

JOINT AUDITS AND AUDIT QUALITY OF FINANCIAL STATEMENTS IN LISTED COMPANIES IN NIGERIA

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ABSTRACT

This study examined the impact of joint audits on three different audit quality proxies, namely: audit delay, auditor independence and audit fees. The study made use of secondary data extracted from the annual reports of sixty-three (63) companies listed on the Nigerian Stock Exchange (NSE) for a 5-year period (2014-2018). Three panel regression models were developed to accommodate the three audit quality proxies; while firm size, complexity and risk were also included in each of the equations as control variables. The data analysis techniques used includes descriptive statistics, correlation matrix and panel regression techniques. Result showed that, joint audits have negative and non-significant impact on audit delay as well as non-significant effect on audit fees. However, no linear relationship was established between joint audits and auditor independence. On the three control variables, only firm size and firm complexity significantly influenced both audit delay (negatively) and audit fees (positively), while firm risk was insignificant in the both established models. The study recommends, among others, that companies may reconsider their stance on the engagement of joint auditors in order to balance the audit market concentration between the Big4 and the smaller audit firms in Nigeria.

Key Words: Audit Delay, Audit Fees, Audit quality, Auditors Independence, Joint Audit

INTRODUCTION

Over the years, several audit reforms were made with the goal of restoring the confidence of investors whose trust in the capital markets were dented owing to the auditing scandals involving one of the then 'Big Five' accounting firms, Arthur Anderson (Nicole, Sophie, Jaana, & Cedric, 2012). Examples of such reforms are the Sarbanes-Oxley Act of 2002 geared towards improving auditor independence in a bid to enhance audit quality; the 'green-paper' issued by the European Commission (EC) in 2010 which suggested the mandatory implementation of joint audit as a way of enhancing audit quality and promoting audit market dynamics in European corporations (Okaro, Okafor & Ofoegbu, 2018) and in Nigeria, the Institute of Chartered Accountants of Nigeria (ICAN), who, through its 50th President and Chairman of Council made a case for the promotion of joint audit in Nigeria as a means of raising the quality of financial reporting (Ajaegbu, 2014).

Many countries around the world such as France, Kuwait, India (for state-owned enterprises), Saudi Arabia and Algeria (for banks) currently operate it as a mandatory practice; while others permit it as a voluntary practice such as Denmark, Sweden, and Germany (Lobo, Paugam, Zhang, & Casta, 2017). The culture of joint audit is also not uncommon in Africa as countries like South Africa, Algeria, Congo, Ivory Coast, Morocco and Tunisia have all made policies on joint audit implementation, on either a mandatory or voluntary basis (Deng, Lu, Simunic & Ye, 2014; El-Hamdi, 2017; Okaro et al., 2018). While in Nigeria, the culture of joint audit is equally not a new phenomenon, although the "Big4" audit firms and other interest groups opposed its mandatory implementation "as proposed by ICAN and Financial Reporting Council of Nigeria (FRCN); it has remained a voluntary practice as they preferred" (Okaro, et al, 2018, p.318). As such, publicly quoted companies and shareholders, who deem it fit, appoints more than one audit firm to audit their financial statements (Jinadu, Ojeka, & Agbeyangi, 2015). It is as a result of the increasing implementations of joint audit by different countries and the controversies surrounding making it a mandatory requirement for publicly listed companies in Nigeria, that have triggered the wide academic research interests on the concept of joint audit and its effects on the adopting firms. Also in Nigeria for instance, the oligopolistic nature of the audit market is gradually pushing the smaller audit firms out of the market for audit services (Ajaegbu, 2014). Ilaboya, et al, (2017) pointed out just about 3% of listed firms make use of joint auditors and about 80% of listed firms are audited by the Big4 audit firms. Thus, implementing a mandatory joint audit regime may contribute in promoting compliance with the Local Content Act of 2010 by giving the smaller audit firms the much needed opportunity, thereby reducing the workload on the Big4.

The survey of available literature shows that recent empirical studies squarely focusing on joint audits are relatively few in Nigeria. To the best of our knowledge, the few available empirical studies are largely based on questionnaire surveys (Jinadu et al., 2015) or experimental studies (Okaro et al., 2018) and produced mixed evidences. In all, not much is known about how joint audit affects audit delay in Nigeria to the best of the researcher's knowledge. There is need, therefore, to carry out such study using Nigerian data in order to understand the impact of joint audits on different audit quality proxies, such as audit delay, auditor independence and audit fees. Arising from the above, the broad objective of this study is to examine the relationship between joint audits and audit quality in Nigeria. However, the specific objectives are to: ascertain the effect of joint audit on audit delay in listed Nigerian companies; find out how joint audit affect auditor independence in Nigerian listed companies; and identify the extent to which joint audit affects audit fees of listed Nigerian companies.

LITERATURE REVIEW Concept of Joint Audit

Joint audit, according to PwC (2011), is a method where two independent audit firms work together to issue one audit opinion to a firm. Ajaegbu (2014) also defined joint audit as "an audit on a legal entity (the auditee) by two or more auditors to produce a single audit report, thereby sharing responsibility for the audit". Generally, joint audit can be described as the coming together of more than one audit firm to audit the financial statement of a given legal entity with the common goal of arriving at a single audit report. This act of collaboration in professional audit practice, as described above, clearly depicts the concept of 'Joint Audits' (Gatawa, 2015). It follows therefore that, in a joint audit, both audit firms share the responsibility of executing the entire audit task and jointly share the rewards thereof in an agreed

proportion, as well as bear joint liability in case of an audit failure (Abdollahiebli, 2018; Okaro et al., 2018). The advocates of joint audit such as the (European Commission [EC] (2010; 2014) believe it would increase the probability of detecting errors and enhance audit quality by improving audit evidence precision - as it is often said that 'two heads are better than one'. They also believe it would enhance auditor independence as it would be difficult for the client to jointly develop economic bonding with two different audit firms (Lobo, Paugam, Zhang, & Casta, 2017). Others like Okaro et al. (2018) also believe it would reduce audit market concentration by strengthening the market position of the non-Big4 audit firms as well as mitigating biases that affect

auditor judgement (Marnet, Barone, & Gwillian, 2019). The opposing group, however, contends that joint audit would increase audit costs astronomically without meaningful quality improvements and may also induce a free-riding problem between the audit firms (Deng, Lu, Simunic & Ye, 2014; Razinger-Sakel, Audosset-Coulier, Kettumen, & Lessage, 2013).

Summary of the Literature Review

This overview will help to provide a better understanding regarding the previous research conducted on joint audits in different jurisdictions which led to the summary and gap identification in the ensuring sub-section.

s/n	Author(s)	Topic/Objective(s)	Country	Methodology	Major finding(s)
1	Marnet et al.	To examine if joint audit	United	Theoretical and	Joint audit has a positive
	(2019)	reduce bias and enhance	Kingdom	empirical literature	impact on audit quality
		scepticism in financial		review	
		statement audits			
2	Okaro et al .	Empirical evaluation of	Nigeria	Primary data via	There is no consensus on the
	(2018)	benefits and costs of joint		questionnaire on 400	desirability of mandatory
		audits in Nigeria		ICAN accounting	joint audits in Nigeria among
				professionals. Used	stakeholders, whereas there
				simple percentages	is general agreement that the
				and independent t-test	benefits of the joint audit
				statistics.	will outweigh the costs
					involved.

Table	2.1:Su	mmarv	of Pr	ior S	Studies
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3	Jin, Hwang &	Whether joint audit	China	Secondary data	earnings management is
	Kang (2018)	system impro ves a		consisting of 16,822	lower for joint audited
		company's earnings		firm-year observations	enterprises than for single
		quality.		(2001-2006). Panel	audited enterprises. Thus,
				data	the joint audit method
					enhances the efficiency of
					earnings.
4	Mandour	Examining the effect of	Egypt	Secondary data of 104	The relation between joint
	Elharidy &	joint and dual audits on		firm-year observations	audit and discretionary
	Mokhtar (2018)	earnings management		(2010-2014). Panel	accruals is negative. Large
		practices		data	businesses that conduct a
					mutual audit are less
					interested in the
					management of accrual
					profits.
5	Holm and	Audit quality differences	Denmark	Both primary and	Audit quality by a single big
	Thinggaard	in joint audit vs single		secondary data. Used	four audit firm is the same as
	(2018)	audits.		Descriptives,	it is in joint audits with either
				correlations and	one or two big four audit
				regressions.	firms.
6	Haak, Muraz, &	Joint Audits : does the	France	Secondary data of	They found that, relative to an
	Ziesenib (2018)	allocation of audit work		French audit market	unbalanced work allocation, a
		affect audit quality and		(2009–2012)	more balanced audit work
		audit fees?		Multivariate Analysis	allocation between the engaged
					audit firms decreases the audit
					efficiency and raises the audit
					fee
7	Abdollahiebli	The implications of the	Iran	Theoretical and	The audit quality effect of the
	(2018)	use of joint audit on audit		empirical literature	joint audit is poor and
		quality and audit costs.		review	inconsistent. The conditions for
					joint audits contribute to higher
				~	audit costs.
8	El-Hamdi (2017)	Market perception of the	Denmark	Secondary data of all	Compared with a single audit,
		abolishment of mandated	and France	listed firms from	the compulsory joint audit is
		joint audit in Germany.		Denmark and France	valued negatively. The
				that were active	valuation of the voluntary joint
				between 2003 and	audit is higher than the
				2006. OLS	mandated joint audit.

9	Bianchi (2017)	Effect of audi tors'	Italy	Secondary data of	In some joint engagements,
		collaboration on audit		Italian private	there is a beneficial
		quality.		companies consisting	correlation between several
				of 2,733 observations.	audit quality proxies and the
				Panel data.	cooperation of auditors.
10	Ilaboya et al .	Examining audit fee	Nigeria	Secondary data of 56	There is a negative and
	(2017)	determinants in Nigeria		listed companies	negligible association between
				(2008-2014). Used	joint audit and abnormal audit
				panel data	fees (i.e. join t audit reduces
					abnormal audit fees).
11	Lobo et al. (2017)	The effect of joint	France	250 listed firms	There is less clarity i n the
		auditor pair composition		spanning the period	composition of the joint audit
		on audit quality.		2006–2009. Used	issues for organizations audited
				descriptive statistics	by a Big 4 -Big 4 auditor pair,
				and regression	and vice versa for Big4 vs. non
				analyses.	Big4 pairs.
12	Alfraih (2016)	Corporate governance	Kuwait	Secondary data of 195	The joint audit (particularly
		mechanisms and audit		companies in 2013.	those involving Big4)
		delay in a joint audit		Used multivariate	significantly reduces the
		setting.		regression model.	delay in the audit.
13	Bredinger &	Investigated how firms'	Sweden	Secondary data, 400	Applying a joint audit does
	Larsson (2016)	accounting quality is		firms (2013 -2014).	not mean that the standard of
		linked to joint audit.		Used joint audit as a	accounting is high
				dichotomous variable.	docounting is high.
14	Kermiche & Piot	Audit market dynamics	France	Secondary data of 400	There are possible advantages
	(2016)	in a mandatory joint		audit clients (2003 -	of joint audits to mitigate the
		audit setting.		2009). Used	concentration of the audit
				Markovian analysis.	market; but to accomplish this
					goal, a joint audit should not be
					imposed.

15	Lesage et al .	Effect of the abolishment	Denmark	Secondary data of non-	Higher payments are correlated
	(2016)	of joint audit in		financial listed Danish	with the joint audit; the
		Denmark: Its effect on		companies (2002–	correlation between the joint
		audit fees and audit		2010).	audit and irregular accruals is
		quality.			small. Higher audit fees can,
					therefore, not be justified by
					greater audit accuracy.
16	Olowookere &	factors affecting auditors	Nigeria	308 questionnaires to	In order to minimize market
	Inneh (2016)	choice in quoted		coy shareholders. Used	concentration, mandatory joint
		manufacturing coys in		descriptive statistics	audits can be useful given that
		Nigeria		and Logistics	one joint auditor is not a Big
				regression	Four audit company.
17	Jinadu et al .	To decide whether the	Nigeria	Primary data focusing	joint auditors' presence would
	(2015)	decision to implement		on accounting	not contribute positively to the
		joint audit in Nigeria		academics and	accuracy of the audit, but rather
		would be associated with		professionals. Used	would raise the expense of the
		audit quality and		mean and ANOVA.	audit.
		earnings quality.			
18	Aliyu, Musa, &	Impact of audit quality	Nigeria	Secondary data of ten	Joint audit and audit firm size
	Zachariah (2015)	on earnings management		(10) banks (2006-	have significant negative
		of listed DMB's in		2013). OLS	impact on the earnings
		Nigeria			management. Banks should use
					joint audits.
19	Velta & Azibi	Are joint audits a proper	Germany	306 Germany and	Joint audits do not have a
	(2015)	instrument for increased	and France	French companies	significant positive effect on
		audit quality (proxied by		between 2008 and	audit quality (& audit fees) and
		abnormal wor king		2012. Used	market concentration in
		capital, abnormal		multivariate analyses.	Germany and France.
		accruals and audit fees)?		Used OLS.	
20	El-Assy (2015)	Effect of joint audit on	Egypt	Secondary data of 32	Companies audited by joint
		earnings conservatism,		companies listed on the	auditors are more conservative
		as proxy for audit		Egyptian stock	than those audited by single
	i i			1 (2000 2012)	
1		quality.		exchange (2009-2013).	auditors. No significant
		quality.		exchange (2009-2013).	auditors. No significant difference in joint auditor's
		quality.		exchange (2009-2013).	auditors. No significant difference in joint auditor's compositions (whether Big4 or

21	Deng et al. (2014)	Do joint audits improve	France	Equilibrium analysis	Joint audits by one big firm and
		or impair audit quality?		on listed French	one small firm impair audit
				companies.	quality by inducing a free -
					riding problem between audit
					firms, thereby reducing audit
					evidence precision.
22	Audousset-	The behaviour of audit	France	Secondary data of 108	Hiring two Big4 auditors as
	Coulier (2014)	fees in a joint au dit		firms for 2002 and	joint auditors does not require
		setting		2003. Used	the payment of a higher Big4
				Descriptive Statistics	premium compared to the
				and multiple	choice of one Big4 audi tor
				regressions.	paired with a smaller auditor.
23	Lesage,	How joint audit affects	Denmark	Secondary data from	No significa nce association
	Ratzinger-Sakel,	audit fees and abnormal	& France	Danish listed	between audit fees and joint
	&Kettunen	accruals.		companies (2002 -	audit, same with abnormal
	(2012)			2010). Used	accrual and joint audit.
				Multivariate	
				regressions.	
24	Andre et al .	To find out if mandatory	France,	Secondary data	Mandatory joint audits are
	(2016)	joint audits lead to higher	Italy and	covering 210 UK listed	significantly associated with
		audit fees.	UK	firms. 177 F rench	higher audit fees in Germany &
				firms and 102 Italian	France. However, joint audit
				firms. Using inferential	increases audit fees in France
				statistics.	separately, but not Germany.

Summary and Gap Identification

The above analysis of literature offers so many insights. First of all, a handful of studies have explored the relationship between joint audits and foreign authors have performed multiple audit quality proxies, ranging from earnings management and quality (Jin et al., 2018; Mandour et al., 2018), audit fees and audit quality quality audit fees (Abdollahiebli, 2018; Bianchi, 2017; Bredinger & Larsson, 2016; Holm & Thinggaard, 2018; Haak et al., 2018). Nonetheless, just a handful (Jin et al., 2018; Mandour et al., 2018) found empirical evidence that joint audit increases audit quality and its related proxies, while several others (Abdollahiebli, 2018; Holm & Thinggaard, 2018; Lesage et al., 2016; Ratzingel-Sakel et al., 2013; Velte & Azibi, 2015) that tried to find an association between joint audit and audit quality were not successful or rather, found it statistically insignificant. The lack of convergence among the foreign studies is an indication that the effects of joint audits on audit quality proxies are still largely unclear, and requires more empirical evaluations. Secondly, on studies by Nigerian authors, it was observed from the review that only few researchers (e.g. Aliyu et al., 2015; Ilaboya et al., 2017; Jinadu et al., 2015; Okaro et al., 2018) have empirically examined the effect of joint audits in the Nigerian context. In spite of the observed minimal focus on joint audits by the Nigerian authors, majority of the available studies did not successfully ascertain that joint audit will enhance audit (or accounting) quality, save for Aliyu et al. (2015). Studies like Ilaboya et al. (2017) and Jinadu et al. (2015) found joint audit insignificant in explaining abnormal audit fees and audit quality respectively, while Okaro et al. (2018) used questionnaire method and gathered no agreement among stakeholders on the desirability of mandatory joint audits in Nigeria. Be that as it may, most of the studies like (Aliyu et al., 2015; and Ilaboya et al., 2017) recommended joint audits for Nigerian firms as a way of enhancing audit quality – which can be translated as a call for more empirical studies.

In all, it was also observed that audit delay, as an audit quality proxy, have not received commensurate attention in prior studies – like other audit quality constructs such as auditor independence and audit fees. A scan of the available studies showed that only one of the previous studies (Alfraih, 2016) incorporated the variable of 'audit delay' as a measure of audit quality in a joint audit study and found that joint audit significantly reduces audit delay in Kuwait. To the best of our knowledge, none of the retrieved Nigerian studies examined the effect of joint audits on audit delay. This constitutes a gap in literature.

Moreover, considering that there are two contending schools of thought in the debate as to whether joint audits should become a mandatory requirement for listed companies or remain a voluntary practice, evidence from the previous outcomes shows that legitimate arguments can still be advanced both for and against the adoption of joint audits - meaning it is still largely difficult to ascertain where the weight of the arguments lies. Whether on the proponents' conventional wisdom that "two heads are better than one" or on the critics view of a probable free riding and social loafing issues associated with collaborations in achieving a given task. However, since there is apparently limited evidence to tow either line, the need for further studies can be justified. Thus, this study, in addition to examining the effect of joint audit on auditor independence and audit fees (both audit quality proxies), intends to bring in the variable of 'audit delay' which appears not to have gotten enough attention in joint audit studies. The study intends to contribute to existing literature from the above stated perspective.

THEORETICAL FRAMEWORK

Stigler(1971) notes that the central focus of the theory is that unfair rates are likely to be paid by a monopoly service provider (such as the dominance of Big4 in the audit market) and, thus, some sort of regulation is required to protect the public interest. This captures the principle behind (for/against) joint audit proponents. Second, the principle of public interest stresses that regulation is the product of a cost/benefit analysis to assess whether the cost of enhancing the market's activity outweighs the amount of improved social welfare (Lesage et al., 2012).

The organizations supporting joint audits, such as the European Commission (for EU countries) and ICAN, are addressing two contentious views on this subject (as in Nigeria). The supporters of the joint audit argued that it would improve the efficiency of the audit and balance the concentration of the audit industry, while the opponents emphasized that it would increase the cost of the audit. The counterargument is that, most certainly, the advantages will outweigh the costs involved. In relating it to this study, the major question is: do joint audit actually enhance the three selected audit quality proxies proposed in this study? In case of a positive answer, then the propositions of the proponents of joint audit would be considered an act on behalf of public (general) interest. In case a negative answer, then the arguments of the opposing groups (e.g. the Big4 audit firms) will appear as a legitimate selfinterest action.

Game Theory: Game theory is a model that captures the competitive interaction between two (or more) players in order to maximize their own self-interest, both anticipating and acting accordingly (i.e, as rational players). Auditing is the most popular area where game theory can be applied in the field of accounting. The first one to use game theory to research joint audit was Paugam and Casta (2012). They showed that the assignment of two Big4 auditors (sharing equal credibility costs associated with likely low impairment-related disclosures) in a joint audit task from a game theory perspective would lead to the dilemma-solution of the inmate, according to which 'doing nothing' is the dominant strategy because neither of the Big4 auditors would have an incentive to take corrective action as they both share the reputation cost (Lobo et al., 2013).

On the contrary, the prevailing approach for the auditor will be to take corrective steps to increase the amount of financial disclosures, as Big4 auditors matched with non-Big 4 auditors bear a significant, if not all, part, of the credibility costs associated with disability testing management. In Big4 with Big4 matching, the "do nothing" approach is therefore more likely to be dominant leading to low quality results; pairing the Big4 with non-Big4 auditors is more likely to lead to higher quality results (Paugam & Casta, 2012). Aligning the theory with this study, it is assumed that players (auditors) within the game (joint audit arrangement) are rational and will strive to maximize their pay-offs in the game (audit assignment) – in terms of ensuring rationality in the allocation of audit work vis-a-vis audit fees, maximisation of independence and quick audit process (i.e. duration of audit report lag).

METHODOLOGY AND MODEL SPECIFICATION

This study adopted the longitudinal research design. A sample of sixty-three (63) companies formed the sample size of the study. The simple random sampling technique was used in the selection to ensure that companies in each of the sectors that constitute the population had equal chance of been represented. Secondary data was used for the study. The data were retrieved from the published annual reports and accounts of Nigerian listed companies from 2014 to 2018 (5yrs). The choice of 2014 as the start-year of the study is to accommodate the year in which ICAN advocated, through its 50th President and Chairman of the Council, the promotion of joint audits of publicly listed companies in Nigeria as a way of increasing the standard of financial reporting. In the estimation of the models and in the determination of the causal link between the variables, the panel regression analysis was used.

Model Specification

The model for this study builds on the model of Velte (2017) and hence the model specification below

Audit delay = f (joint audits, size, complexity, risk).....(1) Auditor independence = f (joint audits, size, complexity, risk).....(2) Auditor fees = f (joint audits, size, complexity, risk).....(3) In econometric form, we have: AUDL_{ii} = $\beta_0 + \beta_1 JOA_{ii} + \beta_2 SIZ_{ii} + \beta_3 CLX_{ii} + \beta_4 RIS_{ii}$ + e_{ii}(4) AUIND_{ii} = $X_0 + X_1 JOA_{ii} + X_2 SIZ_{ii} + X_3 CLX_{ii} + X_4 RIS_{ii} + e_{ii...}$ (5) $AUFEE_{ii} = \Upsilon_0 + \Upsilon_1 JOA_{ii} + \Upsilon_2 SIZ_{ii} + \Upsilon_3 CLX_{ii} + \Upsilon_4 RIS_{ii} + e_{ii}$ Where: $\beta_0 X_{0} and \Upsilon_0 = Constants or Intercepts$ $\beta_1 to \dots \beta_4; X_1 \dots X_4; and \Upsilon_1 to \dots \Upsilon_4 = Unknown$

coefficients to be estimated

s/n	Variables	Definition	Туре	Measurement	Used by:
1.	AUDL	Audit delay	Dependent	"The number of days that elapse from the closure of the financial accounting period until the day the auditor's report is signed"	Alfraih (2016, p.304)
2.	AUIND	Auditor independence	Dependent	Ratio of audit fee to company's revenue	Adeniyi & Mieseigha (2013)
3.	AUFEE	Audit fees	Dependent	Natural log of audit fees.	Deng et al . (2014); Velte & Azibi (2015)
4.	JOA	Joint audits	Independent	"Dummy variable; value 1 if the client firm employs a joint audit, otherwise zero"	Velte & Azibi (2015 , p.538)
5.	SIZ	Firm size	Control	Natural log of total asset at the end of the financial year	Alfraih (2016); Audousset-Coulier (2014)
6.	CLX	Firm complexity	Control	The square root of the number of consolidated subsidiaries, associates and joint ventures	Alfraih (2016); Audousset-Coulier (2014)
7.	RIS	Firm risk	Control	The ratio of total liabilities (debt) to total assets.	Alfraih (2016); Audousset-Coulier (2014)

Source: Researcher's Compilation (2020)

4. Data Presentation and Analyses Presentation of Results

 Table 4.1:Descriptive Statistics

	AUDL	AUDIND	AUDFEE	JOA	SIZ	CLX	RIS
Mean	95.72381	0.006351	83897.60	0.069841	515663110	9.380952	0.637315
Median	84.00000	0.001396	23000.00	0.000000	28392951	9.000000	0.608716
Maximum	488.0000	0.481078	910000.0	1.000000	8223984226	53.00000	2.547496
Minimum	29.00000	0.000108	100.0000	0.000000	321068.0	0.000000	0.009180
Std. Dev.	68.04750	0.038309	151498.9	0.255285	1.25E+09	7.672908	0.305286
Skewness	4.457349	11.07548	2.859899	3.375391	3.367541	2.750828	2.375147
Kurtosis	23.68179	130.9238	11.93298	12.39327	14.98590	13.52906	14.53620
Jarque-Bera	6657.110	221224.0	1476.749	1756.211	2480.928	1852.323	2042.895
Probability	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Sum	30153.00	2.000640	26427743	22.00000	1.62E+11	2955.000	200.7541
Sum Sq. Dev.	1453965.	0.460815	7.21E+12	20.46349	4.90E+20	18486.29	29.26474
Observations	315	315	315	315	315	315	315

Source: Eviews 10 (2020)

As observed in Table 4.1, AUDL has a mean value of 95.72 which implies that average audit report lag of the studied sample is 96 days approximately. This is slightly above the 90 days limit for deposit money banks in Nigeria based on BOFIA requirements but within the acceptable disclosure period stipulated by the Companies and Allied Matters Acts (CAMA) 2004 in Nigeria. It is worthy of note that the study sample consists of 20 financial companies (13 banks and 7 insurance firms) and 43 non-financial companies. The minimum and maximum values of 29 and 488 days respectively suggests that while some companies disclose their annual report as early as within one month after the financial year end, some take more than one calendar year, but those are few exceptional cases. The variable of AUDFEE, run using the raw audit fees data, showed that the average audit fees paid by the sampled companies within the period covered stood at N83.9 million with minimum and maximum values of N1 million and N910 million respectively.

The variable of JOA (joint audits) suggests that

about 7% out of the 63 sampled companies uses joint auditors. On the variable of firm size (run here using the raw total assets data), the result showed that the average total assets of the entire sample is №515,663,110 ('000). The largest company, by way of total assets, has a total assets value of №8,223,984,226 ('000) while the smallest sized firm has a total asset of №321,068 ('000). On firm complexity (CLX), which captures how diversified the sampled companies are in terms of number of subsidiaries, showed a mean value of 9.38 implying that the average number of subsidiary among the sample is 9. Some of the companies have no subsidiary as shown by the minimum value of 0.00 while some of the sampled firms (e.g. Eco bank) have up to 53 subsidiaries. On firm risk (RIS), as proxied using the debt rations of the firms, the outcome showed a mean value of 0.637 which implies that majority of the sampled firms are highly leveraged. It is also observable from the probability values of the Jargue Bera statistic of all the series are significantly lower than the 5% level,- indicating departure from normality. This can be attributed to

the usage of some of the variables in there raw form for the descriptive statistics (e.g. total assets, audit fees and complexity); they were then transformed into their natural log forms prior to their usage in the multivariate analysis.

4.3 Multivariate Analysis

Table 4.2:Correlation Analysis

Panel 1	AUDL	JOA	SIZ	CLX	RIS	Panel 2	AUDIND	JOA	SIZ	CLX	RIS	Panel 3	AUFEE	JOA	SIZ	CLX	RIS
AUDL	1					AUDIND	1					AUFEE	1				
JOA	0.281	1				JOA	-0.012	1				JOA	0.183	1			
	(0.000)						(0.827)						(0.001)				
SIZ	-0.101	0.217	1			SIZ	-0.117	0.217	1			SIZ	0.599	0.341	1		
	(0.075)	(0.000)					(0.039)	(0.000)					(0.000)	(0.000)			
CLX	-0.131	0.107	0.469	1		CLX	-0.152	0.107	0.469	1		CLX	0.416	0.107	0.537	1	
	(0.020)	(0.058)	(0.000)				(0.007)	(0.058)	0.000				(0.000)	(0.058)	(0.000)		
RIS	-0.135	-0.017	0.468	0.183	1	RIS	0.009	-0.017	0.468	0.183	1	RIS	0.446	-0.017	0.281	0.183	1
	(0.016)	(0.759)	(0.000)	(0.001)			(0.868)	(0.759)	0.000	0.001			(0.000)	(0.759)	(0.000)	(0.001)	

Source: EViews 10, 2020Notes: the p-values are in brackets

Table 4.2 presents the correlation analysis of variables. Panels 1, 2, and 3 represent the outlook of the three models used in the study. From panel 1, there is a strong positive correlation between the joint audit variable (JOA) and the variable of AUDL which is significant at the 1% level. This implies that joint audit (JOA) and audit report lag (AUDL) likely moves in the same direction. The remaining three firm-specific attributes (SIZ, CLX and RIS) are negatively correlated with the variable of AUDL at 10%, 5% and 5% level of significance respectively. This means that firm size, complexity and risk move in opposite direction with audit report lag.

From panel 2, it was observed that, all things being equal, higher firm size (SIZ) and complexity (CLX) would likely be associated with lower auditor independence (AUDIND), while the association between joint audits and auditor independence is non-significant. The outcome of the panel 3 reveal a probability value of 0.0011 is statistically significant at the 1% level implying that as joint audits increase, so do audit fees, all things being equal. The remaining three variables of SIZ, CLX and RIS have positive correlation coefficients of 0.599, 0.416 and 0.446 respectively and are statistically significant (at 1% level) as their p-values were all lesser than 0.01. What this suggests is that larger, risky and complex firms are strongly associated with higher audit fees as all moved in the same direction in line with the result. Also, observable from the result of the three panels is that the issue of high correlation was nonexistent. This highest correlation coefficient is 0.599 (i.e. between SIZ and AUFEE in panel 3). Thus, the problem of multicollinearity is unlikely present among the series. Further regression diagnostic tests were conducted as presented in the next sub-section.

Model One:			
Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	14.680730	4	0.0054
Model Two:			
Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	0.166754	4	0.9967
Model Three:			
Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	7.654778	4	0.1051

Multivariate Analysis Table 4.3: *Results of the Hausman Tests*

Source: Compiled from Eviews 10 output (2020)

table 4.3 above presents the three Hausman endogeneity measures, describing each of the three research models. The null hypothesis is that the random effect model is consistent, while the alternative hypothesis is that it is consistent with the fixed effect model. The rule of judgment is to accept the alternative hypothesis that if p-value < 0.05, the fixed effect is consistent or accept the null hypothesis that if p-value > 0.05, the random effect is consistent.

less than 0.05 based on the outcome of the three results, while those of models two and three (0.9967 and 0.1051 respectively) surpassed the critical p-value of 5 percent (i.e. > 0.05).This confirms the appropriateness of the fixed effect model in capturing the relationships among the panels of model one, while the random effect method will be adopted for the model two and three. Table 4.6 below presents the extracted outcome of the regression estimation results.

The likelihood values of model one (0.0054) are

Table 4.4 Result of the Panel Regression Results (Models 1, 2 and 3)Dependent Variables: AUDL, AUDIND, AUFEE

Method: Panel Least Squares

Sample: 2014 2018

Periods included: 5

Cross-sections included: 63

Total panel (balanced) observations: 315

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	Model 1	(FEM)	Model 2	(REM)	Model 3	(REM)
Independent Variables	Coefficient	P-value	Coefficient	P-value	Coefficient	P-value
С	483.7158	0.0002	0.037376	0.1920	1.819843	0.0133
JOA	-30.88809	0.2780	0.001667	0.8817	0.072374	0.5622
SIZ	-19.42213	0.0119**	-0.001569	0.3951	0.442018	0.0000**
CLX	-17.01702	0.0014**	-0.003801	0.3197	0.194682	0.0337*
RIS	1.828597	0.8838	0.010982	0.1531	0.023702	0.7467
R-squared	0.652144		0.013894		0.306614	
Adjusted R-squared	0.559570		0.001170		0.297667	
F-stat (p-values)	7.04 (0.000)*	*	1.09 (0.36)		34.3 (0.000)**	

Source: EViews 10 (2020) **, * significant at 1% and 5% levels; FEM=fixed effect; REM=random effect model

Table 4.4 presents the extracted output of the three research models. Although both the fixed and random effects methods were run, the fixed effect outcome was presented for model 1 while the random effect results were presented for interpretation of models two and three. This is due to the outcome of the Hausman's test as reported in Table 4.3. However, it can be observed from the overall probability values of the three models (in the last row of the table) that the joint statistical significance of the models at the 5% levels can only be established in models one and three, as model two was found to be insignificant therefore portrays unreliable statistical results. This means that whereas there is linear relationship between the dependent variables and the explanatory variables (taken together) in model one and model three; no linear relationship could be established for model two. Thus, the use of AUDIND as audit quality proxy in model two could not fit the data (with F-stat of 1.09 and overall p-value of 0.36 or 36%), therefore analysing the model two output is considered redundant.

Going further, it can be observed from the outcome of model 1, as shown in the first column,

the proportion of the variation in audit report lag (AUDL) that was accounted for by the explanatory and control variables taken together is 65.2%. The adjusted R-squared that governs the effect on degrees of freedom of the inclusion of successive explanatory variables stood at 0.559577 (about 56 percent). This suggests that the remaining proportion of approximately 44 percent was not captured by the model and hence captured by the error term. This is an indicator that the explanatory capacity of the model is above average. The path and contribution to the conduct of the audit quality proxy (AUDL) of each of the explanatory and control variables is determined by the signs of the coefficients and their level of significance.

In respect to that, the result showed that the coefficient values of the four (4) explanatory variables have negative signs as depicted by the coefficient values of -30.89, -19.422 and -17.02 for joint audits (JOA), firm size (SIZ) and firm complexity (CLX) respectively.

However, while the main independent variable (i.e. Joint audit) is not statistically significant owing to a high probability value of 0.278 (27.8%), the controlling variables of SIZ (pvalue=0.0119) and CLX (p-value=0.0014) are both significant at 5% and 1% levels respectively. Thus, holding other variables constant, increases in firm size (SIZ) and firm complexity (CLX) would lead to significant decreases in audit report lag (AUDL) by up to 19.4 and 17 units respectively, while a unit increase in JOA (joint audits) have the tendency of decreasing audit delay, but not significantly. The remaining control variable of firm risk (RIS) have positive coefficient value of 1.839 and an insignificant probability value of 0.8838 (>0.05). What this implies is that firm risk, as proxied using debt ratio, does not significantly influence audit delay (AUDL).

From the third column, the result of the random effect model 3 showed an adjusted R-squared value of 0.29767 which signifies that about 30% of the systematic variation in the dependent variable of audit fees (AUFEE) is jointly accounted for by the explanatory (JOA) and control variables (SIZ, CLX and RIS). On the coefficient signs of the variables, the independent variable of joint audits (JOA) as well as the three control variables of firm size (SIZ), firm complexity (CLX) and firm risk (RIS) all showed positive coefficient signs with values of 0.072, 0.442, 0.195 and 0.024 respectively. However, just as in the model one, only firm size (SIZ) and firm complexity (CLX) was statistically significant, howbeit with different coefficient signs. This implies that, while increases in firm size and complexity significantly reduce AUDL in model one, their effect on another audit quality proxy (AUFEE) is significantly positive. Thus, all things being equal, a unit increases in SIZ and CLX will trigger a corresponding increase in audit fees (AUFEE) by up to 44.2% and 19.5% respectively. On the other hand, the insignificant positive sign of the joint audit variable (JOA) is a sign that joint audits have the likelihood of causing a non-significant increase in audit fees.

Test of Hypotheses

The three (3) null hypotheses earlier formulated in the first chapter of this study are checked in this sub-section in order to address the research questions. The decision rule is that if the probability value (p-value) is greater than 0.05 or if the t-statistics are less than 2.0, the null hypothesis will be accepted or the null hypothesis will be rejected if the probability (p-value) value is less than 0.05 and the t-statistics are less than 2. The summary of the hypotheses results are shown in Table 4.8 below:

 Table 4.7 Summary of Hypotheses Testing

	Hypotheses	Prediction	Actual Result	Decision
Ho1	Joint audit have no significant effect on audit	Significantly	Negative – Insignificant	Accept null
	delay in Nigerian listed companies.	negative	(p-value=0.278)	
Ho2	Joint audit do not significantly affect auditor	Significantly	No linear relationship	Accept null
	independence of listed companies in Nigeria.	positive		
Ho3	There is no significant effect of joint au dit on	Significantly	Positive – Insignificant	Accept null
	audit fees in Nigerian listed companies.	positive	(p-value=0.562)	

Source: Researcher's compilation (2020)

Discussion of Findings

The study resulted in the acceptance of null hypothesis one (Ho1), which means that joint audits in Nigeria have a non-significant adverse effect on audit delays. What this means is that higher levels of joint audit will possibly, but not dramatically, reduce audit delays. The negative coefficient sign agrees with the result of a study by Alfraih (2016) which incorporated the variable of audit delay as an audit quality proxy and found that joint audit significantly reduces audit delay in Kuwait. However, unlike theirs, our result did not pass the significance test at any level. This could be attributed to the peculiarity of this study compared to Alfraih (2016). Firstly, their study covered only 2013 and over 50% of their sampled engaged joint auditors compared to just 7% found by our study in a five-year period.

The second research model could not be interpreted because no linear relationship could be established. This could be attributed to the measurement of auditor independence adopted. However, going by the statement of the null hypothesis two (Ho2), it can be claimed that the null hypothesis of no significant effect of joint audit on auditor independence is accepted. Abinitio, the idea behind the development of the second hypothesis was based on the arguments of Paugham and Casta (2012) and Velte (2017) that engaging more than one auditor increases transparency and objectivity, coupled with the researcher's conjecturing that will be difficult for the client to influence more than one auditor in a joint audit arrangement. The acceptance of the second hypothesis validates the findings of Deng et al. (2014), which found that joint audits do not inherently improve auditor competence or independence as a result of free riding and internal opinion shopping - meaning that under joint audits (especially one involving one large

company and one small company) auditor independence is often more likely to be compromised. The outcome is also close to that of Lobo et al. (2017) which found that joint audit does not affect auditor independence in isolation, citing other factors like the combination of such joint audit arrangement.

From the outcome of the third hypothesis test led to the acceptance of the third hypothesis of no significant effect of joint audits on audit fees in Nigeria. Realistically, the positive relationship exhibited by the variable of joint audits is in line with game theory which projects that greater efforts towards high quality audit outcomes are more when a big audit firm pairs with a smaller audit firm. And this is what is currently obtainable in the Nigerian setting as observed during the data collection process where it was discovered that all the firms that engaged joint auditors had the combination of Big4 pairing non-Big4, unlike in other jurisdictions like South African where majority of the joint audit partnering are Big4 vs Big4. Our result on joint audits and audit fees also supports Lesage et al. (2016) and Lesage et al. (2012) which both found that joint audit is associated with higher fees among Danish companies. The result is equally similar to the findings of Ilaboya et al (2017) which showed that joint audits do not affect audit fess significantly. The study of Velta & Azibi (2015) also found that joint audits, although positive, does not have significant effect on audit fees in a combination of French and German companies.

Conclusion and Recommendations

Based on the outcome of the empirical analyses in the previous chapter in relation to the specific research objectives, the major findings of the study can include: That the effect of joint audits on audit delay is negative and insignificant. This means that firms engaging joint auditors are most likely associated with shorter audit report lag, but the impact is not significant. That a non-significant positive relationship exists between joint audit and audit fees. This means that firms engaging joint auditors have more likelihood of paying higher audit fees. However, such nexus would not be significant. That firm size and firm complexity are highly significant in explaining variances in both audit delay and audit fees in Nigeria.

Based on these outcomes, it can be concluded that although there are indications from the results that joint audits poses negative and positive impact on audit delay and audit fees respectively, their relationships are not statistically significant within the context of this study. It can also be concluded that company attributes like firm size and complexity are major influencers of both audit fees and audit delay, while firm risk (using debt ratio) was insignificant and can be considered as not of crucial importance in the context of this study.

Based on the findings of this study, the study recommends that Regulatory bodies like ICAN may need to reignite the existing campaign for a mandatory audit regime, since there are theoretical projections that it would enhance auditor independence without significantly raising audit fees which usually has economic implications on firms' earnings and regulatory bodies should ensure strict compliance with the relevant requirements of corporate governance structures in fostering auditor independence among listed companies.

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