## LAPORAN PELAKSANAAN KEGIATAN

## Seminar International "MICEB" Balikpapan

"The Implementation of Lean Supply Chain Management to Improve Business Performance at a Balikpapan Public Hospital"



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# FAKULTAS EKONOMI DAN BISNIS UNIVERSITAS MULAWARMAN

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### The Implementation of Lean Supply Chain Management

### to Improve Business Performance at a Balikpapan Public Hospital

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#### Abstract

This study investigates the relationship between Total Quality Management (TQM), Human Resources Management (HRM), Total Productive Maintenance (TPM), efficiency performance, operational performance, and business performance in Balikpapan public hospitals. Utilizing a Likert scale, indicators are used to assess TQM, HRM, TPM, efficiency, quality, and business performance. Eight hypotheses (H1-H8) are proposed to examine the connections between these variables. The study aims to provide insights into the healthcare sector's operational and business dynamics in the context of Balikpapan public hospitals

#### Purpose

This paper aims to investigate the influence of lean management on the operational performance within the context of Balikpapan public hospitals. Lean Management is assessed through the utilization of three key components: total quality management, human resource management, and total productive maintenance. Additionally, the study delves into the repercussions of operational performance on the business performance of hospitals.

#### Methodology

A systematic literature review was conducted following the methodology outlined by Tranfield et al. (2003). A total of 1285 peer-reviewed journal articles published between 2013 and 2023 were selected, profiled, and examined.

The research based on survey data obtained from participants who were associated in two public hospitals located in Balikpapan. To ensure the quality of the data, validity and reliability assessments were conducted using PLS software. The research hypotheses were then evaluated through the utilization of structural equation modeling techniques.

#### **Practical implications**

This research represents one of the pioneering efforts to take the three lean management principles, which have gained prominence in the manufacturing sector, and implement them within the healthcare domain. It investigates the impact of these three lean management on the operational performance of hospitals, focusing on aspects such as efficiency, and quality. Furthermore, the study underscores the significance of operational performance metrics in enhancing the overall business performance of public hospitals.

#### **Research/limitation**

This study's limitations include its focus on public hospitals in Balikpapan, suggesting future research should broaden to include private hospitals in Balikpapan and various industries for broader applicability. Diversifying Lean Management measures and involving a wider range of stakeholders in data collection could enhance future research.

#### Keywords

Business performance, Human resource management, Operational performance, Health care, Hospitals, Lean management.

### 1. Introduction

In today's highly competitive business environment, organizations across various sectors, including healthcare, face immense pressure to enhance their operations, reduce costs, and deliver higher-quality services and products.Recent research has provided evidence of the successful application of LM principles in healthcare operations (Simons et al., 2017). The promise of LM in healthcare lies in its patient-centric approach and its effective redesign of clinical procedures to achieve high-quality care through efficient resource utilization (Jorma et al., 2016).

Different studies have focused on varying aspects of Lean Management, including technical perspectives, social aspects (Drotz and Poksinska, 2014), and socio-technical perspectives (Clark et al., 2013). These studies have examined selected Lean Management practices, often overlooking important dimensions. Therefore, there is a need for a more comprehensive model that investigates the impact of a broader range of Lean Management dimensions on hospital Operational Performance. Interestingly, despite the extensive literature on Lean Management in manufacturing, no previous studies, to the best of our knowledge in Indonesia, have applied this comprehensive model with its four bundles in the healthcare context.

Furthermore, existing healthcare literature has presented conflicting and inconsistent results regarding the expected outcomes of Lean Management practices on operational performance. Some studies have reported positive effects of Lean Management on operational performance (Chiarini and Baccarani, 2016). The total quality management (TQM) has a positive impact on operational performance but does not significantly affect efficiency and accessibility performances (Alkhaldi, R. Z., & Abdallah, A. B. 2019).

The present study aims to fill these gaps in the existing literature by investigating the effects of the four lean bundles (TQM, HRM, and TPM) on hospital Operational Performance. To gain a deeper understanding of this relationship, hospital Operational Performance is measured across three dimensions: efficiency performance, quality performance, and accessibility performance. Moreover, the study examines the impact of these dimensions of hospital OP on hospitals' overall business performance (BP). To achieve these objectives, data were collected from staff and managers and supervisors working in 2 public hospitals in Balikpapan.

The implementation of Lean Hospital contribute to improved performance in various areas, including patient safety, quality of care, reduced waiting times, cost-effectiveness,

enhanced working conditions, heightened employee motivation, and improved interdepartmental communication (Graban, 2016)

#### 2. Literature Review and Hypotheses Formulation

#### 2.1 Total Quality Management

The implementation of Total Quality Management (TQM) is anticipated to enhance overall quality and boost business performance within the service industry (Haque et al., 2014). Numerous researchers have explored and assessed this approach extensively. According to Goetsch and Davis (2016), Total Quality Management is a business strategy that aims to enhance an organization's competitiveness through the ongoing enhancement of product and service quality, as well as the development of its people, processes, and environments. Total Quality Management (TQM) comprises 11 essential elements, including strategic orientation, customer-centricity, unwavering commitment to quality, scientific methodologies, long-term dedication, collaborative teamwork, continual process refinement, education and training, empowerment through structured control, shared objectives, and active employee engagement (Goetsch & Davis, 2016). In this research, the key TQM elements under consideration as variables are customer focus, continuous improvement, strategic orientation, and total employee involvement.

The relationship between Total Quality Management (TQM) and the performance of Small and Medium-sized Enterprises (SMEs) is positively influenced by both operational performance and innovation speed. Operational performance plays a crucial role in SMEs, and it is closely connected to TQM. Additionally, the speed at which innovation occurs also has a significant impact on this relationship (Anifowose, O., Ghasemi, M., & Olaleye, B 2022)

#### 2.2 Human Resource Management

Human Resource Management encompasses practices that promote operational flexibility and facilitate communication among staff members within the workplace. This, in turn, helps reduce barriers that hinder organizational progress (Albuhisi and Abdallah, 2018. It revolves around the human element and embodies the softer aspects of Total Quality Management (TQM) and Lean Management (LM).

Human resource management, top management, and process management were the most significant components of quality management (QM) practices that had a positive impact on productivity. Furthermore, it was observed that a substantial 89% of the factors influencing internal productivity were connected to the specified QM constructs. This implies that quality management can be considered a determining factor for productivity (Bertha et al. 2019)

#### 2.3 Total Productive Maintenance

Total Productive Maintenance (TPM) is a comprehensive maintenance approach that goes beyond traditional maintenance practices. It intervenes in a company's management policies and aims to enhance overall equipment effectiveness (OEE) by minimizing breakdowns, quality defects, and production time losses

The selection of maintenance strategies to enhance business efficiency in the construction industry. These factors include productivity, quality, reliability, cost, safety and work environment, morale, inventory, and flexibility. Among the maintenance strategies considered, the Total Productive Maintenance strategy was found to yield the most desirable outcome (Martin, H., et al, 2019).

#### 2.4 Operational Performance

Performance indicators play a vital role in healthcare organizations, serving as benchmarks to identify best practices and assess the value, quality, and effectiveness of healthcare operations (Shazali et al., 2013). Consequently, effective measurement of operational performance (OP) in healthcare is essential for guiding evaluation processes and assessing the impact of positive changes aimed at enhancing the level of service delivery.

Various OP measures have been employed in existing healthcare literature. For example, Miller and Chalapati (2015) assessed hospital OP using indicators such as outpatient wait times and labor productivity. Harrison et al. (2016) adopted operational efficiency, care quality, and organizational culture as OP measures. Toussaint and Berry (2013) utilized quality, efficiency, and cost as metrics for hospital OP, while Clark et al. (2013) considered productivity, quality (in terms of error reduction), cost-effectiveness, and turnaround times.

In this study, two dimensions are utilized to gauge hospital OP: efficiency performance and quality performance (Cheng et al., 2015). These three dimensions were chosen due to their widespread adoption as measures of hospital OP in healthcare literature. Furthermore, they provide comprehensive coverage and encompass various indicators that have been described using different terms in the literature.

### 2.4.1 Efficiency Performance

Efficiency stands out as a crucial criterion for assessing and gauging the performance of organizations, including hospitals. Consequently, over the past few decades, scholars across diverse domains in economics and management have concentrated their efforts

on evaluating and measuring performance, often with a primary emphasis on efficiency levels (Rezaei et al. 2019).

## 2.4.2 Quality Performance

Quality performance in healthcare is often linked to enhancing patient satisfaction by delivering appropriate, timely, and high-quality services through flexible operational processes. Additionally, it involves minimizing mistakes and errors, reducing patient wait times, and enhancing the performance of staff members (Hussain et al., 2015

## 2.5 Business Performance

In today's competitive business landscape, effective information management plays a pivotal role in driving and enhancing process management. This study, based on data from 202 manufacturing firms in Australia, establishes positive relationships between internal and external information management, process management, and operational performance, ultimately impacting overall business performance (Daniel Prajogo, 2018)

No	Author (s) and	Research Object	Approach	Setting	Major Findings
	year		Adopted		
1	Soares	Examine the Influence	Survey	Manufacturing	Practices related to supply chain quality management, including a
	et al. (2017)	of Supply Chain Quality		firms from the	focus on customers, suppliers, supply chain integration, and quality
		Management Practices		UK	leadership, have a significant effect in influencing the quality of
		on Operational			products. The development of an effective supply chain quality
		performance			management network is contingent on the product quality surpassing
					customer expectations.
2	Jayalath	Explore the Link	Survey	Rubber Industry	Top management commitment, human resource management,
	et al. (2017)	Between Quality		from Sri Lanka	communication, information analysis, and customer focus were found
		Management, Supply			to be associated with quality management, while supplier partnership,
		Chain Management			lean systems, customer relations, and information management fell
		Practices, and			under the category of supply chain management practices. Quality
		Organizational			management practices were observed to have a direct positive
		Performance			impact on operational performance through the improvement of
					supply chain management practices. Organizations that prioritize
					quality management initiatives are more inclined to adopt effective
					supply chain management practices.
3	Anifowose, O.,	This study contributes	Cross-sectional survey	Nigerian small	The effectiveness of TQM practices positively affects both the day-
	Ghasemi, M., &	to a broader	and data analysis	and medium-	to-day operations and the pace of innovation within SMEs. These two
	Olaleye, B. (2022)	comprehension of		sized	factors, operational performance and innovation speed, are key
		innovation in the		manufacturing	drivers that enhance the overall performance of SMEs in the context
		context of Total Quality		enterprises.	of TQM implementation.
		Management (TQM),			
		particularly with a focus			
		on the aspect of			
		innovation speed and			

No	Author (s) and	Research Object	Approach	Setting	Major Findings		
	year		Adopted				
		its associated metrics.					
4	Bertha Viviana	The research aimed to	The study employed a	-	The study found that the following QM constructs were positively		
	Ruales Guzmán,	explore the relationship	systematic literature		affects to productivity: human resource management, top		
	Alessandro Brun,	between Quality	review as its research		management, and process management.		
	Oscar Fernando	Management (QM) and	methodology.		Additionally, a substantial portion (89%) of the internal determinants of		
	Castellanos	productivity as a			productivity were linked to the proposed QM constructs, suggesting		
	Domínguez (2019)	performance indicator.			that QM can indeed be considered a determinant factor of		
					productivity.		
5	Goran Kutnjak,	The research focuses	The research paper	Primorsko-	The study found that the application of quality management systems		
	Dejan Miljenović,	on improving the	employs a quantitative	goranska county	in SMEs has both positive and negative outcomes. On the positive		
	Ana Mirković (2019)	competitiveness of	approach and presents	in Croatia.	side, it contributes to improving business processes, product quality,		
		Small and Medium-	a survey conducted in		services, increasing market share, enhancing reputation, and		
		Sized Enterprises	the Primorsko-		achieving sustainable business results.		
		(SMEs) through the	goranska county in		However, the research also identified relatively high negative		
		application of a Quality	Croatia during July		quantifications related to the application of quality management		
		Management System	2018		systems in some cases, indicating challenges and areas for		
		(QMS).			improvement.		
					The mixed findings suggest the need for further scientific		
					research in this area to better understand the impact of quality		
					management systems on SMEs and their competitiveness.		
6	Sanjay Sharma and	The research focuses	Identifying critical	Indian	The major findings of the study are as follows:		
	Sachin Modgil	on investigating the	constructs related to	pharmaceutical	- TQM practices have a direct positive impact on operational		
	(2019)	impact of Total Quality	pharmaceutical quality	industry	performance.		
		Management (TQM)	and supply chain		- TQM practices also directly influence supply chain components.		
		and Supply Chain	management through a		- Supply chain practices, in turn, have an influence on overall		
		Management (SCM)	review of relevant		operational performance.		

No	Author (s) and	Research Object	Approach	Setting	Major Findings
	year		Adopted		
		practices on	literature and		- Among the tested alternate models, the one where TQM
		operational	consultation with		practices affect supply chain practices and supply chain practices
		performance within the	industry experts		further impact operational performance is found to be the most
		context of the Indian			appropriate.
		pharmaceutical			- The study emphasizes the critical role of TQM practices in the
		industry.			pharmaceutical industry and highlights how TQM practices
					contribute to the effectiveness of supply chain processes,
					ultimately leading to improved operational performance.
7	Rasha Zuhair	The research examines	The study is based on	Jordan private	The study's findings suggest the following:
	Alkhaldi and Ayman	the impact of lean	survey data collected	hospitals	- The total quality management (TQM) bundle has a positive
	Bahjat Abdallah	management (LM) on	from 260 respondents		impact on operational performance but does not significantly
	(2019)	operational	representing 25 private		affect efficiency and accessibility performances.
		performance (OP) in	hospitals in Jordan		- The human resource management (HRM) bundle positively
		the context of healthcare			influences all OP dimensions (efficiency, quality, and accessibility).
					- The just-in-time system (JIT) bundle contributes positively to
					both efficiency and accessibility performances.
					- Furthermore, the study demonstrates that the dimensions of
					operational performance (quality and accessibility) have a
					significant and positive impact on the business performance of
					private hospitals.
8	Rahmat Nurcahyo,	The study focuses on	Multiple linear	The sample	Major Findings: The study reveals several significant findings:
	Zulfadlillah,	the impact of ISO	regression analysis to	consists of 50	- Implementation of ISO 9001:2015 has a positive and
	Muhammad	9001:2015 on the	assess the impact of	automotive	significant impact on both operational performance (including
	Habiburrahman	operational and	ISO 9001:2015 on	component	productivity, customer satisfaction, and product quality) and
	(2021)	business performance	operational and	manufacturing	business performance (including sales growth, profit rate, and

No	Author (s) and	Research Object	Approach	Setting	Major Findings
	year		Adopted		
		of manufacturing	business performance	industries in	market share) within Indonesian automotive component
		industries in Indonesia		Jakarta, Bogor,	manufacturing industries.
				Tangerang, and	- Operational performance also has a positive and significant
				Bekasi regions	impact on business performance, suggesting that improvements
					in operational aspects can lead to enhanced overall business
					performance.
					- Major obstacles to the effective implementation of ISO 9001 in
					the manufacturing industry are identified, including a lack of
					qualified personnel, inadequate training, employee resistance,
					and a lack of commitment among top-level management
					executives.
					- The study emphasizes the importance of strategic management
					decisions, resource allocation, and performance enhancement for
					managers looking to improve the effectiveness of ISO 9001
					implementation in their firms.
9	Daniel Prajogo,	The research	The study employs an	The research	The key findings of the study are as follows:
	Jordan Toy, Ananya	investigates the	empirical approach,	focuses on	- Both internal information management and external information
	Bhattacharya,	relationships between	utilizing data collected	manufacturing	management have positive relationships with both internal
	Adegoke Oke,	information	from 202	firms in	process management and external process management.
	T.C.E. Cheng (2018)	management, process	manufacturing firms in	Australia	- Internal process management has positive effects on both
		management, and	Australia.		internal and external operational performance.
		operational			- External process management only has a positive effect on
		performance in the			external operational performance.
		context of			- Both internal and external operational performance have
		manufacturing firms in			positive effects on business performance.
		Australia.			

No	Author (s) and	Research Object	Approach	Setting	Major Findings
	year		Adopted		
10	Huiming Liu, Su Wu,	Evaluates the	The study employs a	The research	Major Findings:
	Chongwen Zhong,	sustainable effects of	PSM-DiD (propensity	was conducted	- Quality awards alone do not guarantee higher returns on
	Ying Liu (2020)	operational	score matching and	in China, with a	assets for the winning firms.
		performance on	difference-in-	focus on	- Operational performance indicators, such as reduced lead time
		financial benefits,	difference) model to	Chinese quality	and increased inventory turnover, have a significant positive
		focusing on Chinese	analyze the	award winners	impact on firms' profitability.
		quality awards winners.	relationship between		- The study highlights the moderating effects of operational
			quality award effects		performance, suggesting that firms should focus on translating
			and financial benefits,		quality management practices into business improvements for
			specifically return on		sustainable development and continuous improvement in
			assets.		financial performance.

## 3. Theoretical Framework and Hypotheses

## 3.1 Research Framework



Independent Variables:

- 1) Total Quality Management (TQM)
- 2) Human Resources Management (HRM)
- 3) Total Productive Maintenance (TPM)

Mediator Variable:

- 1) Efficiency Performance
- 2) Quality Performance

Dependent Variable: Business Performance

In this framework, Total Quality Management (TQM), Human Resources Management (HRM), and Total Productive Maintenance (TPM) influence Efficiency Performance and Quality Performance, which, in turn, impact Business Performance. The mediator variables, Efficiency Performance and Quality Performance, help explain the relationship between the independent variables and the dependent variable.

## 3.2 Hypothesis

Based on the framework outlined above, the hypotheses can be formulated as follows:

- H1. Total Quality Management is related to efficiency performance in Balikpapan public hospitals.
- H2. Total Quality Management is related to quality performance in Balikpapan public hospitals.
- H3. Human Resources Management is related to efficiency performance in Balikpapan public hospitals.
- H4. Human Resources Management is related to uality performance in Balikpapan public hospitals.
- H5. Total Productive Maintenance is related to efficiency performance in Balikpapan public hospitals.
- H6. Total Productive Maintenance is related to quality performance in Balikpapan public hospitals.
- H7. Efficiency performance is related to business performance in Balikpapan public hospitals.
- H8. Quality performance is related to business performance in Balikpapan public hospitals

#### Variable Indicators Closed-Ended Question (Likert Scale) TQM1 **Total Quality** The hospital is committed to ongoing enhancement of its Management Strategic orientation process quality, rather than adopting a stagnant (Sharma, S., & approach. Modgil, S. .2019) TQM2 Continuous customer feedback is consistently utilized to Customer focus enhance the workflow. TOM3 Numerous hospital services have seen enhancements in Continuous improvement the recent period. TQM4 Statistical process control is employed for the surveillance of hospital procedures. Employee participation Human Resources HRM1 The hospital management provides suitable resources Management Allocation of resources and (financial and time resources) to achieve objectives and (Alkhaldi, R. Z., & time handle tasks effectively. Abdallah, A. B. HRM2 The hospital's management fosters a work environment 2019) Supportive work that nurtures and enhances the capabilities of its staff. environment HRM3 The hospital possesses an extensive training program Comprehensive training that aligns with the requirements of employees for plan enhancing their job-related skills. HRM4 Employees are given the authority and actively Employee empowerment participate in decision-making processes aimed at and involvement enhancing hospital services. HRM5 Hospital staff receive rewards and acknowledgments, Employee rewards and which may include financial incentives, for their recognition contributions to enhancing hospital processes. Total Productive TPM1 The hospital's maintenance system is a critical Maintenance Critical foundation of foundation. (Alkhaldi, R. Z., & maintenance system Abdallah, A. B. TPM2 The maintenance team conducts regular inspections of 2019) Regular equipment equipment and supplies to ensure they comply with inspections operational standards. TPM3 Employees receive training to carry out daily Employee training for maintenance and required calibrations for the equipment maintenance in their respective work areas. TPM4 The hospital promptly replaces faulty equipment Prompt equipment components efficiently. replacement Efficiency EP1 The quantity of service errors, mistakes, and rework in performance Service Errors Reduction the hospital has shown a decline.

## **Operational Definition of Variables**

(Alkhaldi, R. Z., &	EP2	Various forms of resource and material waste throughout
Abdallah, A. B.	Waste Reduction	the hospital have been minimized.
2019)	EP3	There has been a reduction in the hospital's overhead
	Reduced Hospital	costs.
	Overhead	
Quality	OP1	There is an enhancement in product quality/performance
Performance	Product/ performance	after TQM, HRM, TPM
(Sharma, S., &	quality	Implementation.
Modgil, S2019)	OP2	Staff capacity to perform work has increased
	Improved Capacity	
	OP3	Operations and processes are cost effective after TQM,
	Cost Effective	HRM, and TPM Implementation.
	OP4	Customer Satisfaction Hospital is increasing
	Customer Satisfaction	
	OP 5	Waiting time for daily service has reduced
	Waiting time	
Business	BP1	Hospital offers unique services that differentiate it from
Performance	Uniqueness	competitors.
(Alkhaldi, R. Z., &	BP2	Hospital provides a more extensive range of services
Abdallah, A. B.	Service Range	compared to its competitors.
2019)	BP3	Hospital has a favorable reputation when compared to
	Reputation	its competitors.

## Sample

The study's population comprises the entire workforce in medical-related positions within public hospitals in Balikpapan. This encompasses all employees within the Rumah Sakit Umum Daerah Dr. Kanujoso Djatiwibowo Balikpapan hospitals, of which 1,301 individuals hold positions as managers, supervisors, and medical staff, making them the representative population for this research and 430 employees in Rumah Sakit Umum Beriman. The focus of this study is on managers and supervisors due to their roles as departmental leaders, possessing knowledge and experience in quality and Lean Management practices, as well as a comprehensive understanding of their hospitals' performance levels. The relevant departments encompass nursing floors, laboratory departments, quality assurance units, pharmacy facilities, emergency rooms, and clinics.

## 4. Data Collection Method

4.1 Data Analysis

Structural Equation Modeling (SEM) is a statistical analysis method employed in this research to model the relationships between latent variables and observed variables measured by multiple indicators. There are two models within SEM, namely the outer model and the inner model. The outer model is used to validate the constructs of observed variables by testing their reliability and validity.

SEM analysis can be utilized to examine the relationships between constructs by analyzing the indicators of variables within a given model. Standardized and unstandardized path coefficients are used to measure the influence of one variable on another within the model. Path coefficient t-statistics and p-values are used to evaluate the strength and significance of relationships between variables in the model. A larger t-statistic and a p-value less than 0.05 indicate a statistically significant influence of the path coefficient at a 95% confidence level.

Designing the measurement model (outer model) using SEM, as outlined by Hair, J. F., Hult, G. T. M., Ringle, C. M., & Sarstedt, M. (2017), involves several stages:

- 1. Selecting the construct variables to be measured by indicators.
- 2. Choosing appropriate indicators to represent these construct variables.
- **3.** Testing the reliability and validity of indicators through Cronbach's alpha test, convergent validity test, and discriminant validity test.
- 4. Refining the model if any indicators fail to meet reliability and validity standards.

### 4.2 Questionnaire and measures

The data collection method employed in this research involves the use of a survey. Surveys are the most commonly utilized data collection method. They entail gathering data from randomly selected respondents through questionnaires or interviews.

In this study, surveys are conducted using questionnaires, which are a structured data collection technique comprising a series of written or verbal questions responded to by participants (Maholtra, 2017). The questionnaire used in this research is of the online survey method with closed-ended questions.

The instrument utilized for obtaining primary data is a questionnaire created based on the Likert Scale, which includes a range from very positive to very negative, expressed through words such as strongly agree, agree, neutral, disagree, and strongly disagree.

For quantitative analysis purposes, responses can be assigned scores as follows:

- (5) strongly agree;
- (4) agree;
- (3) neutral;
- (2) disagree; and
- (1) strongly disagree.

## 4.3 Measurement validity and reliability

In Structural Equation Modeling (SEM), discriminant validity is a concept that emphasizes the necessity for distinct concepts to exhibit sufficient differences. This means that a set of indicators combined should not be unidimensional.

Discriminant validity measurement employs criteria such as Fornell-Larcker and crossloadings. According to the Fornell-Larcker postulate, a latent variable should share more variance with its underlying indicators than with other latent variables. This implies that the Average Variance Extracted (AVE) for each latent variable should exceed the highest squared correlation (R2) with any other latent variable.

Assessment of the measurement model involves:

- Composite reliability (pc) with values  $\geq 0.6$ .
- Indicator reliability with loadings > 0.7.
- AVE > 0.5 for convergent validity.
- Fornell-Larcker criterion for discriminant validity.
- Cross-loadings for further discriminant validity checks.

## 5. Limitations and Future Research

In addition to successfully achieving its objectives, this study has identified certain limitations that should be addressed in future research.

The study's confinement to public hospitals in Balikpapan limits its applicability to a specific healthcare context. Therefore, future research should consider expanding the scope to encompass public hospitals and other healthcare facilities in Balikpapan. Furthermore, the study could serve as a foundational framework for subsequent investigations in private hospital and across various industries to enhance the generalizability of its findings.

Moreover, the study employed to assess Lean Management, which may inadvertently overlook certain Lean Management practices and tools. Future research endeavors could explore alternative Lean Management measures and their effects on hospital performance.

Data collection primarily involved managers and supervisors in the selected hospitals. While this approach is conventional in similar empirical studies, it may have missed valuable insights from lower-level employees, patients, suppliers, and other stakeholders. Additionally, this approach limited the study's sample size. Future research could expand the pool of respondents to include a broader range of stakeholders, thereby increasing both the sample size and the applicability of the results.

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# LAMPIRAN <u>A. LOA</u>

місев л	The 4 Th Mulawarman International Conference on Economics and Business (MICEB) I. Tanah Grogot, Gn. Kelua, Kec. Samarinda Utara, Kota Samarinda, Kalimantan Timur 75119, Fax : (0541) 738916 Phone : (0541) 738916 Email : miceb@feb.unmul.ac.id
	LETTER OF ACCEPTANCE
Dear, Musdalifah A <b>Management to</b> Conference, if yo miceb@feb.unmul.	Azis Article ID <b>Paper00110</b> We Are pleased to inform you that your paper <b>"The Implementation of Lean Supply Chain</b> <b>Improve Business Performance at a Balikpapan Public Hospital"</b> has been accepted to be presented in the MICEB ou require any futher information, please do not hesitate to contact the indonesia committee of MICEB via email .ac.id. We look forward to seeing you at the conference
	Samarinda, 02 Oktober 2023 Regard Conference Chair.
	MICEA Part
	Dr.H. Rahcmad Budi Suharto SE.,SH.,M.Si
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## B. Absensi

	(	KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN RISET DAN TEKNOLOGI UNIVERSITAS MULAWARMAN FAKULTAS EKONOMI DAN BISNIS Jalan Timah Grogot, Kampus Gunang Kelua, Samarinda 75119 Telepon (0541) 738913-738915 Laman febaumpul as id						
	HARI/TA WAKTU TEMPAT AGENDA	DA NGGAL : Selasa, 10 Oktober 2023 : 08.00Wita s/d Selesai : Hotel Grand Jatra Balikpapan : Mulawarman International Conference dan Bisnis Universitas Mulawarman	AFTAR HADIR On Economics and Business (MICEB) 4 <sup>Th</sup> Tahun 2023 Fa	kultas Ekonomi				
No	ID	Title	Nama	Tanda Tangan				
1	Paper00001	Prince Charles Heston Runtumuwu	Universitas Khairun	XX ,				
2	Paper00002	Darmawati	Universitas Islam Negeri Sultan Aji Muhammad Idris Samarinda	27				
3	Paper00003	Maya Sari Dewi	Universitas Lambung Mangkurat	3 M				
1	Paper00005	Sri Wahyuni	Universitas Mulawarman	4				
	Paper00006	Musdulifah Azis	Universitas Mulawarman	CHHZ				
1	Paper00008	Thomas Robert Hutauruk	STIMI Samarinda	6				

6	Paper00055	PERSPECTIVE ON SOCIO-ECONOMIC IMAGE IN DEVELOPMENT HUMAN CAPITAL (POTENTIAL DEVELOPING AREA OF BERAU DISTRICT)	DIAN IRMA APRIANTI	Universitas Widya Gama		dhy
7	Paper00057	FINANCIAL PERFORMANCE AND IMPLICATIONS FOR COMPANY VALUE IN MINING SECTOR COMPANIES ON THE INDONESIAN STOCK EXCHANGE	M. Astri Yulidar, SE, MM	Universitas Widyagama Mahakam Samarinda	7 <u>A</u> :,,ve: e	
8	Paper00059	EMPLOYEE PERFORMANCE IS MEASURED THROUGH LEADERSHIP STYLE, DISCIPLINE AND WORK ENVIRONMENT	Misna Ariani	Universitas Balikpapan		8 th
9	Paper00062	THE INFLUENCE OF PROFITABILITY, INVESTMENT DECISIONS AND FUNDING DECISIONS ON COMPANY VALUE IN TELECOMMUNICATIONS SUB-SECTOR COMPANIES LISTED ON THE INDONESIA STOCK EXCHANGE	Juwari, S.E., M.Si.	Universitas Balikpapan	° Å	
10	Paper00063	THE INFLUENCE OF COMPANY SIZE AND INSTITUTIONAL OWNERSHIP ON ACCOUNTING CONSERVATISM WITH LEVERAGE AS A MODERATION VARIABLE	Miswaty	Universitas Balikpapan		10 Jur
1	Paper00065	Political Connections and Governance Mechanism to Reporting Financial Quality	Ita Yuni Kartika	Universitas Balikpapan	11 Anto	
12	Paper00068	THE EFFECT OF LIQUIDITY, SOLVENCY AND PROFITABILITY RATIOS ON FINANCIAL PERFORMANCE	Miswaty	Universitas Balikpapan		ler.
13	Paper00110	The Implementation of Lean Supply Chain Management to Improve Business Performance at a Balikpapan Public Hospital	Musdalifah Azis	Universitas Mulawarman	Other	
4					-	14



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DAFTAR HADIR

#### PARALLEL SESSION 1 ROOM BENGKIRAI

Hari/Tanggal Room Waktu Reviewer Moderator

: Rabu, 11 Oktober 2023 : Bengkirai : 09.00-12.00 Wita : Dr. Angelita : Muh. Shadiqul Fajri, M.E

No	ID	TITLE	Presenter	Institution Presenter	Tanda	Tangan
1	Paper00003	Does Self-Efficacy Moderate the Effect of Workload on High School Teacher Burnout?	Maya Sari Dewi	Universitas Lambung Mangkurat		
2	Paper00006	Which ETFs Adopt A Green Concept's Review : Cases in Indonesia	Musdalifah Azis	Universitas Mulawarman		Atted
3	Paper00009	ANALYSIS OF FINANCIAL REPORTS TO ASSESS FINANCIAL PERFORMANCE AT PT. BUMI RESOURCES, TBK ON THE INDONESIAN STOCK EXCHANGE	JIHAN NUR ARIFIN	STIMI Samarinda	3	
4	Paper00049	Lecturer Performance and Career Development in the Global Era: Lecturer Competence, Organizational Culture and Work Environment	Vera Anitra	Universitas Mulawarman		⁴ V₽.
5	Paper00051	Analysis of Accounting Acceptance Based on Accounting Technology on Use Behavior Through the Utaut 2 Model Approach in the Balikpapan City Hotel Industry	BUTET WULAN TRIFINA	Universitas Balikpapan	5 22	

## C. Serifikat



## D. Kontribusi Submission

Already received from <ul> <li>Musdalifah Azis</li> <li>Money at the amount of</li> <li>R p2.200.000</li> </ul> For payment <ul> <li>Submission</li> </ul> Samarinda, 02 Oktober 2023 Chairman of the committee,             Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the committee,           Liber Comment of the comme	The 4 JI. Tanah Grog	Th Mulawarman International Conference ot, Gn. Kelua, Kec. Samarinda Utara, Kota Samarinda, Kalimantar miceb@feb.unmul	ce on Economics and Business (MICEB) n Timur 75119, Fax : (0541) 738916 Phone : (0541) 738916 Email : I.ac.id		
Already received from :   Musdalifah Azis   Money at the amount of   : <b>Por payment</b> :   Submission   Samarinda, 02 Oktober 2023 Chairman of the committee, Chairman of the committee, Dr.H. Rahcmad Budi Suharto SE.,SH.,M.Si Check the original file <a href="https://miceb2023.cloud/PageDocument/PageD</th> <th></th> <th>PROOF OF PAYM</th> <th>ENT</th>		PROOF OF PAYM	ENT		
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