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The Development and Validation of the Organisational Ethical Behaviour Questionnaire of Medical Representatives

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Abstract

Ethics has emerged as one of the major issues facing organizations. This focus is perhaps stimulated by an increase in publicity about unethical practices by organizations and their management. Although the literature has many studies on organisational ethical behaviour(Geeta, Pooja& Mishra, 2016), there is a lack of research on examining the factors influencing the organisational ethical behaviour by using qualitative study. The aim of this study was to develop and validate an instrument used to measurethe organisational ethical behaviour of medical representatives in Kerala.

To assess the reliability and validity of the instrument, a random sample of 198 medical representatives were selected and the questionnaire was given. On the responses collected, exploratory factor analysis was carried out to ensure the factorial validity of the instrument. Sample adequacy was validated using Kaiser-Meyer-Olkin test. A principle component analysis was applied to extract the factors. The internal consistency and reliability of the factors was assessed using Cronbach alpha.

The factorial validity was ensured by performing PCA were the factor loading coefficient were greater than 0.4 and the cumulative percentage of the variance extracted was 78 percentage. The KMO test ensured the sample adequacy with the value of 0.657. The internal reliability of the questionnaire was reasonable with a Cronbach values greater than 0.75.

The study demonstrated that the newly developed instrument has a good level of properties measured as content and factorial validity, internal consistency and reliability.

Keywords:Scaledevelopment, Scalevalidation, Quantitative methods, Organisational ethical behaviour questionnaire, Medical representatives

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1. Introduction

Business ethics is a highly discussed and debated subject in today's corporate and business world, as well as in educational and academic circles (Brown, Trevino, & Harrison, 2005). Organizations that are inclined towards performing according to ethical standards, morals and values, have recognized the importance and significance that ethical procedures and policies are communicated and practiced throughout the entire organization, while at the same time becoming a priority for the administration of the organization (Brimmer, 2007). Organizational ethical behaviour concerns the moral values individuals practice based on an established standard in an organization (Bishop, 2013). The values and principles of an organization are embedded in its organizational ethical culture, which, as Huhtala, Tolvanen, Mauno, and Feldt (2014) note, improves organizational commitment, trust, and well-being. Mayer *et al.* (2011) proposed three key components of an ethical environment - ethical leadership, ethical practices, and an ethical climate.

Ethical behaviour in the marketplace is of critical importance to medical representatives, first line and second line managers in their pharmaceutical companies and it is a concern that reflects both human resources and economic issues. Ethics Research Center indicates that 90 percent of sales force feels that their organizations should do what is ethically and morally right and not just what is profitable to the organization (Verschoor, 2000). The perception of ethical issues in the pharmaceutical industry is largely negative and highlights the scrutiny placed on pharmaceutical companies. The most prominent issues reported are drug safety, pricing, data disclosure, importation, clinical study design, marketing restrictions, DTC advertising, animal testing, international market, developing countries, issues related to vaccines, growth of drug counterfeiting, the cost effectiveness of treatments, and in the last ten years the Pharmaceutical fraud (Valverde, 2012).

The previous research on ethical behaviour in the pharmaceutical industry has strongly indicated the importance of in-depth study in this field. Some of the recently established scales to evaluate ethics in the organisation are Ethical Evaluation Questionnaire

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(Toker,2017), Ethical sensitivity questionnaire (Muramatsu et al.,2019), Ethical Leadership Questionnaire (Langlois,2014), Ethical leadership at work questionnaire -ELW (Karianne,2011), The German Ethical Culture Scale - GECS (Tanner,2019). However, most of these scales were developed for evaluating the organisational ethics, there are very less published scales to measure the organisational ethical behaviour of the medical representatives in the Indian context. Therefore, a scale was developed to measure the organisational ethical behaviour of the medical representatives and its reliability and validity examined.

2. Methods

The initial pool of questionnaire items was created through a qualitative study (Suriyaprakash&Stephan, 2022). The study was conducted in the pharmaceutical companies in Kerala. The respondents were the sales managers of the pharmaceutical companies. The sales managers were interviewed because they could give holistic views on the ethical behaviour of the medical representatives. If the medical representatives were interviewed the responses would have been biased. A sample of 12 sales managers was utilized in the study. An organised questionnaire was administered to the respondents. Saturation is utilised in qualitative research as a norm for discontinuing data collection. In the interviews, when the researcher commence to hear the same comments repeatedly, data saturation is being reached. It is then time to halt collecting information. After interviewing 12 respondents the fresh data incline to be redundant of data already collected. Data from individual respondents was collected through purposive sampling method.

Semi-structured interview method was used in the study. The study was conducted during November 2019 to January 2020. Face to face and telephonic interviews with sales managersof 12 pharmaceutical companies were conducted. The time taken for each interview was more than one hour. The interviews were recorded utilizing a phone and important points were noted down. Self-developed questionnaire was utilized for qualitative data collection. The questionnaire comprised of 5 questions was designed and administered to all sales managers in the pharmaceutical companies by the researcher. The aim of the questionnaire was to investigate the dominant factors that influence the medical representatives organisational ethical behaviour. The questions in the questionnaire were made short and clear in order to ensure that it takes the respondents not more than 30 minutes to answer and therefore encourage participation.

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The responses were documented utilizing the voice recorder and written notes. The responses gathered were scrutinized utilizing ThematicAnalysis.It is a technique utilized for identifying, analyzing and reporting patterns (themes) within the data (Braun & Clarke, 2006). However, it also often goes further than this, and interprets various aspects of the research topic (Boyatzis, 1998). The following six stages of thematic analysis were conducted (Braun and Clarke, 2006): familiarization of data, generate initial codes, search for themes, review themes, define and name the themes and produce the report. While the six phases are reported in a linear fashion, an iterative approach was favored to enhance the richness and depth of the findings.

Table 1 shows all the preliminary themes that were identified in the extract, along with the codes associated with them. All the codes fit into five main themes.

Table 1: Codes and Themes

Codes	Common Themes
Motivating the medical representatives.	
Giving medical representatives additional	
responsibilities and challenges.	
Open and caring relationship with the	
medical representatives.	
Manager is a good coordinator.	
Permissive leadership.	
Lack of caring relationship with the	Leadership ethics
manager.	
Ethical influence of manager on his team	
members.	
Leadershipintentionally promoting	
unethical practices.	
Hidden permission from the manager to	
engage in unethical practice.	
Doctor's request for sponsoring family trips.	
Doctor's expectation of expensive gifts.	
Active participation of the doctor in the	Doctor'sethics
unethical practice by the reps.	
Immediate termination for ethics violation.	
Lack of awareness about ethics.	Organisational ethical culture
Clarity of ethical norms.	Organisational cuncal culture
Existence of organizational ethical policies.	
Education on ethics.	
Promotional policies leading to unethical	

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practices.	
Implementation of ethical policies.	
Ethics as a hindrance for their performance.	
Sustainability of unethical behaviour.	
Engaged employees need not be fully	
ethical.	
Medical representatives' participation in	
framing ethical policies.	
Lack of trust in medical representatives.	
Unrealistic target fixing.	
Engaged employees violates ethics for	
achieving target.	
Target pressure.	
Medical representatives should have easy	
access to the benefits.	Organisational ethical practices
Lack of organizational interest in personal	
development of the employees.	
Competence building.	
Hiring employees who don't have required	
qualification	
Medical representatives lack of product	
knowledge	
Attitude of the medical representatives.	
Inability to perform.	
Perceived negative image of the job.	
Privileges given to the family.	
False reporting.	Personal ethics
Manipulating tracking apps.	
Misuse of samples.	
Generating fake bills.	
Bribing doctor's, stockiest and the staffs	
ofthe stockiest.	
. 77 1' 1 ' ' ' ' ' '	

2.1 Validation of the questionnaire

The questions in the questionnaire was framed based on the above codes and their respective themes. Face and content validity of the 41 items were examined by an expert panel, which consisted of two faculty members, two sales managers and two medical representatives. Thirty-five of the 42 items were evaluated as 'easy to understand'; however, two items were noted as 'difficult to understand'. Therefore, we revised the wording of these two items. In addition, one item was deleted for redundancy; finally, the expert panel approved 41 questionnaire items. Responses to each questionnaire item were recorded on a 5-point Likert type scale

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Table 2: A sample of few items in the questionnaire corresponding to each theme

Themes	Items		
	I'm motivated by my manager.		
Leadership ethics	My manager influences my ethical conduct.		
	I have an open and caring relationship with		
	the manager.		
	Doctors asks for favours like family trips.		
Doctors' ethics	Doctors engage in unethical practises along		
	with medical representatives.		
	Doctors expect expensive gifts from the		
	company.		
	My organisation terminates employees		
	immediately on ethics violation.		
Organisational ethical culture	There is a lack of awareness about work		
	ethics in our organisation.		
	Proper organisational ethical policies exist		
	in our organisation.		
	The sales targets set are unrealistic.		
Organisational ethical practises	Personal development of an employee is a		
	main goal of my organisation		
	I have easy access to employee benefits in		
	the organisation.		
	I have good knowledge of our products		
	I have not misused the samples provided by		
Personal ethics	my organisation.		
	Employees generate false reports in my		
	organisation.		

3. Data Collection and Evaluation of the Instrument

To assess reliability and validity of the instrument, data were collected from a random sample of 198 medical representatives. The participants were selected using purposive sampling. Exploratory factor analysis (EFA) was carried out to determine factorial validity of the instrument. Prior to extraction of factors, Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was checked to evaluate the fitness of the data for factor analysis. Initially, Principal component analysis (PCA) with Varimax rotation was used to extract factors based on multiple criteria, including Eigenvalue >1, the Scree test, factor loading coefficient >0.4 and the cumulative percent of variance extracted.

The internal consistency reliability of each factorially derived scale was assessed by calculating Cronbach's alpha. PCA and Cronbach's alpha calculation were carried out in Statistical Package for Social Sciences (SPSS) version 23.0

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4. Results

4.1 Participant characteristics

The following table (number) shows the personal details of the respondents.

Table 3:Personal details of the respondents.

		Frequency	Percent	Cumulative Percent
Gender	Male	198	100	100
	UG	156	78.8	78.8
Educational	PG	31	15.7	94.4
Qualification	B-Pharm / M. Pharm	11	5.6	100.0
	Total	198	100.0	
	<=30	66	33.3	33.3
Ασο	30 - 40	103	52.0	85.4
Age	>40	29	14.6	100.0
	Total	198	100.0	
	<=5	47	23.7	23.7
Experience	5 - 10	52	26.3	50.0
	10 - 15	57	28.8	78.8
	>=15years	42	21.2	100.0
	Total	198	100.0	
	7500 - 27500	47	23.7	23.7
_	27500 - 47500	66	33.3	57.1
Income	47500 - 67500	49	24.7	81.8
	>=67500	36	18.2	100.0
	Total	198	100.0	
	<1 cr	42	21.2	21.2
	1-2cr	35	17.7	38.9
Target	2-3 cr	94	47.5	86.4
	>3 cr	27	13.6	100.0
	Total	198	100.0	

From the table 2, it is found that all the respondents were male. There were 33. 3 percent of the respondents who were below 30 years of age, 52 percent of the respondents were 30 - 40 years of age and 29 percent of the respondents were above 40 years of age.

Among the respondents, 23.7 percent had less than five years of experience, 26.3 percent had 5–10 years of experience, 28.8 percent had 10-15 years of experience and 21.2% had more

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than 15 years of experience. 23.7% were earning between Rs.7500 - Rs.27500, 33.3% were earning between Rs.27500 - Rs.47500, 24.7% were earning between Rs.47500 - 67500 and 18.2% were earning above Rs.67500.

21.2 percent of the respondents said that they were set a target less than 1 crore rupees, 17.7 percent had 1-2 crore as target, 47.5 percent had 2-3 crore as target and 13.6 percent had more than 3 crores as target.

4.2 Factorial validity

All items of the instrument designed to investigate determinants of Organisational Ethical Behaviour were subjected to PCA. Prior to performing PCA, the suitability of data for factor analysis was assessed. Inspection of the correlation matrix showed the presence of many coefficients that are all significant at 1% level of confidence.

Table 4: Factorial validity

Dimension	Statistics	Leadership ethics	Doctor ethics	Organizational Ethical culture	Organizational Ethical Practice	Personal Ethics
Leadership	Pearson Correlation	1	.044	.190**	.112	.060
ethics	Sig. (2- tailed)		0542	.007	.116	.401
	N	198	198	198	198	198
	Pearson Correlation	.044	1	.0178*	.370**	.272**
Doctor ethics	Sig. (2- tailed)	.542		.012	.000	.000
	N	198	198	198	198	198
0	Pearson Correlation	.190**	.178*	1	.438**	.402**
Organizational Ethical culture	Sig. (2- tailed)	.007	.012		.000	.000
	N	198	198	198	198	198
Organizational	Pearson Correlation	.112	.370**	.438**	1	·393 ^{**}
Ethical Practice	Sig. (2- tailed)	.116	.000	.000		.000
	N	198	198	198	198	198
Personal	Pearson Correlation	.060	.272**	.402**	·393 ^{**}	1
Ethics	Sig. (2- tailed)	.401	.000	.000	.000	
	N	198	198	198	198	198

^{*}significant at 1% level of significance

^{**}significant at 5% level of significance

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The KMO measures of sampling adequacy value was 0.657, exceeding the recommended value of 0.6 [47] and Bartlett's test of sphericity reached statistical significance, supporting the factorability of the correlation matrix.

Table 5:KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure	.657	
	3680.156	
Bartlett's Test of Sphericity	df	820
	Sig.	.000

The communalities table below shows the contribution of each item to the factors extracted. And it is evident that almost all the values are above 0.6 recommended level, which means that from each question 60% information has been extracted to identify the factors.

Table 6: Communalities

	Initial	Extraction
s1_q1	1.000	.678
s1_q2	1.000	.738
s1_q3	1.000	.750
s1_q4	1.000	.686
s1_q5	1.000	.760
s1_q6	1.000	·755
s1_q7	1.000	.726
s1_q8	1.000	.709
s1_q9	1.000	.693
s1_q10	1.000	.732
s1_q11	1.000	.648
s1_q12	1.000	.729
s1_q13	1.000	.689
s1_q14	1.000	.666
s1_q15	1.000	.740
s1_q16	1.000	.701
s1_q17	1.000	.712
s1_q18	1.000	.685
s1_q19	1.000	.691
s1_q20	1.000	.700
s1_q21	1.000	.695
s1_q22	1.000	.785
s1_q23	1.000	.660

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s1_q24	1.000	.738
s1_q25	1.000	.693
s1_q26	1.000	.717
s1_q27	1.000	.646
s1_q28	1.000	.579
s1_q29	1.000	.794
s1_q30	1.000	.715
s1_q31	1.000	.591
s1_q32	1.000	.723
s1_q33	1.000	.783
s1_q34	1.000	.754
s1_q35	1.000	.768
s1_q36	1.000	.736
s1_q37	1.000	.645
s1_q38	1.000	.594
s1_q39	1.000	.627
s1_q40	1.000	.774
s1_q41	1.000	.714

PCA with Varimax rotation demonstrated the presence of five components with Eigenvalues exceeding one, explaining 27%, 18%, 14%, 11%, and 8% of the variance, respectively. An inspection of the Scree plot also revealed a clear break after the 5th component. The following table presents the final component loadings for the retained factors. Thus, the final PCA with Varimax rotation regrouped the initially developed items under the five broad domains.

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Table 7: Principal component analysis

,	erpal component analysis	Component				
Common Themes	Codes	1	2	3	4	5
	Motivating the medical representatives.		.075	061	086	031
	Giving medical representatives additional responsibilities and challenges.	.787	174	.066	.025	.151
	Open and caring relationship with the medical representatives.	.765	.282	297	.274	.121
Leadership	Manager is a good coordinator.	.650	010	.182	074	.016
ethics	Permissive leadership.	.618	.013	048	.182	.267
ctifics	Lack of caring relationship with the manager.	· 5 73	.052	107	.367	.256
	Ethical influence of manager on his team members.	· 549	.266	.230	.412	131
	Leadershipintentionally promoting unethical practices.	.531	.220	.237	097	138
	Hidden permission from the manager to engage in unethical practice.	.514	.150	034	.170	.170
	Doctor's request for sponsoring family trips.	.474	.652	.278	.084	233
Doctor'sethics	Doctor's expectation of expensive gifts.	.436	.583	264	.359	034
	Active participation of the doctor in the unethical practice by the reps.	.414	.540	012	384	.309
	Immediate termination for ethics violation.	.352	.341	.076	.187	191
	Lack of awareness about ethics.	.313	.193	.792	169	.059
	Clarity of ethical norms.	.083	·755	.767	.140	.028
	Existence of organizational ethical policies.	.169	.471	.727	112	.032
	Education on ethics.	.218	.466	.605	194	.091
Organisational ethical culture	Promotional policies leading to unethical practices.	182	.456	.706	.371	.251
ctifical culture	Implementation of ethical policies.	109	.439	.661	.080	.101
	Ethics as a hindrance for their performance.	.305	.429	.617	105	.083
	Sustainability of unethical behaviour.	.140	.350	.601	253	.073
	Engaged employees need not be fully ethical.	.121	160	.507	.027	040
	Medical representatives' participation in framing ethical policies.	077	005	·49 7	111	.224
	Lack of trust in medical representatives.	101	006	.029	.827	.339
	Unrealistic target fixing.	.132	107	082	·795	.073
Organisational	Engaged employees violates ethics for achieving target.	353	.012	063	.717	130
ethical	Target pressure.	.216	.240	056	.676	112
practices	Medical representatives should have easy access to the benefits.	.086	.252	009	.608	314

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	Lack of organizational interest in personal development of the employees.	.096	.295	.036	.530	066
	Competence building.	159	.302	.213	.524	.005
	Hiring employees who don't have required qualification	- ∙357	.052	.380	.519	.266
	Medical representatives lack of product knowledge	094	071	.120	.242	.641
	Attitude of the medical representatives.	.318	.129	.149	.104	.669
	Inability to perform.	212	.196	.159	203	.558
	Personal Personal Personal Privileges given to the family.		105	.006	.091	· 5 73
			.260	.177	.241	·553
ethics	False reporting.	.130	.229	002	020	.548
	Manipulating tracking apps.	037	.031	.096	.044	·493
	Misuse of samples.	.087	.110	.421	.264	·479
	Generating fake bills.	.078	.202	111	014	448
	Bribing doctor's, stockiest and the staffs ofthe stockiest.	.226	.012	.389	.177	.421

4.3 Internal Consistency

Internal consistency reliability, which was measured by Cronbach's alpha ranged from 0.764 for Leadership ethics to 0.883 for Doctors ethics.

The reliability results are given below.

Table 8: Internal consistency reliability

Variables	Sub Category	Reliability
Organizational Ethical Behavior	Leadership Ethics	0.764
	Doctors Ethics	0.863
	Organisational ethical culture	0.790
	Organisational ethical practices	0.834
	Personal ethics	0.786

The reliability co-efficients are greater than 0.6, ranging from 0,764 to 0.863 and are reasonably closer to unity. This ensures the reliability of the questionnaire.

4.4 Normality

To apply statistical tests, the data should follow normal distribution. The following table gives the descriptive statistics of the constructs under study.

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Table 9:Descriptive statistics of the constructs

Dimensions	Mean	Median	Mode	Std. Deviation	Skewness	Kurtosis
LeadershipEthic	32.954	34.000	35.0	4.69398	329	.082
S	5	0	0			
Doctors ethics	8.2323	8.0000	8.00	2.26125	. 377	036
Organisational	41.07	41.00	42	5.640	.376	.390
ethical culture						
Organisational	21.984	22.000	22.0	3.45306	.376	.131
ethical practices	8	0	0			
Personal ethics	32.505	32.500	31.00	3.32770	.111	.287
	1	0				

The mean, median and mode are approximately equal for all the constructs. Also the skewness and kurtosis are approximately nearer to zero. Hence the data is asymptotically normal.

5. Conclusion:

This study demonstrated that the newly developed measurement instrument has overall good level of properties measured as content and factorial validity, internal consistency and reliability. The instrument is robust enough to investigate determinants of Organizational Ethical Behaviour among medical representatives in Kerala. Investigating determinants of Organizational Ethical Behaviour using this instrument may provide comprehensive information that will assist the development of appropriate strategies to improve ethical behaviours of medical representatives. Since the nature and working conditions of the medical representatives are almost similar in various regions, this instrument may be used in general for the measurement of organisational ethical behaviour of medical representatives.

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