

Characteristics of Auditors’ Non-Audit Services and Accruals Quality in Malaysia

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Malaysia

147

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Abstract

Purpose – The purchase of non-audit services from incumbent auditors has generated considerable attention. This study aims to examine the relationship between characteristics of non-audit services, namely, the recurrence and types of services, and accruals quality in Malaysia.

Design/methodology/approach – This study analyzed hand-collected audit and non-audit fees of 1,117 observations from Malaysian firms from 2009 to 2011. This study used descriptive analysis, univariate tests and multivariate regression to investigate the potential effect of non-audit services on accruals quality.

Findings – Non-audit services are associated with lower accruals quality. Recurring and non-recurring non-audit service fees are detrimental to the quality of accruals, as are all types of recurring non-audit services. Only non-recurring audit-related services decrease accruals quality. The results demonstrate that provisions of non-audit services create economic bonding, and thus a threat to auditor independence. Results remain robust with the inclusion of corporate governance and institutional variables.

Research limitations/implications – The sample period might represent a limitation as it only covers three years of data. This limitation is mainly because of the nature of data collection of the non-audit services fees.

Practical implications – The findings could suggest a refinement on the Malaysian Institute of Accountants (MIA) by-laws focusing on auditor independence, and it could assist other regulative bodies such as the Securities Commission, the stock exchange (Bursa Malaysia) in ensuring better governance on the provision of non-audit services.

Originality/value – This study is the first that provides evidence on the relationship between non-audit services, types, and recurring and non-recurring non-audit services and accruals quality in Malaysia.

Keywords Auditor independence, Accruals quality, Non-audit services, Knowledge spillover, Economic bonding, Audit quality

Paper type Research paper

1. Research aims

Evidence examining the impact of non-audit services on auditor independence is rather extensive. Beginning with the seminal work of Simunic (1984) on non-audit services to

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1
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reviews by Francis *et al.* (2004, 2006) and Schneider (2006) reflects the importance of examining this issue even further. In Malaysia, Che Ahmad *et al.* (2006) and Abdul Wahab *et al.* (2013) examine the relationship between non-audit services and audit fees and audit opinion. Abdul Wahab and Mat Zain (2013) examine auditor independence by investigating the activity of lowballing after the initial engagement. Although they find fees discount exists during the initial engagement, no evidence suggests that impairment of independence exists as auditors will earn a premium in fees after subsequent years. These studies, however, do not take into consideration other factors that are deemed necessary in analyzing the impact of non-audit services on auditor independence. Globally, limited evidence has been presented in establishing the impact of various characteristics of non-audit services. As highlighted by Alexander and Hay (2013), the limitation is mainly because of data unavailability.

We offer four central objectives in this paper. The first is to investigate the relationship between auditors' non-audit services and accruals quality in Malaysia. The premise of such a link is simple, but the effect of non-audit services is somewhat ambiguous. The provision of non-audit services will result in economic bonding, or knowledge spillover could mean a decrease or an increase in accruals quality, respectively.

The second objective is to investigate the impact of types of non-audit services on accruals quality. Several studies (Abdul Wahab *et al.*, 2014; Alexander and Hay, 2013; Huang *et al.*, 2007; Paterson and Valencia, 2011; Walker and Hay, 2013) have suggested that certain types of non-audit services have different effects related to economic bonding or knowledge spillover on audit services. We segregated the non-audit services as tax-related, audit-related and other non-audit services. The third objective is to investigate the nature of these services, whether it is recurring or non-recurring, and its impact on accrual quality. Schneider *et al.*'s (2006) review of non-audit services raises the importance of addressing the subject of recurring and non-recurring non-audit services because ignoring them "misses the waters" makes it challenging to interpret empirical results. Competing views exist on the impact of recurring non-audit services. Beck *et al.* (1988a) and Schneider *et al.* (2006) argue that recurring non-audit services provide knowledge spillover. Causholli *et al.* (2014) suggest that future non-audit services create economic bonding and thus undermine auditor independence. By contrast, Beck *et al.* (1988a) indicate that non-recurring could undermine auditor independence, whereas Causholli *et al.* (2014) suggest otherwise. The final objective is to test the types and recurrence of these services simultaneously.

Malaysia is chosen for several reasons. First, there is limited evidence on the role of non-audit services in the region. Several papers have examined the role of non-audit services in Malaysia. Che Ahmad *et al.* (2006) and Abdul Wahab *et al.* (2013, 2014, 2015) examine the relationship between non-audit and audit fees, the propensity of the going-concern audit opinion and financial restatements. The findings are mixed and inconclusive, as some studies identify the support of knowledge spillover (Che Ahmad *et al.*, 2006; Abdul Wahab *et al.*, 2014), whereas others (Abdul Wahab *et al.*, 2013, 2015) identify no such support. However, none of the abovementioned studies examines the impact of non-audit services on accruals quality. Second, Malaysia requires the disclosure of the non-audit services as part of the listing requirements, and the annual reports provide information on the nature of these services. Third, evidence regarding the nature and recurrence of non-audit services is limited.

We are motivated for several reasons. First, as described by Habib (2012), the evidence regarding the relationship between non-audit services and earnings quality is ambiguous. Second, the study on earnings quality in Malaysia has been limited to an investigation of the role of the International Financial Reporting Standards (IFRS) and earnings quality by

Wan Ismail *et al.* (2013), corporate governance (Abdul Rahman and Mohamed Ali, 2006; Mohd Saleh *et al.*, 2007; Hasnan *et al.*, 2013), internal audit function (Johli *et al.*, 2013) and audit opinion (Sahl *et al.*, 2007). However, no studies on earnings quality exist that include an investigation of the impact of non-audit services in Malaysia, which suggests that this study is timely. A recent study by Lai *et al.* (2016) investigates the relationship between busy auditors, ethical behavior and discretionary accruals in Malaysia but does not include non-audit services in their tests.

Similar to Srinidhi and Gul (2007) and Causholli *et al.* (2014), we choose accruals as our proxy of audit quality or loss of independence. We extend the work of Abdul Wahab *et al.* (2014) because that study focuses on financial restatements, whereas our study measures the impact on accruals quality. The choice of accruals quality as our dependent variable as opposed to a binary measure (Abdul Wahab *et al.*, 2014) as this measure provides a variation of earnings quality across the sample. Also, the residual values of the accruals model have been known to capture managerial discretion and estimation errors (Dechow *et al.*, 2010). We measure accruals quality using a modification of the Dechow and Dichev (2002) measure, as suggested by Francis *et al.* (2005).

Based on 1,117 firm-year observations from 2009 to 2011, and using the accruals model of Francis *et al.* (2005), we find that non-audit services affect accruals quality negatively and significantly by increasing the estimation error, which suggests that non-audit services create economic bonding, which could affect auditor independence. Our results are similar to those of Srinidhi and Gul (2007), who find that fees paid to auditors affect accruals quality. We find that all types of non-audit services affect accruals quality negatively and significantly. Our results are interesting, as we find that both recurring and non-recurring non-audit fees affect accruals quality negatively and significantly.

This augments the existing literature to papers such as Alexander and Day (2013), Paterson and Valencia (2011), and Abdul Wahab *et al.* (2014). We find that all types of non-audit services of a recurring nature work negatively against accruals quality. In addition, we find that non-recurring audit-related non-audit services decrease accruals quality. The result shows that the provision of non-audit services done by the incumbent auditors affects the accruals quality, a signal of independence auditor issue. The same results hold for types of non-audit services for the recurring. The findings could suggest a refinement on the Malaysian Institute of Accountants (MIA) by-laws focussing on auditor independence, and it could assist other regulative bodies such as the Securities Commission, the stock exchange (Bursa Malaysia), in ensuring better governance on the provision of non-audit services.

We discuss the audit market in Malaysia in Section 2. We outline the rationale behind our hypotheses and describe our sample in Sections 3 and 4, respectively. Sections 5 and 6 present the research methodology and results, respectively. Section 7 provides the concluding remarks.

2. Institutional background

2.1 Audit market in Malaysia

The accounting profession is not the only group responsible for instituting proper accounting and auditing systems. The profession is supported by regulatory bodies such as the Securities Commission, the Central Bank and the Company Commission of Malaysia; the Accountant's General Office and the Auditor's General Office or Department; and corporate players and directors and managers of companies. These bodies have a significant role in ensuring that a sound financial-reporting system is in place to protect public interests.

To strengthen the independence of external auditors, the MIA has established by-laws on professional ethics, conduct and practice. Section 290 indicates that under the

Independence–Assurance Engagements, members of the assurance team and the firm should be independent of the client during the period of engagement. The rules also require ¹⁵ all companies that are listed on the Bursa Malaysia Listing Requirement disclose ² the amount of non-audit services that are provided by an external auditor. The revised Malaysian Code on Corporate Governance (2012) suggests that the audit committee should establish policies that govern the circumstances under which contracts for the provision of non-audit services can be entered into and procedures that must be followed by the external auditors^[1]. However, this code does not provide information on whether a formal approval is required ⁴ from an audit committee to purchase non-audit services.

The amount of the fees paid for non-audit services is not regulated or restricted under any legislation or act. However, the amount incurred should be included or disclosed in annual reports under items (18) and (19) of acdix 9C of the Bur⁴ Malaysia Listing Requirements for main markets and the Access, Certainty, Efficiency market, respectively. Therefore, publically listed companies are required to disclose non-audit fees that are paid to corporations that are owned by external auditors or their partners. This disclosure clause was made mandatory by Bursa Malaysia in 2001 and aimed to protect shareholders' interests and increase corporate transparency. Before 2001, regulators in Malaysia emphasized only the disclosure of audit fees in companies' annual reports, as required by the Companies Act 1965. However, the rules did not clarify whether clients need to specify the type or nature of non-audit services engagement.

The Malaysian audit market differs from that of other developed countries in that it is not competitive, because corporate governance is based on politically connected companies, ethnicity, language and religion (Abdul Wahab *et al.*, 2011; Haniffa and Cooke, 2002; Yatim *et al.*, 2006). A significant impact on auditing practices occurred in 2002 when the accounting company Arthur Andersen ceased to practice in Malaysia in the fallout from the Enron ⁷ case, and this challenged auditor independence because of the auditors' financial reliance ⁷ on the provision of non-audit services. Most firms that, until then, had been audited by Arthur Andersen, switched to Ernst and Young, who, along with Price Waterhouse Coopers, KPMG and Deloitte, dominate the Malaysian audit market.

3. ¹ search hypotheses

3.1 *Auditors' non-audit services and accruals quality*

Contrasting views exist ⁱⁿ the role of non-audit services (Francis *et al.*, 2004; Habib, 2012; Schneider *et al.*, 2006). First is the view that non-audit services provided by auditors lead to knowledge spillover and thus increase the audit quality. This view proposes a positive link between non-audit services and accruals quality. Kinney *et al.* (2004) offer three bases for a positive relationship between non-⁵ audit services and the quality of financial reporting. First is knowledge spillover; because non-audit services improve audit effectiveness, they assist ^{the auditor} in developing a better understanding of the client's business (Simunic, 1984). For instance, knowledge of a client's computer system or tax accounting could be used in the audit, improve the audit and therefore increase the financial-reporting quality (Kinney *et al.*, 2004). Second, the analytical model of Dopuch *et al.* (2003) suggests that high-quality clients with low misstatement risks are low *ex-ante* and that non-audit services to such clients provided by their audit firms may increase their reputation capital. This, in turn, ⁵ increases the incentive for thoroughness in the audit and independence in reporting decisions. Denston (1975) and Antle (1984) argue that on the general basis of contractual service, the desire for non-audit services to improve their reputation encourages them to remain strongly independent.

The provision of non-audit services allows auditors to invest more in such reputational capital, and they are unlikely to jeopardize their reputation to accommodate a client (Arrufada, 1999; Dopuch *et al.*, 2003). Third, high-quality clients may seek more expert computer systems and tax advice, internal audit services, and other audit-related transaction services, and they may prefer that a particular audit firm supply these non-audit services because of their quality or price. Based on these arguments, we would expect a positive relationship between non-audit services and earnings quality.

An opposing view is that the provision of non-audit services may lead to economic bonding between the auditor and the auditee, with the possibility of weakening the audit quality and thus affecting the accruals quality. This economic dependence or bond argument (Kinney *et al.*, 2004; Francis, 2006) suggests that a negative relationship exists between non-audit services and financial reporting quality. As such economic dependence increases over time, the auditor may grow less willing to challenge possible misstatements in the client's financial statements. Agrawal and Chadha (2005) suggest that the provision of non-audit services could hurt the quality of an audit by impairing auditor independence as a direct consequence of the increase in economic bond and dependence. Koh *et al.* (2013) argue that the provision of non-audit services by an incumbent auditor provides the client with leverage because withholding non-audit services by the business penalizes the auditor without affecting the client. Auditors placed in this position are more likely to accommodate client preferences in return for being awarded non-audit services, which undermines the auditors' independence (Koh *et al.*, 2013), and leads to a lower earnings quality. Srinidhi and Gul (2007) argue that relative differences in the regulative environment between audit and non-audit services allow for the inclusion of rent in non-audit services, which makes it easier for managers to influence auditors by including excessive rents in the non-audit fees instead of in the audit fees.

Studies have produced mixed results. Those that find a positive relationship between the provision of non-audit services fees and accruals quality, which denotes knowledge spillover, are those of Koh *et al.* (2013), Larcker and Richardson (2004), and Antle *et al.* (2006). By contrast, Dee *et al.* (2006), Mande and Son (2015), Reynolds *et al.* (2004), Lim *et al.* (2013), Frankel *et al.* (2002) and Srinidhi and Gul (2007) find a negative relationship between non-audit service fees and accruals quality, which indicates that these services denote economic bonding that undermines auditor independence. Another group of studies (Lim and Tam, 2008; Mitra, 2007; Chung and Kallapur, 2003; Ashbaugh *et al.*, 2003) finds weak or no evidence of a relationship between non-audit services and earnings quality. Based on the above arguments, we expect an association between non-audit fees and accruals quality.

3.4 Heterogeneity of non-audit services

3.2.1 Types of non-audit services. The heterogeneous nature of non-audit services is pivotal in understanding their role. Different types of non-audit services have different characteristics that affect whether they result in knowledge spillover or deepen the economic bonding of the auditors. Our choice of types of non-audit service is accepted widely in the literature as that usually offered by auditors to their auditees.

Most studies examine types of non-audit service centers on tax services. Krishnan *et al.* (2013) outline three benefits associated with auditor-provided tax services. First, the overall cost of these services will be less. Next, knowledge spillover, which is the insight that is gained in providing tax services, can enhance audit effectiveness, and, in turn, the quality of the client's financial reporting. The knowledge spillover that is communicated between tax and audit partners may mitigate the auditor information asymmetry. Alternatively, providing such services could increase an auditor's economic dependence on a client, Krishnan *et al.* (2013) find that

auditor-provided tax services enhance the value relevance of earnings; this supports their argument on knowledge spillover.

Seetharaman *et al.* (2011) examine the relationship between tax-related non-audit services and tax-related financial restatements and find a negative relationship. They argue that tax-related non-audit services provide knowledge spillover to the incumbent auditor, thus reduce the probability of tax-related financial restatements. However, they find no relationship between tax-related non-audit services and overall financial restatements. Robinson (2008) investigates the relationship between auditor-provided tax services and going-concern opinions and finds a positive relationship. Findings from tax-related studies suggest that tax-related audit services provide knowledge spillover and enhance financial reporting quality. Paterson and Valencia (2011) find that recurring auditor-provided tax services have a significant negative association with restatements, which is consistent with the notion that tax services generate knowledge spillover, which improves audit quality. Abdul Wahab *et al.* (2014) find a negative and significant relationship between tax-related non-audit services and the likelihood of financial restatements. Based on these arguments, we predict that the discretionary accruals are likely to be lower for firms that purchased tax-related non-audit services.

The next type of non-audit services is audit-related. Following the argument of Beck *et al.* (1988b), which benefits or detracts from the provision of non-audit services depending on relative start-up costs, switching costs and knowledge spillover, audit-related non-audit services should be closely related to audits and thus should provide knowledge spillover. Similarly, we predict that the accruals quality is likely to be lower for firms that purchased audit-related non-audit services.

Our third type is other non-audit services, those that are neither tax-related nor audit-related non-audit services. Examples of other non-audit services are a review of an internal control system and a revision of the IFRS conversion. Lai and Krishnan (2009) investigate the relationship between financial information system-related services, which includes the design of internal accounting systems, as provided by the incumbent auditor and firm value. Lai and Krishnan (2009) argue that such a provision could provide knowledge spillover and could impair auditor independence. They claim that an auditor-provided financial information system is more likely to meet audit needs as they already know how the system works, which increases operational efficiency. They also argue that it is possible that the auditor may not report financial statements based on the system that they designed. Based on this argument, we predict an association between other non-audit services and accruals quality.

Based on Malaysian data, Abdul Wahab *et al.* (2014) find that audit-related non-audit services reduce the likelihood of financial restatements, but other related non-audit services do not.

3.2.2 Recurring vs. non-recurring non-audit services. The method developed by Beck *et al.* (1988a) differentiates between the benefits gained from recurring and non-recurring, or one-off, non-audit services to clients. Beck *et al.* (1988a) suggest that recurring non-audit service engagements are more likely to generate knowledge spillover or differential benefits that increase auditor independence. Ezzamel *et al.* (2002) state that the existence of cost benefits from the joint provision of non-audit and audit services must be considered in terms of recurring and non-recurring services. Recurring non-audit services generate a stream of quasi-rents or annuity, which influences the economic bond between auditor and client (Alexander and Hay, 2013).

A similar argument was mooted by Causholli *et al.* (2014), which predicts that future non-audit services business could impair auditor independence. They argue that future

non-audit services fees present an important source of career advancement and, with it, a source of a particularly strengthened economic bond with the client. Causholli *et al.* (2014) argue that an economic bond could intensify in the presence of financial incentives that promote revenue growth, cause it encourages audit partners to pursue revenue-generating opportunities. Based on Beck *et al.*'s (1988a) and Causholli *et al.*'s (2014) arguments, a negative relationship will exist between recurring non-audit services fees and accruals quality (positive coefficients).

Evidence that examines the impact of non-recurring non-audit fees has been mixed. A subsequent paper by Beck *et al.* (1988b) finds that recurring non-audit fees are somewhat associated with a higher auditor tenure and increase bonding, which impairs auditor independence. Paterson and Valencia (2011) find that recurring tax-related non-audit services are associated negatively with financial restatements. Similarly, Abdul Wahab *et al.* (2014) find that tax-related and audit-related non-audit fees are associated negatively with financial restatements. Causholli *et al.* (2014) investigate the impact of future non-audit fees and discretionary accruals and their proxy for earnings management and find a positive relationship, which suggests that future non-audit services impairs auditor independence.

The situation is somewhat different when non-audit services are performed intermittently, that is, for non-recurring services. Knowledge spillover from the joint provision of services provides the incumbent auditor with a potentially long-term cost advantage or monopoly that competitors will be unable to match with their standard audit costs. Therefore, the incumbent auditor will charge the client a higher fee for the engagement. The auditor is aware that competitors may be able to win the engagement in any future period. However, the savings derived from knowledge spillover mean that competitors' typical audit costs will be higher than those of the incumbent auditor, and so higher profits can be earned (Alexander and Hay, 2013). Based on the arguments by Causholli *et al.* (2014), one would expect that non-recurring non-audit services do not impair auditor independence as this arrangement does not generate future revenue-generating opportunities and thus could have less impact on auditor independence.

DeFerg and Kaplan (1991) use the types of non-audit service as a proxy for whether fees are recurring or non-recurring. They find that, regardless of whether services recurring or not, firms are less likely to change auditors. Parkash and Venable (1993) examine the determinants of recurring and non-recurring non-audit services fees and argue that knowledge spillover and economic bonding are higher when recurring non-audit services are provided. Because the relationship is ambiguous, we predict an association between the level of accruals with recurring and non-recurring non-audit fees.

3.2.3 Types of recurring and non-recurring non-audit service. As do Paterson and Valencia (2011) and Abdul Wahab *et al.* (2014), we extend our test by incorporating both characteristics, namely, types, and whether services are recurring or not. A theoretical argument that is raised by Krishnan *et al.* (2013) and Paterson and Valencia (2011) suggests that types of non-audit service provide knowledge spillover and increase audit efficiency and effectiveness and thus increase financial reporting quality. We argue that recurring non-audit services undermine auditor independence because of future economic benefits for the auditor (Causholli *et al.*, 2014) and create economic bonding (Beck *et al.*, 1988b). Because the arguments created are ambiguous, we predict an association between recurring (or non-recurring) tax, audit and other related non-audit services and accruals quality.

Our examination will provide a clearer understanding of how non-audit services affect accruals quality over time. Paterson and Valencia (2011) and Abdul Wahab *et al.* (2014) find

that recurring tax-related non-audit services provide some form of knowledge spillover and reduce the likelihood of financial restatements.

3.2.4 Corporate governance variables and accruals quality. Prior research explains that good corporate governance enhances auditor independence. Good governance will demand more audit effort and thus increase auditor independence. The higher earnings qualities, the less tendency for the manager in earnings management practice, the better the independence in auditing. A vast of research link between corporate governance with earnings management (Abed *et al.*, 2012; Baxter and Cotter, 2009; Becker *et al.*, 1998; Flynn, 2008; Gul *et al.*, 2002; Guay and Zongjun, 2011; Haber and Braunstein, 2008; Haw *et al.*, 2011; Lin and Hwang, 2010; Machuga and Teitel, 2009; Pergola *et al.*, 2009; Thoopsamut and Jaikengkit, 2009). Therefore, this study predicts an association between corporate governance variables and accruals quality.

4. Sample selection

We based our sample on 1,117 firm-year observations from 2009 to 2011. The non-audit services fees and their characteristics were collected manually from annual reports downloaded from the Bursa Malaysia website. We gathered all available corporate governance variables from annual reports manually. We used data extracted from Datastream to calculate our accruals model and other firm characteristics. As is done in other studies, we exclude financial firms from our sample. The first and one-hundredth percentiles of each continuous variable were winsorized to reduce the effect of outliers. Table I tabulates our sample-selection process.

5. Research method

5.1 Regression models

We opted for the Francis *et al.* (2005) model of accruals quality, which is a modification of that of Dechow and Dichev (2002)[4]. The Dechow and Dichev model uses firm-wise time-series regressions with total accruals as the dependent variables and the cash flow of previous, current and subsequent years as independent variables. The standard deviation of the residuals for each firm used as the accrual quality measure. Dechow and Dichev (2002) highlight that the absolute value of the residual is an alternative measure of accrual quality when such a measure is needed for each firm-year. The

Firms listed on the main board as of 2011		822
<i>Less</i>		
Finance firms	37	
PN17	16	
New Firms on the board in 2010	28	
New firms on the board in 2011	14	
Firms with no annual report 2012	37	
Firms with no annual report 2008	8	
Firms with no annual report 2009, 2010 and 2011	27	(167)
Total Firms		655
Three years of observations (2009-2011)		1,965
<i>Less</i>		
Firms with no NAS provider		(284)
Missing information		(564)
Table I. Sample selection		1,117

reason for accrual quality being chosen in this study lies in Dechow and Dichev's (2002) argument that accrual quality is to be associated with the firm and industry features that are free from earnings manipulation. This construct is recurring and observable and so differs from earnings management, which is considered unobservable.

Based on comments by McNichols (2002), Francis *et al.* (2005) include two additional independent variables, namely, changes in sales revenue and property, plant and equipment (PPE), on the basis that this helps improve the expectations of current accruals. We use the same model, and because we want the measure on a firm-year basis, we use the absolute value of the residual as the measure of accrual quality. The model is as follows:

$$TCA = a_0 + a_1OCF_{i,t-1} + a_2OCF_{i,t} + a_3OCF_{i,t+1} + a_4\Delta REV_{i,t} + a_5PPE_{i,t} + v_{i,t} \quad (1)$$

The variables are as follows:

- TCA = $(\Delta CA - \Delta Cash - (\Delta CL - \Delta STDebt))$;
- ΔCA = Change in current assets;
- $\Delta Cash$ = Change in cash balance;
- ΔCL = Change in current liabilities;
- $\Delta STDebt$ = Change in short-term debt that is included in current liabilities;
- OCF = Operating cash flow;
- ΔREV = Change in sales revenues; and
- PPE = Property, plant and equipment.

All variables are scaled by average total assets. After computing the residual from (1), we use the absolute value as the dependent variable in the following model, in which to address the first research hypothesis:

$$|v_{i,t}| = \beta_0 + \beta_1NAS_{i,t} + \beta_2ACFIN_{i,t} + \beta_3ACIND_{i,t} + \beta_4ACMEET_{i,t} + \beta_5ACSIZE_{i,t} + \beta_6DUAL_{i,t} + \beta_7IND_{i,t} + \beta_8BIG4_{i,t} + \beta_9DEBT_{i,t} + \beta_{10}FAMILY_{i,t} + \beta_{11}BUMI_{i,t} + \beta_{12}NEQUITY_{i,t} + \beta_{13}LOSS_{i,t} + \beta_{14}POLCON_{i,t} + \beta_{15}ASSETS_{i,t} + \beta_{16}INDUSTRIES_{i,t} + \beta_{17}PERIODS_{i,t} + \mu_{i,t}$$

To address the second research hypothesis on types of non-audit services and accruals quality, we have the following model:

$$|v_{i,t}| = \beta_0 + \beta_1TAXNAS_{i,t} + \beta_2ARNAS_{i,t} + \beta_3OTHERS_{i,t} + \beta_4ACFIN_{i,t} + \beta_5ACIND_{i,t} + \beta_6ACMEET_{i,t} + \beta_7ACSIZE_{i,t} + \beta_8DUAL_{i,t} + \beta_9IND_{i,t} + \beta_{10}BIG4_{i,t} + \beta_{11}DEBT_{i,t} + \beta_{12}FAMILY_{i,t} + \beta_{13}BUMI_{i,t} + \beta_{14}NEQUITY_{i,t} + \beta_{15}LOSS_{i,t} + \beta_{16}POLCON_{i,t} + \beta_{17}ASSETS_{i,t} + \beta_{18}INDUSTRIES_{i,t} + \beta_{19}PERIODS_{i,t} + \mu_{i,t}$$

To address the third research hypothesis on the relationship between the recurrence of non-audit services and accruals quality, we have the following model:

$$|v_{i,t}| = \beta_0 + \beta_1 \text{NAS_RECUR}_{i,t} + \beta_2 \text{NAS_NRECUR}_{i,t} + \beta_3 \text{ACFIN}_{i,t} \\ + \beta_4 \text{ACIND}_{i,t} + \beta_5 \text{ACMEET}_{i,t} + \beta_6 \text{ACSIZE}_{i,t} + \beta_7 \text{DUAL}_{i,t} + \beta_8 \text{IND}_{i,t} \\ + \beta_9 \text{BIGA}_{i,t} + \beta_{10} \text{DEBT}_{i,t} + \beta_{11} \text{FAMILY}_{i,t} + \beta_{12} \text{BUMI}_{i,t} + \beta_{13} \text{NEQUITY}_{i,t} \\ + \beta_{14} \text{LOSS}_{i,t} + \beta_{15} \text{POLCON}_{i,t} + \beta_{16} \text{ASSETS}_{i,t} + \beta_{17} \text{INDUSTRIES}_{i,t} \\ + \beta_{18} \text{PERIODS}_{i,t} + \mu_{i,t}$$

Finally, we have the following model to address the fourth research hypothesis when we test the types of recurrence of non-audit services simultaneously:

$$|v_{i,t}| = \beta_0 + \beta_1 \text{TAXNAS_RECUR}_{i,t} + \beta_2 \text{TAXNAS_NRECUR}_{i,t} \\ + \beta_3 \text{ARNAS_RECUR}_{i,t} + \beta_4 \text{ARNAS_NRECUR}_{i,t} + \beta_5 \text{OTHERS_RECUR}_{i,t} \\ + \beta_6 \text{OTHERS_NRECUR}_{i,t} + \beta_7 \text{ACFIN}_{i,t} + \beta_8 \text{ACIND}_{i,t} + \beta_9 \text{ACMEET}_{i,t} \\ + \beta_{10} \text{ACSIZE}_{i,t} + \beta_{11} \text{DUAL}_{i,t} + \beta_{12} \text{IND}_{i,t} + \beta_{13} \text{BIGA}_{i,t} + \beta_{14} \text{DEBT}_{i,t} \\ + \beta_{15} \text{FAMILY}_{i,t} + \beta_{16} \text{BUMI}_{i,t} + \beta_{17} \text{NEQUITY}_{i,t} + \beta_{18} \text{LOSS}_{i,t} \\ + \beta_{19} \text{POLCON}_{i,t} + \beta_{20} \text{ASSETS}_{i,t} + \beta_{21} \text{INDUSTRIES}_{i,t} + \beta_{22} \text{PERIODS}_{i,t} \\ + \mu_{i,t}$$

5.2 Independent test variables

The primary independent variable in this study is non-audit fees (NAS). As in other studies (Bloomfield and Shackman, 2008; Huang *et al.*, 2007; Kinney *et al.*, 2004; Seetharaman *et al.*, 2011), non-audit fees that are deflated by total fees (NAS) are our measure for NAS. Non-audit fees are segregated into several types that are deflated by total fees. These are tax-related NAS (TAXNAS), audit-related NAS (ARNAS) and other NAS (OTHERS). Like Paterson and Valencia (2011), we examine recurring (NAS_RECUR) and non-recurring NAS (NAS_NRECUR), recurring (TAXNAS_RECUR) and non-recurring tax-related NAS (TAXNAS_NRECUR), recurring (ARNAS_RECUR) and non-recurring audit-related NAS (ARNAS_NRECUR) and recurring (OTHERS_RECUR) and non-recurring other NAS (OTHERS_NRECUR). Also, like Paterson and Valencia (2011), we use consecutive periods to determine whether the fees for each type of NAS are recurring or non-recurring. The general rule for the coefficients of the variables mentioned above is positive if it reflects a decrease in accruals quality and thus impairs auditor independence (because an increase in $v_{i,t}$ denotes a decrease in accruals quality). Negative coefficients for the abovementioned variables denote an increase in accruals quality (because a decrease in $v_{i,t}$ denotes an increase in accruals quality).

5.3 Corporate governance variables

Two sets of corporate governance variables exist. The first is board characteristics, and the second is audit committee characteristics. Board characteristics comprise two variables: the proportion of independent directors on the board (IND), and an indicator variable that is equal to 0 if the chief executive officer (CEO) chairs the board of directors (DUAL), and one otherwise. We offer four variables to represent audit committee characteristics: dummy

variable that is equal to 1 if the audit committee is composed entirely of independent directors (*ACIND*); a dummy variable that is equal to 1 if the audit committee is composed of more than two-thirds of financially literate members (*ACFIN*); the proportion of an audit committee meeting to the audit committee size (*ACMEET*); and the natural logarithmic transformation of the number of audit committee members (*ACSIZE*). The premise of this relationship is that a positive relationship exists between corporate governance variables and accruals quality.

5.4 Institutional variables

To provide a more holistic view of Malaysia's capital market, we include three variables that are established in the literature. The first is the proportion of Bumiputras directors on the board (*BUMI*), the second is an indicator variable that is equal to 1 if the firm is a family firm (*FAMILY*) and the third is another indicator variable that describes politically-connected firms (*POLCON*). We predict a negative relationship between *BUMI* and accruals quality because they are viewed as being less transparent and high in secrecy (Haniffa and Cooke, 2002). We predict a positive and negative relationship with earnings quality for *FAMILY* and *POLCON*.

5.5 Control variables

We control for firm size, which is the natural logarithmic transformation of total assets (*ASSETS*); debt to total equity (*DEBT*); auditor size, which is equal to 1 if the firm is audited by a Big 4 auditor (*BIG4*); and a dummy variable if the firm recorded a loss in the previous year (*LOSS*). We also include industry dummies (*INDUSTRY*) and period dummies (*PERIOD*) to control for any unobserved effects during the sample period [6]. Please refer to Table II for the operational definitions of the variables.

5.6 Data description

Table III tabulates the descriptive statistics used in our study. The average *AQ* is 0.043, which ranges from 0.000 to 0.389. Panel A in Table III describes the fee variables. The average audit fees (*AFEE*) are RM 190921.600, with a maximum of RM 3.843m [7]. The average non-audit fees (*NAS_RM*) are RM 49162.950, with a range between RM 105m and RM 2.412m. *TAX_RM*, *ARNAS_RM* and *OTHERS_RM* average RM9263.320, RM 18324.860 and RM 21574.770, respectively. The average *RECURRING_RM* and *NON_RECUR_RM* non-audit fees are RM 43771.550 and RM 5391.403, respectively. The proportion of total non-audit fees to total fees is 0.179, with *OTHERS* comprising the highest proportion of total fees at 0.080.

Panel B of Table III presents descriptive statistics for corporate governance variables. In the sample firms, 69.2 per cent separates the *CEO* and Chairperson (*DUAL*) function, 44.2 per cent of sample firms have at least two-thirds of independent directors (*IND*) and 88.4 per cent have independent audit committee members. On average, an audit committee meets 4.818 times per year (*ACMEET*), and audit committees have three members on average (*ACSIZE*).

Panel C of Table III tabulates descriptions of the institutional variables. On average, the proportion of Bumiputras directors (*BUMI*) is 0.315, with a range from zero to all being Bumiputras. More than half of the sample firms (55.7 per cent) have some form of family connection (*FAMILY*), and 9.1 per cent are politically connected (*POLCON*).

Panel D of Table III presents descriptive statistics for our control variables. A value of 60.3 per cent of sample firms is audited by a Big 4 auditor (*BIG4*). The average debt-to-

Table II.
Operational
definition of
variables

Panel A: Dependent variable			
1	AQ	Accruals Quality: Modified Dechow and Dichev (Francis et al., 2005 model)	Datostream and annual report. ¹³
<i>Panel B: NAS Fees ratios</i>			
2	NAS	Non-audit fees deflated by total fees	Annual report
3	TAXNAS	Tax-related non-audit fees deflated by total fees	Annual report
4	ARNAS	Audit related non-audit fees deflated by total fees	Annual report
5	OTHERS	Other services non-audit fees deflated by total fees	Annual report
6	NAS_RECUR	Recurring non-audit fees deflated by total fees	Annual report
7	NAS_NONRECUR	Non-recurring non-audit fees deflated by total fees	Annual report
8	TAXNAS_RECUR	Recurring tax-related non-audit fees deflated by total fees	Annual report
9	TAXNAS_NONRECUR	Non-recurring tax-related non-audit fees deflated by total fees	Annual report
10	ARNAS_RECUR	Recurring Audit-related non-audit fees deflated by total fees	Annual report
11	ARNAS_NONRECUR	Non-Recurring Audit-related non-audit fees deflated by total fees	Annual report
12	OTHERS_RECUR	Recurring other services non-audit fees deflated by total fees	Annual report
13	OTHERS_NONRECUR	Non-recurring other services non-audit fees deflated by total fees	Annual report
<i>Panel C: Corporate governance</i>			
14	IND	Percentage of Independent directors on the board	Annual report
15	DUAL	Dummy variable that takes the value of "1" if the board of director holds both the position of chairman and chief executive officer and "0" otherwise	Annual report
16	ACFIN	An indicator variable of "1" if the audit committee is financially literate, 0 otherwise	Annual report
17	ACIND	An indicator of "1" if all the audit committee are independent, or "0" otherwise	Annual report
18	ACMEET	The proportion of audit committee meeting to the number of AC members	Annual report
19	ACSIZE	The number of directors in the audit committee	Annual report
<i>Panel D: Institutional variables</i>			
20	BUMI	The proportion of Dominant director on the board	Annual report
21	FAMILY	Dummy variable coded as "1" if the firms have family connection and "0" otherwise	Annual report
22	POLCON	An indicator variable of 1 if the firm is politically connected, or "0" otherwise	Johnson and Mitton (2003)

(continued)

Panel E: Control variables		
23	BIG4	An indicator variable that takes the value of 1 if the auditor is a Big 4 auditor, zero otherwise. ⁶
24	LOSS	An indicator variable that takes the value of 1 if the firm recorded a loss in accounting return.
25	DEBT	Total debt deflated by total equity
26	ASSETS	Natural log transformation of total assets
27	MTB	Market to book value
28	CFO	Cash flow from operations
29	TCA	Total accruals
		Annual report
		Datastream
		Datastream
		Datastream
		Datastream
		Datastream
		Datastream

Table II.

	Mean	Median	Maximum	Minimum	SD
AQ	0.043	0.029	0.389	0.000	0.046
<i>Panel A: Fees variables</i>					
AFEE	190921.600	125602.000	3843000.000	12000.000	271275.500
TFEE	240084.600	129000.000	5667000.000	21345.000	362915.500
NAS_RM	49162.950	19000.000	2412000.000	105.000	118677.500
TAX_RM	9263.320	0.000	1082000.000	0.000	58801.280
ARNAS_RM	18324.860	0.000	2412000.000	0.000	87476.180
OTHERS_RM	21574.770	0.000	1082000.000	0.000	67126.460
RECURRING_RM	43771.550	14600.000	2412000.000	0.000	116867.200
NON_RECUR_RM	5391.403	0.000	688000.000	0.000	28080.260
TAXRECUR_RM	8415.984	0.000	1082000.000	0.000	57397.810
TAX_NONRECUR_RM	847.335	0.000	356500.000	0.000	13317.550
ARNAS_RECUR_RM	15410.360	0.000	2412000.000	0.000	84446.230
ARNAS_NONRECUR_RM	2914.503	0.000	688000.000	0.000	24714.900
OTHERS_RECUR_RM	19945.200	0.000	1082000.000	0.000	66657.160
OTHERS_NONRECUR_RM	1629.565	0.000	210000.000	0.000	11306.960
NAS	0.179	0.140	0.888	0.001	0.150
TAXNAS	0.025	0.000	0.714	0.000	0.088
ARNAS	0.074	0.000	0.888	0.000	0.124
OTHERS	0.080	0.000	0.818	0.000	0.137
NAS_RECUR	0.155	0.104	0.888	0.000	0.152
NAS_NONRECUR	0.024	0.000	0.684	0.000	0.082
TAXNAS_RECUR	0.022	0.000	0.714	0.000	0.083
TAXNAS_NONRECUR	0.003	0.000	0.519	0.000	0.030
ARNAS_RECUR	0.061	0.000	0.888	0.000	0.115
ARNAS_NONRECUR	0.013	0.000	0.684	0.000	0.061
OTHERS_RECUR	0.071	0.000	0.818	0.000	0.133
OTHERS_NONRECUR	0.009	0.000	0.600	0.000	0.050
<i>Panel B: Corporate governance</i>					
IND	0.442	0.430	0.860	0.170	0.126
DUAL	0.308	0.000	1.000	0.000	0.442
ACFIN	0.420	0.330	1.000	0.000	0.194
ACIND	0.884	1.000	1.000	0.500	0.152
ACMEET	1.536	1.670	4.330	0.230	0.361
ACMEET (NUMBER)	4.818	5.000	13.000	1.000	1.034
ACMEET(LOG)	1.551	1.609	2.565	0.000	0.210
ACSIZE (NUMBER)	3.184	3.000	6.000	2.000	0.478
ACSIZE	1.148	1.099	1.792	0.693	0.133
<i>Panel C: Institutional variables</i>					
BUMI	0.315	0.250	1.000	0.000	0.288
FAMILY	0.557	1.000	1.000	0.000	0.497
POLCON	0.091	0.000	1.000	0.000	0.498
<i>Panel D: Control variables</i>					
BIG4	0.603	1.000	1.000	0.000	0.489
LOSS	0.152	0.000	1.000	0.000	0.359
DEBT	0.223	0.170	0.690	0.000	0.208
ASSET_RM ('000)	5,29,000	2,88,000	35,80,000	39,887	6,26,000

Table III.
Descriptive analysis
(2009-2011,
 $n = 1,117$)

(continued)

	Mean	Median	Maximum	Minimum	SD
ASSETS	19.536	19.479	21.997	17.502	1.049
MTB	0.837	0.596	20.564	0.000	1.248
CFO	0.081	0.068	6.858	-0.928	0.223
TCA	-0.015	-0.015	1.174	-0.922	0.130

Notes: Where AQ is the absolute value of the estimation error from the modified Dechow and Dichev model explained by Francis et al (2006). NAS is the non-audit fees deflated by total fee. Non-audit services are partitioned into TAXNAS, ARNAS and OTHERS. TAXNAS is tax-related non-audit fee deflated by total fees; ARNAS is the audit-related non-audit fees deflated by total fee, and OTHERS is other services non-audit fees deflated by total fees. NAS_RECUR is recurring non-audit services deflated by total fees; NAS_NONRECUR is nonrecurring non-audit services deflated by total fees; TAXNAS_RECUR is the recurring tax-related non-audit fees deflated by total fees; ARNAS_RECUR is the audit-related non-audit services deflated by total fees; ARNAS_NONRECUR is the audit-related non-audit services deflated by total fees; OTHERS_RECUR is the other services non-audit services deflated by total fees; OTHERS_NONRECUR is the other services non-audit fees deflated by total fees. ACFIN is an indicator of "1" if the audit committee is financially literate and also the number of audit committee that become the member of accounting association or "0" otherwise. ACIND is an indicator of "1" if all the audit committee is independent or "0" otherwise. ACMEET is proportion of audit committee meeting to the numbers of audit committee. ACSIZE is the log number of executive and non-executive director held in the firms. DUAL is the board of director duality, represent by dummy variable takes the value of "1" if the board of director holds both position of chairman and CEO and "0" otherwise. IND is the board of director independence, percentage of the independent non-executive director in the firm. BIG4 is an indicator variable that takes the value of "1" if the auditor is big 4 auditor, "0" otherwise. DEBT is the total debt deflated by total equity. FAMILY is the dummy variable if the firms are owned by more than one family member or "0" otherwise. BUMI is the proportion of Bumiputras board of director in the firms. LOSS is an indicator variable that takes the value of "1" if the firm recorded a loss in accounting return, "0" otherwise. POLCON is the dummy variables if the firms owned by politically connected firm, or "0" otherwise. ASSETS is the natural log of transformation of total assets. MTB is market-to-book, whereas CFO is cash flow from operations. TCA is total accruals.

Table III.

equity ratio is 0.223 (DEBT). Prior losses have been recorded by 15.2 per cent of the firms studied (LOSS), and the average size of sample firms is RM 529m.

6. Results

6.1 Univariate analysis

Table IV tabulates our correlations (Pearson- and Spearman-rank) for continuous variables. Positive and significant correlations exist between NAS, TAXNAS, ARNAS and OTHERS and accruals quality (AQ), which lends initial support to the theory that non-audit services create economic bonding and thus undermine independence. As expected, our non-audit services fee variables are positively and significantly correlated with each other. Two of our governance variables, IND and ACSIZE, are positively and significantly correlated with AQ, whereas a negative but insignificant correlation exists between ACMEET and AQ.

6.2 Accruals quality model

Untabulated results are provided of the dependent variable, where the Dechow and Dichev (2002) model is applied as modified by Francis et al (2005). As predicted, the coefficient of β_2 is negative, whereas those of β_1 and β_3 are positive. All three have a magnitude of less than 1. The higher coefficient of $CFO_{t,t+1}$, the future figure, over the coefficient of $CFO_{t,t-1}$, indicates that accruals in this sample have a stronger relationship with future cash flows than with previous flows. This result is supported by Srinidhi and Gul (2007). Of the change in sales, the coefficient reveals a positive sign with very significant value, in line with the argument that changes in sales are expected to have higher total current accruals. This

Table IV.
Correlation matrix
year 2009-2011
(N = 1,117)

Probability	1	2	3	4	5	6	7	8	9	10	11										
1 AQ																					
2 NAS	0.108***																				
3 IND	0.054**	0.115***																			
4 ACMEET	-0.025	0.046	0.046																		
5 ACSIZE	0.064**	0.005	0.070**	0.021																	
6 BUME	0.046	0.047	0.112***	-0.433***	0.051*																
7 DEBT	-0.070**	0.011	0.215***	0.068**	0.194***	0.042															
8 ASSETS	-0.075***	0.025	0.067***	0.078***	-0.078***	-0.053*	0.042														
9 MFB	0.128***	0.032	-0.021	-0.090***	0.156***	0.216***	0.106***														
10 CFO	0.016	0.052*	-0.062**	-0.024	0.029	0.000	0.108***	0.061**													
11 TCA	-0.044	-0.002	-0.001	-0.008	0.053*	0.010	-0.093***	0.174***	0.062**												
										0.053											
											0.018										
												0.118***									
													-0.099***								
														0.079***							
															0.004						
																-0.211***					
																	0.006				
																		0.274***			
																			0.139***		
																				0.024	
																					-0.038

Notes: Where AQ is the absolute value of the estimation error from the modified Dechow and Dichev model explained by Francis *et al.* (2005), NAS is the non-audit fees deflated by total fee, IND is the board of director independence, percentage of the independent non-executive director in the firm, ACMEET is the proportion of audit committee member to the numbers of audit committee, ACSIZE is the log number of executive and non-executive director held in the firms, BUME is the proportion of non-audit board of director in the firms, DEBT is the total debt deflated by total equity, ASSETS is the natural log of the transformation of total assets, MFB is market-to-book, whereas CFO is the cash flow from operations, TCA is total accruals. ***, ** and * denote significance at the 1%, 5% and 10% levels, respectively. The upper level represents Spearman rank and the lower level represents Pearson correlation.

result is in line with the modified Dechow and Dichev (2002) model: firms with a higher gross PPE are likely to be firms with high assets in place and the tendency to have vast amounts of current accruals.

6.3 Multivariate analysis

Table V presents our main set of regressions. Column 1 of Table V shows the main regression. A positive and significant relationship exists between NAS and AQ (0.029, $t = 3.055$, $p < 0.01$), which provides support to the argument that the provision of non-audit services creates economic bonding and thus reduces earnings quality. Our finding is similar to that of Dee *et al.* (2006), Lim *et al.* (2013), Frankel *et al.* (2002), Mande and Son (2015), Reynolds *et al.* (2004), and Srinidhi and Gul (2007), but is in contrast to that of Antle *et al.* (2006), Koh *et al.* (2013), and Larcker and Richardson (2004). In addition, this finding is in contrast to a recent Malaysian study by Abdul Wahab *et al.* (2014) that examines the relationship between non-audit fees and the likelihood of financial restatements.

Columns 2 to 5 of Table V present individual regressions based on the type of non-audit fees. We find a positive and significant relationship between TAXNAS, ARNAS and OTHERS and accruals quality. Our findings suggest that types of non-audit services create some economic dependence on the clients but do not generate knowledge spillover. The positive coefficients for OTHERS support the argument by Lai and Krishnan (2009) that the auditor could be reluctant to report material misstatements detected by the accounting or internal system that they designed. Our findings are in contrast to those of Abdul Wahab *et al.* (2014), Krishnan *et al.* (2013) and Paterson and Valencia (2011).

We find a positive and significant relationship between DUAL and AQ (0.004, $t = 1.279$, $p < 0.10$), which suggests that having the positions CEO and Chairperson held by the same person is detrimental to accruals quality. We find a positive and significant relationship between DEBT and AQ, but a negative and significant relationship between FAMILY and AQ. Columns 1 to 5 of Table V document a positive and significant relationship between POLCON and AQ, suggesting that firms with political connection affect accruals quality. This finding is in line with Abdul Wahab *et al.* (2011). The average variance inflation factor for this regression is 1.160, which suggests that it does not suffer from multicollinearity. Other variables remain statistically significant, similar to column 1 of Table V.

Table VI tabulates regressions for recurring and non-recurring non-audit fees. Column 3 presents a regression with both variables together. A positive and significant relationship exists for NAS_RECUR (0.027, $t = 2.737$, $p < 0.01$) and NAS_NRECUR (0.043, $t = 2.517$, $p < 0.05$). The nature of both non-audit services creates some form of economic bonding that decreases earnings quality. Our finding is in contrast to the analytical model of Beck *et al.* (1988a) but is similar to their empirical findings on recurring non-audit services (Beck *et al.*, 1988b). In addition, our finding on recurring non-audit services supports the argument raised by Causholli *et al.* (2014) that suggests that such an engagement creates economic bonding and could impair auditor independence, but differs from that of Alexander and Hay (2013), as one can view their result as an outcome of knowledge spillover. Interestingly, we find the same positive coefficients for non-recurring non-audit services against accruals quality. This supports the argument raised by Beck *et al.* (1988a) that non-recurring non-audit services undermine auditor independence.

We incorporate both types of non-audit services and recurring or non-recurring non-audit services simultaneously in Table VII. Columns 1 to 6 of Table VII present regressions with recurring and non-recurring types of non-audit fees, whereas column 7 presents the final regression with all variables. We find that TAXNAS_RECUR, ARNAS_RECUR and

Table V.
Auditor provided
non-audit services
and accruals quality

	Expected Direction				
	1	2	3	4	5
<i>Intercept</i>	0.069***	0.076**	0.068**	0.076**	0.067**
<i>NAS</i>	2.037	2.242	1.998	2.243	1.972
	0.029***				
	3.055	0.036**			0.049***
<i>TAXNAS</i>		2.060			2.737
<i>ARVAS</i>			0.018*		0.031**
<i>OTHERS</i>			1.571		2.530
<i>IND</i>	0.011	0.014	0.011	0.005	0.021**
	0.806	1.035	0.799	0.481	1.779
<i>DUAL</i>	0.004*	0.005*	0.005*	0.012	0.012
	1.268	1.394	1.430	0.862	0.907
<i>ACFIN</i>	-0.001	0.000	0.000	0.005*	0.004
	-0.174	-0.112	-0.102	1.437	1.256
<i>ACIND</i>	-0.001	-0.001	-0.001	0.000	0.000
	-0.185	-0.205	-0.216	-0.131	-0.145
<i>ACMEET</i>	0.001	0.001	0.001	-0.001	-0.001
	0.174	0.279	0.272	-0.247	-0.155
<i>ACSIZE</i>	0.015	0.015	0.018*	0.001	0.001
	1.127	1.139	1.332	0.001	0.196
<i>BUMI</i>	-0.004	-0.006	-0.005	0.005	0.015
	-0.632	-0.880	-0.735	-0.660	1.092
<i>FAMILY</i>	-0.003	-0.003	-0.003	-0.004	-0.003
	-0.873	-1.020	-1.018	-1.056	-0.859
<i>POUCCN</i>	0.011**	0.011**	0.011**	0.011**	0.011**
	1.886	1.906	1.935	1.942	1.865
<i>BIG4</i>	0.000	0.000	0.001	0.001	0.000
	-0.108	0.156	0.405	0.209	-0.042
<i>LOSS</i>	0.037***	0.037***	0.038***	0.037***	0.037***
	9.448	9.444	9.554	9.432	9.463
<i>DEBT</i>	-0.019***	-0.019***	-0.019***	-0.019***	-0.019***
	-2.604	-2.591	-2.625	-2.620	-2.586

(continued)

	Expected Direction	1	2	3	4	5
ASSETS	+	-0.003**	-0.003**	-0.003**	-0.003**	-0.003**
MTB	+	-1.777	-1.920	-1.776	-1.955	-1.712
		0.005***	0.005***	0.005***	0.005***	0.005***
CFO	+	4.795	4.782	4.828	4.854	4.741
		0.002	0.003	0.003	0.003	0.003
TCA	+	0.426	0.588	0.595	0.513	0.512
		0.008	0.009	0.009	0.008	0.009
		0.875	0.922	0.975	0.799	0.997
Period fixed		Yes	Yes	Yes	Yes	Yes
Industry fixed		Yes	Yes	Yes	Yes	Yes
Adjusted R ²		0.13	0.13	0.13	0.13	0.14
F statistic		8.58***	8.30***	8.18***	8.04***	8.02***
VIF Regression		1.36	1.17	1.16	1.36	1.38

Notes: Where AQ is the absolute value of the estimation error from the modified Dechow and Dichev model, explained by Francis *et al.* (2005). NAS is the non-audit fees deflated by total fee. Non-audit services are partitioned into TAXNAS, AMNAS and OTHERS. TAXNAS is tax-related non-audit fee deflated by total fees. AMNAS is the audit-related non-audit fees deflated by total fee and OTHERS is other services non-audit fees deflated by total fees. NAS, RECLR is recurring non-audit services deflated by total fees. NAS_NONRECLR is non-recurring non-audit services deflated by total fees. ACIND is an indicator of "1" if all the audit committee are independent or "0" otherwise. ACMBET is proportion of audit committee meeting to the numbers of audit committee. ACSIZE is the log number of executive and non-executive director held in the firms. DUAL is the board of director duality, represent by dummy variable takes the value of "1" if the board of director hold both position of chairman and CEO and "0" otherwise. IND is the board of director independence, percentage of the independent non-executive director in the firm. BFFD is an indicator variable that takes the value of "1" if the auditor is big 4 auditor, "0" otherwise. DEBT is the total debt deflated by total equity. FAMILY is the dummy variable if the firms are owned by more than one family member or "0" otherwise. BLMH is the proportion of Bumiputras board of director in the firms. LOSS is an indicator variable that takes the value of "1" if the firm recorded a loss in accounting return, "0" otherwise. POLCON is the dummy variables if the firm is politically connected firm or "0" otherwise. ASSETS is the natural log of transformation of total assets. MTB is market-to-book value. CFO is cash flow from operations. TCA is total accruals. *, ** and *** denote significant levels of 10, 5 and 1% based on one-tailed test, respectively, for directional predictions, while two-tailed tests for non-directional predictions (†). The general rule for the coefficients for the above-mentioned variables is positive if it reflects a decline in accruals quality, and thus impair auditor independence because an increase in *ex. post* denotes a decline in accruals quality. Negative coefficients for the above-mentioned variables then denotes an increase in accruals quality because a decrease in *ex. post* denotes an increase in accruals quality.

Table V.

	Expected Direction	1	2	3
C	?	0.072** 2.070	0.071** 2.042	0.166** 1.911
NAS_RECUR	+	0.009** 2.165		0.027***
NAS_NONRECUR	?		0.020** 1.742	0.042** 2.517
DNI	-	0.011 0.821	0.010 0.779	0.010 0.734
DUAL	+	0.004* 1.311	0.004* 1.476	0.004* 1.290
ACFIN	-	0.002 0.273	0.003 0.424	0.003 0.325
ACIND	-	-0.001 -0.096	0.000 -0.033	0.000 -0.037
ACMEET	-	0.001 0.278	0.001 0.212	0.001 0.212
ACSIZE	-	0.010 1.238	0.010 1.409	0.010 1.293
BUMI	+	-0.004 -0.549	-0.005 -0.712	-0.004 -0.621
FAMILY	-	-0.003 -0.832	-0.004 -1.072	-0.003 -0.862
POLCON	+	0.011** 1.948	0.011** 1.888	0.011** 1.808
BIG4	-	0.000 -0.014	0.001 0.121	0.000 -0.063
LOSS	+	0.037*** 9.304	0.037*** 9.332	0.037*** 9.312
DEBT	+	-0.019*** -2.569	-0.019*** -2.533	-0.019*** -2.543
ASSETS	+	-0.003** -1.503	-0.003** -1.534	-0.003** -1.508
MTB	+	0.000*** 4.643	0.000*** 4.762	0.000*** 4.708
CFO	+	0.001 0.507	0.001 0.212	0.001 0.264
TCA	+	0.001 0.145	0.001 0.043	0.001 0.078
Period Fixed		Yes	Yes	Yes
Industry Fixed		Yes	Yes	Yes
Adjusted R ²		0.130	0.128	0.152
F-statistic		8.243***	8.124***	8.203***
VIF Regression		1.152	1.149	1.160

Notes: Where AQ is the absolute value of the estimation error from the modified Dechow and Dichev model explained by Francis et al. (2005). NAS_NONRECUR is nonrecurring non-audit services deflated by total fees. ACFIN is an indicator of "1" if the audit committee is financially literate and also the number of audit committee that become the member of accounting association or "0" otherwise. ACIND is an indicator of "1" if all the audit committee are independent or "0" otherwise. ACMEET is proportion of audit committee meeting to the numbers of audit committee. ACSIZE is the log number of executive and non-executive director held in the firms. DUAL is the board of director duality, represent by dummy variable takes the value of "1" if the board of director hold both position of chairman and CEO and "0" otherwise. D is the board of director independence, percentage of the independent non-executive director in the firm. BIG4 is an indicator variable that takes the value of "1" if the auditor is big 4 auditor, "0" otherwise. DEBT is the total debt deflated by total equity. FAMILY is the dummy variable if the firms are owned by more than one family member or "0" otherwise. BUMI is the proportion of Bumiputras board of director in the firms. LOSS is an indicator variable that takes the value of "1" if the firm recorded a loss in accounting return, "0" otherwise. POLCON is the dummy variables if the firm is politically connected firm, or "0" otherwise. ASSETS is the natural log of transformation of total assets. MTB is market-to-book while CFO is cash flow from operations. TCA is total accruals. *, ** and *** denote significant levels of 10, 5 and 1% based on one-tailed test respectively for directional predictions, while two-tailed tests for non-directional predictions (?). The general rule for the coefficients for the above-mentioned variables is positive if it reflects a decline in accruals quality, and thus impair auditor independence (because an increase in $v_{i,t}$ denotes a decline in accruals quality). Negative coefficients for the above-mentioned variables then denotes an increase in accruals quality (because a decrease in $v_{i,t}$ denotes an increase in accruals quality).

Table VI.
Recurring vs non-recurring non-audit services and accruals quality

	Expected Direction						
	1	2	3	4	5	6	7
INTERCEPT	?	0.073** 2.104	0.070** 2.009	0.072** 2.067	0.073** 2.145	0.073** 2.089	0.065** 1.846
TAXNAS_RECUR	?	0.002* 1.818					0.047** 2.540
TAXNAS_NONRECUR	?		0.044 1.046				0.065 1.519
ARNAS_RECUR	?		0.014 1.142				0.029** 2.199
ARNAS_NONRECUR	?			0.024 1.112			0.039 1.780*
OTHERSRECUR	?				0.003 0.252		0.019 1.536
OTHERS_NONRECUR	?					0.023 0.855	0.041 1.524
AND	-	0.013 0.942	0.012 0.883	0.011 0.821	0.011 0.824	0.011 0.836	0.012 0.858
DUAL	+	0.005 1.299	0.005 1.469	0.005 1.423	0.005 1.444	0.005 1.467	0.004 1.279
ALFPA	-	0.003 0.352	0.003 0.353	0.003 0.310	0.003 0.331	0.003 0.366	0.003 0.333
ACTND	-	-0.001 -0.054	-0.001 -0.117	-0.001 -0.105	-0.001 -0.102	-0.001 -0.074	0.000 0.026
ACMBET	-	0.002 0.362	0.001 0.237	0.001 0.295	0.001 0.329	0.001 0.323	0.001 0.229
SZKZ	-	0.017 1.313	0.017 1.283	0.018 1.376	0.018 1.359	0.018 1.388	0.016 1.184
BTMT	+	-0.005 -0.776	-0.005 -0.689	-0.005 -0.667	-0.004 -0.657	-0.005 -0.672	-0.005 -0.789
FAMILY	-	-0.003 -0.970	-0.003 -1.017	-0.003 -0.938	-0.003 -1.070	-0.003 -1.008	-0.003 -0.825
FULLCN	+	0.011* 1.917	0.012** 2.030	0.011** 1.977	0.011** 1.982	0.011** 1.956	0.011** 1.902
BFG4	-	0.001 0.162	0.001 0.207	0.001 0.251	0.001 0.238	0.001 0.239	0.000 -0.011
LOSS	+	0.037*** 9.290	0.037*** 9.363	0.037*** 9.389	0.037*** 9.327	0.037*** 9.342	0.037*** 9.316

(continued)

Accruals
quality in
Malaysia

Table VII.
Types, recurring
non-audit services
and accruals quality

Table VII.

	Expected Direction						
	1	2	3	4	5	6	7
DEBT	-0.019**	-0.019**	-0.019**	-0.019**	-0.019**	-0.019**	-0.018**
	-2.544	-2.566	-2.567	-2.575	-2.571	-2.553	-2.512
ASSETS	-0.003**	-0.003**	-0.003**	-0.003**	-0.003**	-0.003**	-0.003**
	-1.958	-1.986	-1.873	-1.953	-1.987	-1.962	-1.747
MTH	0.006***	0.006***	0.006***	0.006***	0.006***	0.006***	0.006***
	4.640	4.723	4.733	4.673	4.691	4.755	4.687
CFO	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	0.458	0.446	0.446	0.469	0.440	0.270	0.193
TUA	0.002	0.001	0.002	0.001	0.001	0.001	0.002
	0.154	0.144	0.218	0.058	0.081	0.074	0.216
Period Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Industry Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjusted R squared	0.129	0.126	0.127	0.127	0.126	0.126	0.133
F statistic	8.180***	8.025***	8.051***	8.035***	7.977***	8.005***	7.127***
N	1154	1151	1150	1148	1154	1154	1174

Notes: Where AQ is the absolute value of the estimation error from the modified Dechow and Dichev model explained by Francis et al. (2005), NAS_RECUR is recurring non-audit services deflated by total fees; NAS_NONRECUR is nonrecurring non-audit services deflated by total fees; TAXNAS_RECUR is the recurring tax-related non-audit fees deflated by total fees; ARNAS_RECUR is the audit-related non-audit services deflated by total fees; ARNAS_NONRECUR is the audit-related non-audit services deflated by total fees; OTHERS_RECUR is the other services non-audit services deflated by total fees; OTHERS_NONRECUR is the other services non-audit fees deflated by total fees; ACPIN is an indicator of "1" if the audit committee is financially literate and also the number of audit committee that become the member of accounting association or "0" otherwise; ACIND is an indicator of "1" if all the audit committees are independent or "0" otherwise; ACMBEET is proportion of audit committee meeting to the numbers of audit committee; ACSIZE is the log number of executive and non-executive director held in the firms; DUAL is the board of director duality, represent by dummy variable takes the value of "1" if the board of director hold both position of chairman and CEO and "0" otherwise; IND is the board of director independence, percentage of the independent non-executive director in the firm; BIG4 is an indicator variable that takes the value of "1" if the auditor is big 4 auditor, "0" otherwise; DEBT is the total debt deflated by total equity; FAMILY is the dummy variable if the firms are owned by more than one family member or "0" otherwise; BOMI is the proportion of Board members board of director in the firms; LOSS is an indicator variable that takes the value of "1" if the firm recorded a loss in accounting return, "0" other; POLCON is the dummy variables if the firm is politically connected firm, or "0" otherwise; ASSSETS is the natural log of transformation of total assets; MTH is market-to-book while CFO is cash flow from operations; TUA is total accruals; *; ** and *** denote significant levels of 10, 5 and 1% based on one-tailed test respectively for directional predictions, while two-tailed tests for non-directional predictions (?). The general rule for the coefficients for the above-mentioned variables is positive if it reflects a decline in accruals quality, and thus implies auditor independence decrease an increase in accruals quality, and a decrease in accruals quality. Negative coefficients for the above-mentioned variables then denotes an increase in accruals quality (because a decrease in v_{it} denotes an increase in accruals quality)

OTHERS_RECUR non-audit services are positively and significantly associated with accruals estimation error, which affects accruals quality negatively. A positive and significant relationship results only between *ARNAS_NONRECUR* and accruals error and is therefore negatively associated with accruals quality. Our results suggest that all recurring and different types of non-audit services could undermine auditor independence.

6.4 Additional tests

6.4.1 Auditor size. We extend the analysis by examining the relationship between non-audit fees and accruals quality for Big 4 and non-Big 4 auditors [8]. DeAngelo (1981) argues that accounting firm size is a proxy for auditor independence because no single client is important to a large auditor, and the auditor's greater reputation is at stake if they misreport. By contrast, an accounting firm with only one client may conclude that they have more to gain by complying with the client's demand and that this affects the audit quality (Francis *et al.*, 2004). In addition, larger audit firms could lose more significantly by succumbing to client pressure, and these results in a higher degree of independence (Notbohm *et al.*, 2015). Larger audit firms have better material misstatement abilities, better opportunities to specialize and receive better training in the audit process, which suggests that larger firms provide better audit quality (Notbohm *et al.*, 2015).

Notbohm *et al.* (2015) provide two reasons why joint provisions of non-audit and audit services by smaller firms provide a higher audit quality. First, differences in audit expertise between small and large audit firms suggest that smaller firms could benefit even more from non-audit services that are provided to the client. Second, in general, larger firms have a greater separation between audit and non-audit personnel than smaller firms, which suggests that knowledge spillover may transfer easier in smaller firms. Notbohm *et al.* (2015) find that smaller firms that provide tax services have a negative relationship with financial restatements.

The premise of this test relies on the fact that the level of auditor independence depends on the identity of the auditor being Big 4 and non-Big 4. Our non-tabulated results suggest that non-audit fees that are provided by either the Big 4 or non-Big 4 affect accruals quality negatively [9].

We extend the analysis by examining the types of non-audit services. We find that *TAXNAS* and *ARNAS* decrease accruals quality when these services are provided by non-Big 4 auditors. This finding supports the argument by DeAngelo (1981) that smaller auditors value non-audit services and have more to gain by complying with their client's demand and suggests a decrease in accruals quality.

6.4.2 Politically connected firms. Given the background of political connections in Malaysia, we perform additional analysis by separating the sample between politically connected firms (*POLCON* = 1) and non-politically connected firms (*POLCON* = 0). Our untabulated results show that the *NAS* fees are negatively and significantly associated with accruals quality only for connected firms. The extended analysis finds *ARNAS* is negatively and significantly associated with connected firms.

6.4.3 Firm size effect. Following Srinidhi and Gul (2007), we perform additional analysis on the size effect. A possible issue with the use of non-audit fee sizes is whether the results are driven mainly by the size of the client firms, and so the fee magnitudes are reflected in this rather than in economic bonding. The earlier result that is tabulated in Table VII proves that a non-audit fee has negative associations with accrual quality; if that fee merely reflected the firm size, their associations with accrual quality would have the same sign.

We find a negative and significant coefficient for the interaction terms *NAS * ASSETS* (-0.019, $t = -2.032$, $p < 0.05$), which suggests that the positive relationship between *NAS*

and accruals quality is less for bigger firms. We observe similar results for TAXNAS and ARNAS non-audit services, but not for OTHERS. Further investigation of recurring and non-recurring non-audit services fees shows that the positive relationship is weaker only for NAS_RECUR and not for NAS_NRECUR. There has been no change in the standalone non-audit fee variables when we run the interaction terms.

6.4.4 Use of indicators instead of continuous variables. This study repeats the main regression using indicator variables for the magnitude of non-audit fees. In all cases, we represent below-median values of fee variables with an indicator variable value of 0 and above-median values of 1. This study uses indicator variables to test for the possibility of a threshold level of non-audit fees, above which the benefit to the auditor of retaining the client is higher than any expected cost from litigation and loss of reputation. If this is the case, changes in fees in the regions that lie entirely above or below the threshold level will be inconsequential, and the indicator variables more appropriately confine the effect of fee variables on accrual quality.

We find a positive and significant relationship between NAS (which is equal to 1 if it exists above the median) and accruals quality, which suggests that higher levels of non-audit service have a negative impact on accruals quality. A similar approach to the types of non-audit services fees provided yields results that are similar to those for tax-related non-audit services.

6.4.5 Separate analysis for low and high levels of non-audit fees. Following Snidhi and Gul (2007), this study examines whether the effects of fee variables vary with fee levels. To investigate differences in effect, this study splits the sample into two subsamples for each variable at its median value. For example, the samples are divided into a below-median non-audit service subsample and an above-median non-audit services subsample, and the effect of the non-audit services is examined within each of the two subsamples. We find a positive and significant relationship between NAS and accruals quality for samples that have non-audit services above the median value, that is, differences exist between these two subsamples.

7. Conclusion

This study contributed to the literature on the role of non-audit services and how they affect accruals quality. Similar to Paterson and Valencia (2011), we add a multi-period dimension while retaining the distinction between fee types. Our results show that auditor-provided non-audit services affect accruals quality negatively, which suggests that these services create economic bonding and undermine independence. Recurring and non-recurring non-audit services affect accruals quality negatively. All types of recurring non-audit services affect accruals quality adversely. Only recurring audit-related services decrease accruals quality. This is a useful addition to the current debate on the role of non-audit services in Malaysia. The findings in this paper are in contrast to Abdul Wahab *et al.*'s results (2014), provide motivation to push for a regulative approach to the provision of non-audit services by incumbent auditors and imply that further refinements are warranted as related to the types of service that may be offered by auditors as non-audit services. The findings could suggest a refinement on the MIA by-laws focusing on auditor independence, and these could assist other regulative bodies such as the Securities Commission the stock exchange (Bursa Malaysia) in ensuring better governance on the provision of non-audit services. Further studies need to be conducted in order for Malaysia to follow the USA in restricting the requirements of non-audit services, as the current evidence is rather scarce.

Notes

1. Please refer to Principle 5, Uphold Integrity in Financial Reporting in the Revised Code of Corporate Governance under Recommendation 5.2.
2. A prediction of a negative relationship will result in positive coefficients for non-audit fees.
3. Examples of other-related non-audit services are a review of statement of internal control and Financial Reporting Standard conversion study. These services are usually not part of the services permitted by MIA by-laws. However, where a specific service is not addressed in the by-laws, the general provisions that deal with professional independence would apply.
4. Our results remain robust with the Dechow and Dichev (2002) model of accruals quality.
5. Because three years of data are used, we do not consider non-audit fees of a similar type that firms purchased in 2009 and again in 2011, as recurring. The reason for this pattern may be that a different type of NAS was purchased in 2010, or it is possible that the data were unavailable in 2010.
6. For the sake of brevity, we do not report the industries and period dummy coefficients. Results can be obtained from the corresponding author.
7. The data is in Ringgit Malaysia (RM), the currency of Malaysia.
8. For the sake of brevity, tables for these tests are not tabulated. They are available from the corresponding author.
9. A test of differences of mean and median between Big 4 and Non-Big 4 auditors indicates that firms that are audited by Big 4 auditors purchase significantly higher non-audit fees.

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PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12

PAGE 13

PAGE 14

PAGE 15

PAGE 16

PAGE 17

PAGE 18

PAGE 19

PAGE 20

PAGE 21

PAGE 22

PAGE 23

PAGE 24

PAGE 25

PAGE 26

PAGE 27

PAGE 28

PAGE 29
