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IMPLEMENTATION OF MANAGEMENT INFORMATION SYSTEM IN SCHOOL HEALTH UNIT

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ABSTRACT

School-age children are the holders of the nation's leadership milestones in the future, with this regeneration the health of school-age children needs to be maintained. The school forum to improve the health status of school-age children is the School Health Unit (UKS) but the management of UKS is still in the manual stage. The purpose of this study is to analyze a management information system that can be used to effectively manage UKS. The method used is a literature review with two main databases, namely Google Scholar and the Garuda Portal. Of the 432 articles, they were selected to produce 6 selected articles which resulted in several information systems that can be used at UKS so that they can assist UKS users in terms of administrative management, medical e-records, and recording and integrated data that allows data to be conveyed to policy makers.

Keywords: UKS Application, UKS Technology, UKS Management Information System

INTRODUCTION

School-age children are the pillars of national leadership in the future, with this regeneration the health of school-age children needs to be maintained. School as a place for children to study should have a supportive, protective environment that provides a sense of security and comfort for children, which will greatly assist the process of finding identity (Yosada & Kurniati, 2019). The school platform for improving the health status of school-age children is the School Health Unit (UKS).

The School Health Program is a UKS program in the national education sector, which is implemented in all types and levels of education, both public and private schools, starting from elementary school (SD) to senior high school (SMA). Based on the principles of the UKS Management and Development Policy established by the Government and the UKS Group, UKS has three main programs known as Trias UKS. The three programs are, first, health education, which includes information and understanding about maintaining and improving health, and second, health services, which includes phototherapy. and third: a healthy school environment (Apriani & Gazali, 2018)

In fact, various problems still limit the implementation of the UKS policy. (Ministry of Health, 2018) states that there are several obstacles in implementing UKS, for example there are still many UKS teachers who are not trained, there are school and madrasah principals who do not support UKS, schools and madrasahs do not support it. support UKS. there are still

few doctors or youth health workers, lack of teacher motivation as UKS implementers, because UKS teachers lack credit, there are no health material guidelines to guide teachers, Innovation (Ervina et al., 2018). In addition, manual management and registration processes are obstacles in the management of UKS (Masturoh et al., 2019).

With the problems that occur at UKS including obstacles to the UKS administration process and UKS recording which is still manual, the researchers wanted to conduct a systematic review of the literature aimed at implementing a management information system in the School Health Enterprises (UKS).

RESEARCH METHODS

The method used is a literature study by searching databases from various references such as research journals, review articles and case reports related to the use of information systems in the School Health Enterprises (UKS). The inclusion criteria are as follows: the article is the result of research using a research model using the UKS management information system. Exclusion criteria are articles that are not full text and are not research results.

Literature was reviewed based on Google scholar database searches and the Garuda Portal with the following keywords: UKS Technology, UKS Information Systems and UKS Applications. The vulnerable years of publication of articles are between 2018-2022.3. Results and Discussions.

No	Title	Author/Years	Type Of Informati System	Result
1	“Implementasi Sistem Informasi Kesehatan Anak Sekolah Di Wilayah Kota Tasikmalaya Tahun 2018”	(Masturoh et al., 2019b)	Aplication SIKAS	The results show that the application is easy to use, but it takes resources to focus on data entry. There are still weaknesses in the results screening report, which cannot be done online, so that decision makers do not immediately know the results.
2	“Analisis Kebutuhan Sistem Informasi Konseling Kesehatan Gigi Siswa Disabilitas Intelektual Dengan Pieces Framework”	(Sakti, 2020)	PIECES Framework	The results of the analysis point to the need for an information system that can be accessed by the health and education sectors. This includes providing menus containing counseling plans and counseling messages, adding data to teaching materials, creating information dashboards, creating databases for storage and passwords for security in the system, and implementing prevention and intervention measures. for your engagement needs.
3	“Rancangan Basis Data Sistem Informasi Usaha Kesehatan Sekolah”	(Fadly & Fadilla, 2020)	model SDLC	The results of this database design will be in the form of a database of students' personal information and medical history, and staff will check weight, height, vital signs, and other checks needed to support elementary school students' nutritional data.
4	“The Analysis and Design of School Health Unit Information System”	(Absari & Liliana, 2021)	Waterfall Model	This system will help record student medical records in a more complete and integrated manner, providing student health reports via mobile devices that notify parents regularly.
5	“Perancangan Sistem Informasi Unit Kesehatan Sekolah Menggunakan Model Prototipe”	(Hamalik, 2008)	Unified Modelling Language (UML) and Entity Relationship Diagram (ERD),	This prototype model is effective in building a UKS information system quickly and according to the needs of UKS employees. Our prototyping principle is to always listen to our customers and modify systems to meet their needs. This system is sufficient to replace all manual UKS data processing procedures
6	“Sistem Informasi Usaha Kesehatan Sekolah (UKS) di SMAN 1 Pringgarata”	(Mulyodiputro & Pratama, 2019)	database MySQL	The information system consists of menus: Staff Menu, Drug Complaints, New Patient Registration, Patient Examination, Medicine and Report. the MySQL database facilitates the implementation of the UKS trias

Based on the results of the research conducted, several management information systems were found that could be applied to the School Health Enterprises (UKS). Based on research conducted by Masturo, et. Al explained that the use of the Sikas Application in health screening of school-age children can be done, however this application has drawbacks, namely there is no online feature yet and it is not yet possible to pass on the results of the screening directly to policy makers.

The results of research conducted by Sakti et al 2020, the use of PIECES Framework technology as an information system for managing School Health Enterprises (UKS) has produced a design that is very useful for managing UKS. This can be seen by providing educational materials, counseling schedules or exchanging consultation messages, besides that there is a dashboard for information on the condition of the UKS. This feature is also equipped with a data security system including a user and password so that it can be used as a medium for running the UKS work program optimally with promotive and preventive principles.

Research conducted by Fadli in 2020 describes the use of a management information system by utilizing the SDLC Model with distinctive features, namely health screening including weight and height, vital signs and nutrition-related examinations in elementary school children. The SDLC model makes it possible to store Health screening data so that the data obtained can be maintained.

The next UKS management information system model is the Waterfall Model, where this model has features that focus on recording integrated student medical records so as to produce Health report cards at the end of the semester, besides that if necessary this system can be connected to a notification system to parents. With this system, it is hoped that parents can easily receive student health information. (Absari, 2021)

Research conducted by Sutoyo 2020 provides a prototype model of the Unified Modeling Language (UML) and Entity Relationship Diagram (ERD), the results of the study state that this model can quickly build a UKS information system so that UKS management can run more efficiently.

The use of the MySQL database developed by Darmawan 2019 found that the mini site has an information system that has novelty with several menus such as the officer menu, medicine menu, complaints menu, new or old patient flow, registration procedures, pharmacies, medical record menus which are integrated into one.

CONCLUSION

The use of a management information system for managing School Health Enterprises (UKS) is very useful in creating a professional UKS. This is evidenced by the existence of several studies on the use of information systems in replacing the previously manual UKS process towards the use of information technology. However, there are several factors that influence the successful use of technology at UKS, namely the readiness of school stakeholders, UKS staff or the resources available at UKS. It is hoped that the results of this study can provide enlightenment to school health nurses to apply information technology at UKS.

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