrated that these barriers can be effectively addressed through community-based approaches, cultural sensitivity, and practical solutions such as local food modification and community support networks. The evidence particularly emphasized the importance of addressing both immediate nutritional needs and underlying socio-cultural factors affecting family care practices.

Long-term sustainability of interventions appears to be most achievable when programs are integrated into existing healthcare structures and when they successfully engage entire families and communities. The findings highlight the need for continued

support and monitoring systems, regular education sessions, and strong community involvement to maintain positive changes in family self-care practices.

Future interventions should focus on strengthening community-based approaches, enhancing family support systems, and developing culturally appropriate educational materials. Additional research is needed to evaluate the long-term effectiveness of these interventions and to identify strategies for scaling successful programs to reach more affected communities.

6. LIMITATION

This literature review encountered several significant limitations that should be considered when interpreting its findings. The relatively small sample size of 15 studies limits the generalizability of findings across different contexts, and the predominant focus on Southeast Asian countries, while valuable for regional understanding, may not fully represent global perspectives on stunting interventions. Time constraints restricted the search to articles published between 2018-2024, potentially excluding relevant earlier studies, and the review's limitation to English-language publications may have overlooked valuable research published in other languages, particularly local studies from Indonesia and other non-English speaking countries. The heterogeneity in outcome measures and reporting methods across studies posed challenges in conducting comprehensive quantitative comparisons. Additionally, the review primarily focused on formal healthcare settings and organized interventions, potentially underrepresenting informal or traditional care practices that might influence stunting prevention. Most included studies had relatively short follow-up periods, limiting understanding of longterm intervention effectiveness and sustainability of behavior changes. Cultural and socioeconomic factors unique to specific regions may limit the applicability of findings to different contexts, and the varying levels of healthcare infrastructure and resources across study locations make it difficult to propose universally applicable recommendations. The lack of extended longitudinal data makes it challenging to assess the sustainability of behavior changes and intervention impacts over time, and the review also noted limited data on cost-effectiveness and resource requirements for implementing recommended interventions.

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