



DATA MANAGEMENT OF POSYANDU MANAGEMENT INFORMATION SYSTEM OF INTEGRATED PRIMARY CARE SERVICES (ILP) IN KARANGREJO VILLAGE, NGASEM DISTRICT, KEDIRI REGENCY IN 2024

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Article info	ABSTRACT
<p><i>Corresponding Author:</i></p> <p>Aris Dwi C. arisdc81@gmail.com Stikes Pamenang Kediri</p>	<p>The Integrated Primary Care Integration Posyandu (ILP) activity is a health service activity that aims to strengthen health services in village community areas. This activity is carried out in the form of screening for non-communicable diseases. ILP Posyandu is held once a month and on average is managed by 5-6 cadres. Activities carried out include screening for non-communicable diseases such as checking blood pressure, checking abdominal circumference, checking blood sugar, health education and providing additional food to PMT Toddlers, Teenagers and PMT Elderly. The recording and data collection process is still carried out manually using a ledger which is then recapitulated and becomes a database for reporting ILP Posyandu activities to the relevant units. This activity was carried out by posyandu cadres in managing Karangrejo Village ILP Posyandu Information System data management. Governance of the implementation of recording and reporting of ILP Posyandu data in Karangrejo Village, management of administrative data and health examination results at ILP Posyandu services in Karangrejo Village, Ngasem District, Kediri Regency.</p> <p>Keywords: <i>Data Management, SIM Posyandu, ILP.</i></p>
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INTRODUCTION

The Indonesian Ministry of Health has begun to integrate and revitalize primary health services with the aim of strengthening primary health services by encouraging increased promotive and preventive efforts. This integration is carried out by bringing health services closer through networks to the village/sub-district level, targeting the entire life cycle as its platform, and strengthening local area monitoring (PWS) through monitoring with a health situation dashboard per village/sub-district. This condition shows the important role of posyandu cadres as the front line in providing a basis for communities in villages/sub-districts. The transformation of health services at posyandu currently focuses on 5 steps, namely registration, weighing and measuring, recording and examination, health services and counseling, and validation and synchronization of service result data. This transformation takes the form of home visits, pregnant women's classes,

and mothers' toddler classes at posyandu. (Ministry of Health of the Republic of Indonesia, 2023)

Puskesmas and Posyandu have a role in keeping the community healthy. To support this, the Ministry of Health will complete the needs of Health Centers and Integrated Primary Care Service (Posyandu) starting from medical devices, medicines, to health workers. Integrated Primary Care Service (ILP) activities are health service activities that aim to strengthen health services in the village community area. The health services implemented are: activities carried out in the form of screening for non-communicable diseases such as blood pressure checks, abdominal circumference checks, blood sugar checks, health counseling and providing additional food for both Toddler, Adolescent and Elderly PMT. Integrated Primary Care Service (Posyandu) are a new Policy Program from the Indonesian Ministry of Health which has just been implemented in Karangrejo Village, Ngasem District, Kediri Regency. Based on this, to optimize data and information on the results of ILP Posyandu activities, it is necessary to review the recording and reporting activities of ILP Posyandu as basic material for development in the utilization of ILP Posyandu data, one of the technological developments that can be utilized is the development of ILP Posyandu Management Information System Data Processing. With the management of Posyandu ILP Management Information System data, it can help Posyandu in managing data more efficiently and quickly, can help, simplify data input both from data processing that takes a long time, report creation and avoid damaged data, data loss, and data accumulation. Posyandu Information System data management is very good for the development of Information Systems to improve the quality of Posyandu services (Ari Indra Susanti, Fedri Ruluwedrata Rinawan (2019).

In order to provide quality health services, the Health Center provides health services by providing Posyandu activities carried out by community members who are selected independently, where the selected members will later be trained to become health cadres under the assistance of the local Health Center. This is a manifestation of the role of the community in health development. This is also in line with the statement that Posyandu is one of the health facilities managed from, by, for, and with the community (Ministry of Health of the Republic of Indonesia, 2007; Mulyani, W., & Purnama, B. E, 2015).

Posyandu is the spearhead of health services in Indonesia, Posyandu is a form of community-based health efforts (UKBM) which are managed and organized from, by, for, and with the community in implementing health development (Ministry of Health of the Republic of Indonesia, 2021). Integrated Primary Care Service Posyandu (ILP) Karangrejo Village is one of the basic health service units of Posyandu located in Karangrejo Village, Ngasem Health Center working area, Ngasem District, Kediri Regency, East Java Province. The number of Posyandu in Karangrejo Village is 7 Posyandu with the number of cadres who have participated in ILP Posyandu training and have undergone a cadre competency test of 6 cadres which was carried out in June 2023.

Based on the results of the identification of problems at the ILP Posyandu in Karangrejo Village through the results of observations of ILP Posyandu cadres in the implementation of ILP Posyandu activities, recording of activities and services of the Karangrejo Village Posyandu has only just been implemented so it is necessary to know the picture of the results of the implementation of the ILP Posyandu Program activities that have been implemented in Karangrejo Village. Therefore, data management is needed that

can help the ILP Posyandu so that activities are more efficient and faster. Good data processing is carried out with the hope of being able to help, facilitate data input so that it does not take a long time, make reports and avoid damaged data, loss of data, and data accumulation. ILP Posyandu data management is very good for the development of Information Systems to improve the quality of ILP Posyandu services. The main implementers of ILP Posyandu activities are cadres, Cadres have a very important role in ILP Posyandu activities. Health cadres are members of the community who voluntarily participate in implementing programs and activities (Evi Rinata, Sri Mukhodim Faridah Hanum, Tutik Rusdyati, 2016). The role of cadres in organizing the ILP Posyandu is very large because in addition to providing health information to the community, they are also motivators for the community to come to the posyandu and implement clean and healthy living behaviors (Firlia Ayu Arini, Nur Intania Sofianita, Ibnu Malkan Bahrul Ilmi, 2017). Based on this background, the researcher was motivated to conduct research related to "Data Management of Integrated Primary Care Service Posyandu Management Information System (ILP) Karangrejo Village, Ngasem District, Kediri Regency". This study aims to describe the Data Management of Integrated Primary Service Posyandu Management Information System (ILP) Karangrejo Village, especially from the aspects of planning, implementation, administration, reporting, and accountability of Posyandu data in Karangrejo Village.

The development of information and communication technology in the current era of globalization is increasingly sophisticated and modern so that the need for information is also increasingly widespread. To provide the best service to the community, one of which is by providing fast and accurate information, this can be done through the utilization of the application of information system technology in the service sector. Information is a collection of data or facts that are processed in a certain way so that they have meaning for the recipient. Data that has been processed becomes something useful for the recipient for decision making. Therefore, good management is important so that the information can be used by the community as a decision maker for daily activities. Posyandu is a community self-help activity for community maintenance. However, currently the implementation of information processing at the posyandu still experiences many obstacles, including data processing on immunization activities for toddlers which is still manual so that the processing of activity report data takes longer, a lot of data is scattered and data on posyandu activities is often lost as happened at the Posyandu, Karangrejo Village, Ngasem District, Kediri Regency. Therefore, an information system is needed that can provide convenience to posyandu officers in toddler immunization activities and in making activity reports. According to Bodnar and HoopWod in (Rukun & Hayadi, 2018) explains that "Information systems are a collection of hardware and software designed to transform data into useful information". The Immunization Service Information System at Posyandu is expected to facilitate data processing quickly and precisely, as a basis for developing the integration of services in the future, especially in the field of Posyandu which emphasizes immunization which has a greater influence on the development of toddlers in Karangrejo Village, Ngasem District, Kediri Regency. It is undeniable that currently all elements of society can be said to depend on information technology. The implementation of Posyandu ILP is carried out once a month and is managed by an average of 5-6 cadres. The activities carried out include activities carried out in the form of screening for non-communicable

diseases such as blood pressure checks, abdominal circumference checks, blood sugar checks, health counseling and providing additional food for both PMT Toddlers, Adolescents and PMT Elderly. The recording and data collection process is still manual using a ledger, which is then summarized and becomes a database for reporting ILP Posyandu activities to related units such as the Community Health Center (Puskesmas), village head, and Family Welfare Empowerment (PKK). Therefore, the accuracy and precision of data collection are important in providing valid and new health data or information in the community. Based on the problems faced, this community service activity is to design an Integrated Primary Care Service (Posyandu) information system that suits the needs. The internet plays a very important role in life According to Effendy in (KESMES, 2013) he said that "Posyandu is a forum for communication, technology transfer, and public health services, from, by and for the community that has strategic value for the development of human resources from an early age". Therefore, this activity is carried out for the community or in this case, Posyandu cadres can carry out the management of ILP Posyandu Information System Data Management in Karangrejo Village. The focus of the ILP Posyandu Management Information System is the governance of the implementation of recording and reporting of ILP Posyandu data in Karangrejo Village, designing an information system that manages administrative data and health examination results so that optimal data recording can be presented on ILP Posyandu services in Karangrejo Village, Ngasem District, Kediri Regency.

METHOD

The method used to realize this community service program is by using interactive lecture techniques with power point media. The materials provided are the importance of managing Integrated Primary Care Service Posyandu Management Information System (ILP) Data in Karangrejo Village, Ngasem District. After participants understand the material presented, it is continued with the process of mentoring the Village Midwife in managing the Integrated Primary Care Service Posyandu Management Information System (ILP) data. To ensure that the program can run as expected, the next stage that is carried out is evaluation. The community service team monitors the implementation of the Integrated Primary Care Service Posyandu Management Information System (ILP) Data management in Karangrejo Village, Ngasem District. This community service focuses on mentoring the management of Integrated Primary Care Service Posyandu Management Information System (ILP) Data. This activity was attended by 15 participants. The stages of community service activities include preparing activities by making proposals, dividing tasks for each implementer and planning activities. A location survey was conducted to ensure the needs of partners to get benefits after getting this activity. Coordination with partners through the Village Midwife and Village Head to be facilitated and get a statement of consent to participate in the activity. The implementation of community service activities is carried out by mentoring in the preparation of drafts of program activities in the health sector (Integrated Posyandu Data Management). Evaluation of this activity is carried out by all participants. And the last is a comprehensive report from the beginning of the activity to the evaluation stage.

RESULT AND DISCUSSION

Finding

Community service activities in the form of mentoring the management of integrated primary care service posyandu management information system (ILP) data have been carried out well and smoothly. During this mentoring activity, the Posyandu Cadres involved in the integrated posyandu data management process in Karangrejo Ngasem Village were very enthusiastic during the activity. The total number of participants who took part in this mentoring activity was 15 Karangrejo Posyandu Cadres. The Integrated Primary Care Service Posyandu (ILP) activity is a health service activity that aims to strengthen health services in the village community area (Ministry of Health of the Republic of Indonesia 2023). This integration is carried out by bringing health services closer through networks to the village/sub-district level, targeting the entire life cycle as its platform, and strengthening local area monitoring (PWS) through monitoring with a health situation dashboard per village/sub-district. This condition shows the important role of posyandu cadres as the front line in providing a basis for the community in the village/sub-district. The transformation of health services at the integrated health post currently focuses on 5 steps, namely: registration, weighing and measuring, recording and examination, health services and counseling, and validation and synchronization of service result data. The transformation is in the form of home visits, pregnant women's classes, and mothers' toddler classes at the integrated health post. The implementation of the Integrated Primary Care Service (ILP) Posyandu in Karangrejo Village, Kediri Regency has been carried out well. The implementation of the integrated health post is going well. There are 7 Posyandus in Karangrejo Village, namely Posyandu Mawar 1, Mawar 2, Mawar 3, Kantil 1, Kantil 2, Kantil 3, and Posyandu Melati. The ILP Posyandu service in Karangrejo Village is carried out at Posyandu Kantil 2, Karangrejo Village, Ngasem District, Kediri Regency. Meanwhile, the number of Karangrejo village cadres is 15 health cadres. ILP health cadres have also shown the important role of Posyandu cadres as the front line in providing a basis for the community in the village/sub-district. To improve the ability of health cadres by giving a mark of the competence of health cadres who have 25 basic skills divided into three levels of competence, namely Purwa, Madya, and Utama. Purwa cadres are required to master two basic competencies in managing Posyandu and toddler services and add one other basic optional skill. Madya cadres are required to master three basic competencies in managing Posyandu and toddler services and services for pregnant women, breastfeeding mothers and add one other basic optional skill. Utama cadres are required to master all basic competencies in managing Posyandu and services for the entire life cycle.

Discussion

The Indonesian Ministry of Health has begun integrating and revitalizing primary health services aimed at strengthening primary health services by encouraging increased promotive and preventive efforts. Health centers and integrated health posts have a role in keeping the community healthy. To support this, the Ministry of Health will complete the needs of health centers and integrated health posts, starting from medical devices, medicines, to health workers.

Community service activities in the form of assistance in managing integrated health post management information system (ILP) data have been carried out well and smoothly. During this assistance activity, the integrated health post cadres involved in the integrated

health post data management process in Karangrejo Ngasem Village were very enthusiastic during the activity. The total number of participants who took part in this assistance activity was 15 Karangrejo Integrated Health Post Cadres.

The Integrated Primary Care Service (ILP) Posyandu activity is a health service activity that aims to strengthen health services in the village community area (Indonesian Ministry of Health 2023). This integration is carried out by bringing health services closer through networks to the village/sub-district level, targeting the entire life cycle as its platform, and strengthening local area monitoring (PWS) through monitoring with a health situation dashboard per village/sub-district. This condition shows the important role of Posyandu cadres as the front line in providing a basis for the community in the village/sub-district. The transformation of health services at Posyandu currently focuses on 5 steps, namely: registration, weighing and measuring, recording and examination, health services and counseling, and validation and synchronization of service result data. This transformation is in the form of home visits, pregnant women's classes, and mothers and toddlers' classes at Posyandu. The implementation of the Integrated Primary Service (ILP) Posyandu in Karangrejo Village, Kediri Regency has been carried out well. The implementation of Posyandu is going well. There are 7 Posyandu in Karangrejo Village, namely Posyandu Mawar 1, Mawar 2, Mawar 3, Kantil 1, Kantil 2, Kantil 3, and Posyandu Melati. ILP Posyandu services in Karangrejo Village are carried out at Posyandu Kantil 2, Karangrejo Village, Ngasem District, Kediri Regency. Meanwhile, the number of Karangrejo village cadres is 15 health cadres. ILP health cadres have also shown the important role of Posyandu cadres as the front line in providing a basis for the community in the village/sub-district. To improve the ability of health cadres by giving a sign of the competence of health cadres who have 25 basic skills divided into three levels of competence, namely Purwa, Madya, and Utama. Purwa cadres are required to master two basic competencies in Posyandu management and toddler services and one additional basic skill of choice. Madya cadres are required to master three basic competencies in Posyandu management and toddler services as well as services for pregnant women, breastfeeding mothers and one additional basic skill of choice. Utama cadres are required to master all basic competencies in Posyandu management and services for the entire life cycle.

The health services implemented at the ILP Posyandu in Karangrejo Village are also in accordance with the technical guidelines for the implementation of the ILP Posyandu, namely the implementation of screening activities for non-communicable diseases such as blood pressure checks, abdominal circumference checks, blood sugar checks, health counseling and providing additional food for both toddlers, adolescents and elderly PMT. This is in accordance with the Technical Guidelines for the Implementation of ILP Posyandu from the Indonesian Ministry of Health which states that the Health Services implemented in ILP Posyandu are activities in the form of screening for non-communicable diseases such as blood pressure checks, abdominal circumference checks, blood sugar checks, health counseling and providing additional food for both toddlers, adolescents and elderly PMT. The results of the ILP Posyandu Activity monitoring and evaluation were also attended by the community with great enthusiasm, both mothers of toddlers, adolescents and the elderly, approximately 80% of the targets participated in the ILP Posyandu activities carried out at Posyandu Kantil 2, Karangrejo Village, Kediri Regency. This is supported in addition to the location of the ILP Kantil 2 Posyandu being very

strategic, also because the community, especially the elderly, is motivated to get health services including lab tests carried out facilitated at the ILP Posyandu. The ILP Posyandu in Karangrejo Village has been implemented well, as shown by This integration is carried out by bringing health services closer through networks to the village/sub-district level, targeting the entire life cycle as its platform, and strengthening local area monitoring (PWS) through monitoring with a health situation dashboard per village/sub-district.

In the implementation of the ILP posyandu, among others, in the implementation of the first initial activities, it still requires a long queue time because of the queue of people, both toddlers, teenagers and the elderly. Therefore, monitoring and evaluation efforts in the implementation of the ILP Posyandu activities need to be carried out continuously as following:

Proposed System

Proposed Prototype Design

Login Page

User access rights are very important to run the posyandu service information system to manage reporting data. Access rights can be set with the username and password features on the login menu as user access rights.

Main Menu Page

On the main menu page there are features that users can click according to their needs. These features include toddler registration, cadre list, toddler weighing list, toddler immunization list, making toddler referral letters, monthly UPGK activities, and there is a report print.

Toddler, Teenage and Elderly Registration Page

On the toddler, teenager and elderly registration page, there is a toddler, teenager and elderly registration form display, a registration feature and a card print feature, used to input data for each parent and their toddler, teenager and elderly. The data contains:

Toddler Data.

Parents data: NIK, full name, place/date of birth, address, religion, occupation, age.

Toddler data: full name, place/date of birth, age.

Adolescent Data

Parents data: NIK, full name, place/date of birth, address, religion, occupation, age

Adolescent Data: Full name, place/date of birth, age

Elderly Data

Elderly Data: Full name, place/date of birth, age

Toddler, Adolescent and Elderly Weighing and Measuring Page

The weighing and measuring page for toddlers, adolescents and elderly people.

This page is used to input data for each toddler, adolescent and elderly person being weighed. The data required on the weighing page for toddlers, adolescents and elderly people are name, place/date of birth, parent's name, family card number, NIK, age, weight, height, and complaints. The features on this page are the edit feature to replace data if there is a change in writing, update to make the inputted data permanent, delete to delete data, print, exit, and main menu.

Toddler, Adolescent and Elderly Health Recording and Examination Page. The toddler, adolescent and elderly health recording and examination page is used to input data

for each toddler, adolescent and elderly who undergoes a health check. The required data are Name, Family Card Number, NIK, health check conducted, health check results

Toddler Immunization health service and counseling page specifically for toddlers. The toddler health service and counseling page is used to input data for each toddler who is immunized. The required data on the toddler weighing and measuring page is Name, Family Card Number, NIK, HB-0, BCG, Polio I, DPT-HB-Hib I, Polio 2, DPT-HB-Hib 2, Polio 3, DPT-HB- Hib 3, Polio 4, IPV, Measles, Advanced DPT-HB-Hib, Advanced Measles, and Complaints. This page will also provide search, add, edit, update, delete, print, exit, and main menu features.

On the page of health services and counseling for Adolescents and Elderly, it is used to input data for each adolescent and elderly who receive health services and counseling. The data required are Name, Family Card Number, NIK, health services received, results of health services and counseling received by adolescents and elderly.

CONCLUSION

The ILP Posyandu in Karangrejo Village has been implemented well, as shown by this integration, which is carried out by bringing health services closer through networks to the village/sub-district level, targeting the entire life cycle as its platform, and strengthening local area monitoring (PWS) through monitoring with a health situation dashboard per village.

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