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EFFECT OF KNOWLEDGE MANAGEMENT ON PERFORMANCE OF RETAIL PHARMACEUTICAL FIRMS IN NAIROBI CITY COUNTY, KENYA

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Abstract

With the emergence of knowledge-based economy, knowledge is considered as the essential way to create wealth and prosperity and it is the important driving force for business success. The objective of the study was to establish the relationship between knowledge management and performance of retail pharmaceutical firms in Nairobi County, Kenya. The study was anchored on Knowledge-Based View theory. A review of literature was carried out where hypotheses were derived. The study applied positivism philosophy and descriptive research design. The population of the study was all registered retail pharmaceutical firms in Nairobi County. Systematic sampling method was applied. The study sample comprised 116 retail pharmaceutical firms in Nairobi County, Kenya. Primary data was collected using semistructured questionnaires. Data were analysed using descriptive and inferential statistics. The results showed that knowledge management significantly influences performance of retail pharmaceutical firms in Nairobi County. Study findings concur with dynamic capabilities theory which presents knowledge management as a fundamental strategic initiative that guarantees firms competitive edge and performance. Stakeholders and owners of the retail pharmaceutical firms should develop policies that facilitate knowledge management process in their firms as well as the entire sector and having processes for applying knowledge learned from experience. Keywords: Knowledge Management, Firm Performance, Retail Pharmaceutical firms, Kenya

INTRODUCTION

There has been growing interest amongst strategic management researchers and practitioners alike to seek to understand why some firms achieve higher levels of performance than others albeit operating in the same or similar business environments (Ogollah, Bolo & Ogutu, 2011). Knowledge management (KM) has been viewed as one of the most important competitive advantage factors for organizations. However, practice indicates that KM application is a big challenge for small firms in developing countries with limited supportive factors for business management (Kmieciak & Michna, 2018). For superior performance to be achieved, firms should adopt an effective knowledge management model that supports best combination of competitive strategies and alignment of the firm to the operating environment conditions (Dekoulou & Trivellas, 2015).

Different scholars have defined knowledge management differently and argue that KM depends on different contexts and on the specific organization purpose. Nawab, Nazir, Zahid and Fawad (2015) defined KM as efforts to explore the tacit and explicit knowledge of individuals, groups and organizations and to convert this treasure into organizational assets that are used by managers to make organizational decisions. Hemmati and Hosseini (2016) referred to KM as the process of identifying and analyzing accessible knowledge that is needed to achieve organizational objectives. KM has also been defined as a process of acquiring, storing, understanding, sharing, implementing knowledge and all actions taken in the learning process in tandem with strategies of the organizations concerned (Nikabadi, Bagheri & Mohammadi, 2016).

Knowledge management (KM) as a concept has become important because of the growing awareness of the importance of knowledge for the organization's prosperity and survival. As a result, knowledge has been identified with two fundamental characteristics, namely, tacit knowledge and explicit knowledge (Chib & Sehgal, 2019). According to Ndwiga, Gichohi and Nkaabu (2019), tacit knowledge involves the complex process of comprehension which may not be easy to understand because it is hard to digest. It is assessed in the form of capabilities, skills, and ideas which individuals may possess mentally. On the other hand, Kurniawati, Wiratmadja, Sunaryo and Samadhi (2019) describes explicit knowledge as the information that can easily be articulated or codified, transferred, and shared to others in the form of manuals, fact sheets, pictures, charts, and diagrams. This study conceptualizes KM according to Turner, Zimmerman and Allen (2012), and Xue (2017) who view it in four dimensions; knowledge creation/acquisition, knowledge storage, knowledge dissemination and knowledge application.

Knowledge Based Theory suggests that KM practices, such as knowledge acquisition, knowledge creation, knowledge sharing, knowledge storage and knowledge implementation play a vital role in achieving superior performance (Uddin, Fan & Das, 2016). Thus, businesses that strive to remain competitive ought to put more effort on the management of their knowledge resources that are necessary to increase their profits, sales growth, and market share. In addition, scholars, like Moreno, Becerril and Alcalde (2018) reported that firms that use suitable KM practices enhance their capabilities, resulting in improved business performance.

Research Problem

Globally, the health industry is characterized by enormous investments, global diversification and benefits that are tremendous for both public health and economic productivity (Scherer, 2000). The individuals in a given society are expected to enjoy good health as a fundamental right. In Kenya, the health policy is based on goals outlined in the country's vision 2030 social pillar whose aim includes improving the overall livelihoods of Kenyans and contributes approximately 2% to the country's GPD (Kenya Vision, 2030). The pharmaceutical industry in Kenya plays an important role in employment creation and supply of medical equipment and medicine to majority of Kenyans for their health needs (PPB, 2016). Further pharmaceuticals are critical to the social development of Kenya (PPB, 2016). Medicines treat diseases, save lives and promote health. They are also a core component of the Right to Health, the key objective being universal access to quality essential medicines, essential health technologies and pharmaceutical services in Kenya. Access to essential medicines will be an avenue for the country to meet the Sustainable Development Goals to reduce the child mortality and to combat HIV, Malaria and other diseases like the global COVID 19 pandemic, as well as helping to establish public/private partnerships to ensure economic development as envisaged in Vision 2030.

In spite of the important and visible role this industry plays, not much research attention has been placed to allow the in-depth determinants of firm performance thus prompting this study into establishing the influence of knowledge management on performance of retail pharmaceutical firms. The study specifically focuses on retail pharmaceutical firms in Nairobi.

THEORETICAL FOUNDATION

This study was anchored on the knowledge Based Theory and also adopted ZACK Knowledge Management Model. Knowledge-Based Theory (Wright & McMahan, 1992) suggests that knowledge is a critical strategic resource for a firm to maintain competitive advantage (Leal-Rodriguez et al., 2013). The basic assumptions of Knowledge-based theory is that firms are heterogeneous entities loaded with knowledge and that the benefit of such knowledge can only be realized through the ability of the organization to encourage sharing and application in the intended functional units.

The theory assumes that a firm is a system of knowledge with employees as knowledge holders and therefore need to be coordinated to create value for the firm (Grant, 1991). The argument by Salina & Wan Fadzilah (2010) is that the priority of firms is creating and transforming knowledge to competitive advantage and that resources especially knowledge is very crucial in ensuring the firms advantage is enhanced due to difficulty in imitation of some sort of knowledge. The theory further suggests that a firm's superior performance depends on its ability to capitalize, defend and apply knowledge that it creates and shares (Prieto & Revilla, 2006). The major critique of the theory according to Curado (2008) is that knowledge is only assumed to be derived from employees' knowledge sharing without taking into account that for better utilization of employees, knowledge management should combine other resources like technology and competences of the firm. A similar view is shared by Ahmad, Mohammad and Ibrahim (2013). The study at hand is geared towards establishing the manifestations of managing knowledge as acquisition, sharing and application within an organizational context for performance to be realized within the retail pharmaceutical firms.

The study adopted ZACK Knowledge Management Model argues that source of knowledge and the context of where the materials come from varies depending on specifications like scope of application, credibility, accuracy, relevance, breadth and cost (Shujahat, Sousa, Hussain, Nawaz, Wang & Umer, 2019). The model outlines and defines the various stages of knowledge management from acquisition, storage and retrieval to distribution and application. The model further indicates that once the information has been acquired is stored, converted to knowledge packets for simple retrieval, sharing and application (Shang, Yao, & Liou, 2017). For performance to be realized, managers must organize knowledge in a way that it is well managed to keep all the processes functioning optimally. This model was further supported by Porter's Generic Strategies model (Porter, 1985). The model explains the

three approaches of cost leadership, differentiation and focus that lead to a firm's competitive advantage and superior performance. The model suggests that firms are adequately able to analyse and forecast the evolution of the industry in order to compete effectively and outperform other firms in the same sector.

LITERATURE REVIEW

Studies have stressed a positive link between KM and firm performance. Olaima et al., (2015) collected data using a questionnaire approach and tested hypotheses from 260 service organizations in Jordan. The research findings revealed a knowledge management had a significant positive impact on organizational performance. Similarly, Kharabsheh, et al. (2012), conducted a study on the influence of KM on performance of Jordanian pharmaceutical firms. Using a descriptive cross sectional research design, data were gathered from 13 pharmaceutical companies using questionnaire and found a positive relationship. This argument thus supports the ability of the firm to create knowledge as a crucial aspect to fostering performance. Eresia and Makore (2017) studying knowledge acquisition and organisational performance applying a positivist philosophical perspective with a mixed method research design and self-administered questionnaires from all construction companies listed on the Johannesburg Stock Exchange (JSE) found that in the project-focused companies researched, high knowledge acquisition scores were associated with sound organizational performance and consequently recommended that companies ought to invest in mechanisms that enable the acquisition of knowledge from individuals and its transfer to institutional repositories.

Hartono and Sheng (2016) studied knowledge sharing and firm performance: the role of social networking site and innovation capability with a well developed a framework to explore SNSs' capability as a strategic platform from which firms can overcome environmental turbulence and develop higher level knowledge sharing and firm performance output. The findings were that SNSs' capability paired with strong product development capability is the key to improving knowledge sharing performance and that SNSs' capability paired with strong operational capability can improve firm performance by advancing incremental innovation processes. Daud and Yusoff (2010) studied knowledge management and firm performance in SMEs: The role of social capital as a mediating variable through the use of a questionnaire directed to small- and medium-sized enterprises — all of them situated within the Multimedia Super Corridor in the Klang Valley of Malaysia with the results based on 289 usable questionnaires demonstrating that: knowledge management processes influence social capital positively, social capital enhances firm performance and social capital is a mediator between knowledge management processes and firm performance. The research demonstrated that knowledge management processes and social capital can be integrated to enhance firm performance.

Kombo (2015) conducted a study on knowledge strategy, organizational characteristics, innovation and performance of manufacturing firms in Kenya. The objective of the study was to empirically examine the effect of knowledge strategy on organizational innovation. The study adopted cross-sectional survey research design. The target population comprised of 655 manufacturing firms in Kenya. The results show that knowledge strategy has a positive and significant effect on innovation activities of the firms. It is concluded that higher levels of knowledge strategy application would result in higher organizational innovation. Nawaz and Shaukat (2014) studied the impact of knowledge management practices on firm performance: Testing the mediation role of innovation in the manufacturing sector of Pakistan in an empirical study and investigated, from the knowledge-based view of the firm, whether there are groups of firms with homogeneous behaviours, as regards to knowledge management practices. The results show important differences in the conception and implementation of KMS, and significant relationships between the performance of some firms and their efficiency in the transmission and application of existing knowledge. The proposed study empirically examined the influence of KM on firm performance thus provide empirical evidence on the purported positive link between KM and performance of pharmaceutical firms in the context of a developing economy such as Kenya.

RESEARCH METHODOLOGY

This study adopted a positivist philosophy and a descriptive cross-sectional survey. The populations of the study were all registered retail pharmaceutical firms in Nairobi County as at 2019. To determine the sample size, the formula recommended by Almalki, (2016), Cooper and Schindler (2006) and Zikmund et al. (2010) was used. The authors argue that the formula is more critical since it can be used to calculate both the sample of population greater than 10,000 and population less than 10,000.

$$n = \frac{z^2 pq}{d^2}$$

Where: n is the desired sample size for population greater than 10,000, p = the proportion in the target population estimated to have characteristics being measured. This is placed at 90% (0.9), q = (1-p) i.e. the proportion in the target population estimated not to have characteristics being measured, (1-0.9) = 0.1, pq = measure of sample dispersion, d = standard error of the proportion. For this study, 95% confidence level for estimating the interval will be used.

$$n = \frac{z^2 pq}{d^2} = \frac{(1.96)^2 (0.9)(0.1)}{(0.05)^2}$$

n = 138 sample size for target population greater than 10,000

In case of a population less than 10,000, the sample size is determined using the following formula: $nf = \frac{n}{1+n/N}$ Where nf = the desired sample size (when the population is less than 10,000). n = 1 the desired sample size (when the population is more than 10,000). N = 1estimate of the population size.

$$nf = \frac{138}{1.192} = 115.80$$

A total of 116 retail pharmaceutical firms were considered in the study. The study used the systematic sampling method where every Kth variable was selected till the entire population was exhausted. The study considered every 4th firm as the Kth variable to select 116 firms from the total list of the 720 retail pharmaceutical firms in Nairobi County.

The collected data was analysed by inferential statistics and descriptive. Inferential statistics technique was used to test hypotheses. The general model for predicting firm performance was represented by the following model: $Y = \alpha + \beta_1 X_1 + \epsilon_1$. Where Y is the firm performance and is a linear function of X_1 (knowledge management), β_1 is the regression coefficient.

RESULTS

The objective of the study was to establish the influence of knowledge management on performance of retail pharmaceutical firms in Nairobi County. This study had anticipated that knowledge management would have a significant and positive influence on performance of retail pharmaceutical firms in Nairobi County. Consequently, the hypothesis was tested via simple linear regression model. Table 1 presents model summary, ANOVA and coefficient tables for knowledge management and performance.

Table 1: Regression Results of the Effect of Knowledge Management on Performance Model Summary^b

		_	_	Std. Error	_	Change Statistics				_
		R	Adjusted R	of the	R Square	F			Sig. F	Durbin-
Model	R	Square	Square	Estimate	Change	Change	df1	df2	Change	Watson
1	.742 ^a	.551	.546	.18965	.551	115.206	1	94	.000	1.995

a. Predictors: (Constant), Knowledge management

b. Dependent Variable: Firm Performance



ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4.144	1	4.144	115.206	.000 ^b
	Residual	3.381	94	.036		
	Total	7.525	95			

a. Dependent Variable: Firm Performance

Coefficients^a

				Standardized Coefficients			Collinearity Statistics	
Model		В	Std. Error	Beta	t	Sig.	Tolerance	VIF
1	(Constant)	1.863	.214	-	8.702	.000	-	
	Knowledge management	.562	.052	.742	10.733	.000	1.000	1.000

a. Dependent Variable: Firm Performance

The study found a strong relationship between knowledge management and performance (R= .742). Coefficient of determination (R² =.551) indicates that knowledge management explain 55.1 % of variation in performance. Also the results noted that the overall relationship model is significant (F=115.206, p<0.05). The individual influence of knowledge management significant relationship is further manifested by the t-value in the coefficient table $(\beta=.562, t=10.733, p<0.05)$. This therefore depicts that knowledge management is key in determining performance of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between Knowledge management and Performance of retail pharmaceutical firms in Nairobi County was rejected. Based on the outcomes of the results of the regression analysis, the model becomes; Y=1.863 +.562X₁ Where, Y was performance and X_1 is knowledge management.

The study further tested the influence of knowledge management on each dimension of performance. The study determined the influence of knowledge management on financial perspective. This was determined by getting the composite index of knowledge management and regress it against financial perspective using simple linear regression analysis to determine their significance levels. Consequently, the following sub hypothesis was tested; there is no significant relationship between Knowledge Management and financial perspective of retail pharmaceutical firms in Nairobi County. The results were as depicted in Table 2.

b. Predictors: (Constant), Knowledge management

Table 2: Relationship between Knowledge Management and Financial Perspective **Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.620 ^a	.385	.378	.33883

a. Predictors: (Constant), Knowledge management

ANOVA^a

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	6.748	1	6.748	58.775	.000 ^b
	Residual	10.792	94	.115		
	Total	17.539	95			

a. Dependent Variable: Financial Perspective

b. Predictors: (Constant), Knowledge management

Coefficients^a

		Standardized		-	_	
		Unstandardized Coefficients Coefficients				
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.212	.382		3.169	.002
	Knowledge management	.717	.094	.620	7.666	.000

a. Dependent Variable: Financial Perspective

The study found a relatively moderate relationship between knowledge management and Financial perspective (R= .620). Coefficient of determination (R2 = .385) indicates that knowledge management explain 38.5% of variation in financial perspective. Also the overall model is significant (F=58.775, p<0.05). The standardized beta coefficient indicate that knowledge management makes significant contribution to finance of a firm (Beta = .717, t = 7.666, p< 0.05). This therefore depicts that knowledge management is key predictor of financial perspective of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between Knowledge Management and financial perspective of retail pharmaceutical firms in Nairobi County was rejected. Based on the outcomes of the results the regression model explaining the relationship becomes;

 $Y = 1.212 + .717X_1$

Where, Y is financial perspective and X₁ is knowledge management

The study determined the influence of knowledge management on internal processes. This was determined by getting the composite index of knowledge management and regress it against internal processes using simple linear regression analysis to determine their

significance levels. Consequently, the following sub hypothesis was tested; there is no significant relationship between Knowledge Management and internal processes of retail pharmaceutical firms in Nairobi County. The results were as depicted in Table 3.

Table 3: Relationship between Knowledge Management and Internal Processes **Model Summary**

Model	R	R Square A	R Square Adjusted R Square		Std. Error of the Estimate			
1	.402 ^a	.162	.153		.40436	6		
a. Predictors: (Constant), Knowledge management ANOVA ^a								
Model		Sum of Square	es df	Mean Square	F	Sig.		
1	Regression	2.965	1	2.965	18.131	.000 ^b		
	Residual	15.370	94	.164				
	rtooladai	10.010	٠.					

a. Dependent Variable: Internal Processes b. Predictors: (Constant), Knowledge management Coefficients^a

	-	Unstandardized		Standardized	_	
		Coefficients		Coefficients		
Model	-	В	Std. Error	Beta	t	Sig.
1	(Constant)	2.393	.456		5.243	.000
	Knowledge management	.475	.112	.402	4.258	.000

a. Dependent Variable: Internal Processes

The study found a relatively moderate relationship between knowledge management and internal processes (R= .402). Coefficient of determination (R² =.162) indicates that knowledge management explain 16.2% of variation in internal processes. Also the overall model is significant (F=18.131, p<0.05). The standardized beta coefficient indicate that knowledge management makes significant contribution to internal processes (Beta = .475, t = 4.258, p< 0.05). This therefore depicts that knowledge management is key predictor of internal processes of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between Knowledge Management and internal processes of retail pharmaceutical firms in Nairobi County was rejected. Based on the outcomes of the results the regression model explaining the relationship becomes;

 $Y = 2.393 + .475X_1$

Where, Y is internal processes and X_1 is knowledge management.



The study determined independently the influence of knowledge management on customer focus. This was determined by getting the composite index of knowledge management and regress it against customer focus using simple linear regression analysis to determine their significance levels. Consequently, the following sub hypothesis was tested; there is no significant relationship between knowledge management and Customer focus of retail pharmaceutical firms in Nairobi County. The results were as depicted in Table 4.

Table 4: Relationship between Knowledge Management and Customer Focus **Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate					
1	.722 ^a	.521	.515	.28588					
a. Predict	a. Predictors: (Constant), Knowledge management								

ANOVA^a

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	8.341	1	8.341	102.063	.000 ^b
	Residual	7.682	94	.082		
	Total	16.023	95			

a. Dependent Variable: Customer Focus

Coefficients^a

		Standardized		_		
		Unstandardized Coefficients		Coefficients		
Model		В	Std. Error	Beta	Т	Sig.
1	(Constant)	.715	.323		2.216	.029
	Knowledge management	.798	.079	.722	10.103	.000

a. Dependent Variable: Customer Focus

The study found a strong relationship between knowledge management and customer focus (R= .722). Coefficient of determination (R² = .521) indicates that knowledge management explain 52.1% of variation in customer focus. Also the overall model is significant (F=102.063, p<0.05).

The standardized beta coefficient indicate that knowledge management makes significant contribution to customer focus (Beta = .798, t = 10.103, p< 0.05). This therefore depicts that knowledge management is key predictor of customer focus of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between

b. Predictors: (Constant), Knowledge management

knowledge management and Customer focus of retail pharmaceutical firms in Nairobi County was rejected. Based on the outcomes of the results the regression model explaining the relationship becomes;

 $Y = .715 + .798X_1$

Where, Y is customer focus and X_1 is knowledge management.

The study also determined the influence of knowledge management on employee focus. This was determined by getting the composite index of knowledge management and regress it against employee focus using simple linear regression analysis to determine their significance levels. Consequently, the following sub hypothesis was tested; there is no significant relationship between knowledge management and employee focus of retail pharmaceutical firms in Nairobi County. The results were as depicted in Table 5.

Table 5: Relationship between Knowledge Management and Employee Focus **Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate					
1	.614ª	.377	.371	.27494					
a. Predict	a. Predictors: (Constant), Knowledge management								

ANOVA^a

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	4.307	1	4.307	56.975	.000 ^b
	Residual	7.106	94	.076		
	Total	11.412	95			

a. Dependent Variable: Employee Focus

Coefficients^a

	-	Unstandardized		Standardized	-	
		Coefficients		Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.847	.310		5.951	.000
	Knowledge management	.573	.076	.614	7.548	.000

a. Dependent Variable: Employee Focus

The study found a strong relationship between knowledge management and employee focus (R= .614). Coefficient of determination (R² = .377) indicates that knowledge management explain 37.7% of variation in employee focus. Also the overall model is significant (F=56.970,

b. Predictors: (Constant), Knowledge management

p<0.05). The standardized beta coefficient indicate that knowledge management makes significant contribution to employee focus (Beta = .573, t = 7.548, p< 0.05). This therefore depicts that knowledge management is key predictor of employee focus of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between knowledge management and employee focus of retail pharmaceutical firms in Nairobi County was rejected. Based on the outcomes of the results the regression model explaining the relationship becomes:

 $Y = 1.847 + .573X_1$

Where, Y is Employee focus and X_1 is knowledge management.

The study determined the influence of knowledge management on learning and growth. This was determined by getting the composite index of knowledge management and regress it against learning and growth using simple linear regression analysis to determine their significance levels. Consequently, the following sub hypothesis was tested; there is no significant relationship between Knowledge Management and learning and growth of retail pharmaceutical firms in Nairobi County. The results were as depicted in Table 6.

Table 6: Relationship between Knowledge Management, and Learning and Growth **Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate			
1	.019 ^a	.000	010	.42856			
a. Predictors: (Constant), Knowledge management							
ANOVA ^a							

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.006	1	.006	.033	.857 ^b
	Residual	17.264	94	.184		
	Total	17.270	95			

a. Dependent Variable: Learning and Growth

Coefficients^a

		Standardized				_
		Unstandardized Coefficients		Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	4.254	.484		8.794	.000
	Knowledge management	.021	.118	.019	.181	.857

a. Dependent Variable: Learning and Growth

b. Predictors: (Constant), Knowledge management

The study found no relationship between knowledge management and learning and growth (R=.019). Coefficient of determination (R²=.000) indicates that knowledge management did not influence learning and growth. Also the overall model was not significant (F=.033, p>0.05). This therefore depicts that knowledge management is not predictor of learning and growth of retail pharmaceutical firms in Nairobi County and thus the hypothesis that there is no significant relationship between knowledge management and learning and growth of retail pharmaceutical firms in Nairobi County was not rejected.

CONCLUSIONS

The findings show that in general, the relationship between knowledge management and performance of retail pharmaceutical firms in Nairobi City County is statistically significant. The findings in the study suggested that knowledge management processes aid a firm in enhancing its business performance by having up-to- date information and knowledge. For knowledge to impact organizational performance it has to be used to support the firm's processes. Hence, it is through knowledge utilization that acquired knowledge can be transformed from being a potential capability into a realized and dynamic capability that impacts organizational performance. Additionally, knowledge acquisition done through valuing of employee attitudes and opinions, having well-developed financial reporting system, being market focused by actively obtaining customer and industry information, being sensitive to information about changes in the marketplace and getting information from market surveys all contribute to positive firm performance.

Further, knowledge sharing behaviours facilitated learning among employees and enabled them to resolve problems similar to situations encountered by others in the past, thus enabling quicker responses to the customers since by sharing their knowledge, individuals can realize synergistic results greater than those achievable by any individual alone. The study as well concluded that knowledge management practices in general influences organization performance in various ways including, knowledgeable employees, better decision making in the organization, improved service offering to client, reduced operational costs, improved organizational competitiveness. This is mainly so because there is increased awareness of information that is critical to achieving the organization's mission.

SUGGESTIONS FOR FURTHER RESEARCH

The study suggests further research be carried out to extend the knowledge management and performance discourse. Future studies can be carried out in other counties in Kenya and in other developing economies to compare the results of this study. Further studies should introduce different variable other than firm performance as the dependent variable. In addition future studies can use different research methodology such as structure structural equation modelling for data analysis and longitudinal research design. In addition further design can be carried out in a different sector different from the retail pharmaceutical firms.

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