Effect of corporate social responsibility on Jordan pharmaceutical industry's business performance

Abdel-Aziz Ahmad Sharabati

Abdel-Aziz Ahmad Sharabati is Assistant Professor at the Department of Business, Middle East University, Amman, Jordan.

Abstract

Purpose – The purpose of this study is to investigate the effect of implementing corporate social responsibility (CSR) initiatives (social responsibility, economic responsibility and environmental responsibility) on Jordanian Pharmaceutical Manufacturing (JPM) industry's business performance.

Design/methodology/approach – This study follows a quantitative descriptive design. The data were collected from 116 managers working at seven JPM organizations by questionnaire. After confirming validity and reliability of the tool, the statistical analysis means, standard deviations and t-values were used to test implementation and finally multiple regressions were used to test the hypothesis.

Findings – Results show that there are relationships between CSR variables, and all the three variables are strongly related to business performance. The results also indicate that the three sub-variables together affect JPM industry's business performance. The environmental responsibility has the highest effect on JPM industry's business performance, followed by the economic responsibility, and then the social responsibility.

Research limitations/implications – This study was directed toward pharmaceutical industry in Jordan. Generalizing the results to other industries and countries is questionable. Therefore, further research on other industries and countries will help mitigate the issue of generalizing conclusions.

Practical implications – CSR should be formulated clearly within JPM corporate strategy. The elements of CSR need to be integrated with the present performance management criteria, leadership development programs and organizational development programs, and a champion for CSR needs to be assigned.

Social implications – The CSR initiatives should be derived from local culture and match with international initiatives because CSR is the responsibility of every person.

Originality/value – Still the topic of CSR is not well implemented and does not have priority by Jordanian companies; therefore, this study may be considered as one of the few studies dedicated to study this topic and create awareness about it in Jordan.

Keywords Social responsibility, Business performance, Environmental responsibility, Corporate Social Responsibility (CSR), Jordanian Pharmaceutical Manufacturing (JPM) industry, Economic responsibility

Paper type Research paper

Introduction

Actually, there is neither clear-cut definition nor agreement about the components of sustainable development, sustainability, social responsibility, corporate social responsibility (CSR) and corporate citizenship. All these phrases concerned are about how to behave, act and deal with the society, contribute to economy and protect the environment, whether by using self-motivation or by obeying laws and regulations. However, different authors define these phrases in different ways, but it seems that there is consensus among scholars,

Received 28 December 2016 Revised 15 February 2017 25 April 2017 8 June 2017 Accepted 18 September 2017

The author would like to thank the Middle East University.



authors and practitioners about those social, economic and environmental responsibilities that are common components of these phrases.

Sustainability is used by the Brundtland Commission to mean, "Meets the needs of the present without compromising the ability of future generations to meet their own needs" (United Nations, 1987). Sustainable development is considered as a process for meeting human goals while maintaining the ability of natural systems to continue to provide the natural resources (Wood, 1991). Social responsibility is a duty every individual has to perform, to maintain a balance between the economy and the ecosystems (Palmer et al., 1995). CSR is a business commitment that supports sustainable economic development and contributes to the quality of life, local community and society in general (The World Business Council for Sustainable Development, 2000) . "The 2005 World Summit on Social Development identified sustainable development goals, such as economic development, social development and environmental protection" (United Nations, 2005). Sustainable development ties together concern for natural systems with the social, political and economic challenges faced by humanity (Finn, 2009). Modern CSR has many names, such as corporate citizenship, corporate philanthropy, corporate giving, corporate community involvement, community relations, community affairs, community development, corporate responsibility, global citizenship and corporate social marketing (Dodd and Supa, 2011). Sustainability is the practice of reserving resources for future generation without any harm to the nature and other components of it (Hendrix, 2014; Kahle and Gurel-Atay, 2014). Sustainable development includes three dimensions: economic, environmental and social or ecology, economy and equity (United Nations, 2014). The organizing principle for sustainability is sustainable development, which includes the four interconnected domains: ecology, economics, politics and culture (Bakari, 2014). Social responsibility includes four pillars: social, economic, environmental and cultural (James et al., 2015).

Corporate citizenship is used to describe how business is matching with laws, regulations, ethical, moral and economic responsibilities. Corporate citizenship can be defined as the full range of both internal and external corporate activities that contribute to the well-being of society (Cavanaugh et al., 2005). Corporate citizenship is the establishment and management of company's influence on the society in a way those are benefits for the company and society (Podrug, 2011). Corporate citizenship can be described as a company's responsibility to its community and to the world as a whole (Farlex, 2012). Corporate citizenship is the extent to which businesses are socially responsible for meeting legal, ethical and economic responsibilities (Investopedia, 2015).

The concern about CSR is continuously increasing worldwide. CSR has gained momentum worldwide (Marquina, 2010). Sustainable development is a key theme in policymaking in Norway (O'Brien, 2010). Corporate citizenship and organizational citizenship have been important issues in business management (Lin et al., 2010). Globalization and sustainable development are nowadays the buzzwords in socio-economic discussions (Leeuw and Scheerlinck, 2011). Companies start to engage in CSR activities to respond to an external demand (Stancu et al., 2011). The concept of sustainable development holds that business organizations should not only stress on their economic and business outcomes but also pay their attention toward environment, society and community (Khan and Majid, 2013). CSR concept is organization's commitment to meet the needs and demands of society (Heydarian et al., 2013). The trend of CSR is continually growing and businesses are struggling to comply and maximize on its benefits (Razafindrambinina and Sabran, 2014). The common goal of the domestic and international business community is to bring forth wealth in a socially and environmentally responsible way (Sawant, 2014). The role of responsible leadership is creating the necessary transitions to a sustainable global



economy (de Jongh, 2014). Today, CSR of organizations and management is most important thing to count (Rafiei and Fard, 2015).

Focuses perhaps too much on reputation as a key driver may be seen as "greenwashing". More beneficially, if seen fundamentally as a business opportunity for longterm stability and a mechanism to integrate with the community and environment. Companies implement CSR to establish a positive business image and reputation and enhance corporate brand name by taking actions that lead to develop competitive advantage (The World Business Council for Sustainable Development, 2000). CSR activities improve a company's image (Yoon et al., 2006; Papadopoulos et al., 2011; Junipriansa and Damayanti, 2014). CSR means to operate business in favor of society and to achieve its objectives in a competitive environment (Aga et al., 2012). The importance of CSR initiatives is due to their relation to competitive advantage, financial result, customer behavior and corporate reputation (El-Garaihy et al., 2014). CSR is viewed as an organizational function and a mean to establish stakeholder relations and reputations (Ghorbani et al., 2013), and to promote company's interaction with society, which enhance their reputation and credit (Mousavi, 2013). Contemporary organizations are required to be responsible to their shareholders, customers, employees, communities and ecology in all aspects of their operations to gain a competitive advantage (Yahya and Ha, 2014). CSR activity has become a new indicator of consumer satisfaction (Hsieh, 2014), and has a direct effect on the job satisfaction and organizational commitment of employees (Tuzcu, 2013). Finally, CSR activities can result in a better performance and can generate more profits and growth (Lakra, 2014).

Finally, Jordan is considered as a regional leader and hub of the pharmaceutical manufacturing industry in the MENA region (ICIEC, 2016). In 2016, Jordan exported 80 per cent of its pharmaceutical products to 82 countries including Arab countries; exports of pharmaceutical products comprised 11 per cent of national exports (Al Emam, 2016). Dr Mohammad Shahin stated that the "Jordan's Pharmaceutical industry's contribution to the export bill was about \$1 billion in 2016 and about \$0.2 billion for the domestic market, totaling \$1.2 billion" (Shahin, 2017). Pharmaceutical Industry is a highly regulated industry global. Regulations are at global level (Leeuw and Scheerlinck, 2011). Moreover, there is a growing interest in CSR disclosure by the pharmaceuticals industry (Azim and Azam, 2013). Finally, Jordanian people call on Jordanian companies to do more as acts of social responsibility (Hawkins, 2004). In summary, CSR has many names (such as social responsibility, sustainability, sustainable development and corporate citizenship), which used to indicate the responsibility of individuals or organizations toward society, economy and environment. The aim of any responsible business is to improve quality of life, increase standards of living and make profit for stakeholders, but without compromising future generation needs. CSR practices are essential for today's business activities, and they have many benefits for organizations, such as improving organizations' business performance, increasing customer's satisfaction and employee's engagement, helping to develop competitive advantage and improving organizations' image and reputation. Therefore, the purpose of the current research is to investigate the effect of implementing CSR (social responsibility, economic responsibility and environmental responsibility) on Jordanian Pharmaceutical Manufacturing (JPM) industry's business performance and to encourage JPM organizations to participate more in social activities, contribute to economic development and increase their awareness to be more environment friendly. Moreover, its objective is to provide sound recommendations to JPM industry, to other industries operating in Jordan and to decision-makers concerned about this topic. In addition, its objective is to encourage more researches about CSR implementation and to increase the awareness of public and organizations about this hot topic. Finally, this research many be considered as an initiative research that dedicated to investigate the effect of CSR on JPM industry's business performance. Its results may be beneficial not only to JPM industry but also to other industries and decision-makers.

Problem statement and hypothesis development

The implementation of CSR and its effect on company's performance have been investigated on many organizations, industries and countries, but only few researches have been conducted in Jordan and very limited researches have been performed on Jordanian Pharmaceutical industry. Many authors recommended conducting researches related to measuring and evaluating the implementation of CSR. Despite the claim that internal CSR plays an important role, the understanding of this phenomenon has been neglected (Ferreira and Oliveira, 2013). The past three decades have witnessed the emergence of CSR as a field of research and a framework for the role of business corporations and financial institutions in society (Senthikumar et al., 2011), and the number of academic contributions that examine the link between CSR and financial performance has been increased (Belascu and Horobet, 2013). Though the literature review focuses on the concepts of CSR and its relationship with corporate performance (Gathungu and Ratemo, 2013; Dzhavdatovna et al., 2015), there have been many variations in the results (Mumtaz and Pirzada, 2014); therefore, the relationship between CSR and corporate performance is needed to be studied extensively by scholars (Nguyen et al., 2015). Sustainability measurement is a term that denotes the measurements used as the quantitative basis for the informed management of sustainability (Ball, 2002). People, planet and profit known as the triple bottom line form one way to evaluate CSR (Kanj and Chopra, 2010). The metrics used for the measurement of sustainability are evolving: these include indicators, benchmarks, audits, sustainability standards and certification systems (Dalal-Clayton and Sadler, 2009). Finally, Betianu (2010) stated, "The Global Reporting Initiatives (GRI 2000, 2002 and 2006) are international institution, which their duties are to establish guiding lines for the publishing of nonfinancial information regarding sustainable development". Pharmaceutical industry is an international and highly regulated industry; to be able to compete internationally, companies have to consider CSR within their context (Leeuw and Scheerlinck, 2011).

In light of the justification mentioned above, the current research is dedicated to investigate the effect of CSR (social responsibility, economic responsibility and environmental responsibility) on JPM industry via testing the following null hypothesis:

- Corporate social responsibility (social, economic and environmental) does not affect Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha \leq 0.05$.
- H0a. Social responsibility does not affect Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha \le 0.05$.
- H0b. Economic responsibility does not affect Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha < 0.05$.
- HOc. Environmental responsibility does not affect Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha \leq 0.05$.

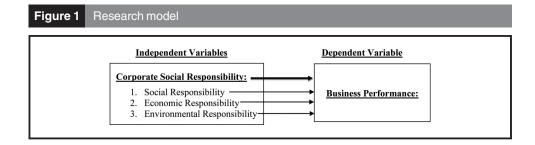
Research model

Literature review

There are many research works on the implementation of CSR and its effect on different aspects such as corporate reputation and image, customer satisfaction, employee engagement, financial including companies' value and organizations' performance in general (Figure 1).

Companies that concentrate on CSR dimensions are perceived as legal and ethical companies (Lin et al., 2010) and corporate citizens (Servaes and Tamayo, 2013). The dimensions of CSR have positive effect on corporate reputation (Chao et al., 2010; Servaes and Tamayo, 2013; Mousavi, 2013), corporate image (Junipriansa and Damayanti, 2014;





Togun and Nasieku, 2015), customer purchasing intention (Chao *et al.*, 2010; Hsieh, 2014), consumers' behavior in purchasing (Marquina, 2010) and consumers' perceptions and behavioral intention (Papadopoulos *et al.*, 2011). They influence customer satisfaction (Senthikumar *et al.*, 2011; Azizi *et al.*, 2014), customer delight and loyalty (Rafiei and Fard, 2015; Kazemi and Omidi, 2015), perceived service quality (Rashid *et al.*, 2013), brand equity (Rashid *et al.*, 2013), brand preference (Mirabi *et al.*, 2014), brand awareness (Chirimubwe, 2015) and organizational attractiveness (Zaid and Al-Manasra, 2013). Consumers are more likely to purchase from firms that are engaged in CSR activities (Nguyen *et al.*, 2015).

Many authors studied the relationship between CSR and employee engagement and motivation; the employees' rights, fair wages and safety at work were the most prevalent dimensions in the image of a responsible employer (Stancu *et al.*, 2011). Employees' positive perception toward organizations' social ethics and social services influences their attitudes and performance, which in turn affects productivity of organizations (Bashir *et al.*, 2012). The CSR practices have positive effect on employees' engagement (Ferreira and Oliveira, 2013; Kweyama *et al.*, 2015), and facilitate staff motivation (Kim and Scullion, 2013). CSR programs have to meet the expectations of employees, investors and local communities (Gathungu and Ratemo, 2013). CSR also affects employee behavior and attitude toward the environment (Mumbunan *et al.*, 2015).

Most of the authors indicated that there are strong relationships between CSR dimensions and company's financial performance (Mishra and Suar, 2010; Sahin *et al.*, 2011; Wang and Zhang, 2012; Belascu and Horobet, 2013; Heydarian *et al.*, 2013; Mwangi and Jerotich, 2013; Bidhari *et al.*, 2013; Basuony *et al.*, 2014; Murtaza *et al.*, 2014; Ding, 2014; Mujahid and Abdullah, 2014; Rahmawati *et al.*, 2014; Mumtaz and Pirzada, 2014; Dzhavdatovna *et al.*, 2015).

Others related CSR activities to profitability (Dabbas and Al-rawashdeh, 2012; Persic and Markic, 2013; Khan and Majid, 2013; Malik and Nadeem, 2014; Jamali *et al.*, 2015; Jamali *et al.*, 2015; Kaur, 2015; Emezi, 2015). Moreover, some related CSR to shareholders' wealth (Mujahid and Abdullah, 2014; Dzhavdatovna *et al.*, 2015), market share and performance (Khan and Majid, 2013; Al-Ani and Jamil, 2015), operating performance (Razafindrambinina and Sabran, 2014), credit, company's success and position (Mousavi, 2013), employee satisfaction and increased productivity and profitability (Togun and Nasieku, 2015) and to all financial performance measurements, such as return on assets, return on equity and return on sales (Bidhari *et al.*, 2013) and total assets (Abdulrahman, 2014). Furthermore, some authors studied the relationship between CSR dimensions and company's value, and found a positive effect of CSR on company's value (Susanti *et al.*, 2012; Mandasari and Hanif, 2013; and Estiasih *et al.*, 2015).

Finally, some authors studied the relationship between CSR and companies' business performance and economy in general and concluded that among European countries, the Baltic region has the highest significant correlation between environmental

indicators and GDP (Lapinskiene and Peleckis, 2009). The three dimensions of CSR were having significant influence on organization's performance (Abdullah and Abdul Rashid, 2012; Manyasi and Masinde, 2014; Yahya and Ha, 2014). CSR had a significant contribution to productivity and stability of companies (Ukpabi et al., 2014). There was a strong relationship between the initiatives of CSR and competitive advantage (Al-Sukkar et al., 2013; and El-Garaihy et al., 2014). Sustainable development has significant impact on environmental integrity, economic prosperity, social equity and overall sustainability (Mani, 2013). Social responsibility has a great impact on the society by adding to the infrastructures and development of the society (Richard and Okoye, 2013). CSR had a positive influence on economic results (Hyks, 2015).

Few research works indicated that either there is no relationship between CSR and business performance or CSR does not affect business performance, such as CSR performance having no effect on corporate financial performance (Igbal et al., 2012). There was no significant mediating effect of CSR on the relationship between market orientation and firm performance (Arshad et al., 2012). There was an insignificant relation between organizational commitment and job satisfaction, and perceptions of CSR (Tuzcu, 2013).

Moreover, only few research works have been carried out on pharmaceutical industry, which showed different effects of CSR on business performance. Mehar and Rahat (2007) concluded that there was an insignificant relationship between CSR and firm's financial performance in pharmaceutical industry in Karachi. Leeuw and Scheerlinck (2011) concluded that sustainable development was a driver of companies' awareness of sustainability issues of Belgium-based pharmaceutical companies. Aga et al.'s (2012) result indicated that CSR had a positive impact on firms' productivity, reputation and customer loyalty to pharmaceutical companies in Peshawar, Pakistan.

In summary, several research works were carried out on the implementation of CSR, and its impact on business performance in different industries and countries. Most the of previous research works indicated that CSR has a positive effect on many aspects such as corporate reputation, image, customer satisfaction, employee engagement, financial performance, firms' value and organizations' performance in general, whereas very limited research works indicated that there is no effect. Furthermore, only few research works were carried out in Jordan and very few performed on pharmaceutical industry; therefore, investigating the effect of CSR on JPM industry's business performance is important. This study will consider the following indicators to measure the dependent variable: productivity, cost, employee turnover, quality, sales increase, profit, market value, return on assets, return on investment and company position.

Methods and procedures

Methodology

This research follows a quantitative descriptive design to describe the CSR implementation and its effect of JPM industry's business performance. Two sources of data are used in this research: secondary and primary data. Secondary data are collected from literature review such as previous researches, thesis, dissertations, articles, books, annual reports and the internet. Whereas, primary data are collected through the questionnaire that is built on the basis of previous research works and developed with the help of referee committee, which constitutes from 13 academicians and 3 managers from 3 JPM companies. The questionnaire contains three sections: demographic, independent variables and dependent variables. Independent variables are CSR elements (social, economic and environmental responsibilities), whereas dependent variable is industry's business performance and evaluated by ten indicators (productivity, cost, employee turnover, quality, sales increase, profit, market value, return on assets, return on investment and company position). The



questionnaire used five-point Likert scale (rated from 1 = very low implementation and 5 = very high implementation) to test the perception of managers regarding each item. While carrying out this research, 14 JPM organizations were registered in Jordanian Pharmaceutical Manufacturers Association, all of them are targeted, and this negates any need for sampling. The data are collected from 116 managers working at seven JPM organizations because other companies did not allow their managers to participate, so managers were used as a unit of analysis.

After verification of the filled questionnaires, they were coded against SPSS 20, and then validity and reliability tests were carried out. Content validity is insured by using previous research works, thesis, dissertations, articles, books, annual reports and internet, and the referee committee (panel of judge) confirmed face validity. Construct validity is tested by factor analysis (principal component correlation analysis). As shown in Table I, all items rated Component 1 more than 40 per cent and all variables rated Component 1 more than 70 per cent, and Kaiser-Meyer-Olkin (KMO) more than 60 per cent; therefore, validity is assumed. Cronbach's alpha is used to test the reliability. As all variables rated more than 60 per cent, reliability is confirmed.

Data analysis

Statistical analysis. To examine the implementation of CSR and business performance items, the means, standard deviations and t-value are used. The level of implementation is measured on the basis of the means and divided into three levels based on the following criteria: interval (5-1)/3 = 1.33: low implementation (from 1 to 2.33), medium implementation (from 2.34 to 2.66) and high implementation (from 2.67 to 5).

Independent and dependent variables

Table II shows that the means of CSR variables are ranging between 4.090 and 4.122, with standard deviation rated from 0.464 and 0.495. This indicates that there is an agreement among respondents on high implementation of CSR variables. Environmental responsibility has rated the highest mean 4.122, followed by economic responsibility with mean 4.090, and finally social responsibility rated 4.011. The average mean for CSR is 4.074, which points out that CSR is highly implemented. At the same time, Table II shows that the mean for business performance is 4.080 with standard deviation 0.314, which mean there is an agreement on high implementation of business performance indicators. This indicates that there is an agreement among respondents on high implementation of both CSR and business performance indicators.

Relationship between variables

Bivariate Pearson correlation is used to test the relationship between research variables. Table III shows that the relationships between CSR variables are medium, where r ranges from 0.271 to 0.429. Each CSR variable has a strong relationship with total CSR, where r ranges from 0.725 to 0.790, which means that all the three variables are related to each other and strongly related to the total of CSR. Furthermore, all the three variables are strongly related to business performance, where r ranges from 0.539 to 0.656, and total CSR is strongly related to business performance, where r equals 0.779.

Hypothesis testing

 R^2 indicates the goodness and fitness of the model. The higher R^2 value, the better explanation of the variation of independent variable on the dependent variable. The F and t-values indicate the significance of the relationships and effects.



Paragraphs	Factor 1	Alpha	KMO	Bartlett's test	Sig.
Social responsibility					
The company is hiring people with special needs	0.571				
The company owns programs help support education in the					
community	0.632				
The company owns a budget for social work as a financial	0.740				
support such as community donating to charity The company has binding laws for moral behavior	0.740 0.534				
The company has plans for a health awareness to the community	0.554				
courses	0.631				
The company follows the binding laws to ensure the safety of					
workers from the product	0.624	0.683	0.724	15	0.00
Economic responsibility					
The company is committed to government laws related to					
economic aspect	0.789				
The company is seeking to pay tax dues on time specified	0.848				
The company contributes to the local economy by bringing hard	0.661				
currency The company helps in building infrastructure such as bridges	0.661				
the company helps in building infrastructure such as bridges etc.	0.578				
The company contributes to the employment of local labor	0.459	0.666	0.611	10	0.00
Environmental responsibility The company is interested in reducing the environmental					
pollution	0.520				
The company achieved an optimum exploitation of resources,	0.020				
especially non-renewable resources	0.820				
The company owns a variety of means to deal with the					
surrounding environment-friendly products	0.759				
The company provides guidance on the use of products and					
ways to get rid of them and their residues	0.654				
The company uses non-harmful products (eco-friendly) and set	0.500				
forth in the good manufacturing The company recycles some materials	0.589 0.623	0.746	0.666	15	0.00
	0.023	0.740	0.000	15	0.00
Business performance The company gets the best productivity of the individual	0.473				
The company has the least cost to produce per unit compared	0.470				
with competitors	0.591				
The company has the least work rotation (staff)	0.647				
The quality of products match with competitors	0.425				
The company has continually increase in sales	0.440				
The company achieves better profit compared with competitors	0.610				
The market value of the company's shares increases on an	0.5.47				
annual basis	0.547				
Return on investment commensurate with return on the industry	0.682 0.522				
The Company manages cost effectively The company has an exceptional position among competitors	0.522				
The company gets the best productivity of the individual	0.473	0.739	0.634	45	0.00
Corporate social responsibility					
Social responsibility	0.815				
Economic responsibility	0.748				
Environmental responsibility	0.708	0.627	0.623	3	0.00
Note: Extraction method: principal component analysis					

Before conducting multiple regressions, the following assumptions have been confirmed:

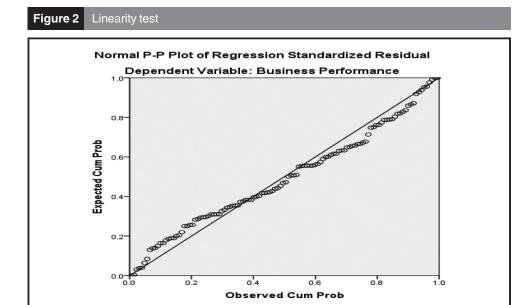
Linearity test: To test the linearity, we depend on plotting of studentized residual against the predicted value. As shown in Figure 2, there is no relation between the predicted and residual values; therefore, linearity is assumed.



www.manaraa.com

Table II The mean, standard deviation, t-value and implementation of all variables								
Item	Mean	Standard deviation	t	Sig.	Implement			
Social responsibility Economic responsibility Environmental responsibility Corporate social responsibility Business performance	4.011 4.090 4.122 4.074 4.080	0.464 0.495 0.477 <i>0.362</i> 0.314	23.477 23.705 25.354 31.935 37.002	0.000 0.000 0.000 <i>0.000</i> <i>0.000</i>	High High High High High			

No.	Variables	1	2	3	4	5
1	Social responsibility					
2	Economic responsibility	0.429**				
3	Environmental responsibility	0.381**	0.271**			
4	Corporate social responsibility	0.790**	0.758**	0.725**		
5	Business performance	0.577**	0.539**	0.656**	0.779**	



- Normality: To test the normality, we depend on the histogram of residuals. Figure 3 shows that the errors are normally distributed around X, and the shape follows the normal distribution, so the model does not violate this assumption.
- Equal variance (homoscedasticity): To test the equal variance, we depend on the plot of studentized residual against the predicted value. Figure 3 shows that the errors are constant for all the value of independent variables. Therefore, there is no relation between the predicted and residual values, so this assumption is not violated.
- Independence of errors: Table IV shows that Durbin—Watson value D = 1.709, which is about two, indicates that the errors are independent from one another; hence, this assumption is not violated.

Histogram of residuals Figure 3

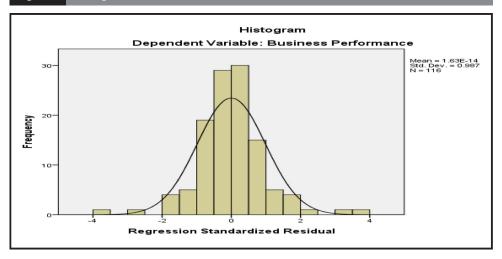


Table IV Collinearity statistics and Durbin–Watson							
Collinearity statistics							
Variables	Tolerance	VIF	Durbin-Watson				
(Constant)			1.709				
Social responsibility	0.740	1.352					
Economic responsibility	0.802	1.247					
Environmental responsibility	0.840	1.190					

■ Multicollinearity: Table IV shows that the variance inflation factor (VIF) value is less than 10 and tolerance value is more than 0.2 for each sub-variable, so collinearity assumption is not violated.

Multiple regressions

H0. Corporate social responsibility (social, economic and environmental) does not affect Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha \leq$ 0.05.

Table V shows the results of the multiple regression analysis that regress the three subvariables of CSR against industry's business performance. It shows that the three subvariables together explained 62.5 per cent of the variance, where $R^2 = 0.625$, F = 62.142, Sig. = 0.000. Therefore, the null hypothesis is rejected and the alternative hypothesis is accepted, which states that CSR (social, economic and environmental) affects JPM industry's business performance, at $\alpha \leq 0.05$.

Table VI shows the significant effect of each sub-variable of CSR on business performance. It shows that the environmental responsibility has the highest effect on JPM industry's business performance, where Beta = 0.473, t = 7.487, Sig. = 0.000, followed by the economic responsibility, where Beta = 0.294, t = 4.551, Sig. = 0.000, and then the social responsibility, where Beta = 0.271, t = 4.022, Sig. = 0.000. Therefore, the three sub-hypotheses are rejected and the alternative hypotheses are accepted, which state:



Table V	Results of multiple regression analysis (ANOVA): regressing CSR sub-variables against business performance							
r	R^2	Adjusted R ²	F	Sig.				
0.790	0.625	0.615	62.142	0.000				

Table VI Results of multip against business			/A): regressin	ig CSR sub-va	ariables
Variables	Unstandardi B	zed coefficients Std. error	Standardize Beta	d coefficients t	Sig.
(Constant)	1.296	0.206		6.302	0.000
Social responsibility	0.183	0.046	0.271	4.022	0.000
Economic responsibility	0.187	0.041	0.294	4.551	0.000
Environmental responsibility	0.312	0.042	0.473	7.487	0.000

- 1. Social responsibility initiative affects Jordanian Pharmaceutical Manufacturing industry's business performance, at $\alpha \le 0.05$;
- 2. Economic responsibility initiative affects three sub-hypotheses industry's business performance, at $\alpha \le 0.05$; and
- 3. Environmental responsibility initiative affects three sub-hypotheses industry's business performance, at $\alpha \le 0.05$.

Results show that environmental responsibility has the highest effect, followed by economic responsibility, and finally social responsibility.

Results discussion

Results show that there is an agreement among respondents on high implementation of CSR variables. Environmental responsibility has rated the highest implementation, followed by economic responsibility, and finally social responsibility. In addition, there is agreement on high implementation of business performance indicators. These results are in line with those of Abdullah and Abdul Rashid (2012), which concluded that CSR-environment was having highest influence on organizational citizenship behavior, followed by CSR-employee and CSR-customer, respectively.

Results also show that the relationships between CSR variables are medium. Each CSR variable has strong relationship with total CSR, which means that all three variables are correlated to each other, and strongly related to the total of CSR. Furthermore, all the three variables are strongly related to business performance, and the total CSR is strongly related to business performance. These results are supported by Lapinskiene and Peleckis (2009); Marquina (2010); Aga et al. (2012); Wang and Zhang (2012); Khan and Majid (2013); Belascu and Horobet (2013); Tuzcu (2013); Mwangi and Jerotich (2013; Yahya and Ha (2014); Mumtaz and Pirzada (2014); Abdulrahman (2014); Malik and Nadeem (2014); Dzhavdatovna et al. (2015); Manyasi and Masinde (2014); Murtaza et al. (2014); Mumtaz and Pirzada (2014); Kaur (2015) and Emezi (2015). It seems that three dimensions of CSR are highly related to each other and all of these are related to business performance.

Finally, the results indicate that the three sub-variables together affect JPM industry's business performance, at $\alpha \leq 0.05$. The environmental responsibility has the highest



effect, followed by the economic responsibility, and then the social responsibility. These results are supported by Chao et al. 2010); Lin et al. (2010); Susanti et al. (2012); Bashir et al. (2012); Persic and Markic (2013); Mousavi (2013); Mandasari and Hanif (2013); Heydarian et al. (2013); Mujahid and Abdullah (2014); Basuony et al. (2014); Ukpabi et al. (2014); Ding (2014); Kaur (2015); Estiasih et al. (2015); Al-Ani and Jamil (2015) and Hyks (2015). Very few research works indicated that CSR does not have effect on business performance, such as the works of Iqbal et al. (2012) and Arshad et al. (2012). It is logical that people are aware of good CSR practices and reward companies that contribute to society and protect the environment.

In Jordan, the results of the current research is matching with the results of Dabbas and Al-rawashdeh (2012); Al-Sukkar et al. (2013) and Zaid and Al-Manasra (2013); In addition, results are on line with some researcher works conducted on pharmaceutical industry, such as the works by Leeuw and Scheerlinck (2011) and Aga et al. (2012); however, the results contradicted with those of Mehar and Rahat (2007), which concluded that there is no significant relationship between CSR and firm's financial performance.

Finally, nowadays, people are more aware of the CSR activities and support the companies that contribute more to community in general. This will improve companies' business performance by improving their reputation and image.

Conclusion

The results show that there is an agreement among respondents on high implementation of CSR variables. Environmental responsibility has rated the highest implementation, followed by economic responsibility, and finally social responsibility. In addition, there is agreement on high implementation of business performance indicators; this indicates that JPM companies are aware of the benefits of implementing CSR dimensions.

The results also show that the relationships between CSR variables are medium, and each CSR variable has strong relationship with total CSR, which means that all three variables are related to each other and strongly related to the total of CSR, which means that improving any variable may affect other CSR variables. Furthermore, all the three variables are strongly related to business performance, and the total CSR is strongly related to business performance.

Moreover, the results indicate that the three sub-variables together affect JPM industry's business performance, at α < 0.05, and each CSR variable affects JPM industry's business performance. The environmental responsibility initiative has the highest effect on JPM industry's business performance, followed by the economic responsibility initiative, and then the social responsibility initiative; this means that customers are aware about the companies that implement CSR dimensions and reward them.

Finally, the companies that pay much attention to society, support economy and protect the environment will perform better than do not do at local and international levels.

Limitation/recommendations

This research was directed toward the managers of JPM organizations. To test the robustness of the findings, further research including employees and supervisors is recommended. This research was also directed toward pharmaceutical industry. To test the degree to which the findings can be generalized to other industries, further empirical work is needed. Therefore, further testing with cross-sectional group from a wide variety of industries will help mitigate the issue of generalizing conclusions on other industries. This research was conducted on Jordanian organizations. Generalizing results of Jordanian setting to other countries is questionable. Further empirical research works involving data collection over diverse countries are needed.



In the light of research results, the following recommendations can be suggested for pharmaceutical industry: CSR should be formulated clearly within JPM corporate strategy. The elements of CSR need to be integrated with the present performance management criteria, leadership development programs, organizational development programs, and a champion for CSR needs to be assigned. The optimal procedure for JPM industry is to focus on all three components of CSR to increase JPM Industry's business performance. Managers should design systems and set up appropriate programs for monitoring and managing CSR and related databases. Finally, JPM companies should carry out CSR programs including philanthropy.

References

Abdullah, M.H. and Abdul Rashid, N.R. (2012), "The implementation of corporate social responsibility (CSR) programs and its impact on employee organizational citizenship behavior", *International Journal of Business and Commerce*, Vol. 2 No. 1, pp. 67-75.

Abdulrahman, S. (2014), "The influence of corporate social responsibility on total assets of quoted conglomerates in Nigeria", *Journal of Business Administration and Management Sciences Research*, Vol. 3 No. 1, pp. 12-21.

Aga, G., Khan, S., Wasim, D. and Shah, A. (2012), "The impact of corporate social responsibility on the company's financial performance: a study of pharmaceuticals firms of Peshawar Pakistan", *City University Research Journal*, Vol. 3 No. 1, Article XX.

Al Emam, D. (2016), "Jordanian investments in sector stand at \$2 billion", Experts call for regional cooperation at pharmaceutical conference in Amman. First international conference of the Jordan Food and Drug Administration in Amman on Thursday. The Jordan Times News Paper, Oct 27, 2016, available at: www.jordantimes.com/.../experts-call-regional-cooperation-pharmaceutical-conferenc (accessed 8 June 2017).

Al-Ani, M.K. and Jamil, S.A. (2015), "The effect of corporate citizenship activities (CCAs) on financial performance and market performance: the Omani experience", *South East European Journal of Economics and Business*, Vol. 10 No. 1, pp. 45-54.

Al-Sukkar, A.S., Hussein, A.H. and Jalil, M.M. (2013), "The effect of social responsibility in achieving competitive advantage: field study in the governmental and private hospitals in Jordan", *International Journal of Business and Social Science*, Vol. 4 No. 5, pp. 142-152.

Arshad, R., Mansor, S.M. and Othman, R. (2012), "Market orientation, firm performance and the mediating effect of corporate social responsibility", *Journal of Applied Business Research*, Vol. 28 No. 5, pp. 851-860.

Azim, M.I. and Azam, S. (2013), "Corporate sustainability reporting by pharmaceutical companies: is it what it seems to be?", *Corporate Ownership & Control*, Vol. 11 No. 1, pp. 754-764.

Azizi, I., Saaghi, F. and Sardo, S.Y. (2014), "The impact of corporate social responsibility on consumer satisfaction (a case study: car industry in Shiraz)", *Indian Journal Science Research*, Vol. 7 No. 1, pp. 163-168.

Bakari, M.E. (2014), "Sustainability's inner conflicts: from ecologism to ecological modernization", *Journal of Sustainable Development Studies*, Vol. 6 No. 1, pp. 1-28.

Ball, A. (2002), "Sustainability accounting in UK local government: an agenda for research", The Association of Chartered Certified Accountants (ACCA) Research Report.

Bashir, R., Hassan, A. and Cheema, F.E. (2012), "Impact of corporate social responsibility activities over the employees of the organizations: an exploratory study", *Journal of Management and Social Sciences*, Vol. 8 No. 2, pp. 11-21.

Basuony, M.A., Reham, I.E. and Mohamed, E.K. (2014), "The impact of corporate social responsibility on firm performance: evidence from a MENA country", *Corporate Ownership & Control*, Vol. 12 No. 1, pp. 761-774.

Belascu, L. and Horobet, A. (2013), "On the relationship between social responsibility and financial performance – the need for theoretical convergence", *International Proceedings of Economics Development and Research*, Vol. 65 No. 7, pp. 32-36.

Betianu, L. (2010), "Indicators of the global reporting initiative regarding sustainable development", *Annales Universitatis Apulensis Series Oeconomica*, Vol. 12 No. 1, pp. 15-24.



Bidhari, S.C., Salim, U. and Aisjah, S. (2013), "Effect of corporate social responsibility information disclosure on financial performance and firm value in banking industry listed at Indonesia stock exchange". European Journal of Business and Management. Vol. 5 No. 18, pp. 39-46.

Cavanaugh, T.E., Oza, A. and Bennett, C.J. (2005), "The measure of success: evaluating corporate citizenship performance", The Conference Board.

Chao, G., Zhang, S. and Du, Z. (2010), "The effect study of corporate social responsibility on corporate reputation and consumer purchase intentions", The 2010 Conference on Management in China, Lanzhou, pp. 26-32, (accessed 13-15 August 2010).

Chirimubwe, R.G. (2015), "The impact of corporate social responsibility on brand awareness: a case study of Unilever Zimbabwe Private Ltd", International Journal of Innovative Research & Development, Vol. 4 No. 5, pp. 322-332.

Dabbas, M. and Al-Rawashdeh, S.T. (2012), "The effect of corporate social responsibility on the profitability of the industrial companies in Jordan", Canadian Social Science, Vol. 3 No. 4, pp. 32-37.

Dalal-Clayton, B. and Sadler, B. (2009), Sustainability Appraisal: A Sourcebook and Reference Guide to International Experience, Routledge, London.

de Jongh, D. (2014), "A convergence of many disciplines", 3rd International Conference on Responsible Leadership, 5-6/11/2014, Conference Abstracts, Albert Luthuli Centre for Responsible Leadership, Faculty of Economic and Management Sciences, University of Pretoria, South Africa.

Ding, L., (2014), "A study on relation of corporate social responsibility and corporate financial performance or corporate value: empirical evidence from listed real estate companies".

Dodd, M.D. and Supa, D.W. (2011), "Understanding the effect of corporate social responsibility on consumer purchase intention", Public Relations Journal, Vol. 5 No. 3, pp. 1-19.

Dzhavdatovna, K.A., Rishadovna, G.R. and Alexandrovna, R.O. (2015), "Influence of corporate social responsibility (CSR) on financial efficiency of company", Asian Social Science, Vol. 10 No. 24, pp. 172-177.

El-Garaihy, W.H., Mobarak, A.M. and Albahussain, S.A. (2014), "Measuring the impact of corporate social responsibility practices on competitive advantage: a mediation role of reputation and customer satisfaction", International Journal of Business and Management, Vol. 9 No. 5, pp. 109-124.

Emezi, C.N. (2015), "The impact of corporate social responsibility (CSR) on organization profitability", International Journal of Business and Management, Vol. 10 No. 9, pp. 60-67.

Estiasih, S.P., Oetomo, H.W., Asyik, N.F. and Riduwan, A. (2015), "The influence of corporate social responsibility and good corporate governance on firm value: the characteristic of the company as moderating variable", International Journal of Business and Behavioral Sciences, Vol. 5 No. 2, pp. 11-23.

Farlex (2012), "Farlex financial dictionary", available at: http://financial-dictionary.thefreedictionary.com/ Corporate+Citizenship (accessed 5 October 2015).

Ferreira, P. and Oliveira, E.R. (2013), "Does corporate social responsibility impact on employee engagement?", Journal of Workplace Learning, Vol. 26 Nos 3/4, pp. 232-247.

Finn, D. (2009), Our Uncertain Future: Can Good Planning Create Sustainable Communities?, University of Illinois at Urbana-Champaign, Champaign, IL, pp. 3-8.

Gathungu, J.M. and Ratemo, Z.N. (2013), "An assessment of the impact of corporate social responsibility on strategic intent at standard chartered bank Kenya limited", International Journal of Education and Research, Vol. 1 No. 5, pp. 1-16.

Ghorbani, H., Abdollahi, S.M. and Chini, M. (2013), "An empirical investigation on the impact of corporate social responsibility on Brand equity within perceived service quality framework", Mediterranean Journal of Social Sciences, Vol. 4 No. 6, pp. 119-125.

Hawkins, D. (2004), "AMIR 2.0 achievement of market-friendly initiatives and results program", Agency for International Development for AMIR Program in Jordan, available at: http://pdf.usaid.gov/pdf_docs/ Pnadc280.pdf (accessed 8 June 2017).

Hendrix, M.K. (2014), Sustainable Backyard Polyculture: Designing for Ecological Resiliency, Smashwords ebook edition, Hendrix Library of Congress Cataloging-in-Publication Data, USA.

Heydarian, B., Zali, R. and AliZadeh, H. (2013), "Identify the determinants of corporate social responsibility and its impact on financial performance", International Journal of Social and Economic Sciences, Vol. 3 No. 2, pp. 68-73.



Hsieh, Y.H. (2014), "Evaluating the mediating effect of perception of corporate social responsibility commitment", *Journal of Testing and Evaluation*, Vol. 42 No. 6, pp. 1438-1449.

Hyks, O. (2015), "The Influence of Corporate Social Responsibility Activities on Economic Results in Automotive Industry in Czech Republic", *The 2015 West East Institute (WEI) International Academic Conference Proceedings, Barcelona*, pp. 176-180.

Investopedia (2015), "Corporate citizenship definition", available at: www.investopedia.com/terms/c/corporatecitizenship (accessed 3 October 2015).

Iqbal, N., Ahmad, N., Basheer, N.A. and Nadeem, M. (2012), "Impact of corporate social responsibility on financial performance of corporations: evidence from Pakistan", *International Journal of Learning & Development*, Vol. 2 No. 6, pp. 107-118.

Islamic Corporation for the Insurance of Investment and Export Credit (ICIEC) (2016), "The 22 annual report: for more than two decades making business transactions less risky & more competitive", Jeddah, available at: www.iciec.com/pdf/ICIEC%20AR%202016%20(ENGLISH).pdf (accessed 8 June 2017).

Jamali, H., Sutrisno, T., Subekti, I. and Assih, P. (2015), "The influence of corporate governance and corporate social responsibility on financial performance with efficiency as mediating variable", *International Journal of Business and Management Invention*, Vol. 4 No. 5, pp. 1-10.

James, P., Magee, L., Scerri, A. and Steger, M.B. (2015), *Urban Sustainability in Theory and Practice: Circles of Sustainability*, Routledge, London and New York NY.

Junipriansa, D. and Damayanti, F. (2014), "The influence of corporate social responsibility (CSR) for micro, small, and medium enterprises at Kampoeng Bni Subang towards corporate image of PT BNI TBK", *Prosiding Seminar Nasional Penelitiandan PKM Sosial, Ekonomi dan Humaniora*, Vol. 4 No. 1, pp. 359-366.

Kahle, L.R. and Gurel-Atay, E. (2014), Communicating Sustainability for the Green Economy, M.E. Sharpe, New York NY.

Kanj, G.K. and Chopra, P.K. (2010), "Corporate social responsibility in a global economy", *Total Quality Management*, Vol. 21 No. 2, pp. 119-143.

Kaur, B. (2015), "Impact of corporate social responsibility on the performance of the companies", *Journal for Studies in Management and Planning*, Vol. 1 No. 2, pp. 192-195.

Kazemi, A. and Omidi, F. (2015), "The effect of corporate social responsibility on customers s loyalty with regard to the role of trust, identification and satisfaction of customer", *Natural Science*, Vol. 13 No. 7, pp. 68-74.

Khan, M. and Majid, A. (2013), "The effect of corporate social responsibility on profitability and market share: a case of cement industry of Pakistan", *Academic Journal of Management Sciences*, Vol. 2 No. 1, pp. 44-62.

Kim, C.H. and Scullion, H. (2013), "The effect of corporate social responsibility (CSR) on employee motivation: a cross-national study", *Poznan University of Economics Review*, Vol. 13 No. 2, pp. 5-30.

Kweyama, F.S., Cassim, S., Munapo, E. and Mutambara, E. (2015), "Impact of corporate social responsibility on employee engagement: a case of Eskom in South Africa", *Corporate Board: Role, Duties & Composition*, Vol. 11 No. 2, pp. 80-97.

Lakra, P. (2014), "Corporate social responsibility effect on human right standards and sustainability and CSR effect on various Indian corporate", *IOSR Journal of Business and Management (IOSR-JBM)*, Vol. 16 No. 4, pp. 96-101.

Lapinskiene, G. and Peleckis, K. (2009), "Impact of sustainable development indicators on economic growth: Baltic countries in the context of developed Europe", *Business: Theory and Practice*, Vol. 10 No. 2, pp. 107-117.

Leeuw, F.V. and Scheerlinck, I. (2011), "What shapes companies: corporate sustainability? Belgian pharma businesses: views on global sustainable development", *International Business & Economics Research Journal*, Vol. 2 No. 12, pp. 65-78.

Lin, C.P., Lyau, N.M., Tsai, Y.H., Chen, W.Y. and Chiu, C.K. (2010), "Modeling corporate citizenship and its relationship with organizational citizenship behaviors", *Journal of Business Ethics*, Vol. 95 No. 3, pp. 357-372.

Malik, M.S. and Nadeem, M. (2014), "Impact of corporate social responsibility on the financial performance of banks in Pakistan", *International Letters of Social and Humanistic Sciences*, Vol. 21, pp. 9-19.



Mandasari, P.Y. and Hanif, K.R. (2013), "The influence of corporate social responsibility to firm value with profitability and leverage as a moderating variable (Studi Empiris Pada Perusahaan manufaktur Yang Terdaftar Di Bei Tahun 2010-2012)", Jurnal Ekonomi, Vol. 21 No. 4, pp. 1-20.

Mani, A. (2013), "Evolving corporate sustainable development - Andhra Pradesh Paper Mills Limited", International Journal of Advanced Research in Management and Social Sciences, Vol. 2 No. 6, pp. 111-130.

Manyasi, J.N. and Masinde, S.W. (2014), "Effect of employee focused corporate social responsibility initiatives on performance of sugar manufacturing firms in Kenya", Journal of Business Management & Social Sciences Research (JBM & SSR), Vol. 3 No. 1, pp. 33-42.

Marquina, P. (2010), "The influence of corporate social responsibility on Peruvian's consumers purchasing behavior", Journal of Leadership, Accountability and Ethics, Vol. 8 No. 2, pp. 70-79.

Mehar, A. and Rahat, F. (2007), "Impact of corporate social responsibility on firm's financial performance", South Asian Journal of Management Sciences, Vol. 1 No. 1, pp. 16-24.

Mirabi, V.R., Asgari, A., Tehrani, A.G. and Moghaddam, B.H. (2014), "The impact of corporate social responsibility (CSR) on the Brand preference in banking industry (the case study: banks of Mellat and Refah in Iran)", Arabian Journal of Business and Management Review, Vol. 3 No. 7, pp. 476-487.

Mishra, S. and Suar, D. (2010), "Does corporate social responsibility influence firm performance of Indian companies?", Journal of Business Ethics, Vol. 95 No. 4, pp. 571-601.

Mousavi, Z. (2013), "Effect of corporate social responsibility on capital market", Journal of Novel Applied Sciences, Vol. 2 No. 12, pp. 713-715.

Mujahid, M. and Abdullah, A. (2014), "Impact of corporate social responsibility on firms financial performance and shareholders wealth", European Journal of Business and Management, Vol. 4 No. 2, pp. 181-187.

Mumbunan, C., Sumardjo, A.S. and Hermawan, A. (2015), "Corporate sustainable development model: employee perceptions from gold mining and aluminum smelting companies in Indonesia", European Journal of Business and Management, Vol. 7 No. 23, pp. 55-60.

Mumtaz, M. and Pirzada, S.S. (2014), "Impact of corporate social responsibility on corporate financial performance", Research on Humanities and Social Sciences, Vol. 4 No. 14, pp. 7-15.

Murtaza, I.A., Akhtar, N., Ijaz, A. and Sadiqa, A. (2014), "Impact of corporate social responsibility on firm financial performance: a case study of Pakistan", International Review of Management and Business Research, Vol. 3 No. 4, pp. 1914-1927.

Mwangi, C.I. and Jerotich, O.J. (2013), "The relationship between corporate social responsibility practices and financial performance of firms in the manufacturing, construction and allied sector of the Nairobi securities exchange", International Journal of Business, Humanities and Technology, Vol. 3 No. 2, pp. 81-90.

Nguyen, C.N., Alikaj, A. and Medina, E. (2015), "The moderating effect of industry concentration on the relationship between corporate social responsibility and firm performance", 19th Annual Western Hemispheric Trade Conference, April 15-17, 2015, Laredo TX, p. 352.

O'Brien, P. (2010), "Norway - sustainable development: climate change and fisheries policies", OECD Economics Department Working Papers, No. 805, OECD Publishing, available at: http://dx.doi.org/ 10.1787/5km68fzsk9xs-en (accessed 5 October 2015).

Palmer, K., Oates, W.E. and Portney, P.R. (1995), "Tightening environmental standards: the benefit-cost or the no-cost paradigm?", The Journal of Economic Perspectives, Vol. 9 No. 4, pp. 119-132.

Papadopoulos, D., Dimitriadis, E., Chatzoudes, D. and Andreadou, O. (2011), "The impact of corporate social responsibility (CSR) policies on perception and behavioral intension of Greek consumers", Scientific Bulletin – Economic Sciences, Vol. 10 No. 1, pp. 93-102.

Persic, A. and Markic, M. (2013), "The impact of social responsibility vision and strategy on successful corporate operations", Managing Global Transitions: International Research Journal, Vol. 11 No. 1, pp. 27-40.

Podrug, N. (2011), "The strategic role of managerial stewardship behaviour for achieving corporate citizenship", Ekonomski Pregled, Vol. 62 Nos 7/8, pp. 404-420.

Rafiei, F. and Fard, M.G. (2015), "Review the effect of social responsibility of real state in the banking sector (directly or indirectly), on the national bank's customer loyalty", International Journal Biology, Pharmacy and Allied Sciences, Vol. 4 No. 3, pp. 967-984.



Rahmawati, Y., Utomo, C., Anwar, N., Setijanti, P. and Nurcahyo, C.B. (2014), "An empirical model for successful collaborative design towards sustainable project development", *Journal of Sustainable Development*, Vol. 7 No. 2, pp. 1-14.

Rashid, M., Abdeljawad, I., Ngalim, S.M. and Hassan, M.K. (2013), "Customer-centric corporate social responsibility a framework for Islamic banks on ethical efficiency", *Management Research Review*, Vol. 36 No. 4, pp. 359-378.

Razafindrambinina, D. and Sabran, A. (2014), "The impact of strategic corporate social responsibility on operating performance: an investigation using data envelopment analysis in Indonesia", *Journal of Business Studies Quarterly*, Vol. 6 No. 1, pp. 68-78.

Richard, E.O. and Okoye, V. (2013), "Impact of corporate social responsibility on the deposit money banks in Nigeria", *Global Business and Economics Research Journal*, Vol. 2 No. 3, pp. 71-84.

Sahin, K., Basfirinci, C.S. and Ozsalih, A. (2011), "The impact of board composition on corporate financial and social responsibility performance: evidence from public-listed companies in Turkey", *African Journal of Business Management*, Vol. 5 No. 7, pp. 2959-2978.

Sawant, P.D. (2014), "Corporate social responsibility of select pharma companies in India: an exploratory study", *Global Journal of Commerce and Management Perspective*, Vol. 3 No. 4, pp. 205-219.

Senthikumar, N., Ananth, A. and Arulraj, A. (2011), "Impact of corporate social responsibility on customer satisfaction in banking service", *African Journal of Business Management*, Vol. 5 No. 7, pp. 3028-3039.

Servaes, H. and Tamayo, A. (2013), "The impact of corporate social responsibility on firm value: the role of customer awareness", *Management Science*, Vol. 59 No. 5, pp. 1045-1061.

Shahin, M.A. (2017), "Local pharma: a model industry", Venture Magazine (Levant Business Intelligence), 26 March, available at: www.venturemagazine.me/2017/03/local-pharma-model-industry/ (accessed 8 June 2017).

Stancu, A., Grigore, G.F. and Rosca, M.I. (2011), "The impact of corporate social responsibility on employees", 2011 International Conference on Information and Finance IPEDR, IACSIT Press, Singapore, Vol. 21, pp. 11-16.

Susanti, F., Fenny, M. and Rini, I. (2012), "The influence of corporate social responsibility to firm value with profitability and leverage as a moderating variable", *The 13th Malaysia Indonesia Conference on Economics, Management and Accounting (MIICEMA)*, Universitas Sriwijaya Palembang, Kota Palembang, pp. 360-373.

The World Business Council for Sustainable Development (2000), Social Responsibilities, FFA Private Bank, available at: www.ffaprivatebank.com/social-resposibilities

Togun, O.R. and Nasieku, T. (2015), "Effect of corporate social responsibility on performance of manufacturing companies in Nigeria", *International Journal of Current Advanced Research*, Vol. 4 No. 8, pp. 228-233.

Tuzcu, A. (2013), "The impact of corporate social responsibility perception on the job satisfaction and organizational commitment", *Fifteenth Annual International Conference Reading Book*, July 2nd-6th, *Global Business and Technology Association*, *Helsinki*, pp. 1224-1233.

Ukpabi, D.C., Ikaba, Y.V., Enyindah, C.W., Orji, O.G. and Idatoru, A.R. (2014), "Impact of corporate social responsibility on organisational effectiveness: an empirical analysis of oil and gas industry in the Niger Delta, Nigeria", *IOSR Journal of Business and Management (IOSR-JBM)*, Vol. 16 No. 12, pp. 32-36.

United Nations (1987), "Report of the world commission on environment and development", General Assembly Resolution 42/187, 11 December 1987, available at: www.un-documents.net/wced-ocf.htm (accessed 5 October 2015).

United Nations (2005), "2005 World summit outcome, resolution A/60/1", *Resolution adopted by the General Assembly (60/1. 2005 World Summit Outcome) on 24 October 2005*, available at: http://unpan1.un.org/intradoc/groups/public/documents/un/unpan021752.pdf (accessed 5 October 2015).

United Nations (2014), "Prototype global sustainable development report", United Nations Department of Economic and Social Affairs, Division for Sustainable Development, New York, July 2014, available at: http://sustainabledevelopment.un.org/globalsdreport/ (accessed 5 October 2015).

Wang, B. and Zhang, Y. (2012), "Research on the relativity between Chinese corporate social responsibility and the financial performance", Orient Academic Forum, pp. 142-146.



Wood, D.J. (1991), "Corporate social performance revisited", Academy of Management Review, Vol. 16 No. 4, pp. 691-718.

Yahya, W.K. and Ha, N.C. (2014), "Investigating the relationship between corporate citizenship culture and organizational performance in the Malaysian context", Asian Academy of Management Journal, Vol. 19 No. 1, pp. 47-72.

Yoon, Y., Gürhan-Canli, Z. and Schwarz, N. (2006), "The effect of corporate social responsibility (CSR) activities on companies with bad reputations", Journal of Consumer Psychology, Vol. 16 No. 4, pp. 377-390.

Zaid, M.K. and Al-Manasra, E.A. (2013), "The impact of corporate social responsibility dimensions on organizational attractiveness in Jordanian commercial banks", European Journal of Business and Management, Vol. 5 No. 12, pp. 175-183.

Further reading

Honggowati, S. and Supriyono, E. (2014), "The effect of corporate social responsibility on financial performance with real manipulation as a moderating variable", International Journal of Management, Economics and Social Sciences, Vol. 3 No. 2, pp. 59-78.

About the author

Abdel-Aziz Ahmad Sharabati holds BSc pharmacy (India), MBA (Palestine) and PhD business management (Jordan). He has worked for 20 years in pharmaceutical industry and published more than 40 papers; some of them have been published in journals and others presented in international conferences. Currently, he is working as a Lecturer in Middle East University and as a Consultant in Jerusalem Pharmaceutical Manufacturing Company. Abdel-Aziz Ahmad Sharabati can be contacted at: APharmaArts@Gmail.Com

For instructions on how to order reprints of this article, please visit our website: www.emeraldgrouppublishing.com/licensing/reprints.htm Or contact us for further details: permissions@emeraldinsight.com



Reproduced with permission of copyright owner. Further reproduction prohibited without permission.

