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Financial Management Practices and Performance of SMEs in Ghana: The Moderating Role of Firm age

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ABSTRACT

This study examines the moderating effect of firm's age on therelationship between financial management practices of SMEs and their performance in Ghana. This paper relied on a sample of 200 SMEs in the Sekondi-Takoradi Metropolis using random sampling without replacement technique (random numbers). The study employed descriptive cross-sectional survey design. Ordinary least square regression analysis modelwas used to test the relationship between financial management practices and SMEs performance. The results show that receivable management, cash management, inventory management and asset management practices influence SMEs performance. Also, firm's age has a moderating effect on the relationship between financial management practice and SMEs performance. This implies thattime (age) enables firms to develop organizational routines to be able to perform their activities with more efficiency and which may better their performance. It is recommend that SMEs should incorporate good financial management practices such as credit management, cash management, inventory management and asset management in their operations.

Keywords: Financial management practices, asset management, Ordinary least square, Firm's age, SMEs, Ghana.

INTRODUCTION

The success or failure of small and medium enterprises (SMEs) is contingent on their financial viability and one of the most common problems facing such firms is their ability to secure sufficient cash flow and working capital to remain profitable(Siaw, 2014). Financial management was noted as one of the top problems facing SMEs as long ago as the Bolton Report in the early 1970s (Bolton, 1971). This has been a recurring theme in the small business literature since that time (Abor & Quartey, 2010; Amoako, 2012). Whilst all firms can encounter problems of financial management the challenges facing SMEs are more significant due to their small size and vulnerability to fluctuations in cash flow (Siaw, 2014).

Research has shown a positive relationship between the efficient management of cash flow and working capital, and the firm's profitability (Yazdanfar & Ohman, 2014). The more efficiently a firm manages its finance the more it can boost its profitability. This emphasizes speeding up the recovery of accounts receivable while carefully managing inventory turnover (Enqvist, Graham & Nikkinen, 2014). The owner-manager needs to ensure that they

monitor their accounts payable and accounts receivable closely. However, the amount of liquidity an SME requires may depend on its age, size, industry, availability of owner-manager's collateral, and whether it has access to bank overdraft facilities (Tauringana & Afrifa, 2013).

Although, the problem of finance and for that matter financial management has been identified as one of the major constraints to growth of small businesses (Mensah, 2004; MFPED 2008; Lashitew, 2011; Mina, Lahr & Hughes, 2012; Agyei, 2014), most of the research works concentrate on capital structure of SMEs (Marfo-Yiadom, 2002; Abor & Biekpe, 2006; Marfo-Yiadom& Agyei, 2011; Agyei-Mensah, 2012; Pieterson, 2012). In Addition, most of the researches do not establish the association between financial management practices and performance.

Therefore, the problem to be addressed in this research is to examine financial management practices and their association with the performance of SMEs in Sekondi-Takoradi. Sekondi-Takoradi is currently named the oil city of Ghana due to the discovery of oil in commercial quantity in the region and has attracted unprecedented migration of people all

over the world. Selection was based on the fact that it has a number of industrial units in the Western Region (GSS, June 2013). Hence, the economic activity as a result of variation in business activities will help make meaningful statistical inferences.

The objectives for this study therefore include,

- To determine the effect of financial management practices on performance; and
- To establish the moderating effect of firm's age on the association between financial management practices and performance in the SMEs sector in Sekondi-Takoradi

Hypotheses of the Study

In order to achieve objectives 1 and 2 the following hypotheses were tested:

 $H0_{1-a}$ There is no association between Account receivable management practices and SMEs performance

 $H0_{1-b}$ There is no association between Inventory management practices and SMEs performance

H0_{1-c} There is no association between Cash management practices and SMEs performance

H0_{1-d} There is no association between Asset management practices and SMEs performance

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m H0}_{2\text{-e}}$ Firm's age does not have a moderating effect on the association between Account receivable management practices and SMEs performance

H0_{2-f} Firm's age does not have a moderating effect on the association between Cash management practices and SMEs performance

H0_{2-g} Firm's age does not have a moderating effect on the association between Inventory management practices and SMEs performance

H0_{2-h} Firm's age does not have a moderating effect on the relationship between Asset management practices and SMEs performance

The rest of the paper is organised as follows. We review relevant literature in the next section; followed by our methods of data collection and analysis.

We then proceed to present our data results, and follow this up with discussion of the results. Key findings emerging from our discussion of the results occupy the section that follows; and we end the paper with conclusion and recommendations.

REVIEW OF RELATED LITERATURE

Financial management is concerned with raising the needed funds to finance the firm's assets and activities, effective allocation of funds between competing uses, and ensuring that the funds are used effectively and efficiently in order to accomplish the desired goal of the business (McMahon, Holmes, Hutchinson, & Forsaith (2008).

A number of studies have examined the relationship between the financial management variables and performance. For instance. Nyamao, Lumumba, Odondo & Otieno (2012) conducted a study to investigate the effects of working capital management practices on the financial performance of small-scale enterprises (SSEs) in Kisii South District, Kenya. The study, which adopted a cross-sectional survey research design, found that working capital management practices were low amongst SSEs as majority of them had not adopted formal working capital management Similarly, their financial performance was on a low average. The study concluded that working capital management practices influence the financial performance of small scale enterprise. The study relied on primary qualitative data to measure the working capital management practices, but the present study measures financial management using five constructs such as account receivable management, cash management, inventory management, account payable management and asset management based on primary quantitative data.

Likewise, Debasish, Joydeep and Prasenjit (2001) also investigate the association between the liquidity and profitability of Indian Private Sector enterprises as a case of Aluminum producing industry. They identified that there is a very high degree of positive correlation between liquidity and profitability of selected companies. They also observed that liquidity variables jointly influence profitability of the selected companies. According to Pedro and Pedro (2008), provision of trade credit has effect on the level of investment in assets and consequently impact on the profitability and liquidity of the firm. They argue that provision of trade credits has positive effect on sales as it improves the sales of the firm. However, overinvestment in accounts receivables adversely affect the operations of firm.

Additionally, in 2003, Deloof investigated the relationship between working capital management and corporate profitability for a

sample of 1,009 large Belgian non-financial firms for the period 1992-1996. He reports a negative relationship between profitability that was measured by gross operating income and cash conversion cycle as well number of day's accounts receivable and inventories. Furthermore, Delo of (2003) argues that shortening the inventory conversion period could lead to an increase in stock out costs of inventory which results in losing sales opportunities and consequently leads to poor performance. This study focuses on SMEs.

In another study, Dimitrios (2008) investigates the effect of inventory management on firm performance. He reports that too much inventory could demand more physical space, increase the possibility of inventories damage, deterioration and losses and consequently, could to financial problems. Additionally, Dimitrios (2008) argues that holding large amount of inventory frequently is an indication of inefficient and careless management practices and procedures. However, keeping too little inventories might also lead to the interruption of operation in manufacturing, increase the possibility sale loss and consequently lower the profitability of the firms. However, Panigrahi (2013) posits that there can be an unexpected relationship, where the correlation between inventory conversion period and sales can be positive. Panigrahi (2013) indicates decrease in inventory conversion period can result into decrease in sales and vice versa. This relationship shows unexpected ineffectiveness of managers to increase sales level because of decrease in inventory conversion period.

Similarly, Lazaridis and Dimitrios (2005) investigate the relation between working capital management and corporate profitability of listed company in the Athens Stock Exchange. Using a sample of 131 listed companies for period of 2001-2004, the result from regression analysis indicated that there was a statistical significant positive relationship between profitability, measured through gross operating profit, and the cash conversion cycle. From those results, they argue that managers could create value for shareholders or profit can be created by handling correctly the cash conversion cycle and keeping each of the different components of working capital (accounts receivables, accounts payables, inventory) to an optimum level.

In another study to examine cash management and growth of small scale businesses in

Ntungamo market in Kampala, Arihoona (2011) used a sample size of 38 businesses. The regression analysis showed that there is a positive significant relationship between cash management and growth of small scale businesses. Arihoona observed that poor cash management practices constrains business operations and some customers who are not satisfied with the services run away signifying poor performance and hence retards the growth of the business. From the foregoing literature, it is observed that a single study examining the effect of FM practices on SMEs performance in Sekondi-Takoradi metropolis is missing. Hence, the need to fill such research gap.

Firm's Age and Performance

The amount of time that a business has been in operation affects its ability to grow (Hui et al. 2013: Mann & Sager, 2007). Age of a business is associated with the firm's risk of failure, which implies that younger firms are at a higher risk of failure than older ones. Age could actually help firms become more efficient (Martins, Ligthelm & Wijk, 2003). Hall (1995) argues that older firms would have more time to learn about their costs, and so will have more accurate estimates of their costs. Hui et al. (2013) examines the impact of firm age and size on the relationship among organizational innovation, learning, and performance among Asian Food Manufacturing Companies. Using a sample of 168 food manufacturing companies, the regression analysis revealed that firm age and size are two moderators which control the relationship among organizational innovation, learning, and performance. The findings apparently demonstrate that age enables firms to develop organizational routines to be able to perform their activities with more efficiency and better performance.

The literature review revealed that attempts have been made to address the issue of financial management among SMEs. However, most of the research works concentrate on capital structure (Marfo-Yiadom, 2002; Abor & Biekpe, 2006; Marfo-Yiadom& Agyei, 2011; Agyei-Mensah, 2012; Pieterson, 2012; Nketsiah, 2015) and most of the researches also do not establish the relationship between financial management practices and performance. Furthermore, none has investigated all the five financial management practices (account receivable management, cash management, inventory management, account payable

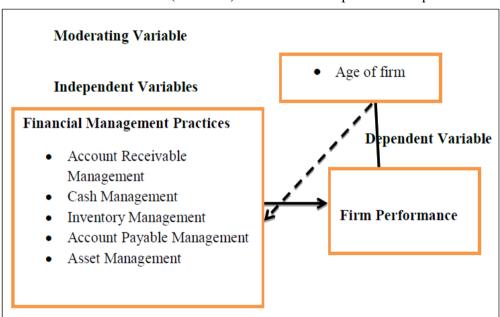
management and asset management) in one study.

Measuring Performance

Performance measures could include traditional accounting measures such as sales growth, market share, and profitability. In addition, factors such as overall satisfaction and nonfinancial goals of the owners are also very important in evaluating performance, especially among SMEs. This is consistent with the view of Wanjoi (2008) that both financial and nonfinancial measures should be used to assess organisational performance. Panigrahi (2013) posits that one of the indicators used to determine the performance of an enterprise is its turnover/ sales volume. In this study, sales volume was used because the SMEs sampled do not keep records of assets and liabilities in order to use other performance measures such as Return on Asset and or Return on Equity. The survey revealed that weekly turnover ranged from about two hundred Ghana cedis (GHS 200) to Eight Thousand Ghana cedis (GHS 8,000). Assuming a 52- week year cycle, it means sales volume / turnover ranged from ten thousand and four hundred Ghana cedis (GHS 10, 400) to four hundred and sixteen thousand Ghana cedis (GHS 416,000). This confirms the small and medium nature of the businesses surveyed according to Mensah (2004). However, it is worth noting that, the estimation of sales is usually a problem when no proper records are kept. Marfo-Yiadom and Agyei, (2011) and Nketsiah (2018) reported in a study of traders in Ghana that many traders gave figures from memory. The record keeping is generally poor and thus one can only rely on the recent memories of the traders to estimate the level of sales.

Conceptual Framework of The Study

Figure 1 is the conceptual framework illustrating the relationship between FM practices and firm's age as moderating variable between FM practices and performance.



Researcher's Construct, (2017)

METHODOLOGY

Empirical Model

In order to analyse the association between financial management practices and performance of SMEs; and to test the moderating effect of firm's age on the association between financial management practices and SMEs performance, multiple linear regression model is adopted. It was preferred because reveals statistical it relationships between variables and can be used to predict or estimate the behaviour of variables (McCartney *et. al.* 2006).

Profitability = α + β_1 .INVENTORYMGT + ϵ

This regression analysis model is adopted from the works of Deloof (2003), Padachi (2006) and Shin and Soenen (1998). However, Wambugu (2013) included other working capital variables such as account payable, cash and account receivables as well as growth in sales and growth in total assets as intervening variables to the model. That is, Following the works of Wambugu (2013), Padachi (2006), Deloof (2003) and Shin

&Soenen (1998), this study builds up on their models to include other financial management practice such as asset management (ASSET MGT). In addition, a moderating variable such as firm's age is also included in the model. The model thus becomes:

Profitability; = $\alpha + \beta_1$.ASSETMGT_i+ β_2 .ACRECMGT_i + β_3 .ACCPAYMGT_i + β_4 .CASHMGT_i + β_5 .INVMGT_i + β_6 .FIRMAGE_i + (β_7 .FINRECKEEP_i .FIRMAGE_i) + (β_8 .ASSETMGT_i .FIRMAGE_i) + (β_9 .ACRECMGT_i .FIRMAGE_i) + (β_{10} .ACCPAYMGT_i.FIRMAGE_i) + (β_{11} .CASHMGT_i .FIRMAGE_i) + (β_{12} .INVMGT_i .FIRMAGE_i) + ϵ_i

Table 1. Definition of Variables and Expected Signs

Variable	Definition	Expected Sign
Profitability	The amount realised from the sale of goods or rendering of services	
(Sales volume)	by owner mangers of SMEs in the normal operations of business in a	
	specific period.	
FIRMAGE	Number of years the firm has been in existence.	Positive
FINRECKEEP	The practice of maintaining and monitoring the history of financial	Positive
	activities by owner managers of SMEs.	
ACRECMGT	Management of credit owner/ manager of SMEs grant its customers	Positive
	when goods are sold or services are rendered	
CASHMGT	Managing cash on hand in order to ensure a firm's financial stability	Positive
	and solvency	
INVMGT	Activities employed by owner/ manager of SMEs in maintaining the	Indeterminate
	stock of any item or resource used in an organisation in order to	
	provide uninterrupted production, sales, and/or customer-service	
ACCPAYMGT	Involves how owner managers of SMEs manage monies owed to	Positive
	suppliers for products and services purchased on credit.	
ASSETMGT	Involves how owner managers of SMEs invest their short-term funds	Positive
	in order to help the businesses stay afloat financially.	

Target Population, Sampling technique and Sample size

Only registered SMEs in the database of NBSSI in the Sekondi-Takoradi metropolis were used in the study. The list of registered SMEs data obtained from the NBSS I numbered Seven Hundred and Sixty-two (762).

The names, phone numbers and exact locational addresses of registered enterprises in the Sekondi-Takoradi metropolis were given to the researcher by the NBSSI. A random sampling without replacement (table of random numbers-See Appendix A) was used to select 200 enterprises. Based on a table provided by Bartlett, Kotrlik and Higgins (2001) on determining minimum returned sample size for a given population size for continuous and categorical data, the minimum sample size of a population of about 800 registered SMEs requires a sample of about 166 registered SMEs(See Appendix B-The table includes sizes for both continuous and categorical data assuming alpha levels of .10, .05, or .01. The margins of error used in the table were .03 for continuous data and .05 for categorical data). However, since the list of registered SMEs data obtained from the NBSSI, as at July, 2017, totalled Seven hundred and sixty-two (762), the researcher randomly selected 200 registered SMEs to cater for non-response rate. The 200 registered SMEs selected is sufficient sample size accounting for about 26.2% of the total population of SMEs that have registered with NBSSI in the metropolis. This is consistent with Cresswell, (2003) and Sekaran, (2003).

Data Collection Procedure

The main data for this study was primary data which was collected through a self-administered questionnaire. The data collection process began with a meeting with the management of the Sekondi-Takoradi office of NBSSI to brief the regional manager about the issues relating to the data collection and to seek approval to approach the SMEs registered with his outfit. After the approval, a meeting was held between the researcher and research assistants who are staff of NBSSI who were engaged to undertake the data collection. Thereafter, a training session on the objectives of the study, the content of the

instruments, ethical matters, sampling and the data collection procedures to enable the research assistants in the data collection was held. Once the exact location of the owner managers shop/business premises is located, permission was sought. Thereafter, the objectives of the were explained to the sampled study respondents to assure them of confidentiality before the instrument was administered.

Data Analysis

Inferential statistics such as Factor analysis employing the principal component analysis (PCA) technique was used to identify the most **Table 2.** *Data Analysis Techniques*

significant Financial Management (FM) practices. Multiple linear regression model was developed and tested to explain the association between SMEs performance and the various financial management practices variables as indicated in the conceptual framework. McCartney *et. al.*, (2006) posits that multiple regression analysis is useful in determining whether or not a particular effect is present, in measuring the magnitude of a particular effect and in forecasting what would be of a particular effect.

Table 2 summarizes the data analysis techniques that were used in the study.

Research Objectives	Data Requirements and Statistical Approach			
Objective 1	Hypothesis 1: There is no significant association between			
Determine the effect of FM practices on	FM practices and performance (sales volume) of SMEs in			
performance.	Sekondi-Takoradi Metropolis.			
	Inferential Statistics			
	multiple linear regression model			
	HO_1 : $\beta i = 0$			
	HO_1 : $\beta i \neq 0$			
	Reject $H0_1$ if $p < 0.05$, otherwise fail to reject the $H0_1$			
Objective 2	Hypothesis 2 : Firm age does not have a moderating effect on			
Establish the moderating effect of firm age	the association between FM practices and performance in the			
on the relationship between financial	SMEs sector in Ghana.			
management practices and performance of	Inferential Statistics			
SMEs in Sekondi-Takoradi.	Hierarchical multiple linear regression model			
	HO_2 : $\beta i = 0$			
	HO_2 : $\beta i \neq 0$			
	Reject $H0_2$ if p < 0.05, otherwise fail to reject the $H0_2$			

Ethical Considerations

The purpose of the study was explained to each participant and they were made aware that they are free to refuse to respond to any item that they are not comfortable with. Consent was obtained from each participant in the study. In this respect, owner managers of SMEs were asked to append their signatures or thumbprints on a consent form or give verbal consent to participate. Participants were assured of the confidentiality of information that they will provide.

RESULTS AND DISCUSSION

Firm Characteristics

One firm characteristic that has been found to influence performance of SMEs is the age of the firm. Experience can be measured through the number of years a person had managed a

business. Table 3 shows that the age of SMEs in the study ranged from one year to 15 years and above. It can be observed that most of the firms in the study 80 (54.40%) fell within the 11-15-year group. The second largest group of firms in terms of age was those which were established 6 to 10 years ago (37.40%). This implies that entrepreneurs in the study had experience in terms of the number of years they had managed a firm as majority (91.80%) of them had managed their businesses for 6 years or more.

The size of the firm was measured according to the total number of employees of the firm. Table3 shows that majority of the firms in the study according to Ghana Statistical Service classification of SMEs were small scale enterprises which employ up to 9 people (90.50%). This is followed by medium and large-sized enterprise which constituted 9.50 percent of the respondents.

 Table 3 Other Socio-demographic Characteristics of Respondents

Socio-demographic Characteristic		Frequency	Percent
Age of firm	1-5 years	3	2.0

Financial Management Practices and Performance of SMEs in Ghana: The Moderating Role of Firm Age

	6-10 years	55	37.4
	11-15 years	80	54.4
	Above 15 years	9	6.1
	Total	147	100
Number of Employees	0 – 5 employees	97	66.0
	6 – 9 employees	36	24.5
	10 – 14 employees	14	9.50
	Total	147	100

Source: Fieldwork (2017)

Effects of Financial Management Practices On Performance.

In order to test the effect of financial management practices on SMEs performance and the moderating effect of firm's age on SMEs performance, multiple linear regression analysis was utilised. Table 4 presents the results of two multiple linear regression models. In the first model, the FM practices together with the moderating variable (firm's age) were entered. In the second model, the interaction effect of the moderating variable (firm's age) was assessed. The output comprises of beta, t value, the R Square, Adjusted R Square change, F statistics and the significance value (P-value).

Table 4 (Model 1 column-results for objective 1) shows that cash management (p=0.001, β = 0.280) has a statistically significant association with SMEs performance (sales volume). The positive significant relationship between cash management practices and the performance of SMEs of Sekondi-Takoradi metropolis implies that good cash management practice that ensures that customers are given rebates in the form of cash discounts will induce them to purchase more, hence, increasing the firm's sales volume. This positive relationship is consistent with the findings of Lazaridis and Table 4. Regression Results

Tryfonidis (2006) who report statistically significant positive relationship between profitability, measured through gross operating profit and the cash conversion cycle. Arihoona (2011) who examines cash management and growth of small scale businesses in Ntungamo market in Kampala also reports a positive relationship significant between cash management and growth of small scale businesses.

Furthermore, Table 4 (Model 1 column-results for objective 1) shows that asset management 0.251) has a statistically $(p=0.020, \beta=$ significant association with SMEs performance volume). The positive significant relationship means that the appraisal of new and existing capital investment projects enables firms embarks on investments that have potential to increase sales volume. Again, effective asset management decisions can positively affect SMEs performance. This is due to the fact that, effective asset allocation will ensure that asset are allocated to areas possible to yield positive returns in terms of sales. This confirms the findings of Peel and Wilson (1996) and Olawale et al. (2010) who report that the use of investment appraisal techniques has a positive impact on profitability.

Variables	Standardized Coefficients				
Dependent Variable: Sales volume	Model 1		Interactio	Interaction Model	
	Beta	Sig.	Beta	Sig.	
1 Constant		.000		.000	
Account Receivable Management Practices	.175	.105	.316	.001	
Cash Management Practices	.280	.001	.118	.114	
Inventory Management. Practices	.042	.742	.220	.057	
Account Payable Management Practices	.171	.148	.113	.276	
Asset Management Practices	.251	.020	.024	.810	
Firm's Age	.501	.000	.550	.000	
Account Receivable Management Practices x Firm's age			.268	.000	
Cash Management Practices x Firm's age			.042	.620	
Inventory Management Practices x Firm's age			.387	.000	
Account Payable Management Practices x Firm's age			095	.324	
Asset Management Practices x Firm's age			.333	.000	
Adjusted $R^2 = .220$	R Square	Change = 0.2	52		
F Statistics $(6,132) = 7.492$	F Statistic	cs(7,131) = 13	8.857		
P < 0.005	P < 0.005				

Number of observations (N) = 147

Source: Fieldwork (2017)

Age Effect

Hierarchical multiple linear regression analysis was used to determine interaction. Frazier and Barron. (2004) and MacKinnon (2000) advocate the use of regression analysis in testing interaction effects. Frazier et al. (2004) define a moderator as a mechanism through which a predictor influences an outcome variable. In the context of this study, firm's age is moderating by virtue of their intervening effect on the relationship between financial management practices and performance of SMEs. Consequently, the study used hierarchical multiple linear regression analysis using the SPSS test for moderation.

The results in Table 4 (Interaction model-results for objective 2) indicate that firm's age significantly interact the association between financial management practices and performance (sales volume) of SMEs in Sekondi-Takoradi metropolis. The interaction model as a whole is significant {F (7,131) = 18.857, p<0.005}.

Furthermore, it was hypothesized that firm's age does not moderate the effect of the FM practices and SMEs performance. From Table 4, results of the interaction model established significant contribution of firm's age (β = 0.550; p= 0.000) to the model as the products of the FM practices and SMEs performance. This means the effects of the FM practices on SMEs performance depend on the age of the firm. Thus, FM practices as well as firm's age play important role in SMEs performance. Therefore, firm's age can indeed interfere with the interaction between FM practice and SMEs performance. This is because over time, firms discover what they are good at and learn how to do things better by specializing, develop organizational routines and find ways to standardize, coordinate, and speed up their production processes, as well as to reduce costs and improve quality (Hui et al. 2013). Again, over time, older firms would have more time to learn about their costs, and so will have more accurate estimates of their costs. As a result, unpleasant surprises in their costs will be minimised. Hence, evidence of firm's age as an interaction factor on the relationship between FM practices and SMEs performance has been established.

The coefficients in Table 4 (interaction model) shows that inventory management practices (β =

0.387, p=0.000), asset management practices $(\beta = 0.333, p=0.000)$ and account receivable management practices (β = 0.268, p=0.000) make statistically significant contribution in explaining the relationship between FM practices and performance when firm's age is taken as moderating variable. This positive association between receivables management and SMEs performance when firm's age is taken as moderating variable implies that when businesses institute stringent credit policy which only offers credit to credit worthy customers, overtime it may reduce the level of creditors, thus ensuring that the business has available cash to run its activities which may lead to increased sales. This positive association receivable management between account practice and sales volume is consistent with the findings of Pedro and Pedro (2008).

Additionally, the positive relationship between inventory management and performance of SMEs of Sekondi-Takoradi metropolis means that with time firms that employ efficient inventory management practices can reduce inventory to an optimal level which has positive effect on production and sales. Similarly, increasing the inventory conversion period could lead to a decrease in stock out costs of inventory which results in enhancing sales opportunities and consequently leads to good performance (Deloof, 2003). Additionally, frequently keeping too little inventories as a result of inefficient and careless management practices and procedures might also lead to the interruption of operation in manufacturing, increasing the possibility of sale loss and consequently lower the profitability of the firms (Panigrahi, 2013) Studies such as Panigrahi (2013), Dimitrios (2008), Singh (2008) and Deloof, 2003 confirms these results.

CONCLUSIONS

The conclusions drawn from the study are discussed below.

To begin with, financial management practices such as receivables management; inventory management, cash management and asset management are very important and indeed influence performance of SMEs.

Also, the positive association between financial management practices and SMEs performance when firm's age is controlled for indicates that,

the effects of the financial management practices on SMEs performance depend on the longevity of the firm. This implies that age enables firms to develop organizational routines to be able to perform their activities with more efficiency and that may better their performance.

RECOMMENDATIONS

This study put forward some essential recommendations:

- Although receivable management practices, management practices. inventory management practices and asset management practices are associated with the performance of SMEs, entrepreneurs must not interpret it only practices for achieving performance in terms of sales volume. Entrepreneurs can be trained to make more realistic evaluations of their business capabilities and incorporate good financial management practices in their operations.
- Again, owner managers of SMEs must be educated on the need to use formal procedures in receivable management (trade credit) so as to enhance the receivable collection process by ensuring consistency and uniformity of collection techniques.
- Owners of SMEs should be trained on management of inventory by carrying out stock checking and stock records. They should also improve on advertisement, marketing strategies and attitude towards customers in order to make higher sales and increase profits.

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APPENDIX A: Table of Random Numbers showing Sample of SMEs in Sekondi-Takoradi

200 Random Numbers

331 600 353 687 448 606 692 635 044 293 510 622 643 020 367 290 722 749 464 557 077 196 041 505 435 443 418 492 272 372 477 720 350 339 575 427 467 345 711 375 063 033 529 361 663 521 386 589 741 489 484 296 298 697 060 244 656 182 640 231 494 671 497 459 370 638 594 166 689 085 171 114 285 534 549 101 122 261 608 329 760 228 705 036 318 437 282 746 676 684 660 733 513 410 516 199 591 378 614 668 708 586 191 616 305 072 008 603 142 762 627 068 220 730 725 537 337 736 301 486 695 424 679 472 532 150 738 700 611 117 074 407 728 326 412 355 526 573 028 342 363 502 646 570 239 469 744 277 559 475 321 023 155 163 139 212 754 651 757 440 630 619 093 147 187 065 432 655 546 313 047 082 383 039 106 310 461 006 204 017 578 215 543 524 174 665 158 713 012 391 015 179 090 358 315 648 207 567 451 394 Specs: This table of 200 random numbers was produced according to the following specifications: Numbers were randomly selected from within the range of 1 to 762. Duplicate numbers were not allowed. This table was generated on 6/24/2017

APPENDIX B: Sample size determination table

Table 1: Table for Determining Minimum Returned Sample Size for a Given Population Size for Continuous and Categorical Data

Population size	Sample size					
	Continuous data (margin of error= .03)		Categorical data (margin of error= .05)			
	$alpha=.10$ $\underline{t}=1.65$	alpha=.05 <u>t</u> =1.96	alpha=.01 <u>t</u> =2.58	p=.50 <u>t</u> =1.65	p=.50 t=1.96	<u>p</u> =.50 <u>t</u> =2.58
100	46	55	68	74	80	87
200	59	75	102	116	132	154
300	65	85	123	143	169	207
400	69	92	137	162	196	250
500	72	96	147	176	218	286
600	73	100	155	187	235	316
700	75	102	161	196	249	341
800	76	104	166	203	260	363
900	76	105	170	209	270	382
1,000	77	106	173	213	278	399
1,500	79	110	183	230	306	461
2,000	83	112	189	239	323	499
4,000	83	119	198	254	351	570
6,000	83	119	209	259	362	598
8,000	83	119	209	262	367	613
10,000	83	119	209	264	370	623

NOTE: The margins of error used in the table were .03 for continuous data and .05 for categorical data. Researchers may use this table if the margin of error shown is appropriate for their study; however, the appropriate sample size must be calculated if these error rates are not appropriate. Table developed by Bartlett, Kotrlik, & Higgins.

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