"Does Organizational Culture Influence the Ethical Behavior in the Pharmaceutical Industry?"

Molugulu Nagashekhara¹ and Syed Omar Syed Agil²

¹Masterskill College of Nursing and Health, KK Metro Branch, Kota Kinabalu, Sabah, Malaysia.
²Professor and Deputy Dean, Razak School of Government, Universiti Tun Abdul Razak, Capital Square, Block C & D No. 8, Jalan Munshi Abdullah, 50100 Kuala Lumpur, Malaysia.

INTRODUCTION

The scandals in the pharmaceutical companies around the world are rising at an alarming level. There are adequate numbers of scandals in the pharmaceutical industry in India too. To name a few in 2010, drug inspectors in India confiscated spurious and forged drugs across various retail drug stores and identified a series of drug stores linked to this racket. In addition to this, the drug control department tracked down on a drug manufacturer and drug dealer and charged several cases including label tampering [1]. These unethical practices in the Indian pharmaceutical industry have become rampant and getting the attention of media. Outdated regulations, cut throat competition, irresponsible promotion of pharmaceutical products, and unethical professional relationship between pharmaceutical company professional and medical fraternity are some of the fundamental reasons for unethical practices. All these factors may lead to irrational or untrained medical representatives, huge number of medical representatives without the proper product knowledge, and forceful competition among the medical representatives. Authors conclude that apart from organizational culture, the study of additional organizational, individual and external factors are imperative for better understanding of ethical behavior of medical representatives in the pharmaceutical industry in India.

ABSTRACT

Study of ethical behavior among medical representatives in the profession is an under-portrayed component that deserves further perusal in the pharmaceutical industry. The purpose of this study is to find out the influence of organizational culture on ethical behavior of medical representatives. Medical representatives working for both domestic and multinational companies constitutes the sample (n=300). Data is collected using a simple random and cluster sampling through a structured questionnaire. The research design is hypothesis testing. It is a cross-sectional and correlational study, conducted under non-controled settings. Chi-square tests were shows that there is an association between the organizational culture and ethical behavior of medical representatives. In addition, the strength of the association is measured which report to Cramer’s V of 63.1% and Phi Value of 2.749. Results indicate that multinational company medical reps are more ethical compared to domestic company medical representatives vast difference in both variance and in t test results. Through better organizational culture, pharmaceutical companies can create the most desirable behavior among their employees. Authors conclude that apart from organizational culture, the study of additional organizational, individual and external factors are imperative for better understanding of ethical behavior of medical representatives in the pharmaceutical industry in India.

KEY WORDS

Medical representatives, ethical behavior, organizational culture.
is a significant difference in the ethical behavior among medical representatives in domestic and multinational pharmaceutical companies in India?

Numerous studies are available on the influence of organizational culture on ethical behavior of sales representatives. However, there are very few or no studies on the given topic in pharmaceutical industry especially in an Indian scenario. Hence, this study hypothesizes organizational culture exert influence on medical representatives in the pharmaceutical industry.

The organizational culture potentially exerts a strong influence on employees’ ethical behavior [10,11]. The organizational culture, values and/or climate strongly affect individual ethical decision-making [11,12]. In the sales field, an organizational ethical climate is governed by rules and standards that provide a logical avenue for the salesperson to promote their products within the boundaries of ethics. Existence of companywide standards of ethical behavior enhances salespersons confidence on the management and the individual will behave ethically [13]. In contrast to this, there are doubts on the organizational ethical climate on the influence of employees’ ethical behavior [9]. In addition to this, it is argued that though there is good organizational culture and managers input, its influence on the ethical behavior of employees is unconvincing [14]. Hence, this study hypothesizes the organizational culture and ethical behavior as,

$$H_0: \alpha = \epsilon$$

where, $\alpha$ is organizational culture and $\epsilon$ is ethical behavior of medical representatives. Supported by Stead, E W et al., (1990); Schwartz, (2001).

H1. There is a significant relationship between organizational culture and ethical behavior of medical representatives in the domestic and multinational pharmaceutical companies.

$$H_1: \alpha > \epsilon$$

where, $\alpha$ is organizational culture and $\epsilon$ is ethical behavior of medical representatives. Supported by Trevino, (1986); Worruba, (1990); Sean Valentine et al., (2002).

The need to study the influence of organizational culture on ethical behavior of medical representatives in pharmaceutical industry in India is imperative because, the organizational culture which by itself includes various facets such as physical settings and dress codes, special language, myths, rituals, heroes and stories. Organizational culture may vary according to the organization, even within the same industry. In this study, the measurement of organizational culture is quantified by the variables namely, ethical climate, role of managers and their communication. As the ethical behavior of the representatives is strongly influenced by ethical climate and manager’s influence, it is important to study organizational culture influences on the ethical practices of medical representatives.

### Results

Data is gathered through a structured questionnaire and personal visits. The survey instruments such as organizational culture and ethical behavior of medical representatives were measured for their reliability. Organizational culture scale consists of 16 items. The correlation between the items is more than 0.9. Maximum scale mean if item deleted is 44.670 and maximum scale variance if item deleted is 66.997. The average Cronbach’s Alpha value for the organizational culture variable is 0.744. The item, presenting reward gets the maximum Cronbach’s Alpha value. The dependent variable (ethical behavior) scale consists of 12 items. There is a good correlation between the items. Maximum scale mean if item deleted is 33.513 and maximum scale variance if item deleted is 75.910. The average Cronbach’s Alpha value for the ethical behavior scale variable is 0.916.

| Table 1.0: Demographic description of medical representatives |
|------------------------------------------------------------|
| **Gender** | **Male** | **Female** |
| Diploma | 214 | 71.0 |
| Degree | 151 | 71.0 |
| Company type | 86 | 29.0 |
| Domestic | 71.0 | 29.0 |
| Multinational | 71.0 | 29.0 |

**Inclusion criteria:**
Medical representatives working for domestic and multinational pharmaceutical companies in allopathic formulations with at least a year of experience were selected as study population.

**Exclusion criteria:**
Medical representatives working for domestic and multinational pharmaceutical companies in Ayurvedic and Homeopathic formulations were excluded from the study.

**METHODOLOGY**
It is a mixed method study. The qualitative part consists of obtaining directions and suggestions of the first line managers and senior medical representatives of the pharmaceutical marketing and sales field, through a Delphi technique. This helped to prepare the instruments for both organizational culture and ethical behavior of medical representatives. This study employs the use of hypothesis statistical testing and utilizes both descriptive and inferential statistics to test the hypothesis. Data is collected from the medical representatives through a structured questionnaire ($n=300$) by using simple random and cluster sampling. It is a correlation study and conducted in a non-contrived setting. The study mainly focused on the ethical behavior of medical representatives so the unit of analysis is an individual (medical representative). The data was collected only once in the study for a period of fifteen weeks through personal interviews from north, south coastal and central parts of Karnataka state, India. The scope of this research focuses on pharmaceutical industries and the products related to allopathic formulations. Data is analyzed using SPSS software version 18.0 [15].
Normality tests were carried out for both dependent and independent variables. In the table 2.0, all z values of skewness and kurtosis are within the range of -2.58 to +2.58. However, organizational culture shows a negative skewness of more than one (-0.711). This variable need not be transformed to natural log as it is close to standard one. Only abnormal skewness of two or three needs transformation [16]. Thus, it is evident that the variables have relatively normally distribution.

In the present study, data is collected from different segments in order to find out the influence of organizational culture on ethical behavior of medical representatives. In addition to this, data is collected from the right respondents (medical representatives). Content validity of the instrument carried out through a Delphi technique by interviewing the first line managers, regional managers and some senior medical representatives working in both domestic and multinational pharmaceutical industry in Bangalore, Karnataka, India. A pilot study using a sample of n=30, was also carried out to validate the instruments used in the present study.

The Chi-Square test result shows that the organizational culture is positively related to the ethical behavior of medical representatives as the significance level is 0.000. In addition to this, the Phi value (2.749) and the Cramer’s V (63.1%) show the strength of the association between organizational culture and ethical behavior of medical representatives. Hence, it concluded definitely that organizational structure influences the ethical behavior of medical representatives. This result is also confirmed by [10,11,12].

In this study, the domestic company’s medical representative’s ethical behavior is compared with the multinational company’s medical representative’s ethical behavior by using independent sample t-test which compares the two means for their significant differences.

Ethical behavior mean score for medical reps working in multinational pharmaceutical companies is 44.407, and for medical reps working in domestic pharmaceutical companies are 33.164, which indicates multinational company medical reps are more ethical compared to domestic company medical representatives.

| Variable            | Mean  | Std. Deviation | Skewness | Kurtosis | Minimum | Maximum |
|---------------------|-------|----------------|----------|----------|---------|---------|
| Ethical behavior    | 36.387| 9.241          | -0.129   | -1.126   | 19      | 53      |
| Organizational culture | 47.380| 7.771          | -0.711   | 1.316    | 26      | 64      |

| Table 3.0: Association testing between organizational culture and ethical behavior. |
|----------------|----------------|----------------|
| Value          | Df             | Asymp. Sig. (2-sided) |
| Pearson Chi-Square | 2266.781   | 475             | 0.000       |
| Likelihood Ratio      | 1045.409   | 475             | 0.000       |
| Linear-by-Linear Association | 50.939     | 1              | 0.000       |
| Symmetric Measures   | Value        | Approx. Sig.    |
| Phi                   | 2.749        | 0.000           |
| Cramer’s V            | 0.631        | 0.000           |

| Table 4.0: Opinion of domestic and multinational companies’ medical representatives. |
|----------------|----------------|----------------|
| Company type   | N              | Mean           | Std. Deviation | Std. Error Mean |
| Organizational culture |
| Domestic       | 214            | 46.654         | 8.226          | 0.562           |
| Multinational  | 86             | 49.186         | 6.184          | 0.667           |
| Ethical behavior |
| Domestic       | 214            | 33.164         | 8.558          | 0.585           |
| Multinational  | 86             | 44.407         | 5.063          | 0.546           |
Table 5.0: Ethical behavior of medical representatives in domestic and multinational companies.

|                         | Levene’s Test for Equality of Variances | t-test for Equality of Means |
|-------------------------|----------------------------------------|-----------------------------|
|                         | F   | Sig. | T    | Df  | Sig. (2-tailed) | Mean Diff. | Std. Error Diff. | 95% Confidence Interval of the Difference |
| Organizational culture  | 1.995 | 0.159 | -2.576 | 298 | 0.010 | -2.532 | 0.983 | -4.466 | -0.597 |
| Ethical behavior        | 36.346 | 0.000 | -11.401 | 298 | 0.000 | -11.243 | 0.986 | -13.184 | -9.303 |

In the case of ethical behavior there is a vast difference in both variance and in t test results. The groups behavior is not only different but also there is a big gap between the two groups (mean difference is -11.243). This requires additional attention by some domestic pharmaceutical companies to adopt and adapt to the standards and guidelines of professional bodies like IFPMA or IDMA or OPP. In addition to this the top level managers should be role models in following ethical principles in the promotion of pharmaceutical products.

In the case of organizational culture, the Levene’s test shows a significance of 0.159 which shows in culture both the groups variances are similar and no difference. But in case of ethical behavior, representatives of multinational pharmaceutical companies have significant difference when compared to domestic pharmaceutical companies (p=0.000). Hence, based on the findings, the null hypothesis is rejected. It is concluded that there is a significant relationship between organizational culture and ethical behavior of medical representatives in both domestic and multinational companies in India.

CONCLUSION

An ethical organizational culture is imperative for any industry. In an ethical and strong organizational culture, standards and guidelines are known and shared by all the employees from top level managers to medical representatives, and provides a common direction for day-to-day behavior. If the organizational culture is weak or unethical, behavioral consistency among employees is difficult [17]. Through better organizational culture, pharmaceutical companies can create the most desirable behavior among their employees [18]. The research also support that in domestic pharmaceutical companies, medical representatives unethical actions may be explained by a lack of strict organizational mandates and influence of managers on unethical behaviors. In some of these domestic pharmaceutical companies, unethical behaviors by the subordinates (medical representatives) were either ignored or given tacit approval by their first line or regional managers as long as sales goals are met [19].

As nuclear generator plants and aviation are high-risk industries, chemical industry, and pharmaceutical industry are also high-risk industries. Nevertheless, the importance to the aviation accidents and the nuclear accident in the media masquerade the mistakes committed by pharmaceutical industry in India. This is largely may be because of the greediness of the pharmaceutical companies in making profits, ignorance among public, lack of powers to the drug controller department, weak regulatory system by the government, cut throat competition and last but not least is the corruption at all the levels from registration of the drug till the dispensing of drugs to the patients. However, this problem continues to exist and the society is suffering at large in many ways through irresponsible promotion of drugs by pharmaceutical companies which leads to irrational drug use by doctors. This problem finally leads to affordability of drugs to poor patients, availability of the right medication to patients. According to the literature reviews, organizational characteristic factors such as organizational culture, leadership style and the degree of leaders’ involvement communication systems, and human resource management methods [20,21] could shape the successful implementation of ethics in the pharmaceutical industry. Hence, the author strongly recommends future studies should consider other organizational factors such as rewarding system, incentive scheme, ethical training and presence of code of ethics in the pharmaceutical industry. However, individual factors such as locus of control, achievement orientation, Machiavellianism, perception of individuals on marketing norms or regulations, job satisfaction etc. will be constructive variables in studying the ethical behavior. In addition to this, some external factors such as competition, influence of doctors, regulation system, political influence is also very important to consider.

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