

# Strengthening Maternal and Child Health Literacy through Community Service Programs

Komang Widhya Sedana Putra P<sup>1\*</sup>, Wayan Sri Maitri<sup>2</sup>, Ni Wayan Lasmi<sup>3</sup>

<sup>1,2,3</sup> Universitas Pendidikan Nasional

\*Corresponding author

E-mail: [widhyasedana@undiknas.ac.id](mailto:widhyasedana@undiknas.ac.id) (Komang Widhya Sedana Putra P)\*

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**Abstract:** *Maternal and child health literacy is essential for improving family well-being and strengthening community resilience, yet access to reliable health information remains limited in many communities. This community service program aimed to enhance maternal and child health literacy in Padangsembian Klod Village, Denpasar, through participatory education and basic health services. Conducted on February 5, 2026, the program combined interactive health education, individual counseling, and basic health examinations. Program evaluation was based on observation, participant feedback, and informal interviews. The results indicated improved understanding of maternal nutrition, child growth monitoring, hygiene practices, immunization, and appropriate health-seeking behavior. Participants also showed greater confidence in managing family health and increased willingness to access professional healthcare services. The use of culturally sensitive communication and practical demonstrations encouraged active participation and strengthened knowledge retention. These findings highlight the potential of community-based health literacy programs to support sustainable public health empowerment initiatives.*

## Keywords:

*Child Health; Community Empowerment; Community Service Program; Health Education; Maternal Health Literacy*

## Introduction

Maternal and child health remains a fundamental indicator of social welfare and national development (Ekinici, 2025). The quality of health services received by mothers and children directly influences family well-being, human capital formation, and long-term community resilience. Healthy mothers are more capable of providing optimal care for their children, while healthy children are more likely to grow into productive and socially responsible adults (Naaz & Muneshwar, 2023). Therefore, investments in maternal and child health contribute not only to individual families

but also to broader social and economic progress. However, in many developing regions, limited access to accurate health information, inadequate health education, and socio-cultural barriers continue to hinder optimal maternal and child health outcomes. Economic constraints, geographical limitations, and insufficient healthcare infrastructure often restrict communities from accessing reliable medical services (Peters et al., 2008). In addition, traditional beliefs and misinformation may influence health-related decisions, leading families to delay professional treatment or rely on ineffective practices (Aynalem et al., 2023). These conditions frequently result in low awareness of preventive care, nutrition, early disease detection, and appropriate health-seeking behavior.

Health literacy plays a crucial role in shaping individual and family decisions related to health management (Coughlin et al., 2020). It refers not only to the ability to read and understand health information but also to the capacity to evaluate, apply, and communicate health-related knowledge in daily life. Mothers, as primary caregivers, are central to promoting healthy practices within households (Delisle Nyström et al., 2022). They are responsible for managing nutrition, hygiene, immunization schedules, and early disease prevention. When maternal health literacy is insufficient, children become more vulnerable to malnutrition, preventable illnesses, and developmental delays (Ofly & Yalcin, 2024). Consequently, improving mothers' understanding of health-related information is essential for enhancing family well-being and strengthening community health systems. Community service programs implemented by academic institutions and social organizations offer a strategic platform to address these challenges. Such programs combine scientific knowledge with practical community engagement, enabling researchers and practitioners to translate theoretical concepts into applicable solutions. Through participatory education, direct health services, and culturally sensitive communication, community service initiatives create opportunities for knowledge transfer and behavioral change (Khanal et al., 2025). By engaging local communities in a collaborative manner, these programs help bridge the gap between formal health institutions and grassroots populations, ensuring that health information is delivered in accessible, relevant, and meaningful ways.

Moreover, community-based interventions encourage collective responsibility for health improvement. When community members are actively involved in learning and decision-making processes, they are more likely to adopt and sustain healthy behaviors (Brown, 1991). Peer support, shared experiences, and mutual encouragement further strengthen the effectiveness of educational interventions. In

this context, community service programs function not only as service providers but also as catalysts for social change and empowerment. Despite various efforts to improve maternal and child health, empirical studies examining the effectiveness of community-based literacy interventions remain limited. Many programs emphasize service delivery, such as medical check-ups and material assistance, without systematically evaluating their educational impact. As a result, the long-term influence of these interventions on knowledge, attitudes, and behaviors is often unclear. This condition highlights the need for research that documents practical experiences, identifies best practices, and analyzes the outcomes of community engagement activities in a comprehensive manner.

In addition, limited documentation of community service outcomes reduces opportunities for knowledge sharing among practitioners and policymakers (Lavinghouze & Snyder, 2013). Without sufficient evidence, successful models cannot be easily replicated or adapted in other regions. Therefore, systematic evaluation and academic reporting are essential to strengthen the credibility and sustainability of community-based health programs (Fry et al., 2018). This study aims to examine the implementation of community service programs designed to strengthen maternal and child health literacy. Specifically, it explores the strategies applied, community responses, and observed improvements in knowledge and awareness among participants. By analyzing both educational and practical aspects of the program, this study seeks to provide a holistic understanding of community-based health empowerment. Through the presentation of evidence-based findings, this research is expected to contribute to the development of more effective, inclusive, and sustainable models for improving maternal and child health in diverse community settings.

## **Methods**

### **Location of Activity**

The community service program was conducted in Padangsambian Klod Village, Denpasar, Bali, Indonesia. This location was selected due to its active community participation and the identified need for improving maternal and child health literacy. The village serves as a representative urban-suburban area where families face various challenges related to access to health information and preventive healthcare services.

### **Time of Implementation**

The program was implemented on February 5, 2026. The selected date was

determined in coordination with local community leaders and health representatives to ensure maximum participation from mothers, caregivers, and families. The one-day intensive activity was designed to deliver both educational and practical health services effectively.

### **Preparation Stage**

The preparation stage focused on administrative coordination, needs assessment, and material development. The organizing team initiated communication with village authorities and local health workers to obtain permission and support for the activity. A preliminary survey and informal discussions were conducted to identify common health issues faced by mothers and children in the community. Based on the findings, educational materials were developed, covering topics such as maternal nutrition, child growth monitoring, basic hygiene practices, immunization awareness, and early disease prevention. Health promotion media, including leaflets, presentation slides, and demonstration tools, were prepared to ensure clear and accessible communication. In addition, the team arranged logistical aspects, such as venue preparation, medical equipment, and participant registration systems.

### **Implementation Stage**

The implementation stage involved direct interaction between the service team and community members. The activity began with participant registration and an opening session led by community representatives. Educational sessions were delivered through interactive lectures, group discussions, and practical demonstrations to encourage active participation. Health professionals and trained volunteers provided basic health examinations, including weight and height measurements, blood pressure checks, and general health consultations. Mothers were encouraged to ask questions related to pregnancy care, child nutrition, breastfeeding practices, and disease prevention. Individual counseling sessions were also conducted to address specific health concerns. To strengthen learning outcomes, participants were involved in role-playing activities and guided practice sessions. These methods were intended to enhance understanding and promote the application of healthy behaviors in daily life. All activities were conducted using a culturally sensitive approach and simple language to ensure inclusivity.

### **Reflection and Evaluation Stage**

The reflection and evaluation stage was carried out to assess the effectiveness and sustainability of the program. Data were collected through observation, informal interviews, and participant feedback forms. The evaluation focused on participants'

understanding of health topics, satisfaction with the program, and perceived usefulness of the services provided. The organizing team conducted internal reflection meetings to review implementation challenges, participant engagement levels, and logistical efficiency. Strengths and weaknesses identified during the activity were documented for future improvement. Feedback from community leaders and health workers was also considered in refining program strategies. The results of this evaluation were used to formulate recommendations for subsequent community service initiatives. This stage ensured that the program not only provided immediate benefits but also contributed to long-term improvements in maternal and child health literacy within the community.

To support effective organization and systematic implementation, the community service program was arranged through a series of well-defined stages. Each phase was carefully structured to ensure the achievement of program goals, starting from initial coordination and ending with evaluation and follow-up activities. The following flowchart presents the main steps of program execution and demonstrates how planning, implementation, and assessment were interconnected to enhance maternal and child health literacy within the community.

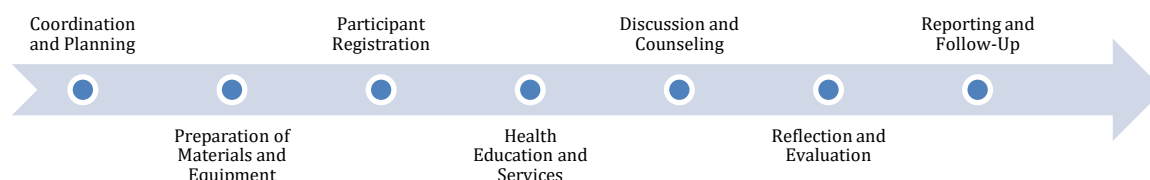


Figure 1. Flowchart of Community Service Program

## Results and Discussion

The community service program conducted in Padangsemblian Klod Village demonstrated positive outcomes in improving maternal and child health literacy. Based on field observations, participant feedback, and informal interviews, most mothers and caregivers showed increased understanding of basic health concepts after participating in the program. During the activity, participants actively engaged in educational sessions, health consultations, and practical demonstrations. The photos document the direct interaction between health facilitators and community members, including group education, individual counseling, and basic health examinations. These activities created a supportive learning environment that encouraged open communication and knowledge exchange. The implementation of

the community service program involved active participation from mothers and caregivers. Educational sessions, health consultations, and group discussions were conducted in an interactive manner. Figure 2 present the documentation of program activities, including health education sessions and individual counseling provided to participants.



Figure 2. Health Education Session with Community Members

Before the program, many participants had limited awareness of balanced nutrition, proper hygiene practices, child growth monitoring, and early disease prevention. Some mothers relied on traditional knowledge or informal information sources that were not always scientifically accurate. After the intervention, participants demonstrated better comprehension of maternal nutrition, breastfeeding practices, immunization importance, and child development indicators. In addition, participants expressed increased confidence in seeking professional health services and applying healthy behaviors at home. The distribution of educational materials further supported knowledge retention and daily practice. To measure the impact of the program, a comparison of participants' conditions before and after the activity was conducted, as presented in Table 1.

Table 1. Comparison of Maternal and Child Health Literacy Before and After the Program

Indicator	Before Program	After Program
Knowledge of Maternal Nutrition	Limited understanding of balanced diet	Improved understanding of healthy nutrition

Awareness of Child Growth	Rarely monitored child development	Regular monitoring awareness increased
Hygiene Practices	Inconsistent hygiene habits	Better implementation of hygiene practices
Immunization Awareness	Low awareness of immunization schedule	Increased awareness and willingness
Health-Seeking Behavior	Delayed medical consultation	More proactive health-seeking behavior
Confidence in Health Management	Low confidence	Higher confidence in managing family health

## Discussion

The findings indicate that community-based health literacy programs play a significant role in strengthening maternal and child health awareness. Consistent with the objectives stated in the introduction, this program successfully addressed information gaps and behavioral barriers that previously limited optimal health practices among participants. The interactive approach used in this program contributed substantially to its effectiveness. Through face-to-face education, practical demonstrations, and individual counseling, participants were able to understand health concepts more clearly. This approach aligns with participatory learning principles, which emphasize active involvement as a key factor in behavior change.

The visual evidence from the activity highlights strong community participation and effective facilitator engagement. Group discussions and personal consultations allowed participants to express concerns related to pregnancy, child nutrition, and disease prevention. This personalized communication helped translate theoretical knowledge into practical actions. Furthermore, the culturally sensitive delivery method enhanced program acceptance. Using simple language, local examples, and respectful communication encouraged trust between facilitators and participants. As a result, mothers felt more comfortable adopting recommended health practices.

The improvement observed in health-seeking behavior is particularly important. After the program, participants showed greater willingness to consult health professionals and attend regular health check-ups. This change reflects increased awareness of preventive healthcare and long-term well-being. However,

despite these positive outcomes, some limitations were identified. The program was conducted within a limited time frame, which restricted long-term monitoring of behavioral changes. In addition, follow-up activities were not yet systematically implemented. Future programs should incorporate continuous mentoring and periodic evaluation to ensure sustained impact.

Overall, the results confirm that well-structured community service programs can effectively enhance maternal and child health literacy. By combining education, practical services, and community engagement, such initiatives contribute to sustainable improvements in family and community health systems.

## **Conclusion**

This community service program successfully strengthened maternal and child health literacy in Padangsembian Klod Village. Through interactive education, basic health services, and personalized counseling, participants demonstrated improved understanding of maternal nutrition, child growth monitoring, hygiene practices, immunization, and preventive healthcare. The program effectively addressed information gaps and enhanced participants' confidence in managing family health. The active involvement of community members and the use of culturally sensitive communication contributed to the positive outcomes. The combination of theoretical explanations and practical demonstrations enabled participants to apply health knowledge in their daily lives. Overall, the program proved to be an effective model for empowering communities and promoting sustainable health behaviors.

Based on the results of this program, several recommendations are proposed for future community service initiatives. First, similar programs should be conducted regularly to reinforce knowledge and ensure long-term behavioral change. Continuous education and periodic follow-up activities are essential to maintain participants' motivation and commitment to healthy practices. Second, stronger collaboration with local health centers and government institutions is recommended to expand program coverage and sustainability. Integrating community service activities with existing public health programs can enhance resource efficiency and program impact.

Third, future programs should incorporate systematic monitoring and evaluation mechanisms, including pre- and post-assessment instruments, to measure learning outcomes more accurately. The use of digital tools and data management systems may also improve documentation and reporting processes. Finally, greater involvement of community leaders and family members, including fathers and

caregivers, is encouraged to create a supportive environment for maternal and child health. By strengthening community participation and institutional partnerships, future programs can contribute more effectively to improving public health and community well-being.

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