Determinants of narrative risk disclosures in UK interim reports

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Abstract

Purpose – The purpose of this paper is to contribute to the existing disclosure literature by examining the determinants of narrative risk information in the interim reports for a sample of UK non-financial companies.

Design/methodology/approach – This study uses the manual content analysis to measure the level of risk information in interim report narrative sections prepared by 72 UK companies. It also uses the ordinary least squares regression analysis to examine the impact of firm-specific characteristics and corporate governance mechanisms on narrative risk disclosures.

Findings – The empirical analysis shows that large firms are more likely to disclose more risk information in the narrative sections of interim reports. In addition, the analysis shows that industry activity type is positively associated with levels of narrative risk disclosure in interim reports. Finally, the analysis shows statistically insignificant impact of other firm-specific characteristics (liquidity, gearing, profitability, and cross-listing) and corporate governance mechanisms on narrative risk disclosure.

Practical implications – The study’s findings have practical implications. It informs investors about the characteristics of UK companies that disclose risk information in their interim reports. For example, the findings show that narrative risk disclosures are affected by firm size and industry type rather than firms’ risk levels (e.g., financing risk measured by the gearing ratio or liquidity risk measured by lower liquidity ratios). Practical implications for managers from these findings are that, in order to keep investors satisfied, companies with high levels of financing and liquidity risks should look at investors’ demands for risk disclosure. This will help investors when making their investment decisions.

Originality/value – The determinants of narrative risk disclosure in interim reports have not been explored so clearly in prior research and, therefore, this paper is the first of its kind to examine this research issue for a sample of UK companies.

Keywords United Kingdom, Information disclosure, Financial reporting, Reports, Risk management, Interim reports, Content analysis, Narrative risk disclosure

Paper type Research paper

1. Introduction

The changes in business environment make firms more relying on financial instruments and international transactions, which raise the importance of corporate risk disclosure (CRD), especially in non-financial firms (Dobler, 2008). Companies try to satisfy accounting information users’ needs by disclosing more information about different risks being faced and the sustainability of their operations. Such information helps the users to assess the present and the future risk, which is essential to optimise their revenues, by holding well diversified portfolios (Abraham and Cox, 2007). Solomon et al. (2000)
showed a strong demand for increased CRD from institutional investors to improve portfolio-investment decisions. Risk disclosure helps in investors’ investment decisions-making process by evaluating the information disclosed by a firm in order to establish levels of various risks it faces, then; their decision will be taken based on expected return and risk considerations (Cabedo and Tirado, 2004). Moreover, CRD will lead to a better risk management, as well as improvement of accountability for stewardship, investor protection, and the usefulness of financial reporting (ICAEW, 1997). This would help financial reports’ users to identify potential managerial problems (or opportunities) and assess management’s effectiveness in dealing with these issues (Lajili and Zéghal, 2005). On the other hand, companies also benefit from risk disclosure by reducing the possibility of financial failure (Beretta and Bozzolan, 2004); it also can make a decline in the cost of external finance (Linsley and Shrives, 2006).

Despite of recent increase in risk research, prior CRD studies focused on CRD determinants in the annual reports (Abraham and Cox, 2007; Beretta and Bozzolan, 2004; Hassan, 2009; Lajili and Zéghal, 2005; Linsley and Shrives, 2000, 2005, 2006; Marshall and Weetman, 2002, 2007; Rajab and Handley-Schachler, 2009; Elshandidy et al., 2011; Vandemele et al., 2009) and/or for companies listed in regulated risk reporting environments (Hodder and McAnally, 2001; Jorgensen and Kirschenheiter, 2003, 2007; Jorion, 2002; Linsmeier et al., 2002; Rajgopal, 1999). Our paper aims at investigating the factors affecting CRD in UK interim reports. To the best of our knowledge; there is no study that provides empirical evidence concerning the determinants of CRD level in these reports. It would be interesting to investigate those determinants in such setting for two reasons. First, most mandatory rules are concerning disclosure of financial risks and internal control assessment. The absence of an integrated framework for CRD, beside the non-mandatory approach of corporate governance (CG) provisions in the UK, affects CRD level to be basically determined by management decisions. Hence, it is important to explore the possible drivers to extend or reduce CRD level. Second, the interim report is considered as an effective mechanism to improve mangers voluntary disclosure decisions (Healy and Palepu, 2001). The timeliness plays an important role to make interim reports more informative. Investors and analysts usually rely on these reports either in making their assessments, or in updating their prior expectations (Cornell and Landsman, 1989; Landsman and Maydew, 2002). In the UK, a half-yearly interim report is a requirement of London Stock Exchange. In addition, the Accounting Standard Board (ASB) provides voluntary best practice guidance for companies in its statement on interim reports (ASB, 1997). Moreover, the International Accounting Standards (IAS 34) was issued in 1998 to improve interim reports disclosure (International Accounting Standards Committee, 1998). However, disclosure requirements according to those regulations are generally less than those required in the annual reports. For the interests of timeliness and cost considerations, companies are allowed to not include all of the disclosures required by the full set of International Financial Reporting Standards (IAS 34, par.18). Therefore, not all of the supplementary notes in the annual report are required for interim reporting purposes. Furthermore, companies can select to prepare condensed interim reports rather than complete ones. Based on this option, more chances are given to voluntarily disclose on risk information. That interesting environment motives us to examine CRD determinants in the interim reports of UK companies. We draw on agency and signalling theories to examine the determinants of narrative risk disclosures in these reports.
The remainder of our paper is organised as follows. Section 2 reviews relevant literature and develops our hypotheses. Section 3 discusses the research methodology. Section 4 presents the empirical analysis. Section 5 concludes.

2. Literature review and hypotheses development
Prior research argued that a joint consideration of disclosure theories should be of great help in explaining a particular phenomenon by providing richer insights into the understanding of corporate disclosure practices, thus disclosure theories should be considered as complementary rather than competing (Carpenter and Feroz, 1992). Similarly, Morris (1987) argues that there is a consistency between both of agency theory and signalling theory. He suggests that a combination between them could get a better prediction of accounting choices. Therefore, agency and signalling theories are used together to explain the determinants of CRD. To reduce agency problems; managers have to present relevant information to prove their acting in the interests of the shareholders and debt holders (Healy and Palepu, 2001). The provision of reliable information about risk by the management (the insider who has risk information) to the investors and debtholders (the outsiders who usually do not have that information) will reduce information asymmetry problem. Whereas, signalling theory explains managers’ incentives to disclose more information in the accounting reports (Hughes, 1986; Haniffa and Cooke, 2002). Based on this theory, managers disclose adequate information in the financial reports in order to convey specific signals to current and potential users. Hughes (1986) argued that this kind of communication is credible to the investors because managers with fraudulent signals will be penalised. In the present paper, we use both agency and signalling theories to identify the potential drivers of risk information in interim reports. In developing our research hypotheses, we look at the potential association between firm characteristics, CG mechanisms and risk reporting.

2.1 Firm characteristics and CRD
Several empirical studies provide evidence that various other firm characteristics affect corporate disclosure levels (Table I). This group of characteristics contains six variables namely: sector type, size, cross listing, profitability, liquidity, and gearing.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Association sign based on prior research</th>
<th>Examples for prior studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity type</td>
<td>+</td>
<td>Cooke (1992), Mangena and Pike (2005)</td>
</tr>
<tr>
<td>Profitability</td>
<td>±</td>
<td>Wallace et al. (1994), Hussainey and Al-Najjar (2011)</td>
</tr>
<tr>
<td>Gearing</td>
<td>±</td>
<td>Ahmed and Courtis (1999)</td>
</tr>
</tbody>
</table>

Table I. Firm characteristics and their expected relationship with CRD disclosure based on prior studies
disclosure (Cooke, 1992; Mangena and Pike, 2005). In risk reporting studies, Beretta and Bozzolan (2004) and Rajab and Handley-Schachler (2009) found that risk reporting differs among different industry sectors. Signalling theory suggests that firms in the same industry sector are more likely to adopt the same level of disclosure (Aly et al., 2010). If a company within an industry fails to follow the same disclosure practices as others in the same industry, then it may be interpreted as a signal of hiding bad news (Craven and Marston, 1999). We predict that CRD in interim reports would be affected by different types of businesses. Different industries would be influenced by different and unique constraints in their business environment. Consequently, risks types and levels will differ among sectors according to complexity in value creation activities and the extent of risk exposure in each sector environment. Based on signalling theory and prior risk reporting studies, we formulate our first hypothesis as follows:

\[ H1. \] The level of CRD in interim reports differs among industrial and service sectors.

2.1.2 Firm size. According to agency theory, larger firms need to disclose more information to different user groups which lead to a decline in agency costs and to reduce information asymmetries (Watts and Zimmerman, 1983; Inchausti, 1997). Meanwhile, those companies have enough resources to afford the cost of additional disclosure production. Prior disclosure studies found a positive relationship exists between a firm size and its level of disclosures (Hossain et al., 1995; Mangena and Pike, 2005; Hassan et al., 2006).

In prior CRD studies, the association between firm size and risk reporting is mixed. For example, while Beretta and Bozzolan (2004), Elshandidy et al. (2011), and Vandemele et al. (2009) found a positive association between firm size and levels of CRD, Hassan (2009) and Rajab and Handley-Schachler (2009) found insignificant association between the two variables. We anticipate that large firms rely on external finance; hence, they have incentives to disclose more risk information to send a good signal to investors and creditors about their ability to manage risk. In addition, large firms have sufficient resources to cover the cost of additional risk disclosures. Therefore, based on agency theory, we formulate the second hypothesis as follows:

\[ H2. \] Large firms are more likely to disclose more risk information in their interim reports than small firms.

2.1.3 Cross listing. Taylor et al. (2010) found that overseas stock exchange listing is negatively associated with financial risk management disclosure patterns. This result is inconsistent with prior literature that found a positive association between disclosure and cross-listing (Mangena and Pike, 2005; Rajab and Handley-Schachler, 2009). Cross-listing gives firms many chances to make access to many alternative sources of finance. Even if, there is a different regulatory frameworks which require additional risk disclosures, directors will have incentives to provide more risk information in the financial reports. In order to make their securities more attractive, directors need to send good signals about different risks, risk management activities, and operations’ sustainability. Prior risk reporting studies shows a positive association between cross-listing and levels of disclosure (Rajab and Handley-Schachler, 2009). Based on signalling theory and prior risk reporting studies, we formulate the third hypothesis as follows:
H3. CRD levels in interim reports for UK firms with a US-dual listing are higher than those without a US-dual listing.

2.1.4 Profitability. Ahmed and Courtis (1999) showed that prior studies results provide mixed evidence on the association between firm’s profitability and level of corporate disclosure. Regarding risk disclosure studies, Vandemele et al. (2009) reported a negative relationship between profitability and risk disclosure level, while Elshandidy et al. (2011) report a positive association. Nonetheless, agency theory expects that managers of companies with high profitability would tend to provide more risk information in the interim reports, in order to justify their present performance to the shareholders. Based on agency theory, we formulate our fourth hypothesis as follows:

H4. CRD levels in interim reports for companies with high-profitability figures are greater than those companies with low-profitability figures.

2.1.5 Liquidity. According to signalling theory, companies’ managers will disclose more information if their liquidity ratios are high, to distinguish their skills in managing liquidity risks comparing with other managers in companies with lower liquidity ratios. Although prior research on the association between liquidity and corporate disclosure is limited, the results are mixed. For example, Wallace et al. (1994) found a negative association suggesting that companies with lower liquidity provide more information in their annual reports. On the other hand, Mangena and Pike (2005) found no statistically significant association between disclosure levels in interim reports and liquidity. In risk disclosure literature, the results are also consistent with signalling theory. For example, Marshall and Weetman (2007) and Elshandidy et al. (2011) found that high-liquidity firms provide more risk information to send positive signals to investors. Based on signalling theory and relevant risk studies, we formulate our fifth hypothesis as follows:

H5. CRD levels in interim reports for companies with high-liquidity ratios are greater than those companies with low-liquidity ratios.

2.1.6 Gearing. Based on agency theory, agency costs are higher in highly leveraged firms. To reduce these costs; companies need to disclose more information to satisfy the need of creditors (Jensen and Meckling, 1976). Moreover, managers tend to provide more risk management information in order to send a good signal to debtholders regarding the corporate ability to meet its obligations. Empirical evidence on the association between the gearing and CRD is mixed. While, Deumes and Knechel (2008), Elshandidy et al. (2011), Hassan (2009), Marshall and Weetman (2007), and Taylor et al. (2010) found a positive relationship between the two variables, Abraham and Cox (2007), Linsley and Shrive (2006), and Rajab and Handley-Schachler (2009) found insignificant association between the two variables. Based on agency theory, we formulate our sixth hypothesis as follows:

H6. Highly gearing companies are more likely to disclose more risk information in their interim reports compared with low-gearing companies.

2.2 CG and CRD
For the CG mechanisms, Taylor et al. (2010) argued that firms with strong CG structure are more effective in financial risk management; that is reflected as enhanced financial risk management disclosures. To examine the association between CG mechanisms
and CRD in interim reports; we use the following variables institutional ownership, board size, role duality, board independence, and audit committee (AC) size. Table II summarises the expected signs between CRD reporting and the various CG explanatory factors used in this study.

2.2.1 Institutional ownership. Agency theory predicts that ownership structure affects the level of monitoring in the firm; therefore, it has an impact on the level of corporate voluntary disclosure (Eng and Mak, 2003). The relationship between institutional ownership and disclosure has been examined in prior studies, the empirical evidence, however, is mixed. While Schadewitz and Blevins (1998) found a negative association between institutional ownership and disclosure level in interim disclosures, Mangena and Pike (2005) found a positive association between the two variables. Eng and Mak (2003), on the other hand, found insignificant relationship between the two variables. Companies with a concentrated ownership structure do not have to disseminate more risk information, because the main shareholders can easily obtain it, as they usually have access to that information. Based on agency theory, we formulate our seventh hypothesis as follows:

\[ H7. \text{ There is a negative relationship between CRD levels in interim reports and institutional ownership.} \]

2.2.2 Board size. Board of directors plays an important role in the CG of publicly listed companies. However, it is argued that UK boards play a much weaker monitoring role as a result of CG soft regulation in the UK which allow firms to choose the board size most appropriate for their own needs (Guest, 2008). Agency theory predicts that larger boards incorporate a variety of expertise which results in more effectiveness in boards’ monitoring role (Singh et al., 2004). Based on that argument; it is predicted that a positive association between board size and CRD, as larger boards’ members would have more incentives to signal their risk management performance to the firm shareholders. Moreover, the large board will help in increasing the number of members who have financial and accounting background, which could affect mangers voluntary disclosure decisions and extend CRD level. Based on agency theory, we formulate our eighth hypothesis as follows:

\[ H8. \text{ There is positive association between board size and CRD levels in the interim reports.} \]

<table>
<thead>
<tr>
<th>CG mechanisms</th>
<th>Association sign based on prior research</th>
<th>Examples for prior studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional ownership</td>
<td>±</td>
<td>Eng and Mak (2003), Mangena and Pike (2005)</td>
</tr>
<tr>
<td>Duality role</td>
<td>±</td>
<td>Forker (1992), Haniffa and Cooke (2002), Ho and Wong (2001)</td>
</tr>
<tr>
<td>Size of the board</td>
<td>±</td>
<td>Singh et al. (2004), Lakhal (2005), Abdel-Pattah et al. (008)</td>
</tr>
<tr>
<td>Size of AC</td>
<td>+</td>
<td>Felo et al. (2003), Mangena and Pike (2005), Tauringana and Mangena (2009)</td>
</tr>
</tbody>
</table>

Table II. CG mechanisms and their expected relationship with CRD disclosure based on prior studies
2.2.3 Role duality. Role duality occurs if the chief executive officer (CEO) holds the chairman position in the same time. Concentration of decision-making power resulting from role duality could impair the board’s governance role regarding disclosure policies (Li et al., 2008). The results of previous studies that examined the relationship between role duality and disclosure were mixed. For instance, some studies reported a negative relationship between role duality and corporate voluntary disclosure (Forker, 1992; Haniffa and Cooke, 2002). Other studies found insignificant association between CEO duality and voluntary disclosure in general (Ho and Wong, 2001) and risk reporting in particular (Vandemele et al., 2009). Based on these mixed arguments, we formulate our ninth hypothesis as follows:

\[ H9. \] There is a relationship between role duality and CRD levels in interim reports.

2.2.4 Board composition. Based on agency theory, the monitoring role of the board is to ensure that corporate management pursues shareholder interests. Outsider directors are expected to provide independent advices to executive directors. The boards with a higher proportion of non-executive directors are expected to be more effective in performing monitoring role; and thereby affect positively on accounting reporting quality; as they aim to signal their competence to other potential employers (Fama and Jensen, 1983). Prior studies on the association between board composition and disclosure are mixed. Some studies found insignificant relationship between the two variables (Ho and Wong, 2001; Haniffa and Cooke, 2002; Vandemele et al., 2009), while others found a positive relationship (Forker, 1992; Cheng and Courtenay, 2006; Abraham and Cox, 2007). Based on agency theory, we formulate out tenth hypothesis as follows:

\[ H10. \] There is a positive relationship between the proportion of non-executive directors in the board and the levels of CRD.

2.2.5 AC size. Financial Reporting Council (2010), the combined code, recommends that the AC should involve at least three, or in the case of smaller companies two, independent non-executive directors. Smith Committee Report (2003), states that AC should review the company’s internal financial control system as well as risk management systems. Mangena and Pike (2005) suggested that larger ACs give rise to more effective monitoring, since it is more likely to involve the necessary of expertise and views to do that. Prior research on the association between AC size and disclosure offered mixed results. While Mangena and Pike (2005) found insignificant association between the two variables, Felo et al. (2003) found a positive relationship. Based on these mixed arguments, we formulate our 11th hypothesis as follows:

\[ H11. \] There is a relationship between AC size and CRD levels in interim reports.

3. Methodology

3.1 Sample and data
Our sample consists of the interim reports for the FTSE 100 UK non-financial firms. Following Beretta and Bozzolan (2004), Linsley and Shrives (2006), and Abraham and Cox (2007), financial companies (e.g. banks and insurance companies) were removed from the sample, since they have specific characteristics together with different
framework for disclosure practices according to their regulations. We choose interim reports published between 1 June 2009 and 31 May 2010. Interim reports are collected from companies’ homepages. Companies that only upload presentations for their interim results are excluded. We also exclude companies with missing accounting and CG information. This gives us a final sample of 72 UK companies.

3.2 Regression model

We use the following ordinary least squares (OLS) regression model to examine the relationship between CRD in the interim reports and both of firm characteristics and CG mechanisms:

$$\text{CRD} = \beta_0 + \beta_1 \text{Industry} + \beta_2 \text{Size} + \beta_3 \text{Prof} + \beta_4 \text{Gear} + \beta_5 \text{Liq} + \beta_6 \text{Croslist} + \beta_7 \text{Inst} + \beta_8 \text{Dual} + \beta_9 \text{Bsize} + \beta_{10} \text{Nonexc} + \beta_{11} \text{AC size} + \varepsilon$$

where:

- $\text{CRD}$ = risk disclosure score.
- $\beta_0$ = the intercept.
- $\beta_1$ to $\beta_{11}$ = regression coefficients.
- $\varepsilon$ = error term.

3.2.1 Dependent variable: risk disclosure score. Following prior studies (Linsley and Shrives, 2006; Rajab and Handley-Schachler, 2009), content analysis has been employed to measure the level of risk disclosure in the interim reports. We use the number of risk-related sentences as a measure of risk disclosure levels. Following Linsley and Shrives (2006), a broad definition of risk is adopted to identify risk disclosures. Therefore, sentences are to be coded as risk disclosures if the reader is informed of any opportunity or prospect, or of any hazard, danger, harm, threat or exposure, that has already impacted or may impact upon the company, as well as the management of any such opportunity, prospect, hazard, harm, threat, or exposure. However, disclosures should be explicitly stated and they cannot be implied, so any disclosure is not recorded as a risk disclosure when it is too vague. Whereas, any disclosure that is repeated is considered as a risk disclosure sentence each time it is mentioned. Furthermore, both authors coded a sample of interim reports independently to ensure consistency in applying those rules, no disagreement between the authors exist. We calculate an aggregated score for risk disclosure for each firm by counting the number of risk-related sentences in the UK interim reports.

3.2.2 Independent variables. To examine the determinants of CRD, we collect firm characteristics and CG information from different sources. Table I summarises the measurement and definition of those variables (Table III).

3.3 Descriptive analysis

Table II presents the descriptive statistics. Panel A reports the descriptive analysis for the continuous variables. Panel A shows a number of observations. First, it shows that the mean total risk disclosure is 28 sentences. Second, it also shows that there is a large variation in risk reporting between firms with a minimum of five sentences, a maximum of 110 sentences. Panel A also shows that the sample represents the largest UK firms
with a mean of total assets of 18,136.2 million. These firms look financially healthy as the mean liquidity ratio is 1.39. Majority of firms in our sample are making profit with a mean profitability ratio of 22.9 percent. The panel also shows that the firms in our sample are highly leveraged with a mean of a gearing ratio of 167.9 percent. Mean institutions’ shareholding is 70.9 percent, while mean board size is 11 directors, and more than 68.14 percent of the board in the sample consists of non-executive directors. Finally, the panel shows that the size of the AC ranges from two to seven directors with a mean of four. Panel B shows that 69.44 percent of the sample represents industrial firms, and 26.39 percent of the companies are listed in the USA. It also shows that the majority of the sample firms (95.44 percent) make a distinction between the chairman and the CEO positions (Table IV).

4. Empirical analysis

We use OLS regression analysis to examine the determinants of total risk disclosure[1]. Table V shows that industry and firm size are significantly associated with the total risk disclosure in UK interim reports. The coefficients on the industry variable are positive and statistically significant at the 5 percent level. This provides a substantial support for the $H1$ which predicts that CRD in interim reports would be affected by different types of businesses. This result is consistent with prior CRD studies in the annual reports (e.g. Abraham and Cox, 2007; Rajab and Handley-Schachler, 2009). Our findings show that industrial companies report more risk information than service companies. This significant impact might reflect greater business threats and uncertainties that faced by industrial companies during the financial crisis. Table V also shows that the relation between total CRD level and firm size is positive and statistically significant at the 1 percent level. This leads us to accept $H2$. This finding is consistent with prior research (Linsley and Shrives, 2006; Vandemele et al., 2009; Taylor et al., 2010). The finding is also in line with agency and signalling theories indicating that larger firms tend to disclose more risk information to make a decline in agency costs and to reduce information asymmetries.

<table>
<thead>
<tr>
<th>Label</th>
<th>Definition</th>
<th>Measurement</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>Activity type</td>
<td>1 if the company activity is industrial, 0 if the company is a service</td>
<td>FAME</td>
</tr>
<tr>
<td>Size</td>
<td>Firm size</td>
<td>Natural logarithm of total assets as at the end of the year</td>
<td>FAME</td>
</tr>
<tr>
<td>Prof</td>
<td>profitability</td>
<td>$\frac{\text{Net profit after tax/Shareholders funds}}{\text{Shareholders funds}} \times 100%$</td>
<td>FAME</td>
</tr>
<tr>
<td>Gear</td>
<td>Gearing</td>
<td>$\frac{\text{Short-term loans and overdrafts + long-term liabilities}}{\text{Shareholders funds}} \times 100%$</td>
<td>FAME</td>
</tr>
<tr>
<td>Liq</td>
<td>Liquidity</td>
<td>Current assets/current liabilities</td>
<td>FAME</td>
</tr>
<tr>
<td>Croslist</td>
<td>Cross listing</td>
<td>1 if the company listed in US market, 0 if otherwise</td>
<td>SEC website</td>
</tr>
<tr>
<td>Inst</td>
<td>Institutional ownership</td>
<td>Percentage of equity ownership by institutions</td>
<td>Datastream</td>
</tr>
<tr>
<td>Dual</td>
<td>Role duality</td>
<td>1 if CEO is the chairman and 0 if otherwise</td>
<td>Annual reports</td>
</tr>
<tr>
<td>Bsize</td>
<td>Size of the board</td>
<td>The total number of the members on the board</td>
<td>Annual reports</td>
</tr>
<tr>
<td>Nonexc</td>
<td>Board composition</td>
<td>$\frac{\text{Number of non-executive directors/total number of directors on the board}}{\text{Shareholders funds}} \times 100%$</td>
<td>Annual reports</td>
</tr>
<tr>
<td>ACsize</td>
<td>Size of AC</td>
<td>Number of directors in the AC</td>
<td>Annual reports</td>
</tr>
</tbody>
</table>

Narrative risk disclosures

Table III. Definition and measurement of independent variables

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On the other hand, Table V shows that the association between total risk disclosure and other firm characteristics and CG variables is insignificant. Therefore, we reject $H3-H11$.

5. Conclusion
Our paper contributed to existing risk reporting literature by being the first to examine the determinants of CRD in interim reports using UK settings. We test the degree to which firm-specific characteristics and CG mechanisms affect firms’ decision to voluntarily report risk information in their interim reports. We used both qualitative
and quantitative methods to test our research hypotheses. We used the manual content analysis approach to count the number of risk-related sentences in a sample of 71 the interim reports. OLS regression analysis is also used for the empirical analysis. Our dependent variable was the total number of risk-related sentences, while the independent variables were a set of firm-specific characteristics and a set of CG mechanisms.

Our empirical analysis shows that company size is positively associated with the total CRD level. This finding is consistent with prior risk reporting studies (Abraham and Cox, 2007; Beretta and Bozzolan, 2004; Elshandidy et al., 2011; Linsley and Shrives, 2006; Rajab and Handley-Schachler, 2009; Vandemele et al., 2009). We also find that type of business is positively associated with the total CRD level. Our results are also consistent with both agency and signalling theories. Whereas the other firm characteristics variables (profitability, liquidity, gearing, and cross listing) are found to have an insignificant relationship with the level of total CRD in interim reports. In addition, the results do not support that CG attributes (institutional ownership, role duality, board size, board composition, and AC size) have a significant effect on CRD in interim reports.

Our study suffers from a number of limitations. First, it calculates risk-related disclosure scores by simply adding up the number of risk-related sentences. This approach ignores the fact that the usefulness of disclosures can vary from sentence to sentence. It also ignores the underlying tone of disclosures (good news versus bad news). Second the sample size is rather small (due to the use of the manual content analysis which requires a considerable time and effort). Therefore, the findings might not be generalised.

The present study suggests a number of other avenues for future research. We explore the main drivers of risk reporting in interim reports in the UK. It would be interesting to re-examine the determinants of risk reporting in interim reports across countries. Future research can use computer software packages to measure risk-related disclosures for a large number of firms with minimal time and effort. Additional research could be also undertaken to examine the economic consequences of risk reporting in interim reports (i.e. the effect of risk reporting in interim reports on prices leading earnings, cost of capital, analyst following, and the characteristics of analysts’ forecasts).

Note
1. We check for the multi-collinearity problem by looking at the correlation between the independent variables. Our correlation analysis (not tabulated) shows that the correlations between the independent variables are too low.

References


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