# Analysis of the Influence of Human Capital and OCB on the Service Performance of Medical Personnel at Dr. M. Haulussy Ambon Public Hospital

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#### **ABSTRAK**

Masalah human capital dan organizational citizenship behavior berhubungan erat dengan kinerja pelayanan di rumah sakit. Kajian tentang hal itu masih sangat terbatas. Oleh karena itu, lewat penelitian ini permasalahan ini di eksplorasi. Tujuan penelitian ini adalah menganalisis pengaruh antara human capital dan OCB terhadap kinerja pelayanan tenaga medis rumah sakit umum dr Haulussy Ambon. Desain penelitian ini bersifat eksplanatori, yakni bertujuan mengungkapkan korelasi dan konribusi antarvariabel human capital dan OCB terhadap kinerja pelayanan. Objek penelitian, ini adalah yakni di Rumah Sakit Dr. M. Haulussy Ambon dengan sampel dalam penelitian ini berjumlah 66 orang tenaga medis yang dijadikan sebagai responden penelitian. Hasil Penelitian menunjukkan bahwa terdapat pengaruh secara signifikan dan positif antara human capital dan kinerja pelayanan tenaga medis, organizational citichenzip behavior berpengaruh signifikan dan positif terhadap kinerja pelayanan medis. Adapun Saran yang dapat diajukan adalah mengutamakan human capital dalam mengoptimalkan kinerja pelayanan dengan mendorong peningkatan pengetahuan, keahlian, ketrampilan dan kemampuan tenaga medis terkait dengan kebutuhan pelayanan yang harus diwujudkan di Rumah Sakit Umum dr Haulussy Ambon.

## **ABSTRACT**

The problem of human capital and organizational citizenship behavior is related to the performance of services in hospitals. Studies on this matter are very limited. Therefore, through the research, the possibility of the problems is explored. The study's purpose was to analyze the effect of human capital and OCB on the service performance of medical staff at Dr. M. Haulussy Ambon General Hospital. The research design is an associative explanatory survey, which is a study that purposes to reveal the correlation and contribution between human capital variables and OCB on service performance. The object of this research is Dr. M. Haulussy Ambon Hospital with a sample of 66 medical staff that was used as research respondents. The study's findings demonstrate that human capital has a significant and positive effect on the service performance of medical personnel; OCB has a significant and positive effect on the service performance of medical personnel. The suggestions that can be submitted are prioritizing human capital in optimizing service performance by encouraging an increase in the knowledge, expertise, skills, and abilities of medical personnel related to service needs that must be realized at Dr. Haulussy Ambon Public Hospital.

## INTRODUCTION

Hospitals tend to be a type of public service organization that has an essential role in human resources (Nafari & Rezaei, 2022). Hospitals provide professional health services to the community (Boselie et al., 2021). Adequate health personnel resources needed are required to realize competitive services (Sahetapy & Jesajas, 2023). The most crucial component for an organization's development is thought to be its human capital (Ahmed et al., 2020). Human capital management including doctors and other medical personnel are interdependent as a

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sub-system within the hospital, and have an influence on the quality of service (Osibanjo et al., 2020).

Improving the quality of human capital is one of the efforts that must be achieved to comprehend the importance of the existence of human resources in the current global era (Davidescu et al., 2020). By improving the quality of human capital, employees are expected to achieve increased performance (Imran & Atiya, 2020). Skills, abilities, and knowledge are the components of human capital referred to (Pasban & Nojedeh, 2016; Aman-Ullah et al., 2022).

According to the World Economic Forum (WEF) study on the competitiveness rankings of 141 nations worldwide, Indonesia is ranked <sup>50th</sup>; leveling down 5 ranks from the previous year. One of the reasons for this decline is the lack of human capital in Indonesia.

Meanwhile, based on the Regulation of the Minister of Health of the Republic of Indonesia Number 129 / Menkes / SK / II / 2008 concerning Minimum Service Standards for Hospitals, it explains that hospitals are health facilities for the community, which have a very strategic role in accelerating the improvement of public health status. In this case the Hospital is required to be able to provide quality services, based on established standards and be able to reach the entire community (Modi et al., 2019).

This can be seen from health metrics, the number of human resources, and the ability to employ employees (Sembiring, 2022). Human capital is a combination of knowledge, experience, skills, and encouragement for innovation owned by employees (Chiganze & Sagsan, 2022). Human capital is a quality of a person that is obtained by someone through experience, training, and education (Raghupathi & Raghupathi, 2020). Human capital also includes all employees of the organization and their ability to complete their tasks successfully (Rahman & Akhter, 2021).

According to Pasamar et al. (2019), human capital is the most important resource in public organizations and functions as a center for intellectual capital to achieve goals. There is a strong leader with the necessary expertise to manage every aspect. Human capital is one of the factors that ensure that human capital management is successful. In addition, innovative and high-quality human capital can be created through human capital investment in the form of training and development, improving work quality, and providing welfare for employees (Kruk et al., 2018).

Hospitals, as service-providing organizations, need to create qualities that are beneficial to their employees (Fiakpa et al., 2022). Everyone who works in the health service sector must try to satisfy everyone who gets health services (Mosadeghrad, 2014). This satisfaction can be achieved through external and internal users. Good service is service that makes customers feel satisfied (Upadhyai et al., 2019). It is increasingly important for hospitals to maintain employee competence, while controlling operational costs (Hannawa et al., 2022). The results of his previous research showed that human capital has a positive impact on employee performance (Perera & Weerakkody, 2018; Yimam, 2022).

Global data informs that hospitals have an important role in patient health. Research results from Nigeria state that the health quality system in Nigeria is considered weak and below expectations (Oladapo et al., 2016; Okonofua et al., 2018). Treatment ignores the quality and standards that have been set (Fiakpa et al., 2022). For the sake of safety, Nigerian citizens prefer to use private hospitals at high cost or travel abroad for quality health care (Adeloye et al., 2017). Other information explains that in China many people complain that access to health is difficult, medical resources are not available evenly distributed in China. In China,



there are not many skilled health personnel. The best medical resources are more available in coastal areas and big cities. Meanwhile, they leave medical institutions in less developed areas (Anand et al., 2008). Therefore, the level of service in hospitals is crucial (Lupo, 2013). Other data inform that in Iran the quality of service in hospitals is very well considered. This is proven by 1) The number of maternal mortality has decreased, 2) Up to 90% of the rural population and almost all urban residents have adequate access, and 3) Life expectancy at birth has increased to 73% (Mosadeghrad, 2014). In addition, Jordan has a fairly advanced healthcare system. This is demonstrated by the high level of service provided by Jordan's largest government hospital, Al-Bashir Hospital. with the provision of skilled medical nurses who have the latest technology served by expert doctors to provide high-quality health services. The hospital's vision is for Al-Bashir Hospital to become a leading institution in promoting health services and medical education for the communities they serve (Al-Damen, 2017).

For Indonesia when entering the endemic period in 2023, it does not mean that health sector services are light. The quality of service must continue to be improved. During the pandemic, the focus of health was directed at overcoming covid-19, which resulted in many health service programs being neglected. Service Standards that have been regulated in Article 58 of Law Number 36 of 2014 concerning Health Workers, which regulates the procedures for health services to patients. However, health services at several Puskesmas are not in accordance with the above rules, due to the low level of health services by health workers who are not disciplined in carrying out their duties as mandated by law (Ari Prasetyowati et al., 2019).

When the company is led by different management, then the performance will be different, and human capital is also dissimilar. In addition, the same assets managed differently will result in different added value (Tran & Vo, 2020). According to research conducted by Al-Tit et al. (2022), investment in HC has a significant positive effect on employee performance in the form of skills, knowledge, attitudes, and commitment. In addition to human capital, researchers' interest in organizational citichenzip behavior (OCB) research has expanded from organizational behavior to various domains such as human capital management (Harvey et al., 2018), in the field of marketing (Podsakoff et al., 2000), the field of human capital development human beings, administration of hospitals, healthcare, and others (Rose, 2016).

The idea of OCB, which has been used extensively in the study literature, states that it is made up of five components: civic virtue, sportsmanship, general obedience, politeness, and altruism (Taye, 2023). In addition, Wahda et al. (2020) describe OCB as actions that make an indirect contribution to the organization by maintaining the social system of the organization. Variables have been the focus of OCB research. such as employee mood, organizational commitment, interpersonal trust, and job satisfaction (Na-Nan et al., 2020). In addition, performance, customer service and satisfaction, sales income, and financial efficiency are OCB's effects (Basu et al., 2017). The relationship between OCB and performance indicates that OCB is beneficial to the organization (Andrew & Cazares, 2015). Ehrhart et al. (2006) found that Unit effectiveness and OCB unit level are related. Whiting et al. (2008) stated that OCB has a major influence on performance evaluation decisions. Indicators of employee retention in an organization are Sportsmanship, civic virtue, and helping others

Following the performance of hospital services means that it relates to the work performance of medical and non-medical personnel on what is produced through service to the community. Hospitals encounter the challenge of maintaining and improving employee performance; accordingly, hospitals remain ideal because what they offer is service to customers. Customers will be satisfied with hospital services if the performance of the medical staff is appropriate (Karaca & Durna, 2019; Liu et al., 2021). Performance tends to be the most essential in

maintaining the quality of customer service remains high by organizational expectations. Employee performance has a major effect on customer satisfaction (Liu et al., 2021). Regional Public Hospital (RSUD) Dr. M. Haulussy Ambon, which is managed by the local government, can provide specialist medical services, including basic specialist doctors, supporting specialist doctors, and general practitioners.

The phenomenon of OCB is also challenging to study because not all workers can exhibit OCB behavior. Nurses who perform OCB can provide the best service to patients and their families even though the number of nurses is limited and their workload is excessive. According to the Indonesian Republic of Health Minister's Regulation, No. 340/ Menkes /Per/III/2010, standardization of general medical services includes basic medical services, emergency services, basic specialists, medical support, oral dental specialists, nursing and midwifery, subspecialists, clinical support, non-clinical support, psychiatrists, and others. The service at Dr. Haulussy Ambon Hospital is currently being faced with competitive conditions, which is the presence of large and quite well-known private hospitals, including Siloam Hospital and also Dr. Leimena Hospital. Ambon Public Hospital medical personnel are expected to be able to maximize Human Capital and OCB Behavior.

Health workers at Dr. Haulussy Ambon Hospital is still not flexible and optimal in providing services and making procedures and administration. One important factor that determines the quality of health services in hospitals is the nurse (Choi et al., 2023). Hospitals should fulfill the community's expectations for appropriate health services by prioritizing patient interests and encouraging nurses to work together as a team (Krismanto & Irianto, 2020). In addition, the hospital tries to provide the best service in terms of quality planning, expertise, and the right skills when acting. To meet the demands of society for good quality health services, nurses must also be willing to do "extra" tasks besides their main duties. In addition, the hospital tries to provide the best service in terms of quality planning, expertise, and the right skills when acting.

Better decision-making processes and increased competitiveness are influenced by appropriate human capital management. Human capital is considered the most important component for the progress of a company (Peprah & Ganu, 2018). As a result, human capital management becomes very important in RSUD Dr. M. Haulusy Ambon. Human capital in the health sector must continue to adapt, innovate, be effective, and perform if they want to present innovative advances in public health in this era of disruption full of digitalization advances (Iyanna et al., 2022; Iyanna et al., 2022). Previous studies have examined separately the influence of human capital and Organizational Citizenship Behavior on Service Performance in Hospitals. Based on the study above, the purpose of this study was to examine the effect of human capital and organizational citizen behavior on the performance of medical personnel at Dr. M. Haulussy Ambon Hospital.

## **Literature Reviews**

Hospitals are advanced healthcare institutions that provide complete medical care to individuals. Patient safety is the main concern. Darzi et al. (2022) stated that the quality of the intended health services conforms to the requirements and expectations of patients and optimize clinical outcomes using available resources. As a result, hospital medical resources as human resources improve the quality of patient service. The skills, expertise, knowledge, and abilities of medical personnel in serving patients will be assessed by people who use hospital services (Søvold et al., 2021).

At hospitals, OCB is most important because patients need special care and good medical professionals, such as doctors, nurses, pharmacists, etc., in dealing with them. OCB supports the patient's morale and their healing efforts (Firmansyah et al., 2022). High OCB behavior will help hospitals achieve their goals and improve their performance (Abd-Elaziem et al., 2022). Therefore OCB will improve service efficiency, patient satisfaction, improve the hospital's corporate image, and produce organizational performance achievements. Service performance refers to an achievement indicator of public services conducted by organizations or agencies aimed at the interests of the community (Gomes, 2006; Saturno-Hernández et al., 2019). Measuring the performance of public sector services is a form of evaluating the level of performance achievement that has been implemented (van der Kolk, 2022). Organizational performance is a measure of the level of achievement that has been achieved and shows the level of success of managers or entrepreneurs. Performance is also the result of how people behave in organizations (Ángeles López-Cabarcos et al., 2022). In public organizations, a performance-based management system (performance-based management) should be implemented to improve performance. This is especially true for public sector organizations.

In addition, the welfare of medical personnel in hospitals must receive attention, because it will encourage increased OCB in service to the community (Taghinezhad et al., 2015). The novelty of the research results is expected to produce something new in public services in the form of service performance for medical personnel in hospitals. Findings in the field revealed that the management of human capital and organizational behavior in service assignments in hospitals is still not optimal. Although many studies have discussed the relationship between HC and performance, there are still not many that combine the relationship between human capital and OCB with hospital performance. Much evidence shows that the knowledge, skills, and abilities that are not optimal and the low extra-role behavior of a medical worker will have an impact on the service performance of medical personnel and hospitals. Therefore, through this research, the problem is deepened by revealing the results of the problem analysis. The new paradigm resulting from this research is expected to add new insights, both theoretically and practically, and can be tested by future researchers.

## **RESEARCH METHODS**

The research design leads to explanatory survey, which is research that aims to reveal correlations and contributions between variables that are the focus of research objects, namely human capital, OCB, and service performance at Dr. M. Haulussy Hospital Ambon. This research activity was carried out at Dr. M. Haulussy Ambon Hospital with a target time of 3 months and completion according to the time schedule. In this study, the population, namely the total number of employees, was 197 employees by calculating the sample size which was carried out using the Slovin technique. So the sample was taken as many as 66 people (respondents) consisting of 58 female medical personnel and 8 male medical personnel, who have an age range of 35-50 years, as the productive age of work. The number of respondents has met the minimum sample requirements.

The definition of a variable is a substantive explanation of a research variable; so that it has clear boundaries and does not deviate from the operationalization path which focuses on measurement towards its limits (Andrade, 2021). For this reason, a clear definition of this research variable is presented and described as follows, 1) Human Capital are the skills, experience and relevant attributes of the workforce in an organization's work force and enhance productivity, performance and achievement of strategic objectives.2 ) Organizational

Citichenzip Behavior is voluntary employee behavior carried out to achieve goals of the company, in which this action is a form of performance satisfaction that is not in the official rules of the organization and is not directly related to the formal reward system. 3) Service Performance is the ability or achievement produced about service to the public.

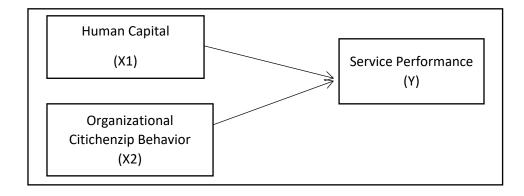
In connection with the understanding of the variables mentioned above, for operational purposes, it is explained that operational variables are carried out to determine the type of data needed by analyzing the variables and their dimensions/indicators and explained in detail according to their determination and position . The variables are Human Capital (X1) and organizational citichenzip behavior (X2) as independent variables and service performance (Y) as the dependent variable as listed in Table 1.

Table 1. **Operational variables** 

Variable	Indicator
Human Capital	1. Knowledge
	2. Skills
	3. Expertise
	4. Ability
Organizational Citichenzip Behavior	Altruism: employee behavior in helping colleagues in situations that are being faced regarding organizational tasks
	<ol><li>Civic Virtue: behavior that shows responsibility for organizational life, where employees tend to take initiative and follow organizational developments</li></ol>
	<ol> <li>Conscientiousness: behavior shown by trying to do more than expected by the organization which is not the responsibility or obligation of the employee concerned</li> </ol>
	4. Sportsmanship: behavior that does not oppose conditions that are not ideal in the organization.
Service Performance	1. Performance-based on service quality
	2. Performance-based on the quantity of service
	3. Performance-based on timeliness of service
	4. Performance-based on service effectiveness

In addition, if the operational variables are generated into a correlational statistical model and causality can be shown in Figure 1.

Figure 1. **Conceptual Model** 





## **RESULTS AND DISCUSSIONS**

## **Data Validity and Reliability Test**

A validity test in research is used to measure the validity of a questionnaire. If the questions in the questionnaire reveal what the questionnaire measures are, then the questionnaire is considered valid (Tsang et al., 2017).

Table 2. **Validity Test** 

R					
Variables	Items	R count	Table	Information	
	X1.1	0.786	0.278	Valid	
	X1.2	0.822	0.278	Valid	
	X1.3	0.773	0.278	Valid	
Human Capital (X1)	X1.4	0.834	0.278	Valid	
	X1.5	0.663	0.278	Valid	
	X1.6	0 .526	0.278	Valid	
	X1.7	0.695 _	0.278	Valid	
	X1.8	0.512 _	0.278	Valid	
	X2.1	0.487	0.278	Valid	
	X2.2	0.649	0.278	Valid	
	X2.3	0.672	0.278	Valid	
Organizational Citizenship	X2.4	0.471	0.278	Valid	
Behavior (X2)	X2.5	0.453	0.278	Valid	
	X2.6	0.514	0.278	Valid	
	X2.7	0.765	0.278	Valid	
	X2.8	0.743	0.278	Valid	
Service Performance (Y)	Y. 1	0.573	0.278	Valid	
	Y.2	0.660	0.278	Valid	
	Y.3	0.763	0.278	Valid	
	Y.4	0.566	0.278	Valid	
	Y.5	0,607 _	0.278	Valid	
	Y.6	0.647 _	0.278	Valid	
	Y.7	0.622 _	0.278	Valid	
	Y.8	0.560 _	0.278	Valid	

To measure validity, this can be done by comparing the score of the question item with the total score of the construct or variable. Meanwhile, a statistical criterion is established to determine whether the score of each item is valid or not, a statistical standard is set as follows.

- If r count > r table and has a positive value and then the variable is valid
- If r count < r table, and then the variable is not valid.

Based on Table 2, it can be concluded that with the results of the validity test of all statement indicators contained in the questionnaire as a measuring tool for the effect of work motivation on nurse performance, the results of all statement items submitted by researchers in the questionnaire were declared valid. This proves that the r count value is greater than the r table value (r count value > r table value), where the r table value is 0.278 with a total sample of 66 nurses at the hospital.

Reliability is a prerequisite for the questionnaire to be effective for a particular purpose; the reliability test was carried out jointly on all question items in the questionnaire. Reliable instruments will provide correct data under actual conditions. A variable is said to be reliable or unreliable if it gives a Cronbach's Alpha value ≥ 0.60 (Taber, 2018). Table 3 shows the results of reliability testing.

Table 3. Reliability testing

Variables	Cronbach's alpha	Standard Values	Information
Human Capital (X1)	0.798	0.60	Reliable
Organizational Citizenship Behavior (X2)	0.723	0.60	Reliable
Service performance (Y)	0.74	0.60	Reliable

Source: primary data processed by SPSS version 26

Based on the data in Table 3, it can be concluded that the results of the reliability test of all indicators in the statement items contained in the questionnaire for each variable have a standard value of 0.60. Thus it can be concluded that the questionnaire data used in this study is reliable or acceptable.

# **Multiple Linear Regression Analysis**

Multiple linear regression is the regression model used to determine the influence of Human Capital and OCB variables on Service performance. Complete statistical calculations in multiple linear regression analysis are in the appendix and are further explained in Table 4.

> Table 4. **Results of Multiple Regression Analysis**

•				
Unstandardized Cooficients	tcount	Sig	Information	
0,154				
,613	6,799	.000	Significant	
,348	3,872	,000	Cianificant	
			Significant	
	Cooficients 6,154 ,613	Cooficients tcount 6,154 ,613 6,799	Cooficients tcount Sig 6,154 ,613 6,799 .000	

Dependent Variable: Y

Source: primary data processed by SPSS version 25

Based on the table above, the calculation analysis of the T-test is as follows:

- a. The count value for the Human Capital variable is 6,799 with a significant level of 0.000 The result explaining the significance value is 0.000 < 0.05, it can be concluded that the first hypothesis is accepted; that there is a positive and significant effect of Human Capital on the performance of medical personel services at Dr. M. Haulussy Ambon General Hospital.
- b. The t count value for the variable Organizational Citichenzip Behavior is 3,872 and significance level of 0.000 < 0.05 so it can be concluded that the second hypothesis is accepted, namely that there is a positive and significant effect of Organizational Citichenzip Behavior on the service performance of medical personnel at Dr. M. Haulussy Ambon General Hospital.



The regression equation model can be obtained by looking at the unstandardized coefficients in the table above, and then the equations of the regression can be formulated:

## Y = 6.154 + 0.613X1 + 0.348X2

Based on the results of the regression equation, it is found that 1) the constant value is 6.154 indicating that if the value of human capital and Organizational Citichenzip Behavior is 0 then service performance increases by 6.154. 2) For the Human Capital variable (X1) it gives a positive value of 0.613 meaning that every change in Human Capital (X1) will affect efforts to improve the service performance by 61.3. 3) In the variable (X2) the result is a positive value of 0.348. This means that every change in Organizational Citichenzip Behavior (X2) will affect an increase in service performance (Y) of 34.8.

#### **Model Summary**

Model	R	R Square	Adjusted R Square	std. The error of the Estimate
1	.831 <sup>a</sup>	,691	.681	2,556

a. Predictors: (constant) X2, X1...

b. Dependent Variable: Y

As it can be seen in the model summary table, the value in column R Square is 0.691, meaning that the contribution made by Human Capital and Organizational Citichenzip Behavior on the Service Performance of Medical Personnel at Dr. Haulusy Ambon General Hospital is 69.1%, while the remaining 30.9% is influenced by other factors outside the research model.

Human Capital in Dr. M. Haulussy Ambon Hospital is the main asset of the organization. Human Capital includes all employees of the organization and their ability to complete their tasks (Lenihan et al., 2019).

The results of this study show that Human Capital significantly influences on service performance. If Knowledge, skills, expertise, and human abilities must be managed properly, the service performance of medical personnel can increase. Optimal employee work performance can only occur if company leaders can control human resources until they become reliable human resources. Leaders are people who play a big role in creating an ideal and supportive work environment (Notanubun et al., 2019; Kempa et al., 2019). Each Leader is unique with different talents, an organization such as a hospital needs to have talent mapping for the chosen structural position. Talent mapping is used to identify prospective leaders who have competence and fit the culture and work environment so it can improve employee performance. Therefore talent management is required in the current era (Eliyana et al., 2019). It is important to note that the importance of medical personnel services cannot be replaced by technology. If the management of human capital is not managed properly, it will affect the low quality of service to the public. In addition, human capital has a positive and significant effect on employee performance (Felício et al., 2014); (Baig et al., 2021).

The results of this study also show that OCB significantly influences on service performance. OCB is voluntary behavior outside of primary responsibility. OCB for medical personnel is very important because services to patients are often carried out in full and outside working hours. The OCB behavior of medical personnel is also seen in helping colleagues, taking full responsibility for work, and being able to work without limits. This finding confirms the findings of previous studies which have found that OCB helps managers and co-workers do their jobs by aiding more efficient scheduling, problem-solving, and planning (Dubey et al.,

2023). In addition, OCB helps improve service quality (Hadjali & Salimi, 2012) and high OCB behavior will help hospitals achieve their goals and improve their performance (Obamiro et al., 2014). These findings are in line with research in China that doctors practicing in hospitals as the main providers of medical services play an important role in determining the quality of health services and promoting OCB behavior. The doctor-patient relationship is a strong predictor of physician OCB. Doctor-patient communication directly affects the OCB of specialist doctors. OCB is considered to be discretionary work behavior that enhances the effective functioning of the organization. OCB can improve the quality of service by facilitating the achievement of hospital goals and improving the performance of doctors. This is reflected in more efficient medical personnel services and improved relationships with patients and medical personnel (Han et al., 2018). Therefore OCB affects social capital; where communication and behavior greatly affect the relationship between employees and customers (Jafari et al., 2020).

The research results achieved at the same time prove that the conceptual approach to human capital theory and OCB and theoretical and practical service performance has been successfully operationalized and tested in answering research problems. In addition, it is proven that the research results that have been achieved also differ in correlational and contribution sizes and levels of significance (Kizilos et al., 2013; Iqbal et al., 2022). OCB is not only important for building organizational culture and performance, but also an effective element in building human capital. In leadership development, OCB greatly contributes to job satisfaction; which encourages employees to work well to achieve customer satisfaction (Bambale et al., 2011); (Jeong et al., 2019).

## CONCLUSIONS

Several conclusions that can be put forward based on these findings can be expressed as follows: 1) Human Capital has a positive and significant effect on service performance of Medical Personnel at Dr. M. Haulussy Ambon General Hospital. 2) OCB has a positive and significant effect on service performance of Medical Personnel at Dr. Haulussy Ambon public hospital. The limitation of this research is that the object of research is limited to public services, namely public hospitals so that it cannot be generalized to other companies or organizations. The theoretical implication of this research is that it can enrich the theoretical repertoire of Human Capital, OCB and service performance. Suggestions that can be submitted are prioritizing Human Capital. In optimizing service performance by encouraging an increase in the knowledge, expertise, skills, and abilities of medical personnel related to the demands for service needs that must be realized at the Dr. Haussy Ambon public hospital. Besides that, the output of the results of this study can be developed and used as a model of human capital and organizational behavior as a follow-up to operationalization at Dr. Haulussy Ambon public hospital.

## REFERENCES

- Abd-Elaziem, M., Elmasry, E., Mabrouk, R., Rahman, A. El, & Mostafa, W. H. (2022). Relationship between nurses' organizational commitment and their organizational citizenship behavior. International Journal of Novel Research in Healthcare and *Nursing*, *9*(1), 52–62. www.noveltyjournals.com
- Adeloye, D., David, R. A., Olaogun, A. A., Auta, A., Adesokan, A., Gadanya, M., Opele, J. K., Owagbemi, O., & Iseolorunkanmi, A. (2017). Health workforce and governance: The Nigeria. Human Resources for Health, 15(1), https://doi.org/10.1186/s12960-017-0205-4

- **JMPB**
- Ahmed, S. S., Guozhu, J., Mubarik, S., Khan, M., & Khan, E. (2020). Intellectual capital and business performance: the role of dimensions of absorptive capacity. *Journal of Intellectual Capital*, 21(1), 23–39. https://doi.org/10.1108/JIC-11-2018-0199
- Al-Damen, R. (2017). Health Care Service Quality and Its Impact on Patient Satisfaction "Case of Al-Bashir Hospital." *International Journal of Business and Management*, 12(9), 136. https://doi.org/10.5539/ijbm.v12n9p136
- Al-Tit, A. A., Al-Ayed, S., Alhammadi, A., Hunitie, M., Alsarayreh, A., & Albassam, W. (2022). The Impact of employee development practices on human capital and social capital: the mediating contribution of knowledge management. *Journal of Open Innovation: Technology, Market, and Complexity,* 8(4), 1–17. https://doi.org/10.3390/joitmc8040218
- Aman-Ullah, A., Mehmood, W., Amin, S., & Abbas, Y. A. (2022). Human capital and organizational performance: A moderation study through innovative leadership. *Journal of Innovation and Knowledge, 7*(4), 1–9. https://doi.org/10.1016/j.jik.2022.100261
- Anand, S., Fan, V. Y., Zhang, J., Zhang, L., Ke, Y., Dong, Z., & Chen, L. C. (2008). China's human resources for health: quantity, quality, and distribution. *The Lancet*, *372*, 1774–1781. https://doi.org/10.1016/S0140-6736(08)61363-X
- Andrade, C. (2021). A student's guide to the classification and operationalization of variables in the conceptualization and design of a clinical study: part 2. *Indian Journal of Psychological Medicine*, 43(3), 265–268. https://doi.org/10.1177/0253717621996151
- Andrew, S. A., & Cazares, F. L. (2015). Behavior on organizational performance: empirical analysis of public employees in. Mediating Effects of Organizational Citizenship Behavior on Organizational Performance: Empirical Analysis of Public Employees in Guadalajara, Mexico, 12, 71–93. http://www.scielo.org.mx/pdf/ecoqu/v12n2/1870-6622-ecoqu-12-02-00071.pdf
- Ángeles López-Cabarcos, M., Vázquez-Rodríguez, P., & Quiñoá-Piñeiro, L. M. (2022). An approach to employees' job performance through work environmental variables and leadership behaviours. *Journal of Business Research*, 140, 361–369. https://doi.org/10.1016/j.jbusres.2021.11.006
- Ari Prasetyowati, T., Woro Kasmini Handayani, O., Raya Pati Kudus Km, J., & Margorejo, K. (2019). Analysis promotion efforts of exclusive breastfeeding (A qualitative study in Puskesmas Pati II). *Public Health Perspectives Journal*, 4(1), 73–82. https://journal.unnes.ac.id/nju/index.php/phpj/article/view/17622
- Baig, S. A., Iqbal, S., Abrar, M., Baig, I. A., Amjad, F., Zia-ur-Rehman, M., & Awan, M. U. (2021). Impact of leadership styles on employees' performance with moderating role of positive psychological capital. *Total Quality Management and Business Excellence*, 32(9–10), 1085–1105. https://doi.org/10.1080/14783363.2019.1665011
- Bambale, A. J., Shamsudin, F. M., & Subramaniam, C. (2011). Stimulating organizational citizenship behavior (OCB) research for theory development: Exploration of leadership paradigms. *International Journal of Academic Research in Business and Social Sciences*, 1. 48–69.
- Basu, E., Pradhan, R. K., & Tewari, H. R. (2017). Impact of organizational citizenship behavior on job performance in Indian healthcare industries: The mediating role of social capital. *International Journal of Productivity and Performance Management*, 66(6), 780–796. https://doi.org/10.1108/IJPPM-02-2016-0048
- Boselie, P., Van Harten, J., & Veld, M. (2021). A human resource management review on public management and public administration research: stop right there...before we go any further.... *Public Management Review*, 23(4), 483–500. https://doi.org/10.1080/14719037.2019.1695880

- Chiganze, T., & Sağsan, M. (2022). Relationship between human capital, innovation capability and employee job performance in academic libraries in Namibia, South Africa, and Zimbabwe. Libri, 72(3), 317–334. https://doi.org/10.1515/libri-2021-0037
- Choi, K. R., Brush, B. L., Chapman, S. A., Costa, D. K., Feder, S. L., Gutierrez, J. I., Heilemann, M. S. V., Manojlovich, M., Noonan, D., Park, L. G., Potempa, K., & Sochalski, J. (2023). Preparing nurse scientists for health services and policy research: Five-year outcomes of interprofessional postdoctoral training in the National Clinician Scholars Program. Nursing Outlook, 71(4), 1–7. https://doi.org/10.1016/j.outlook.2023.102024
- Darzi, M. A., Islam, S. B., Khursheed, S. O., & Bhat, S. A. (2022). Service quality in the healthcare sector: a systematic review and meta-analysis. LBS Journal of Management & Research, 21(1), 13-29. https://doi.org/10.1108/LBSJMR-06-2022-0025
- Davidescu, A. A. M., Apostu, S. A., Paul, A., & Casuneanu, I. (2020). Work flexibility, job satisfaction, and job performance among romanian employees-Implications for sustainable human resource management. Sustainability (Switzerland), 12(15), 1-53. https://doi.org/10.3390/su12156086
- Dubey, P., Pathak, A. K., & Sahu, K. K. (2023). Assessing the influence of effective leadership on job satisfaction and organisational citizenship behaviour. Rajagiri Management Journal, 17(3), 221–237. https://doi.org/10.1108/ramj-07-2022-0108
- Ehrhart, M. G., Bliese, P. D., & Thomas, J. L. (2006). Unit-level OCB and unit effectiveness: Examining the incremental effect of helping behavior. Human Performance, 19(2), 159-173. https://doi.org/10.1207/s15327043hup1902\_4
- Eliyana, A., Ma'arif, S., & Muzakki. (2019). Job satisfaction and organizational commitment effect in the transformational leadership towards employee performance. European Management and **Business** Economics, 25(3), https://doi.org/10.1016/j.iedeen.2019.05.001
- Felício, J. A., Couto, E., & Caiado, J. (2014). Human capital, social capital and organizational performance. Management Decision, 52(2), 350-364. https://doi.org/10.1108/MD-04-2013-0260
- Fiakpa, E. A., Nguyen, T. H., & Armstrong, A. (2022). Assessing service quality and the perceptual difference between employees and patients of public hospitals in a developing country. International Journal of Quality and Service Sciences, 14(3), 402-420. https://doi.org/10.1108/IJQSS-09-2021-0127
- Firmansyah, A., Junaedi, I. W. R., Kistyanto, A., & Azzuhri, M. (2022). The effect of perceived organizational support on organizational citizenship behavior and organizational commitment in public health center during COVID-19 pandemic. Frontiers in Psychology, 13, 1–5. https://doi.org/10.3389/fpsyg.2022.938815
- Gomes, R. C. (2006). Stakeholder management in the local government decision-making area: evidences from a triangulation study with the English local government. BAR - Brazilian Review, 3(1), 46-63. https://doi.org/10.1590/s1807-Administration 76922006000100005
- Hadjali, H. R., & Salimi, M. (2012). An Investigation on the Effect of Organizational Citizenship Behaviors (OCB) Toward Customer-orientation: A Case of Nursing Home. Procedia -Social and Sciences, 57, 524-532. Behavioral https://doi.org/10.1016/j.sbspro.2012.09.1220
- Han, R., Wei, L., Li, J., Zhang, D., & Li, H. (2018). The mediating effects of job satisfaction on the association between doctor-patient relationship and ocb among physicians in china. Iranian Journal of Public Health, 47(5), 698–705.
- Hannawa, A. F., Wu, A. W., Kolyada, A., Potemkina, A., & Donaldson, L. J. (2022). The aspects of healthcare quality that are important to health professionals and patients: A

- **JMPB**
- qualitative study. *Patient Education and Counseling*, 105(6), 1561–1570 https://doi.org/10.1016/j.pec.2021.10.016
- Harvey, J., Bolino, M. C., & Kelemen, T. K. (2018). Organizational citizenship behavior in the 21st century: How might going the extra mile look different at the start of the new millennium? *Research in Personnel and Human Resources Management*, 36(July), 51–110. https://doi.org/10.1108/S0742-730120180000036002
- Imran, R., & Atiya, T. M. S. (2020). The role of high-performance work system and human capital in enhancing job performance. *World Journal of Entrepreneurship, Management and Sustainable Development, 16*(3), 195–206. https://doi.org/10.1108/WJEMSD-09-2019-0074
- Iqbal, M. B., Li, J., Yang, S., & Sindhu, P. (2022). Value-driven career attitude and job performance: An intermediary role of organizational citizenship behavior. *Frontiers in Psychology*, *13*, 1–14. https://doi.org/10.3389/fpsyg.2022.1038832
- Iyanna, S., Kaur, P., Ractham, P., Talwar, S., & Islam, A. K. M. N. (2022). Digital transformation of healthcare sector. What is impeding adoption and continued usage of technology-driven innovations by end-users? *Journal of Business Research*, 153, 150–161. https://doi.org/10.1016/j.jbusres.2022.08.007
- Jafari, M., Ghasemyani, S., Sadeghifar, J., Shams, L., & Naderimanesh, K. (2020). Relationship between Organizational Citizenship Behavior and Social Capital: Survey from Hospital Setting. Hospital Topics, 98(3), 81–88. https://doi.org/10.1080/00185868.2020.1784813
- Jeong, Y., Kim, E., Kim, M., & Zhang, J. J. (2019). Exploring relationships among organizational culture, empowerment, and organizational citizenship behavior in the South Korean professional sport industry. *Sustainability (Switzerland)*, 11(19), 1–16. https://doi.org/10.3390/su11195412
- Karaca, A., & Durna, Z. (2019). Patient satisfaction with the quality of nursing care. *Nursing Open*, 6(2), 535–545. https://doi.org/10.1002/nop2.237
- Kempa, R., Ridi, E., Batlolona, J. R., & Laurens, T. (2019). Evaluating equitable distribution of teacher in Southwest Maluku regency, Indonesia. *Journal for the Education of Gifted Young Scientists*, 7(4), 1–30. https://doi.org/10.17478/jegys.573546
- Kizilos, M. A., Cummings, C., & Cummings, T. G. (2013). How High-Involvement Work Processes Increase Organization Performance: The Role of Organizational Citizenship Behavior. Journal of Applied Behavioral Science, 49(4), 413–436. https://doi.org/10.1177/0021886313479998
- Krismanto, H., & Irianto, S. (2020). Analisis kualitas pelayanan rawat jalan pada rumah sakit umum daerah (RSUD) Kota Dumai. *Jurnal Manajemen Pelayanan Publik, 3*(1), 32–48. https://doi.org/10.24198/jmpp.v3i1.26677
- Kruk, M. E., Gage, A. D., Arsenault, C., Jordan, K., Leslie, H. H., Roder-DeWan, S., Adeyi, O., Barker, P., Daelmans, B., Doubova, S. V., English, M., Elorrio, E. G., Guanais, F., Gureje, O., Hirschhorn, L. R., Jiang, L., Kelley, E., Lemango, E. T., Liljestrand, J., ... Pate, M. (2018). High-quality health systems in the Sustainable Development Goals era: time for a revolution. *The Lancet Global Health*, 6(11), 1196–1252. https://doi.org/10.1016/S2214-109X(18)30386-3
- Lenihan, H., McGuirk, H., & Murphy, K. R. (2019). Driving innovation: Public policy and human capital. *Research Policy*, 48(9), 1–19. https://doi.org/10.1016/j.respol.2019.04.015
- Liu, S., Li, G., Liu, N., & Hongwei, W. (2021). The Impact of Patient Satisfaction on Patient Loyalty with the Mediating Effect of Patient Trust. *Inquiry (United States)*, *58*, 1–11. https://doi.org/10.1177/00469580211007221

- Lupo, T. (2013). A fuzzy ServQual based method for reliable measurements of education quality in Italian higher education area. Expert Systems with Applications, 40(17), 7096–7110. https://doi.org/10.1016/j.eswa.2013.06.045
- Modi, S., Ozaydin, B., Zengul, F., & Feldman, S. S. (2019). The emerging literature for the triad of health informatics, healthcare quality and safety, and healthcare simulation. Health Systems, 8(3), 215–227. https://doi.org/10.1080/20476965.2019.1687263
- Mosadeghrad, A. M. (2014). Factors influencing healthcare service quality. International Journal of Health Policy and Management, 3(2), 77-89. https://doi.org/10.15171/ijhpm.2014.65
- Na-Nan, K., Kanthong, S., Joungtrakul, J., & Smith, I. D. (2020). Mediating effects of job satisfaction and organizational commitment between problems with performance appraisal and organizational citizenship behavior. Journal of Open Innovation: Technology, Market, and Complexity, 6(3), 1-19. https://doi.org/10.3390/JOITMC6030064
- Nafari, E., & Rezaei, B. (2022). Relationship between human resources strategies and organizational performance based on the balanced scorecard in a public hospital in Iran: a cross-sectional study. BMC Health Services Research, 22(1), 1-8. https://doi.org/10.1186/s12913-022-07767-z
- Notanubun, Z., Ririhena, R. L., & Batlolona, J. R. (2019). The effect of organization restructuring on organization performance viewed from employee performance and leadership effectiveness at maluku provincial education office. Journal of Education and Learning (EduLearn), 13(1), 118–124. https://doi.org/10.11591/edulearn.v13i1.11222
- Obamiro, J. K., Ogunnaike, O. O., & Osibanjo, O. A. (2014). Organizational citizenship behaviour, hospital corporate image and performance. Journal of Competitiveness, 6(1), 36–49. https://doi.org/10.7441/joc.2014.01.03
- Okonofua, F. E., Ogu, R. N., Ntoimo, L. F., Gana, M., Okike, O. N., Durodola, A., & Galadanci, H. S. (2018). Funding: the alliance for health policy and systems research. World Health Organization, 52(1), 8-14. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6026948/pdf/GMJ5201-0008.pdf
- Oladapo, O. T., Adetoro, O. O., Ekele, B. A., Chama, C., Etuk, S. J., Aboyeji, A. P., Onah, H. E., Abasiattai, A. M., Adamu, A. N., Adegbola, O., Adeniran, A. S., Aimakhu, C. O., Akinsanya, O., Aliyu, L. D., Ande, A. B., Ashimi, A., Bwala, M., Fabamwo, A., Geidam, A. D., ... Gülmezoglu, A. M. (2016). When getting there is not enough: A nationwide crosssectional study of 998 maternal deaths and 1451 near-misses in public tertiary hospitals in a low-income country. BJOG: An International Journal of Obstetrics and *Gynaecology*, *123*(6), 928–938. https://doi.org/10.1111/1471-0528.13450
- Osibanjo, A., Adeniji, A., Salau, O., Atolagbe, T., Osoko, A., Edewor, O., & Olowu, J. (2020). Bolstering human capital management and engagement in the health sectors. Cogent **Business** and Management, 7(1), 1–16. https://doi.org/10.1080/23311975.2020.1794676
- Pasamar, S., Diaz-Fernandez, M., & de la Rosa-Navarro, M. D. (2019). Human capital: the link between leadership and organizational learning. European Journal of Management and Business Economics, 28(1), 25–51. https://doi.org/10.1108/EJMBE-08-2017-0003
- Pasban, M., & Nojedeh, S. H. (2016). A Review of the Role of Human Capital in the Organization. Procedia - Social and Behavioral Sciences, 230, 249–253. https://doi.org/10.1016/j.sbspro.2016.09.032
- Peprah, W. K., & Ganu, J. (2018). The convergence of organizational culture, structure and human capital performance: a conceptual analysis. Archives of Business Research, *6*(5), 212–221.



- Perera, K. A. C. N., & Weerakkody, W. A. S. (2018). The impact of human capital and social capital on employee performance: a study of employees in small scale industry enterprises in western province of Sri Lanka. *Kelaniya Journal of Human Resource Management*, 13(1), 38–48. https://doi.org/10.4038/kjhrm.v13i1.48
- Podsakoff, P. M., MacKenzie, S. B., Paine, J. B., & Bachrach, D. G. (2000). Organizational citizenship behaviors: a critical review. *Journal of Management*, *26*(3), 513–563.
- Raghupathi, V., & Raghupathi, W. (2020). The influence of education on health: An empirical assessment of OECD countries for the period 1995-2015. *Archives of Public Health*, 78(1), 1–18. https://doi.org/10.1186/s13690-020-00402-5
- Rahman, M. M., & Akhter, B. (2021). The impact of investment in human capital on bank performance: evidence from Bangladesh. *Future Business Journal*, 7(1), 1–13. https://doi.org/10.1186/s43093-021-00105-5
- Rose, K. (2016). Examining Organizational Citizenship Behavior in the Context of Human Resource Development: An Integrative Review of the Literature. *Human Resource Development Review*, *15*(3), 295–316. https://doi.org/10.1177/1534484316655668
- Sahetapy, P., & Jesajas, Y. S. (2023). The analysis of relationship between communication competence and service quality at Bhayangkara Hospital TK. III Ambon. *Jurnal Manajemen Pelayanan Publik*, 07(01), 20–34.
- Saturno-Hernández, P. J., Martínez-Nicolás, I., Moreno-Zegbe, E., Fernández-Elorriaga, M., & Poblano-Verástegui, O. (2019). Indicators for monitoring maternal and neonatal quality care: A systematic review. *BMC Pregnancy and Childbirth*, 19(1), 1–11. https://doi.org/10.1186/s12884-019-2173-2
- Sembiring, M. P. (2022). Penurunan daya saing global Indonesia: pembangunan infrastruktur yang kurang adaptif terhadap perkembangan isu Cybercrime. *Journal of International Relations*, 8, 895–909. http://ejournal-s1.undip.ac.id/index.php/jihi
- Søvold, L. E., Naslund, J. A., Kousoulis, A. A., Saxena, S., Qoronfleh, M. W., Grobler, C., & Münter, L. (2021). Prioritizing the mental health and well-being of healthcare workers: an urgent global public health priority. *Frontiers in Public Health*, *9*, 1–12. https://doi.org/10.3389/fpubh.2021.679397
- Taber, K. S. (2018). The use of cronbach's alpha when developing and reporting research instruments in science education. *Research in Science Education*, 48(6), 1273–1296. https://doi.org/10.1007/s11165-016-9602-2
- Taghinezhad, F., Safavi, M., Raiesifar, A., & Yahyavi, S. H. (2015). Antecedents of organizational citizenship behavior among Iranian nurses: A multicenter study Nursing. *BMC Research Notes*, 8(1), 1–8. https://doi.org/10.1186/s13104-015-1505-1
- Taye, B. K. (2023). Antecedents of organizational citizenship behavior among the academic staff in Begemidir college of teacher education. *Bahir Dar Journal of Education*, 23(3), 22–45.
- Tran, N. P., & Vo, D. H. (2020). Human capital efficiency and firm performance across sectors in an emerging market. *Cogent Business and Management*, 7(1), 1–15. https://doi.org/10.1080/23311975.2020.1738832
- Tsang, S., Royse, C. F., & Terkawi, A. S. (2017). Guidelines for developing, translating, and validating a questionnaire in perioperative and pain medicine. *Saudi Journal of Anaesthesia*, *11*(5), S80–S89. https://doi.org/10.4103/sja.SJA\_203\_17
- Upadhyai, R., Jain, A. K., Roy, H., & Pant, V. (2019). A review of healthcare service quality dimensions and their measurement. *journal of Health Management*, *21*(1), 102–127. https://doi.org/10.1177/0972063418822583
- van der Kolk, B. (2022). Performance measurement in the public sector: Mapping 20 years of survey research. *Financial Accountability and Management*, 38(4), 703–729. https://doi.org/10.1111/faam.12345

- Wahda, Mursalim, Fauziah, & Asty. (2020). Extra-role behavior improvement model: Organizational learning culture, organizational trust, and organizational justice approach. International Journal of Engineering Business Management, 12, 1-12. https://doi.org/10.1177/1847979020963774
- Whiting, S. W., Podsakoff, P. M., & Pierce, J. R. (2008). Effects of task performance, helping, voice, and organizational loyalty on performance appraisal ratings. Journal of Applied Psychology, 93(1), 125-139. https://doi.org/10.1037/0021-9010.93.1.125
- Yimam, M. H. (2022). Impact of training on employees performance: A case study of Bahir Dar Ethiopia. Education, university, Cogent 9(1), 1-18. https://doi.org/10.1080/2331186X.2022.2107301