



Gusau Journal of Accounting and Finance (GUJAF)

Vol. 5 Issue 2, October, 2024 ISSN: 2756-665X

A Publication of
Department of Accounting and Finance,
Faculty of Management and Social Sciences,
Federal University Gusau, Zamfara State -Nigeria

© Department of Accounting and Finance

Vol. 5 Issue 2
October, 2024
ISSN: 2756-665X

A Publication of
Department of Accounting and Finance,
Faculty of Management and Social Sciences,
Federal University Gusau, Zamfara State -Nigeria

All Rights reserved

Except for academic purposes no part or whole of this publication is allowed to be reproduced, stored in a retrieval system or transmitted in any form or by any means be it mechanical, electrical, photocopying, recording or otherwise, without prior permission of the Copyright owner.

Published and printed by:

Ahmadu Bello University Press Limited, Zaria
Kaduna State, Nigeria.

Tel: 08065949711, 069-879121

e-mail: abupress2013@gmail.com

abupress2020@yahoo.com

Website: www.abupress.com.ng

EDITORIAL BOARD

Editor-in-Chief:

Prof. Shehu Usman Hassan

Department of Accounting, Federal University of Kashere, Gombe State.

Associate Editor:

Dr. Muhammad Mustapha Bagudo

Department of Accounting, Ahmadu Bello University Zaria, Kaduna State.

Managing Editor:

Dr. Umar Farouk Abdulkarim

Department of Accounting and Finance, Federal University Gusau, Zamfara State.

Editorial Board

Prof. Ahmad Modu Kumshe

Department of Accounting, University of Maiduguri, Borno State.

Prof Ugochukwu C. Nzewi

Department of Accounting, Paul University Awka, Anambra State.

Prof Kabir Tahir Hamid

Department of Accounting, Bayero University, Kano, Kano State.

Prof. Ekoja B. Ekoja

Department of Accounting, University of Jos.

Prof. Clifford Ofurum

Department of Accounting, University of PortHarcourt, Rivers State.

Prof. Ahmad Bello Dogarawa

Department of Accounting, Ahmadu Bello University Zaria.

Prof. Yusuf. B. Rahman

Department of Accounting, Lagos State University, Lagos State.

Prof. Suleiman A. S. Aruwa

Department of Accounting, Nasarawa State University, Keffi, Nasarawa State.

Prof. Muhammad Junaidu Kurawa

Department of Accounting, Bayero University Kano, Kano State.

Prof. Muhammad Habibu Sabari

Department of Accounting, Ahmadu Bello University, Zaria.

Prof. Okpanachi Joshua

Department of Accounting and Management, Nigerian Defence Academy, Kaduna.

Prof. Hassan Ibrahim

Department of Accounting, IBB University, Lapai, Niger State.

Prof. Ifeoma Mary Okwo

Department of Accounting, Enugu State University of Science and Technology, Enugu State.

Prof. Aminu Isah

Department of Accounting, Bayero University, Kano, Kano State.

Prof. Ahmadu Bello

Department of Accounting, Ahmadu Bello University, Zaria.

Prof. Musa Yelwa Abubakar

Department of Accounting, Usmanu Danfodiyo University, Sokoto State.

Prof. Salisu Abubakar

Department of Accounting, Ahmadu Bello University Zaria, Kaduna State.

Prof. Isaq Alhaji Samaila

Department of Accounting, Bayero University, Kano State.

Prof. Sunusi Sa'ad Ahmad

Department of Accounting, Federal University Dutse, Jigawa State.

Prof. OnipeAdebenege Yahaya

Department of Accounting, Nigerian Defence Academy, Kaduna State.

Prof. Saidu Adamu

Department of Accounting, Federal University of Kashere, Gombe State.

Prof. Farouk Adeza

School of Business and Entrepreneurship, American University of Nigeria, Yola.

Prof. Fatima Alfa

Department of Accounting, University of Maiduguri, Borno State.

Dr. Nasiru A. Ka'oje

Department of Accounting, Usmanu Danfodiyo University Sokoto State.

Dr. Aminu Abdullahi

Department of Accounting, Usmanu Danfodiyo University Sokoto, State.

Dr. Nasiru Yunusa

Department of Accounting, Ahmadu Bello University Zaria.

Dr. Aisha Nuhu Muhammad

Department of Accounting, Ahmadu Bello University Zaria.

Dr. Lawal Muhammad

Department of Accounting, Ahmadu Bello University Zaria.

Dr. Bashir Umar Farouk

Department of Economics, Federal University Gusau, Zamfara State.

Dr Emmanuel Omokhuale

Department of Mathematics, Federal University Gusau, Zamfara. State

ADVISORY BOARD MEMBERS

Prof. Kabiru Isah Dandago, Bayero University Kano, Kano State.

Prof A M Bashir, Usmanu Danfodiyo University Sokoto, Sokoto State.

Prof. Muhammad Tanko, Kaduna State University, Kaduna.

Prof. Bayero A M Sabir, Usmanu Danfodiyo University Sokoto, Sokoto State.

Prof. Aliyu Sulaiman Kantudu, Bayero University Kano, Kano State.

Editorial Secretary

Yazid Kabir Ibrahim

Department of Accounting and Finance, Federal University Gusau, Zamfara State.

CALL FOR PAPERS

The editorial board of Gusau Journal of Accounting and Finance (GUJAF) is hereby inviting authors to submit their unpublished manuscript for publication. The journal is published in two issues of April and October annually. GUJAF is a double-blind peer reviewed journal published by the Department of Accounting and Finance, Faculty of Management and Social Sciences, Federal University Gusau, Zamfara State Nigeria. The Journal accepts papers in all areas of Accounting and Finance for publication which include: Accounting Standards, Accounting Information System, Financial Reporting, Earnings Management, , Auditing and Investigation, Auditing and Standards, Public Sector Accounting and Auditing, Taxation and Revenue Administration, Corporate Governance Issues, Corporate Social Responsibility, Sustainability and Environmental Reporting Issue, Information and Communication Technology Issues, Bankruptcy Prediction, Corporate Finance, Personal Finance, Merger and Acquisitions, Capital Structure, Working Capital Management, Enterprises Risk Management, Entrepreneurship, International Business Accounting and Finance, Banking Crises, Bank's Profitability, Risk and Insurance Issue, Islamic Finance, Conventional and Islamic Banks and so forth.

GUIDELINES FOR SUBMISSION AND MANUSCRIPT FORMAT

The submission language is English and must be a well-researched original manuscript that has not previously been submitted elsewhere for publication. The paper should not exceed more than 15 pages on A4 type paper in MS-word format, 1.5-line spacing, 12 Font size in Times new roman. Manuscript should be tested for plagiarism before submission, as the maximum similarity index acceptable by GUJAF is 25 percent. Furthermore, the length of a complete article should not exceed 5000 words including an abstract of not more than 250 words with a minimum of four key words immediately after the abstract. All references including in text citation and reference list, tables and figures should be in line with APA 7th Edition publication manual. Finally, manuscript should be send to our email address elfarouk105@gmail.com and a copy to our website on journals.gujaf.com.ng

PUBLICATION PROCEDURE

After receiving a manuscript that is within the similarity index threshold, a confirmation email will be sent together with a request to pay a review proceeding fee. At this point, the editorial board will take a decision on accepting, rejecting or making a resubmission of the manuscript based on the outcome of the double-blind peer review. Those authors whose manuscript were accepted for publication will be asked to pay a publication fee, after effecting all suggested corrections and changes made on the manuscript. All corrected papers returned within the specified time frame will be published in that issue.

PAYMENT DETAILS

Bank: FCMB

Account Number: 7278465011

Account Name: Gusau Journal of Accounting and Finance

FOR INQUIRY, CONTACT

Dr. A.U. Farouk

Department of Accounting and Finance,

Federal University Gusau, Zamfara State.

elfarouk105@gmail.com

+2348069393824

FOR MORE INFORMATION, CONTACT

The Editor-in-Chief on +2348067766435

The Associate Editor on +2348036057525

OR visit our website on www.gujaf.com.ng or journals.gujaf.com.ng

TABLE OF CONTENTS

The Impact of Gender Diversity on Earnings Quality of Listed Financial Services Firms in Nigeria: Analysis of Two-Stage Least Squares <i>Joseph Olorunfemi AKANDE, PhD</i>	1-18
The Impact of Audit Quality on Firm’s Performance of Listed Consumer Goods Firms in Nigeria <i>Fatima Shehu Giwa, Prof. Benjamin Kumai Gugong, Gloria Pam Dachomo</i>	19-33
Women in Top Echelon Positions and their Effects on Carbon Emission Disclosure: Evidence from an Emerging Nation. <i>Saheed Olanrewaju Issa, Abdulkadri Toyin Alabi, Abdulbaki Teniola Ubandawaki</i>	34-47
CEO Characteristics and Financial Performance of Listed DMBs in Nigeria <i>Florence Bosede Ajagbonna, Benjamin Kumai Gugong, Augustine Ayuba, Idris Mohammed, Isuwa Dauda</i>	48-69
Post Covid-19 Pandemic: Comparative Study in the Value Relevance of Accounting Information Between Listed Manufacturing Firms and Listed Service Firms in Nigeria <i>Abbas, Abdulrahman Ngadi, Abubakar, Aliyu, Abdu, Abubakar</i>	70-87
Environmental and Social Information Disclosure Quality and Financial Performance of Listed Manufacturing Companies in Nigeria.: <i>Saka Tunde Abdulsalam, Ph.D</i>	88-108
The Impact of Corporate Social Responsibility on Bank Performance in Nigeria <i>Ibrahim Yinka Agbeyinka</i>	109-123
The Impact of Firm Characteristics on Accruals and Real Earnings Management of Listed Manufacturing Firms in Nigeria: <i>Muhammad, Aisha Chado</i>	124-142
The Impact of ESG Practices on the Risk Portfolio of Listed Oil and Gas Firms in Nigeria Using a Multilayered Criterion: <i>Joseph Olorunfemi Akande</i>	143-155
Effect of Selected Macroeconomic Variables on Stock Market Volatility in Nigeria <i>Hauwa Bayero Tijjani, Prof Sheikh Ahmad Abdullahi, Dr Ibrahim Mohammed, Dr Isma’il Tijjani Idris</i>	156-171
Moderating Effect of Audit Quality on Value Relevance of Fair Value Measurements Hierarchy of Listed Financial Services Companies: <i>Tesleem Olayinka Adeyemi</i>	172-202
Effect of Audit Quality Attributes and IFRS Adoption on Financial Reporting Quality of Listed Manufacturing Firms in Nigeria: <i>Muhammad, Aisha Chado</i>	203-221
Electronic Banking and Performance of Banking Sector in Nigeria <i>Kayode David Kolawole</i>	222-234

Do Audit Committee and Board Attributes Influence Environmental Disclosure: An Empirical Investigation of Listed Firms in Nigeria. Haruna Muhammed Musa	235-248
Impact of External Debts on Economic Growth in Nigeria Ibrahim Yinka Agbeyinka	249-261
Effect of Compliance Cost and Tax Burden on Tax Compliance of Small and Medium-Scale Enterprises in Benue State, Nigeria Okpe Caleb John, Prof. Aliyu Nuraddeen Shehu, Prof. Bello A. Ahmad, Ahmed Aliyu Abdullahi PhD, Mohammed Musa Abdulkarim PhD	262-282
The Effect of Bank Sectoral Credit and Exchange Rate on Financial Performance of Listed Manufacturing Firms in Nigeria. Ibrahim Kabir Adedeji, Dr Ibrahim Muhammed, Prof. Muhammed Habibu Sabari Prof. Abiodun Popoola	283-297
The Effects of Interest rate and Money Supply on Systematic Risk Associated with Return in Nigerian Exchange Adedokun Rofiat, Prof. Sani Abdullahi, Dr. Ibrahim Mohammed, Prof. Ahmad Dogarawa	298-314
Effect of Firm Attributes on the Growth of Healthcare Companies Listed on The Nigerian Exchange Group Salisu Isyaku Dahiru, Adeyemi Tesleem, PhD, Suleiman Salami, PhD	315-331
Corporate Social Responsibility and Performance of Firms in Lagos State Nigeria Kayode David Kolawole	332-343
Does Taxation Affect Banks' Profitability: Evidence from Nigeria Emmanuel Imuede Oyasor	344-356
Working Capital Management and Manufacturing Performance in Nigeria Adedeji Daniel Gbadebo	357-368
The Multidimensionality Foreign Direct Investment's Impact on The Economy Emmanuel Imuede Oyasor	369-383
Private Capital Formation, Public Sector Capital Formation and Economic Growth in South Africa. Ahmed Oluwatobi Adekunle ,.....	384-396
Macroeconomic Determinants and Stock Market Volatility amidst the Period of Economic Recession in Nigeria Hauwa Bayero Tijjani, Prof Sheikh Ahmad Abdullahi, Dr Ibrahim Mohammed Dr Isma'il Tijjani Idris	397-413

EFFECT OF FIRM ATTRIBUTES ON THE GROWTH OF HEALTHCARE COMPANIES LISTED ON THE NIGERIAN EXCHANGE GROUP

Salisu Isyaku Dahiru

Department of Accounting,
ABU Business School

Ahmadu Bello University, Zaria-Nigeria.

Phone: +2348069434568, karimdele5232@gmail.com

Adeyemi Tesleem, PhD

Department of Accounting,
ABU Business School

Ahmadu Bello University, Zaria-Nigeria.

Suleiman Salami, PhD

Department of Accounting,
ABU Business School

Ahmadu Bello University, Zaria-Nigeria.

DOI: <https://doi.org/10.57233/gujaf.v5i2.19>

Abstract

The Nigerian healthcare industry is poorly performing compare to global standards and remains heavily dependent on imports especially Consumer Drugs and Vaccines. It is estimated that total pharma market has come down from \$ 717 million ₦293.97B in 2016 to \$ 607 million ₦248.87B in 2017 with negative growth of 15.6%. In light of this, the study examined the effect of firm attributes on the growth of listed healthcare companies in Nigeria from the period of 2013-2022. The population of the study consisted of eleven 11 healthcare companies listed in Nigeria, three 3 healthcare companies were later filtered out reducing the total population to eight 8 adjusted population. Secondary data were extracted from the annual financial reports of the eight 8 adjusted population from 2013 to 2022. The dependent variable which is firm growth was proxied by changes in sales of the companies, while firm attributes was proxied by leverage, profitability, liquidity and firm size. After all the necessary diagnostic tests were conducted the outcome supported the use of the Random Effect regression analysis technique. The regression result shows that profitability and liquidity have positive and significant effect on the growth of healthcare companies in Nigeria. Therefore, the study concluded that profitability and liquidity are the major determinants of healthcare companies' growth in Nigeria. In line with the conclusion, the study recommended that the management of the listed healthcare companies in Nigeria should increase their profitability to enhance their growth. Also, the management of the listed healthcare companies in Nigeria should maintain a reasonable ratio of liquidity to ensure their growth.

Keywords: Firm Attributes, Firm Growth, Healthcare Companies, and Nigeria.

1.0 Introduction

Firm growth has become the most important topic of interest to corporate organization, policy makers and economic researchers as it provides essential understandings of one of the most important measures of company performance, its importance in job creation as well as one of the most important economic elements (Lyeonov *et al.*, 2021). Therefore, firms' growth assumption is projected to be supported by the available resources, diversification of firms, cheap financing costs and management efficiency. Furthermore, firm growth is important for the creation of wealth, employment and economic development in every country, industrial concentration and overall economic activity with implications on the regulation policies (Hall, 2015).

In the past few decades, technological changes have proven to either be sustainable or disruptive to companies all over the world. So, firms usually diversify their capital to achieve the future goals that are directed towards growth factors and value creation in an attempt to survive and attract new investors and creditors. However, firm's growth takes different aspects either in assets, profit, manpower or sale. Business grows from micro to medium and to large. Medium Enterprises (ME) growth can be defined as increase in size of MEs in terms of sales growth, employment growth, market share growth, and firm size growth (Peter, 2011).

The healthcare subsector is very important not only for securing the health of the citizens, but also for providing a great source of national income through medical supplies exportation and local sales. Good health is an essential element of quality of life, whereas the access to health services is a fundamental right. The generalized access to quality health services depends on the economic development level and on the allocation and use of available resources (Artiga & Hinton, 2019). In Nigeria, the vision of becoming one of the leading largest 20 economies of the world by the year 2020 is closely tied to the development of its human capital through the health sector (Babatunde *et al.*, 2020). In any nation, the healthcare sector shows an important role in the overall health of its population. Access to healthcare remains a significant global issue, with many people around the world lacking access to basic healthcare services. According to World Health Organization (WHO), approximately half of the world's population still does not have full coverage for essential health services and has significantly retarded the growth rate of health industries (World Health Organization [WHO], 2021).

Furthermore, the Nigerian healthcare industry is poorly performing compare to global standards and remains heavily dependent on imports especially Consumer Drugs and Vaccines. It is estimated that total pharma market has come down from \$ 717 million (N293.97B) in 2016 to \$ 607 million ₦248.87B in 2017 with negative growth of 15.6% (Pharmexcil, 2018). The healthcare sector in Nigeria has seen a volatile and difficult business environment exacerbated by the recent depreciation of the Naira against the US dollar which has slowed its growth pace. Increase in production costs has also led to increase in drug prices with serious implications for production and demand for the products (Nigerian Bureau of Statistics [NBS], 2020).

Empirical evidence has shown that there are several studies on the growth of healthcare companies in the developed societies compared to those of the developing societies like Nigeria (Ali & Sayed, 2020; Lyeonov *et al.*, 2021; Zhou *et al.*, 2020). Despite the importance of the healthcare companies to the wellbeing of the citizens, there are little studies on the factors that influence the growth of these companies in Nigeria. With most of the studies concentrating on financial performance of the healthcare companies in Nigeria (Abu & Bamidele, 2022; Arumona *et al.*, 2019; Sani & Abubakar, 2022). This study will therefore contribute to the body of knowledge in this area by examining the effect of firm attributes on growth of listed healthcare companies in Nigeria.

2.0 Literature Review

The conceptual, empirical, and theoretical reviews of the various variables that were included in the study's model are contained in this section of the study.

Firm growth

Penrose (2009) defines firm growth as an increase in a specific amount, such as an increase in sales, production, or exports. Second, Penrose describes business growth as a specialized development process, comparable to biological processes, that results in a size or quality rise. Firm growth is the process by which businesses seek out market opportunities and acquire and

accumulate the resources needed to capitalize on those opportunities, (Dosi, 2019). Inconsistencies is a problem because different measures lead to different levels of firm growth, making policy recommendations difficult to formulate (Coad, 2010). Moreover, the elements that drive business growth differ depending on the specified firm features. Growth opportunity is the probability of the firm to grow (Hermuningsih, 2013).

It is difficult to define growth firms. This is because there is no visible metric for measuring the firm's growth. Most authors utilize employment and/or sales (Delmar, 2006), but other indicators have been employed as well, including productivity, revenue, value added, profit, market share, market value, and asset growth. (Daunfeldt *et al.*, 2014). Growth can also be quantified in both relative and absolute terms. The former is skewed toward small businesses, whereas the latter is skewed toward major businesses (Delmar & Davidsson, 2006). In any situation, it's unclear which criterion to employ or whether it should be described in relative terms. We shall use sales to measure firm growth for the purposes of this paper. This is so because there is an emerging consensus that if only one indicator is to be chosen as a measure of firm growth, the most preferred measure should be sales (Davidsson & Wiklund, 2017).

Several measurements have been used to proxy firm growth by different scholars in the literature. Some of the popular measures of firm growth are: Sales growth rate, Employee growth rate, Asset growth rate, Profitability growth rate, Market share growth rate, Return on assets (ROA), Return on equity (ROE), etc. (Audretsch *et al.*, 2020; Bui *et al.*, 2020; Silva *et al.*, 2019). In this study firm growth was measured using sales growth rate (Audretsch *et al.*, 2020; Bui *et al.*, 2020). This metric is used because healthy sales growth is attractive to investors, signaling potential profitability and sustainability, which can lead to further investment and expansion.

Leverage

Leverage was defined by Senan *et al.* (2021), as the ratio of total liabilities to total assets. Leverage finance is the practice of supporting a company or business entity with debt in order to improve its growth or financial performance. A company may use leverage finance to achieve a specific or temporary goal, such as acquiring another company, effecting a buy-out, purchasing shares or funding a one-time dividend, or investing in self-sustaining cash-generating assets (Goodluck & Iliemena, 2022). The decision to finance or leverage a company is a crucial managerial decision since it can affect the firm's value, risk, and market value. The debt-to-equity ratio has an impact on dividends and risk for shareholders. This has an impact on the firm's cost of capital and market value (Pandey & Sahu, 2017).

Accordingly, part of the growth management challenge is to identify an appropriate degree of financial leverage for firms. Given the same amount of equity investments, equity holders keep any extra profit generated by debt capital after interest payments, resulting in a higher return on equity from the increased profit supplied by debt capital through tax savings, so maintaining profit within the company. Leverage has been measured in several ways by many authors such as debt to equity, and debt to assets (Blay *et al.*, 2019; Seran, 2022). This study adopted debt to assets as the measurement of leverage. This is because leverage ratio helps to assess a firm's financial stability and long-term viability. Firms with lower ratios are generally viewed as less risky to investors and creditors. Many research scholars have examined the effect of leverage on the growth of companies. Akhtar *et al.* (2022); Anto (2019); Gamlath (2020); Markonah *et al.* (2020); and Wahyudi (2020); Wangsih *et al.* (2021), in their studies established that leverage has a significant effect on the growth of firms, while the studies of Dzafic and Polic (2019);

Hamouri *et al.* (2018) found no relationship between leverage and firm growth. In line with this the first null hypothesis of the study was formulated as thus:

H0₁: leverage has no significant effect on the growth of listed healthcare companies in Nigeria

Profitability

Profitability is defined as the earnings ability of a corporate organization. It is a typical part of a company's value creation and a very important stride toward stock holders' wealth generation. As posited by Bakti and Nengzih (2023), the ability of an entity to make gains by using its own resources, such as assets, money or goods is known as profitability. Iyafekhe and Osemwegie-Ero (2023), stated that profitability refers to the end product of different procedures and managerial choices, in which these plans and choices are related to the sourcing and use of money so as to carry out the firm's tasks that have been summarized in the statement of objectives and its fundamentals denoted by financial ratios. According to Agboma (2021), Profitability can simply be termed as the company's capability to create earnings by the efficient and effective deployment of existing resources over a given period of time. It reveals the financial circumstance and success of a firm within a defined time period.

Profitability determines a company's long-term growth possibilities. Profitability usually allows for more investment, and excellent investments lead to increased firm growth. Although reinvesting all of a firm's income is not required, we believe that all enterprises will reinvest at least a portion of their profits. Profitability has been measured as either the ratio of profit after tax to total assets or profit before tax over total assets (Bakti & Nengzih 2023; Dahiyat, 2021). In this study, profitability is measured as profit after tax to equity as this reflect the net earnings available to shareholders of the firm. Several studies have assessed the effect of profitability on the growth of firms. The study of Iskandar (2021); Loi and Khan (2012), Nurwulandari (2021), found no relationship between profitability and firm growth, whereas, Afinindy *et al.* (2021); Dang *et al.* (2019); Novitasari and Sunarto (2021); Reschiwati *et al.* (2020), Yadav *et al.* (2021), in their studies established a significant relationship between profitability and firm growth. Therefore, the study stated its second null hypotheses as follows:

H0₂: profitability has no significant effect on the growth of listed healthcare companies in Nigeria

Liquidity

Liquidity can be defined as the balance of assets in the form of cash or readily convertible cash (current assets) and obligations in the form of cash or readily convertible cash (current liabilities) (Dahiyat, 2016). Liquidity is also described as the ability to provide funds on demand to fulfill day-to-day needs (Muthike, 2017). Liquidity ratios are a set of ratios used to calculate a company's liquidity position. These ratios aid in determining whether a company will be able to satisfy its short-term financial obligations. According to Dadebo, and Afolabi, (2020) liquidity is a key financial indicator that determines whether a company can satisfy its short-term obligations without suffering unfavorable losses. The liquidity ratio is useful in determining a company's level of liquidity management. Any firm with a weak liquidity position, on the other hand, would frighten suppliers and creditors, particularly banks, which frequently place minimum liquidity limitations in their loan agreements with firms, as well as shareholders, who would fear that the firm is experiencing growth problems. Several authors have measure liquidity in different ways. Such as current ratio, cash ratio, quick ratio, current assets to current liabilities among others (Egiyi & Agu, 2023; Nworie *et al.*, 2023; Nworie &

Ofoje, 2022). However, this study made use of the current assets to current liabilities as the proxy for liquidity because it helps to assess the financial health of a firm.

Previous studies have reported contradicting results regarding the relationship between liquidity and firm growth. Reschiwati *et al.* (2020); Susilo (2022), in the studies discovered significant effect of liquidity on firm growth. While, Loi and Khan (2012); Putro (2021), found no relationship between liquidity and firm growth. Based on this, the third null hypothesis formulated in the study is as thus:

H0₃: liquidity has no significant effect on the growth of listed healthcare companies in Nigeria

Firm size

In the literature, firm size has been characterized in a variety of ways, including total assets, scope of operations, and personnel count. According to Zuhroh (2019), firm size is a range of levels used for measuring the size of an organization by considering various models such as: stock market value, total assets, total employees, total sales and the like. Sudrajat and Setiyawati (2021), posited that firm size is the extent to which a company can be reflected or valued by entire assets, total profit, total sales, tax expense and others. Corporate size reveals how huge an entity is in assets, number of investors and staff. Big firms have more investors in their organizational field. Therefore, they are vulnerable to examination by many stakeholders in the corporate environment (Kaoje & Auwal, 2020). The study measured firm size as the natural log of total assets of the firm the total assets is used because it is believed that larger companies are thought to have more resources at their disposal and thus the financial means to commit to multiple investment opportunities. These many investment alternatives may result in firm expansion. However, for companies that grow to be extremely large, the impact of size may be negative due to bureaucratic and other factors. Hapsoro and Falih (2020), Radja *et al.* (2020), Stancu *et al.* (2021), Sudiayatno *et al.* (2020), Sudrajat and Setiyawati (2021), established a significant association between firm size and firm growth. While, Bon and Hartoko (2022), Margono and Gantino (2021) found no significant relationship between firm size and firm growth. In line with this, the study formulated its fifth null hypotheses as thus:

H0₄: firm size has no significant effect on the growth of listed healthcare companies in Nigeria

Theoretical framework

Many theories have been considered by previous researchers to underpin the study of firm growth. However, this study was conducted using pecking order theory, and resource dependency theory.

Pecking order theory

According to the pecking order theory, firms (companies) prioritize their financing sources based on the principle of least effort. This means that at the start-up stage, companies rely on internal financing. They employ debt financing when this is depleted, and when debt financing is no longer an option, they turn to external equity to raise money. Donaldson (1961) proposed this idea, which was later updated by Myers and Majluf (1984). Internal finance is the most cost-effective option to raise extra cash, which explains this tendency. Small healthcare firms often have limited access to external financing. Small healthcare firms with little growth and reputation, we believe, should have less recourse to external financing. However, when the healthcare firm grows older, more experienced, and shows better growth, banks will have more

faith in it. The related variables to this theory are leverage and profitability. According to the pecking order theory, companies prefer to use their internal source of finance in funding their operations and investments, however, in the case of low earnings or when internal financing is no longer an option, the companies turn to external sources of capital to raise money to finance their activities which will improve their productions and growth.

Resource dependency theory

The Resource-Based Theory (RBT) was developed by Barney (1991) in order to explain the connection between unique resources under the purview of a firm and the competitive advantage that the firm enjoys within the industry it operates. It is one of the theories used in explaining the importance of resources to a firm Barney (1991), underpins the study. RBT explains firm resources and innovativeness as the major drivers of firm growth. The resource-based theory highlights the role of a firm's internal characteristics and its environment in determining. It postulates that sustained and continual competitive advantage results from strategically combining a firm's heterogeneous resources, including distinctive capabilities, knowledge, skills and processes (Robson *et al.*, 2009). The cornerstone of RBT, according to Chiang and Yan (2011), ensures that company growth, competitive advantage, and sustainability are linked to identifiable sets of productive resources and capabilities. Two basic assumptions underpin the idea. To begin, it is thought that enterprises gain a competitive advantage by combining their various resource bundles. Second, resources that are difficult for competitors to access due to the high cost of producing, acquiring, or employing them are thought to provide a competitive advantage. Healthcare firms operate in the sector that differentiate them from other firms in the service sector, within the healthcare, the resource available to firms give them a competitive edge over other firms in the healthcare sectors.

3.0 Methodology

The Ex-post factor research design was adopted in the study. This is so because the study examined the effect of corporate attributes and firm growth of listed healthcare companies in Nigerian. The design is considered appropriate because it is good in determining the relationship and impact of corporate attributes and firm growth. Furthermore, positivism as a research philosophy served as the foundation for this investigation. Research-related philosophers have emphasized that the researcher's ontological and epistemological stance will direct the study as a whole (Araka *et al.*, 2021); as a result, positivism served as the research paradigm for this study. The studied population consisted of the 11 listed healthcare companies on the Nigerian Exchange Group (NXG) and are still on the Nigerian Exchange Group as at December 31, 2022. The study used the adjusted population of 8 listed healthcare companies after three (3) companies were removed from the total study population, with a secondary data extracted from the annual reports and accounts of the eight (8) healthcare companies for ten (10) years period from 2013-2022. The study used the Random Effect regression technique of data analysis to analyze the study data.

Variable Measurement

The following is a presentation of the measurements for the dependent and the various independent variables used in the study:

Table 1 Variable Definition and Measurement

Variable	Acronyms	Measurement	Source
Firm growth	GRW	Firm growth is measured as change in turnover	Davidsson, and Wiklund, (2017)
Leverage	LEV	Total liabilities over total assets	Dzafic and Polic (2019)
Profitability	PROF	Return on equity (ROE) is measured as Profit after tax (PAT) divided by Total Equity	Dahiyat (2016)
Liquidity	LQD	The ratio of firm's current assets to current liabilities	Mateev and Anastasov, (2010)
Firm size	FSIZE	Natural logarithms of firm's total assets	Driffield <i>et al.</i> (2005)

Source: Researcher's compilation from literature reviewed, (2024).

Model Specification

The variables incorporated into the model of the study includes: leverage; profitability; liquidity, and firm size to assess their respective effect on the growth of listed Healthcare companies in Nigeria. Hence, the study's multiple linear regression function was formulated as follows:

$$GRW = f(\text{Firm Attributes})$$

$$GRW_{it} = \beta_0 + \beta_1 LEV_{it} + \beta_2 PROF_{it} + \beta_3 LQD_{it} + \beta_4 FSIZE_{it} + \epsilon_{it}$$

Where:

GRW = Firm Growth

LEV = Leverage

PROF = Profitability

LQD = Liquidity

FSIZE = Firm Size

β_0 = Constant

β_1 to β_4 = Coefficient of the respective independent and control variables in the model

It = Panel Indicator

ϵ = Error Term

Descriptive Statistics

The descriptive statistics of each of the variables in Table 2 shows the Mean, Standard deviation, Minimum and Maximum values. Descriptive analysis of these variables is presented and discussed as thus.

Table 2 Descriptive Statistics

Variable	Obs	Mean	StdDev	Min	Max
GRW	96	0.1680	0.1499	-0.5304	0.6288
LEV	96	0.4597	0.1933	0.0254	0.8804
PROF	96	0.1326	0.1633	-0.4886	0.7854
LQD	96	1.2971	0.6718	0.1476	2.5937
FSIZE	96	8,820,000	9,280,000	389,000	43,000,000

Source: Researcher’s Computation from Stata Output, (2024).

Table 2 shows that the dependent variable represented by firm growth (GRW) has a mean value of 0.1680 and a standard deviation of 0.1499. This result suggests that the firm growth of listed healthcare companies in Nigeria on average is 16.80% during the period under review. The result indicates a low level of deviation from the mean value of firm growth recorded within the period of the study. Furthermore, the minimum and maximum value of firm growth stood at -0.5304 and 0.6288 respectively. These figures imply that some of the listed healthcare companies in Nigeria reported a drop in their growth by -0.5304 and a maximum growth in turnover by 0.6288 within the period of the study.

Also, table 2 indicates that the average value of leverage across the studied companies 45.97% with a standard deviation of 19.33%, indicating there is a low deviation. With a minimum and maximum value of 2.54% and 88.04% respectively. Similarly, the average level of profitability of the listed healthcare companies in Nigeria was found to be 13.26%, and a standard deviation of 16.13%, which shows a high deviation from the mean. the minimum and maximum values in respect to profitability is -0.4886 and 0.7854, revealing that certain healthcare company recorded a loss of -48.86% and a maximum profit of 78.54% on each ₦1 investment made by the companies.

Furthermore, the average of liquidity is 1.29, and a standard deviation of 6.72 which shows high deviation; with a minimum and maximum value of 0.15, and 2.59 respectively indicating that some of the healthcare companies have a very low liquidity ratio of 0.15 and the highest liquidity ratio of 2.59. Finally, firm size has the mean value of 8,820,000, indicating that the average size of the companies under study is 8,820,000 and a standard deviation of 9,280,000 which shows a high deviation from the mean of the size of the listed health care companies in Nigeria. The minimum and maximum values stood at 389,000 and 43,000,000 respectively.

Correlation Matrix

The correlation matrix reveals the relationship that exists between the dependent variable and each of the independent variables as well as the relationship between the independent variables themselves. The summary of the correlation coefficients of the variables of the study are shown in Table 4.2

Table 3 Correlation Matrix

Variable	GRW	LEV	PROF	LQD	FSIZE
GRW	1.0000				
LEV	-0.0212	1.0000			
PROF	0.3354	0.0648	1.0000		
LQD	0.2776	0.1105	0.2260	1.0000	
FSIZE	0.2516	-0.2863	-0.1618	0.2137	1.0000

Source: Researcher's Computation from Stata Output, (2024).

Table 3 presents the correlation result between corporate attributes and firm growth of listed healthcare companies in Nigeria. With correlation coefficients of -0.0212 the table shows a negative relationship between leverage and firm growth of the listed health care companies in Nigeria. This further means that an increase in leverage will result to decrease in the growth of the listed health care companies in Nigeria within the period of the study. Also, Table 3 shows a positive relationship between profitability, liquidity, firm size and firm growth of the listed health care companies in Nigeria. This means that an increase in these variables will lead to a corresponding increase in the growth of the listed healthcare companies in Nigeria. Similarly, the correlation matrix confirms that none of the independent variables of corporate attributes have a coefficient of correlation greater than 80%. This suggests that the independent variables employed in the study may not be multi-collinear (Gujarati, 2004). However, the VIF was also conducted to further confirm the assertion as analyzed using the Multi-collinearity Test.

Multi-collinearity Test

A multi-collinearity test was conducted to find out if two or more of the independent variables included in the study had high inter-correlation, as this could have an effect on the validity of the study's results and how they should be interpreted.

Table 4 Variance Inflation Factor and Tolerance Value

Variable	VIF	1/VIF
LEV	1.09	0.9154
PROF	1.07	0.9353
LQD	1.09	0.9144
FSIZE	1.15	0.8733

Mean VIF

Source: Researcher's Computation from Stata Output, (2024).

Table 4.3, shows the VIF and tolerance values which were employed as an advance measure to check the presence of multi-collinearity among the explanatory variables of the study. The values of VIF and tolerance level were confirmed to be simultaneously less than 1 and 10 respectively which suggests that there is a nonexistence of multi-collinearity among the explanatory variables used in the study (Gujarati, 2004).

Diagnostic Test

The study determined its best estimates to test the hypotheses earlier formulated in the research by conducting different diagnostic tests to select the suitable technique for the study. It began with the multi-collinearity test to dictate the presence of multi-collinearity between the variables of the study, followed by Hausman specification test to select between Fixed and Random Effect Models which turned out not to be significant as shown by the chi² of 3.81 and p-value of 0.4328 which favored the choice of the random effect model. The study further carried out the Random Effect test using the Breusch and Pagan Lagrange Multiplier (LM) test to select between the Random Effect Model and the Ordinary Least Square (OLS) technique which was discovered to be significant as shown by the chibar² of 166.97 and a p-value of 0.0000 which supported the choice of Random Effect Model (REM) technique. The study also conducted a normality test on the residuals of the model using Shapiro-Wilk and it was discovered not to be significant as shown by the p-value of 0.5960 and this indicates that the data of the study are normally distributed. More so, heteroskedasticity test was conducted and it turned out to be significant at 5% which suggests the presence of heteroskedasticity as revealed by the chi²16.62 and a p-value of 0.0343 which violated the homoscedasticity assumption. Therefore, to correct this, the study conducted the Robust Random Effect (RRE) regression model which was used to test the hypotheses formulated in the study.

Presentation and Interpretation of Regression Result

The result obtained from the robust random effect regression is presented in Table 5, as follows:

Table 5 Summary of Robust Random Effect Regression Result

GRW	Coeff	Std.Err	t-value	p-value
LEV	-0.0610	0.0447	-1.37	0.172
PROF	0.2232	0.0407	5.48	0.000***
LQD	0.0883	0.0326	2.71	0.007***
FSIZE	0.1450	0.1140	1.27	0.203
Cons	-0.8510	1.1138	-0.76	0.445
Wald Chi (4)	36.15		Hausman	0.4328
R-square	0.3401		Chi2	3.81
p-value	0.0000		LMT	0.0000
Obs	96		Chi2	166.97
Heter Test	0.0343		Normality	0.5960
Chi ²	16.62			

Source: Researcher’s Computation from Stata Output, (2024).

****p*<0.01, ***p*<0.05, *p*<0.1*

From Table 5, the R-square (R²) which is the coefficient of determination is 0.3401 which means that all of the independent variables selected for this study explain the changes in the dependent variable by 34.01%. This indicates that the firm attributes such as: leverage; profitability; liquidity; and firm size incorporated into the model of the study explain the variation of the dependent variable of growth of the healthcare companies in Nigeria by 34.01%

why the remaining 65.99% is explained by other factors not considered in this study. Also from the Table 5, it can be seen that the overall model is well fitted as indicated by the Wald Chi of 36.15 at a 1% level of significance as shown by the p-value of 0.0000.

$$\text{GRW} = -0.8510 - 0.0610\text{LEV} + 0.2232\text{PROF} + 0.0883\text{LQD} + 0.1450\text{FSIZE}$$

The regression result in Table 5 indicates that leverage has a coefficient of -0.0610, t-value of -1.37 and a p-value of 0.172 which is not significant. This implies that leverage has no significant effect on the growth of listed healthcare companies in Nigeria. This could be due to the fact that firms with sufficient resources most especially those with high level of profitability will choose to use their available resources before considering borrowing funds from the banks and other creditors. The result is in line with the tenant of pecking order theory. To this end, the study fails to reject the first null hypothesis which assumes that leverage has no significant effect on the growth of listed healthcare companies in Nigeria. The finding contradicts the studies of Gamlath (2020); Markonah *et al.* (2020); and Wahyudi (2020), who found a significant relation between leverage and firm growth. Whereas, it supports those of Dzafic and Polic (2019); Hamouri *et al.* (2018) who found no significant relationship between leverage and firm growth.

Also, Table 5 indicates that profitability has a coefficient of 0.2232, a t-value of 5.48 and a p-value of 0.000 which is statistically significant at 1%. This suggests that, a rise in profit will increase in growth of the listed healthcare companies in Nigeria. This may be because companies with high profitability will have excess reserve to enable plough back to the business which will facilitate the operations and growth of the companies. Also, the finding supports the pecking order theory of capital structure. Give this the study rejects the second null hypothesis which states that profitability has no significant effect on the growth of listed healthcare companies in Nigeria. The result is in line with the findings of Afinindy *et al.* (2021); Novitasari and Sunarto (2021); Yadav *et al.* (2021), who established a significant relationship between profitability and firm growth. While it contradicts the study of Loi and Khan (2012), who found no relationship between profitability and firm growth.

The result also reveals that liquidity has the coefficient of 0.0883, t-value Of 2.71 and a p-value of 0.007 which is statistically significant at 1%. This means that liquidity is a major factor that influence the firm growth of listed health care firms in Nigeria. This could be as a result of the fact that, when a firm has high liquidity ratio it has higher chances to be able to settle it day-to-day activities which could facilitate the growth of the firm. Therefore, the study reject the third null hypothesis which assumes that liquidity has no significant effect on the growth of listed health care companies in Nigeria. The result confirms the findings of Reschiwati *et al.* (2020); Susilo (2022), who found significant relationship between liquidity and firm growth, however the finding contradicts the studies of Loi and Khan (2012); Putra (2021), who established no relationship between liquidity and growth of firms.

Finally, the regression result shows that firm size has a coefficient of 0.1450 a t-value of 1.27 and a p-value of 0.203. This suggests that the growth of listed healthcare companies in Nigeria is not significantly impacted by firm size. This could be due to the fact that some large firms may have grown beyond their business cycle and may start experiencing decline rather than growth in a particular line of business. To this end therefore, the study failed to reject the fourth null hypothesis which assumes that firm size has no significant effect on the growth of listed healthcare companies in Nigeria. The finding of this study is contrary to the studies of Stancu *et al.* (2021), who reported a positive and significant relationship between firm size and firm

growth. However, the finding is in line with the studies of Afinidy *et al.* (2021); Reschiwati *et al.* (2020), who found no association between firm size and firm growth of companies.

5.0 Conclusion and Recommendations

The study concentrated on how certain firm attributes affect the growth of listed healthcare companies in Nigeria. The study made use of secondary data extracted from the audited annual reports and accounts of the eight (8) selected listed healthcare companies in Nigeria from 2011-2022. The total population of the study consisted of eleven (11) listed healthcare companies which was later filtered to eight (8) healthcare companies. Moreover, the Random Effect regression technique was used in the analysis of the data of the study. Firm growth (GRW) was the dependent variable in the study, whereas leverage, profitability, liquidity, and firm size were the independent variables used in the study. The study established that profitability and liquidity have significant effect on the growth of listed healthcare companies in Nigeria, while leverage and firm size had no effect on the growth of listed health care companies in Nigeria.

In line with the finding, the study concluded that profitability and liquidity had a positive and significant effect on the growth of listed healthcare companies in Nigeria. Companies with high profitability often have more internal capacity to expand their operations and investments which will increase their growth than companies with low or no profitability. Also, companies with high liquidity ratio have the able to increase their operations due to their ability to settle their debts as at when due, this will improve the operations and growth of the companies. Finally, the growth of the listed healthcare companies in Nigeria is not influence by the leverage and size of the companies.

Therefore, the study recommended that the management of the listed healthcare companies in Nigeria increase their profitability to enhance their growth. This is because a firm with high level of profitability will have adequate resource available to diversify into other related and/or unrelated businesses which will ensure the expansion and growth of the firm. Similarly, it is recommended that these companies maintain a high level of liquidity to be able to settle their short-term obligations which will improve their business growth. A firm with high liquidity level signifies the ability of such a firm to pay its debts as they fall due. This will allow the firm gain the confidence of the credit and make it possible to get the needed funds to run the operations of the firm which in turn ensure the growth of the firm.

Implication of the Study

The implication of the study is that it fills the gap in literature by examining the effect of firm attributes on the growth of listed healthcare firms in Nigeria. Also, the study provides information on the effect of leverage, profitability, liquidity and firm size on the growth of listed healthcare firms in Nigeria which will provide a guide for future researchers in this area. Furthermore, the study has practical implication as the result of the study will assist management and regulators to identify those firm attributes that could influence the growth of healthcare firms in Nigeria.

References

- Abu, S. E., & Bamidele, O. M. (2022). Effect of board characteristics on financial performance of listed healthcare firms in Nigeria. *Annals of Management and Organization Research*, 3(3), 193-206.

- Afinindy, I., Salim, U., & Ratnawati, D. K. (2021). The effect of profitability, firm size, liquidity, sales growth on firm value mediated capital structure. *International Journal of Business, Economics and Law*, 24(4), 15-22.
- Agboma, A. E. (2021). *Firm characteristics and corporate social responsibility in Nigeria*. Igbinedion University, Okada.
- Akhtar, M., Yusheng, K., Haris, M., UI-Ain, Q., & Javaid, H. M. (2022). Impact of financial leverage on sustainable growth, market performance, and profitability. *Economic Change and Restructuring*, 1-38.
- Ali, A. A., & Sayed, M. N. (2020). Determinants of healthcare expenditure in GCC countries: A panel data analysis. *The Journal of Asian Finance, Economics and Business*, 7(8), 705-714.
- Anton, S. G. (2019). Leverage and firm growth: An empirical investigation of gazelles from emerging Europe. *International Entrepreneurship and Management Journal*, 15(1), 209-232
- Araka, H., Otieno, S., & Mogwewabo, V. (2021). Effect of interest rate regulation on the relationship between loan lending policies and financial performance of commercial banks in Kenya. *Research Journal of Finance and Accounting*, 12(4), 15-36.
- Artiga, S., & Hinton, E. (2019). Beyond healthcare: The role of social determinants in promoting health and health equity. *Health*, 20(10), 1-13.
- Arumona, J., Erin, O., Onmonya, L., & Omotayo, V. (2019). Board financial education and firm performance: Evidence from the healthcare sector in Nigeria. *Academy of Strategic Management Journal*, 18(4), 1-18.
- Audretsch, D. B., Belitski, M., & Desai, S. (2020). National institutional quality and the role of entrepreneurship in a global economy: Empirical evidence from the Global Entrepreneurship Monitor. *Small Business Economics*, 54(3), 749-763.
- Babatunde, S., Oloruntoba, R., & Agho, K. (2020). Healthcare commodities for emergencies in Africa: Review of logistics models, suggested model and research agenda. *Journal of Humanitarian Logistics and Supply Chain Management*, 10(3), 371-390.
- Bakti, I. T., & Nengzih, N. (2023). The effect of financial performance, company characteristics and corporate governance on the quality of sustainability reporting disclosure in manufacturing companies listed on Indonesia stock exchange. *Saudi Journal of Economics and Finance*, 7(1), 9-21. <https://doi.org/10.36348/sjef.2023.v07i01.002>.
- Barney, J. (1991). Special theory forum the resource-based model of the firm: Origins, implications, and prospects. *Journal of Management*, 17(1), 97-98.
- Blay, M. W., Cudjoe, C. S., & Oyere, D. O. (2019). Corporate compliance with international financial reporting standards: A case study of selected small and medium term-sized enterprises in the coast metropolis. *International Journal of Engineering Technology and Management Research*, 6(1), 1-12. <https://doi.org/10.5281/zenodo.2551601>.
- Bon, S. F., & Hartoko, S. (2022). The effect of dividend policy, investment decision, leverage, profitability, and firm size on firm value. *European Journal of Business and Management Research*, 7(3), 7-13.
- Bui, T. D., & Nguyen, L. A. (2020). Determinants of firm growth in the emerging market:

- Evidence from Vietnam. *Journal of Asian Business and Economic Studies*, 27(2), 253-271.
- Chiang, C., & Yan, H. (2011). Entrepreneurship, competitive advantages, and the growth of the firm: The case of Taiwan's radio control model corporation Thunder Tiger. *Journal of Small Business & Entrepreneurship*, 24(4), 513-530.
- Dadepo, A. O., & Afolabi, O. F. (2020). Impact of liquidity management on profitability of selected manufacturing firms in Nigeria. *European Journal of Business and Management*, 12(27), 93-99.
- Dahiyat, A. (2021). Does liquidity and solvency affect banks profitability? Evidence from listed banks in Jordan. *International Journal of Academic Research in Accounting, Finance and Management Sciences*, 6(1), 35-40.
- Dang, H. N., Vu, V. T. T., Ngo, X. T., & Hoang, H. T. V. (2019). The impact of growth, firm size, capital structure, and profitability on enterprise value: Evidence of enterprises in Vietnam. *The Journal of Corporate Accounting & Finance*, 30(1), 144-160.
- Daunfeldt, S. O., Elert, N., & Johansson, D. (2014). The economic contribution of high-growth firms: Do policy implications depend on the choice of growth indicator? *Journal of Industry, Competition and Trade*, 14, 337-365.
- Davidsson, P., & Wiklund, J. (2017). Conceptual and empirical challenges in the study of firm growth. *The Blackwell handbook of entrepreneurship*, 26-44.
- Delmar, F., & Davidsson, P. (2006). Firm size expectations of nascent entrepreneurs. *Entrepreneurship and the Growth of Firms*, 87-108.
- Donaldson, G. (1961). *Corporate debt capacity: A study of corporate debt policy and determination of corporate debt capacity*. Harvard Graduate School of Management, Boston, MA.
- Dosi, I. (2019). The effect of home language practices and bilingual schooling in the production of grammatical aspect. *European Journal of Language Studies*, 6(1), 45-56.
- Driffield, N., Mahambare, V., & Pal, S. (2005). How ownership structure affects capital structure and firm performance? Recent evidence from East Asia. *Finance 0505010, Economics Working Paper*.
- Dzafic, J., & Polic, N. (2019). The impact of financial leverage on firm growth: Empirical evidence from Bosnia & Herzegovina. *Eurasian Journal of Business and Management*, 7(1), 65-73.
- Egiyi, M. A. & Agu, W. N. & (2023). Enhancing financial performance in consumer goods manufacturing firms: A comprehensive analysis of liquidity management strategies in Nigeria. *Global Journal of Finance and Business Review*, 6(4), 33-47. <https://doi.org/10.5281/zenodo.10440971>.
- Gamlath, G. R. M. (2020). Impact of financial leverage on firm growth of Sri Lankan listed companies. *Journal of Management and Tourism Research*, II (I), 65-84.
- Goodluck, H. C., & Iliemena, R. O. (2022). Effect of leverage on shareholders' earnings: Accenting the relationship between capital structure and shareholders' equity. *Journal of Global Accounting*, 8(3), 162-172.

- Gujarati, D.N. (2004) Basic econometrics, basic econometrics. *Econométrie*, 17-5. doi:10.1057/9780230226203.0425.
- Hall, B.H. (2015). The relationship between firm size and firm growth in the US manufacturing sector. *The Journal of Industrial Economics*, 35(4), pp.583–606.
- Hamouri, B., Al-Rdaydeh, M., & Ghazalat, A. (2018). Effect of financial leverage on firm growth: Empirical evidence from listed firms in Amman stock exchange. *Investment Management and Financial Innovations*, 15(2), 154-164.
- Hapsoro, D., & Falih, Z. N. (2020). The effect of firm size, profitability, and liquidity on the firm value moderated by carbon emission disclosure. *Journal of Accounting and Investment*, 21(2), 240-257.
- Hermuningsih, S. (2013). Profitability, growth opportunity, capital structure and the firm value. *Buletin Ekonomi Moneter Dan Perbankan*, 16(2), 115-136.
- Iskandar, D. (2021). The effect of profitability and sales growth on company value moderated by leverage. *International Journal of Management Studies and Social Science Research*, 3(5), 2582-2599.
- Iyafekhe, C., & Osemwegie-Ero, J. O. (2023). Firm attributes and IFRS compliance level of financial service firms in Nigeria. *Proceedings of the 7th Annual International Academic Conference on Accounting and Finance Disruptive Technology: Accounting Practices, Financial and Sustainability Reporting*.
- Kaoje, A. N., & Auwal, B. M. (2020). Effect of sales and firm size on sustainability reporting practice of oil and gas companies in Nigeria. *Journal of Research in Business and Management*, 8(1), 01–08.
- Loi, T. H., & Khan, A. A. (2012). Determinants of firm growth: Evidence from Belgian companies. *Faculteit economie en bedrijfskunde*. Dostupno na: [http://www.thesis.net/Determinants/Determinants% 20of% 20firm% 20growth% 20Evi dence% 20from% 20Belgian% 20companies. pdf](http://www.thesis.net/Determinants/Determinants%20of%20firm%20growth%20Evidence%20from%20Belgian%20companies.pdf), 28-29.
- Lyeonov, S., Bilan, S., Yarovenko, H., Ostasz, G., & Kolotilina, O. (2021). Country's health profile: Social, economic, behavioral and healthcare determinants. *Economics & Sociology*, 14(3), 322-340.
- Margono, F. P., & Ganto, R. (2021). The influence of firm size, leverage, profitability, and dividend policy on firm value of companies in Indonesia stock exchange. *Copernican Journal of Finance and Accounting*, 10(2), 45-61.
- Markonah, M., Salim, A., & Franciska, J. (2020). Effect of profitability, leverage and liquidity to the firm value. *Dinasti International Journal of Economics, Finance & Accounting*, 1(1), 83-94.
- Mateev, M., & Anastasov, Y. (2010). Determinants of small and medium sized fast growing enterprises in central and Eastern Europe: A panel data analysis. *Financial theory and practice*, 34(3), 269-295.
- Muthike, S. W. (2017). *Relationship between corporate liquidity risk and solvency of Commercial Banks in Kenya* (Doctoral dissertation, University of Nairobi).
- Myers, S. C. & Majluf, N. S. (1984). Corporate financing and investment decisions when firms have information that investors do not have. *Journal of Financial Economics*, 13, 187-221

- Nigerian Bureau of Statistics (2020). *Healthcare sector*. Retrieved from <https://nigerianstat.gov.ng/elibrary>.
- Novitasari, T., & Sunarto, . (2021). The effect of capital structure, firm size, firm growth, and profitability on firm value: Empire study on mining sector companies listed on the Indonesia stock exchange 2015-2020. *Jurnal Akuntansi, Audit dan Sistem Informasi Akuntansi*, 5(3), 512-525. DOI;10.36555/jasa.v5i3.1681.
- Nurwulandari, A. (2021). Effect of liquidity, profitability, firm size on firm value with capital structure as intervening variable. *Jurnal Ilmiah Akuntansi*, 4(2), 257-271.
- Nworie, G. O. & Agwaramgbo, J. C. (2023). Determining the financial performance of tier-1 deposit money banks in Nigeria using bank liquidity. *International Journal of Academic Management Science Research*, 7(2), 166-181. <http://ijeais.org/wpcontent/uploads/2023/2/IJAMSR230213.pdf>.
- Nworie, G. O., Moedu, V. O., Onyall. C. I. (2023). Contribution of current assets management to the financial performance of listed consumer goods firms in Nigeria. *International Journal of Trend in Scientific Research and Development (IJTSRD)*, 7(1), 77-87. <https://www.ijtsrd.com/papers/ijtsrd52600.pdf>.
- Pandey, K. D., & Sahu, T. N. (2017). Financial leverage, firm performance and value: With reference to Indian manufacturing firms. *Asian Journal of Research in Banking and Finance*, 7(7), 265-274.
- Penrose, E. T. (2009). *The Theory of the Growth of the Firm*. Oxford university press.
- Pharmexcil. (2018). *Regulatory and Profile of Nigeria*. Retrieved from <https://pharmexcil.com/circulars/index/2018>.
- Putra, D. C. (2021). The effect of capital structure and liquidity on firm value mediated by profitability. *Journal on global socio-economic dynamics*, 2(27), 26-34.
- Radja, F. L., Artini, L. G. S., & Gede, S. (2020). The effect of firm size, profitability and leverage on firm value. *International Journal of Economics and Management Studies*, 7(11), 18-24.
- Reschiwati, R., Syahdina, A., & Handayani, S. (2020). Effect of liquidity, profitability, and size of companies on firm value. *Utopiay Praxis Latinoamericana*, 25(6), 325-332.
- Robson, P. J. A., Haugh, H. M., & Obeng, B. A. (2009). Entrepreneurship and innovation in Ghana: Enterprising Africa. *Small Business Economics*, 32, 331-350.
- Sani, S., & Abubakar, K. S. (2022). Analysis of the effect of sales growth and managerial efficiency on the profitability of healthcare firms in Nigeria. *UMYU Journal of Accounting and Finance Research*, 4(2), 1-15.
- Senan, N. A. M., Ahmad, A., Anagreh, S., Tabash, M. I., & Al-Homaidi, E. A. (2021). An empirical analysis of financial leverage and financial performance: Empirical evidence from Indian listed firms. *Investment Management and Financial Innovations*, 18(2), 322-334.
- Silva, M., Mota, M. X., & Serrasqueiro, Z. (2019). The impact of firm-level factors on the growth of Portuguese non-financial firms. *Research in International Business and Finance*, 47, 460-470.

- Sudiyatno, B., Puspitasari, E., Suwarti, T., & Asyif, M. M. (2020). Determinants of firm value and profitability: Evidence from Indonesia. *The Journal of Asian Finance, Economics and Business*, 7(11), 769-778.
- Sudrajat, J., & Setiyawati, H. (2021). Role of firm size and profitability on capital structures and its impact over firm value. *Dinasti International Journal of Economics, Finance and Accounting*, 2(1), 13-27. <https://doi.org/10.38035/dijefa.v2i1>.
- Susilo, T. P. (2022). The effect of liquidity on firm value with profitability as moderating variable. *Journal of Economics, Finance and Management Studies*, 5(12), 3763-3768. DOI: 10.47191/jefms/v5-i12-38.
- Wahyudi, S. M. (2020). Effect of leverage, profitability, sales growth toward company values. *International Journal of Management Studies and Social Science Research*, 2(4), 161-169.
- Wangsih, I. C., Yanti, D. R., Yohana, Y., Kalbuana, N., & Cahyadi, C. I. (2021). Influence of leverage, firm size, on sales growth. *International Journal of Economics, Business and Accounting Research*, 5(4), 134-142.
- World Health Organization. (2021). *World health statistics 2021: Monitoring health for the SDGs, sustainable development goals*. Retrieved from <https://www.who.int/publications/i/item/9789240005105>.
- Yadav, I. S., Pahi, D., & Gangakhedkar, R. (2021). The nexus between firm size, growth and profitability: New panel data evidence from Asia-Pacific markets. *European Journal of Management and Business Economics*, 31(1), 115-140.
- Zhou, L., Ampon-Wireko, S., Antwi, H. A., Xu, X., Salman, M., Antwi, M. O., & Afua, T. M. N. (2020). An empirical study on the determinants of healthcare expenses in emerging economies. *BMC Health Services Research*, 20, 1-16.
- Zuhroh, I. (2019). The effects of liquidity, firm size and profitability on the firm value with media leverage. *The International Conference on Islamic Economics, Business and Philanthropy (ICIEBP) Theme: "Sustainability and Socio Economic Growth"*.