Can ownership structure and board characteristics affect firm performance?

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ABSTRACT

This research aimed to examine the association between board of directors’ characteristics as a composite measure, the performance of companies in Jordan and the influence of family ownership on this association. Using data on industrial companies indexed on the Amman Stock Exchange (ASE) from 2013 to 2017, a positive association between board characteristics and company performance was found, indicating that higher board effectiveness is associated with more effective monitoring of management behavior. In addition, the association between board characteristics and company performance was strong when there was an interaction with family ownership, as companies with boards with family members achieve higher performance than companies with boards run by external directors. The study findings could be useful to all regulators seeking to improve the quality of monitoring mechanism practices, especially in emerging economies.

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Keywords: Jordan, Board characteristics, Family ownership, Firm performance

1. Introduction

In response to recent economic crises and corporate scandals, a great deal of effort has been made to issue regulations and reforms that could help prevent such crises in the future. For example, corporate governance mechanisms (hereafter CGM) have been developed to improve company performance by regulating overlapping relationships inside and outside the company, defining responsibilities, and protecting the rights of shareholders and other stakeholders (Liu & Fong, 2010; Zurigat et al., 2016). One of the main factors influencing the performance of a company is its corporate governance practices. Therefore, it is interesting to reflect on how the characteristics of a board of directors, which is one of the most important internal CGM, impact company performance. A board’s effectiveness depends on its characteristics, such as board independence, board size, financial expertise, and board meetings. According to Hashim and Amrah (2016), combining board characteristics could increase board effectiveness. Therefore, the present study used a composite measure to try to understand the influence of four board characteristics (board independence, board size, financial expertise, and board meetings) on company performance. Several studies have shown that the efficacy of CGM depends on a company’s ownership structure (Desender et al., 2013; Idris et al., 2018b). For example, a board’s effectiveness is greatly influenced by the form of ownership of the company (Bennett et al., 2003; Abu Siam et al., 2018). Numerous recent studies have drawn attention to the second (and most prevalent) type of agency problem in which the majority shareholders seek to obtain special incentives and benefits by confiscating the rights of the minority shareholders (Chobpichien et al., 2008). This is an issue of concern in many countries, especially emerging countries, which feature a more centralized ownership structure and poor legal protection for small shareholders (Idris et al., 2018a). In Jordan, which is the focus on the present study, companies have unique characteristics related to ownership structure, and family ownership (FO) is prevalent, especially in industrial and financial companies (Al-Najjar et al., 2010). According to Singh et al.
recent academic research has called for the testing of factors and interrelationships between variables; however, few studies have investigated the influence of moderating or mediating variables (such as concentration of ownership, firm size, and age) on company performance (Guizani, 2013; Kouki & Guizani, 2015; Singh et al., 2018). The present study responds to Singh et al.’s (2018) call to address this gap, and is one of the rare studies to examine, in the Jordanian context, the effect of FO as a moderate variable on the association between board characteristics as a composite measure and the performance of industrial firms listed on the Amman Stock Exchange (ASE) between 2013 and 2017.

1.1 Board Characteristics, Family Ownership, and Company Performance

According to the agency theory, the separation of ownership and control results in a difference of interest between managers and shareholders. For instance, managers might have incentives to serve their own interests instead of maximizing owner wealth; this is known as the first type of agency problem. A board of directors is responsible for mitigating conflicts of interest between the management and owners of a company, and successful mitigation leads to an improvement in the company’s efficiency (Chatterjee et al., 2003; Lorca et al., 2011). It is also essential for a board of directors to monitor administrative decisions, which are delegated by shareholders to ensure the protection of their interests and the preparation of reliable and complete financial reports. Furthermore, the preparation of high-quality financial reports enhances investor trust in company performance. Anca (2012) argued that the most vital board characteristics are the board’s independence and separation from the executive management, board size, and the incentives granted to the executive management. In addition, prior studies indicated that good CGM enhances company performance by helping the company achieve its goals by increasing profits (Piot et al., 2007; Ertugrul & Hegde, 2008). Meanwhile, Desender (2009) noted that the corporate ownership structure influences the efficacy of CGM. Companies in emerging countries have the most widespread concentration of ownership and weak legal rights for minority shareholders where the second type of agency problem is prevalent (Omran et al., 2008).

2. Literature Review and Hypothesis Development

The senior executive unit of a company is its board of directors, and management is responsible for supervision and oversight as it operates on behalf of the shareholders. Jaafar and El-Shawa (2009) analyzed the impact of the concentration of ownership and board characteristics (board size, multiple board directorships, and CEO duality) on the performance of companies indexed on ASE from 2002 to 2005. The results indicated that board size and multiple board directorships positively influence company performance. Meanwhile, Zedan and Abu Nassar (2014) explored the association between CGM and the performance of companies indexed on ASE from 2005 to 2009. The results revealed that company performance was positively affected by CEO duality and board size. Conheady et al. (2015) reported that an efficient board of directors is essential when using agency theory to solve the problem of separating ownership from management in modern companies. The study examined the effect of board effectiveness on company performance in a sample of Canadian companies from 2003 to 2009. The results showed a strong link between board effectiveness and company performance. Meanwhile, Johl et al. (2015) studied the influence of board characteristics (board meetings, board independence, board size, and board members’ financial experience) on company performance. The study utilized financial and non-financial data on 700 Malaysian public firms listed in 2009. The findings showed that board independence did not affect company performance, while board size and board members’ financial experience were positively linked to company performance. In addition, the study reported a negative association between board meetings and company performance. Singh et al. (2018) analyzed the relationship between board characteristics (board size, board independence, CEO duality, and board committees) and company performance, as measured by Tobin’s Q, in 324 companies listed in Pakistan between 2009 and 2015. The study reported that board size and board committees were positively associated with company performance, while board independence and CEO duality were negatively associated with company performance. In addition, Khadash and Washali (2019) identified the effect of diverse board characteristics on the accounting and market performance indicators of all banks and insurance firms indexed on ASE between 2010 and 2015. Specifically, the study examined the effects of gender, nationality, experience, the percentage of board members with a higher education degree, and the percentage of board members with financial certificates on company performance. The study found that gender, nationality, and educational diversity did not have an influence on company performance.

The aforementioned studies may have had contradictory results because they examined the effects of individual board characteristics on company performance (Lorca et al., 2011). This line has been highly criticized in the recent literature on CGM for its lack of coverage of the quality of CGM (Ward et al., 2009; Ishak & Al-Ebel, 2013). To reduce the costs of agency and protect the interests of all stakeholders, it is better to measure CGM as a composite measure. For instance, Ward et al. (2009) asserted that prior studies had rather divergent findings because they considered individual governance mechanisms in separation when addressing agency problems and ignored the idea that the effectiveness of one mechanism relies on the effectiveness of other mechanisms. Furthermore, the efficacy of CGM relies on firms’ and countries’ institutional structures, such as ownership structure (Young et al., 2008). Therefore, the following two hypotheses were tested in the present study:

H1: Board characteristics are related to company performance.

H2: FO influences the association between board characteristics and company performance.
3. Research Methodology

3.1 Sample Selection

The research population included all Jordanian public shareholders indexed on ASE from 2013 to 2017, while the study sample consisted of the 62 industrial firms indexed on ASE during the same period (www.sdc.com.jo).

3.2 Dependent Variable

To measure company performance, the present study followed the approach used by Singh et al. (2018) by measuring company performance using the Tobin’s Q.

3.3 Independent Variable

The present study examined four board characteristics: the independence of the board members, the financial expertise of the board members, board meetings, and board size. To measure the board characteristics as a composite measure (BC-Score), the study compared the average value of each variable with each value of that variable, and then the scores for the four individual board characteristics were combined to create a comprehensive board characteristics scale from 0 to 4 (Hashim & Amrah, 2016).

4. Regression Models

The research hypotheses were tested using two regression models. The first model was used to determine the association between BC-Score and company performance. The second model was used to measure the influence of FO on the association between BC-Score and company performance by including a term of interaction between BC-Score and FO.

Model (1): \[ CP_{it} = a_0 + \beta_1 S_{it} + \beta_2 BIG4_{it} + \beta_3 BC\text{-}Score_{it} + \varepsilon_{it} \]

Model (2): \[ CP_{it} = a_0 + \beta_1 S_{it} + \beta_2 BIG4_{it} + \beta_3 BC\text{-}Score_{it} + \beta_4 FO_{it} + \beta_5 BC\text{-}Score_{it} \times FO_{it} + \varepsilon_{it} \]

Table 1 shows the definitions of the study variables used in these models.

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Measurements of the Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variables</strong></td>
<td><strong>Symbol</strong></td>
</tr>
<tr>
<td>Company Performance (Tobin’s Q)</td>
<td>CP</td>
</tr>
<tr>
<td><strong>Independent Variable</strong></td>
<td></td>
</tr>
<tr>
<td>Board Characteristics Score</td>
<td>BC-Score</td>
</tr>
<tr>
<td>- Board Independence: The percentage of independent members of the board (Young et al., 2008).</td>
<td></td>
</tr>
<tr>
<td>- Board Meetings: The number of annual board meetings (Xie et al., 2003).</td>
<td></td>
</tr>
<tr>
<td>- Board Size: The number of board members (Allegrini &amp; Greco, 2013).</td>
<td></td>
</tr>
<tr>
<td><strong>Moderate Variable</strong></td>
<td></td>
</tr>
<tr>
<td>Family Ownership</td>
<td>FO</td>
</tr>
<tr>
<td><strong>Control Variables</strong></td>
<td></td>
</tr>
<tr>
<td>Audit Firm Size</td>
<td>BIG 4</td>
</tr>
<tr>
<td>Firm Size</td>
<td>S</td>
</tr>
</tbody>
</table>

5. Methodology and Results

5.1 Descriptive Statistics

As shown in Table 2, the descriptive statistics for the four board characteristics were higher than the statistical average for all studied companies. In addition, for number (3), three of the four characteristics whose value was higher than the average for each of the board’s characteristics and so on until the lowest value of (1) that reflects just one out of four characteristics for all companies was above average. The mean value for the BC-Score was 2.94, with a standard deviation of 0.706 and minimum and maximum values of 0 and 4, respectively. This finding suggests that boards that achieve a higher degree of effectiveness are more successful at resolving conflicts between companies by improving the efficacy of management control and supervision, which, in turn, enhances the efficiency of the company. The mean value for company performance was 0.978, with a standard deviation of 0.223, which indicates that company performance was almost reasonable and implies that the replacement value of the assets of a company is similar to the value of its shares (Abweeni & Al-Omari, 2016). Regarding FO, the maximum was 100% and the minimum for certain companies was 0%, and the percentage of ownership by board members in the studied
companies was 22.6%. The mean firm size was 7,225, with a standard deviation of 0.494 and minimum and maximum values of 5,861 and 7,341, respectively. In addition, the average audit firm size (BIG4) was 32%, with a standard deviation of 0.467, indicating that the four main audit firms audited 32% of the companies.

### Table 2
Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP</td>
<td>0.978</td>
<td>0.223</td>
<td>1.491</td>
<td>0.296</td>
</tr>
<tr>
<td>BC_Score</td>
<td>2.940</td>
<td>0.706</td>
<td>4.000</td>
<td>1.000</td>
</tr>
<tr>
<td>FO</td>
<td>0.226</td>
<td>0.248</td>
<td>1.000</td>
<td>0.000</td>
</tr>
<tr>
<td>S</td>
<td>7.225</td>
<td>0.494</td>
<td>7.341</td>
<td>4.681</td>
</tr>
<tr>
<td>BIG4</td>
<td>0.032</td>
<td>0.467</td>
<td>1.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

### 5.2 Main Empirical Findings

### Table 3
Regression analysis results of board characteristics, FO and CP

<table>
<thead>
<tr>
<th>Variables</th>
<th>Model (1)</th>
<th>Model (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coef.</td>
<td>t-stat</td>
</tr>
<tr>
<td>Intercept</td>
<td>0.437*</td>
<td>1.919</td>
</tr>
<tr>
<td>BC_Score</td>
<td>0.300***</td>
<td>4.396</td>
</tr>
<tr>
<td>FO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BC_Score*FO</td>
<td>0.141**</td>
<td>2.101</td>
</tr>
<tr>
<td>S</td>
<td>0.074</td>
<td>1.049</td>
</tr>
<tr>
<td>BIG4</td>
<td>0.067</td>
<td>0.967</td>
</tr>
<tr>
<td>Adj-R²</td>
<td>0.082</td>
<td>0.098</td>
</tr>
<tr>
<td>Obs.</td>
<td>210</td>
<td>210</td>
</tr>
<tr>
<td>F-stat</td>
<td>3.623</td>
<td>3.777</td>
</tr>
</tbody>
</table>

** ***and * indicate significant at 1%, 5% and 10% respectively. BC_Score*FO = Interaction between board characteristics and FO.

The findings shown in Table 3 indicate that the impact of board characteristics as a composite measure was positive for the performance of industrial companies in Jordan. The results of this study are in line with those of previous studies, suggesting that a board of directors is an important internal control mechanism for monitoring company performance. Thus, an efficient board of directors can mitigate conflicts of interest (agency problems), which, in turn, enhances monitoring effectiveness and improves company performance (Conheady et al., 2015). In addition, the effectiveness of the board plays a critical role in safeguarding the interests of the various stakeholders against the self-interest of management. The literature has indicated that effective board oversight helps maintain financial reporting reliability. Thus, it is rational to assume that an effective board of directors will help improve company performance and reduce the management of earnings (Sarkar et al., 2008). It can be argued that a lack of appropriate supervision by the board of directors or any weakness in the board of directors will encourage management to engage in earnings management practices. As such, agency theory notes that certain essential features of a board of directors, such as independent members, a sufficient board size, regular meetings, and members with financial and accounting skills, would help the board perform its duties more effectively (Cai et al., 2008). The findings shown in Table 3 also illustrate the significant impact of FO as a moderate variable on the association between board characteristics as a composite measure and the performance of industrial companies in Jordan. The results of this study indicate that the presence of FO improves the relationship between the board of directors’ effectiveness and company performance. A probable clarification for this result is that board members who are part of the family that owns the company may work hard to maintain their interests and the continuity of their business. However, the agency theory suggests that family managers can share their opinions in several ways because of the multiple lines of contact available between family members; these lines are also advantages in monitoring the work of managers (Fama & Jensen, 1983; Bartholomeusz & Tanewski, 2006). Furthermore, the presence of family owners on a board may reduce the agency costs because those members are more knowledgeable about the company’s matters and may lead to better monitoring of the company’s managers and reduce their opportunistic behavior to maximize their wealth. This idea is consistent with Kang’s (1999) argument that the inclusion of family owners on a board of directors leads to good supervision of the managers and that the flow of knowledge between family members and managers can be controlled via meetings with each other. Anderson and Reeb (2004) considered a board of directors composed of family members and independent members to be more effective than a board composed of external directors, primarily because family members feel like they have more knowledge about their business. As a result, family members have more loyalty to the corporation than outsiders because they think of their business as part of their properties (Chen et al., 2011). In addition, a company with a board of directors with family members can achieve higher performance than a company with a board run by outside executives. Further, FO creates better value, particularly if the founder is the CEO of the family business or the chairman of the hired CEO (Villalonga & Amit, 2006; Amran, 2010).
The present study aimed to investigate the influence of board characteristics (independence, financial expertise, board meetings, and size) as a composite measure capturing the combined impact of these characteristics on company performance. In addition, FO was studied as a moderate variable on the association between board characteristics as a composite measure and company performance in Jordan. This research expands the scope of earlier studies of company performance by looking at the business environment in Jordan, which is characterized by still weak financial markets and systems. Moreover, companies in Jordan have a highly central ownership structure, and FO is very common. The study findings indicated the positive and important effect of board characteristics as a composite measure of company performance. The study also indicated that FO has a beneficial impact on the relationship between board characteristics and company performance and that companies with boards that include family members achieve better performance than boards run by external managers. In addition to regulators and policy makers in Jordan, the findings of this research can be useful to all stakeholders as they illustrate a range of issues that can be used to help evaluate the effect of CGM on company performance in Jordan. However, this research has some limitations. First, the quality of the tests can be assessed according to the quality of the sample data. Second, since this study only examined industrial firms listed on ASE and did not examine service and financial companies, the validity of the results may not extend to the latter companies. Finally, future research could examine the effectiveness of CGM and corporate performance in various environments using different economic cycles, different financial markets, different periods of time, and/or different sample sizes.

References


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