Exploring the Underlying Dimensions of Organizational Commitment through Factor Analysis in Medical Practitioners at Lucknow: A Pilot Study

¹Tina Khandelwal, ²Dr. Sheetal Sharma

¹Assistant Professor, Institute of Co-operative & Corporate Management, Research & Training, Lucknow, India ²Dean- Academic & Professor-HR & OB, IILM AHL, Lucknow, India

Abstract: Purpose – The purpose of this paper is to explore the underlying dimensions of Organizational Commitment.

Design/methodology/approach – Medical Practitioners (N = 119) working in hospitals completed this pilot survey on dimensions of their commitment to the hospitals and medical profession and the significance they place on certain organizational characteristics for their existing level of commitment. Principal component analyses of their personal and organizational characteristics were used.

Findings – Organizational Commitment was dependent on the employees fit to organization, human resource practices, supportive climate and ethics followed in organization. The commitment of medical practitioners is also dependent on opportunities for professional development programs in hospitals.

Research limitations/implications – Further extensive study is needed to be conducted in other Indian cities.

Practical implications – Knowledge of the dimensions that underlie organizational commitment in medical practitioners will help hospitals to introduce it, which will improve working of doctors and lead to better patient treatment and care.

Originality/value – Interpretation and results presented in this paper exhibits the pertinence of improving organizational commitment in the process of reducing turnover of medical practitioners and increasing their attachment to their workplace.

Keywords: Organizational Commitment, Employee-Environment congruency, Transactional Psychological Contract, Perceived crisis support, Perceived Organization Ethics, Learning Environment, Work Stress and Optimism.

1. INTRODUCTION

Factor analysis is an umbrella term for certain distinct procedures chiefly applied to summarize and reduce the data. It is used in the pilot survey. Basically two methods are popular. The principal component analysis (PCA) takes into consideration the total variance in the data for estimating components and principal axis factoring (PAF) only takes into account the common variance in extracting factors. We will be using the PCA as need to extract minimum factors that will explain maximum variance and further can also use in multivariate analysis. The explanatory or independent variables used in the study are factors influencing as causal and mediators to determine level of organizational commitment in registered medical practitioners working at hospitals in Lucknow. This study was conducted by collection of data from 119 respondents working in hospitals.

The objective of conducting factor analysis here is

1. To identify the underlying dimensions that explain the correlations among a set of variables identified during the literature review, influencing the organizational commitment.

2. The other objective is to identify a smaller set of uncorrelated variables for subsequent multivariate analysis, where these factors may be used as independent variables to explain differences in high, medium or low level of the respondents' commitment.

2. METHODOLOGY

28 independent variables impacting organizational commitment were drawn from rigorous literature review and then were used for factor analysis. Pilot survey was conducted by collection of primary data through administration of questionnaire to 119 respondents. Respondents were registered medical practitioners who were working at hospitals located in Lucknow. The questionnaire was handed over to hospital administration to get it filled from medical doctors. It covered teaching hospitals, general hospitals, specialized hospitals and corporate hospitals. It covered both allopathic and AYUSH hospitals in private and government sector. No monetary incentive was offered to the doctors or hospitals for the same but they were assured complete anonymity of their responses and identity. The chosen sample size is appropriate as is approximately four times the number of observations according to a rough guideline. Analysis was done through SPSS software [version 21].

The suitability of the analyses is based on correlation of factors.

3. ANALYSIS

First we examined the descriptive statistics of variables. Highest mean is of General mood (M= 4.269, SD=.63027) and Perception of organization change (M= 4.269 SD=.75281). Highest standard deviation is of ethical practices in the organization that affects commitment of doctors (SD=1.31398).

Descriptive Statistics			
Independent Variables	Mean	Std. Deviation	Analysis N
General mood	4.2269	.63027	119
Central Life Interest	4.0420	.65607	119
Goal identity	3.6555	.95169	119
Demand-ability fit	3.7731	.82787	119
Needs-supplies fit	3.4202	1.07747	119
Work Autonomy	3.6387	.98058	119
Colleague Relations	3.9748	.54403	119
Leader member Relations	4.2185	.63991	119
Satisfaction with practices	3.3277	1.21508	119
Passion: Feel valued	3.7731	.79657	119
Relationship Social Capital	3.0336	1.21385	119
Colleague Crisis Support	4.1513	.59145	119
Altruism	3.9580	.93333	119
Quick Information sharing	4.1008	.69374	119
Knowledge shared with oneness	3.9832	.91117	119
Perception of organization change	4.2269	.75281	119
Relational psychological contract	3.8992	.74099	119
Psychological contract breach	3.9748	.75310	119
Professional development	3.4958	1.26138	119
Perception of organization politics	2.7563	1.22105	119
Ethical Organization	2.4874	1.31398	119
Stress	2.2605	1.05334	119
Job mobility	2.2521	1.08314	119
Work life balance	2.1681	1.08393	119
Turnover intention	2.0840	.95296	119
Transactional Psychological contract	2.5210	1.01555	119
Favouritism	2.2101	1.17800	119
Psychological Capital	1.4622	.84161	119

Table I:

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online)

Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: www.researchpublish.com

3.1. Appropriateness of technique of factor analysis:

In the next step correlation matrix was generated between variables for further analysis. The suitability of the analyses was based on correlation of factors.

Table II: Correlation Matrix

Correlation M	atrix										
		General	Central life	Goal	Demand-	Needs-	Work	Colleague	Leader member	Satisfaction	Passion:
		mood	interest	identity	ability fit	supplies fit	Autonomy	Relations	relations	with practices	Feel valued
	General mood	1.000	.182	.188	.246	.333	.353	.338	.338	.123	.272
	Central life interest	.182	1.000	.159	.361	.131	029	.050	.442	.206	.359
	Goal identity	.188	.159	1.000	.513	.605	.547	.490	.111	.670	.488
	Demand-ability fit	.246	.361	.513	1.000	.640	.577	.326	.286	.715	.731
	Naads-sunnlias fit	333	131	605	640	1 000	706	582	- 036	794	645
	West: Autonomy	459	- 029	547	577	706	1 000	530	032	691	556
	Collearna Relations	220	050	100	326	582	530	1 000	308	307	307
	Coneague Relations	220	.030	.450	286		.333	308	1,000		2/9
	Leader member relations	102	206	.111	.200	704	201	207	016	1 000	707
	Satisfaction with practices	.125	.200	.070	./15	.194	.091	.397	.010	1.000	./0/
	Passion: Feel valued	.212	.339	.488	./31	.040	.000	.397	.248	./8/	1.000
	Relationship Social Capital	.045	.051	.414	.117	.462	.338	.296	250	.372	.131
	Colleague Crisis support	070	.202	163	.053	154	124	.038	.315	152	.073
	Altruism	.247	.377	007	.371	.203	.048	.065	.157	.244	.432
Constation	Quick Information sharing	.083	.233	281	063	250	233	.029	.313	281	050
Correlation	Knowledge shared with oneness	.302	.554	.326	.557	.422	.268	.136	.181	.487	.508
	Perception of organization change	.123	.186	020	.192	004	.066	.159	.459	008	.214
	Relational psychological contract	.213	.253	.587	.474	.542	.416	.435	.100	.574	.550
	Psychological contract breach	.030	238	.532	050	.180	.252	.412	.047	.157	.019
	Professional development	241	313	638	.612	737	406	315	.064	789	712
	Percention of organization politics	038	.330	015	389	147	025	213	.221	.106	361
	Ethical Oceanization	070	359	569	554	291	388	171	134	478	503
	Steere	- 256	021	- 485	- 408	- 463	- 327	- 949	- 261	- 365	
	The mathematic	250	176	471	205	308	270	112	007	433	360
	Job mobility	047	.170	.471	1/2	242	200	112	007	200	.302
	Work life balance	255	.014	550	140	242	309	257	041	209	085
	Turnover intention	215	.211	.219	.180	.100	.105	110	239	.520	.204
	Transactional Psychological contract	.005	.510	111	.295	.102	051	252	039	.149	.203
	Favouritism	247	.186	396	038	310	340	481	118	114	.015
	Psychological Capital	407	.057	.021	079	.046	094	270	425	.199	.019
	General mood		.024	.020	.004	.000	.000	.000	.000	.091	.001
	Central life interest	.024		.042	.000	.078	.378	.293	.000	.012	.000
	Goal identity	.020	.042		.000	.000	.000	.000	.115	.000	.000
Sin (1 toiled)	Demand-ability fit	.004	.000	.000		.000	.000	.000	.001	.000	.000
Sig. (1-tailed)	Needs-supplies fit	.000	.078	.000	.000		.000	.000	.349	.000	.000
	Work Autonomy	.000	.378	.000	.000	.000		.000	.363	.000	.000
	Colleague Relations	.000	.293	.000	.000	.000	.000		.000	.000	.000
	Landar member relations	000	000	115	001	3/0	262	000		/31	003
	Leader member relations	.000	.000	.115	.001		.505	.000	421	.431	.005
	Satisfaction with practices	.091	.012	.000	.000	.000	.000	.000	.451	000	.000
	Passion: Feel valued	.001	.000	.000	.000	.000	.000	.000	.003	.000	
	Relationship Social Capital	.312	.289	.000	.102	.000	.000	.001	.003	.000	.078
	Colleague Crisis support	.224	.014	.039	.282	.047	.089	.340	.000	.049	.214
	Altruism	.003	.000	.470	.000	.013	.302	.242	.044	.004	.000
	Ouick Information sharing	.185	.005	.001	.248	.003	.005	.376	.000	.001	.294
	Knowledge shared with oneness	.000	.000	.000	.000	.000	.002	.070	.025	.000	.000
	Paramtion of accomization shares	092	021	414	018	485	238	042	000	466	010
	Perception of organization change	010	002	000	000	000	000	000	100	.400	000
	Relational psychological contract	.010	.005	.000	.000	.000	.000	.000	.130	.000	.000
	Psychological contract breach	.373	.005	.000	.294	.025	.003	.000	.307	.044	.420
	Professional development	.004	.000	.000	.000	.000	.000	.000	.244	.000	.000
	Perception of organization politics	.342	.000	.438	.000	.055	.395	.010	.008	.126	.000
	Ethical Organization	.225	.000	.000	.000	.001	.000	.031	.073	.000	.000
	Stress	.002	.411	.000	.000	.000	.000	.000	.002	.000	.000
	Joh mohility	305	028	000	000	000	001	114	471	000	000
	Wada life balance	003	441	000	057	004	000	005	378	011	185
	work life balance	.005		.000	.031	.004	100	.005	.520	.011	.105
	Turnover intention	.009	.011	.008	.022	.040	.127	.110	.004	.000	.013
	Transactional Psychological contract	.240	.000	.115	.001	.039	.371	.003	.261	.053	.002
	Favouritism	.003	.021	.000	.342	.000	.000	.000	.101	.109	.435
	Psychological Capital	.000	.270	.412	.196	.311	.155	.001	.000	.015	.420

Correlation M	latrix										
		Relationship	Colleague	Altruism	Quick	Knowledge	Perception of	Relational	Psychological	Professional	Perception of
		Social Capital	Crisis support		Information	shared with	organization	psychological	contract breach	development	organization
					sharing	oneness	change	contract			politics
	General mood	.045	070	.247	.083	.302	.123	.213	.030	.241	038
	Central life interest	.051	.202	.377	.233	.554	.186	.253	238	.313	.330
	Goal identity	.414	163	007	281	.326	020	.587	.532	.638	015
	Demand-ability fit	.117	.053	.371	063	.557	.192	.474	050	.612	.389
	Needs-supplies fit	.462	104	.203	250	.422	004	.342	.180	.737	147
	Work Autonomy	.338	124	.048	233	.268	.066	.416	.252	.406	025
	Colleague Relations	.296	.038	.060	.029	.130	.109	.430	.412	315	213
	Leader member relations	200	.315	.137	.313	.181	.439	.100	.047	.064	.221
	Satisfaction with practices	.372	152	.244	281	.487	008	.374	.107	.789	.100
	Passion: Feel valued	1000	240	.432	030	.308	.214	.220 212	.019	./12	.301
	Relationship Social Capital	2/0	349	242	300	.034	433	170	106	.330	292
	Colleague Crisis support	347	242	1 000	202	.005 617	207	170	100	115	202
	Altruism Octobelle for an alternation	206	242	201	1 000	257	207	.103	430	.320	100
Correlation	Quick information sharing	500	083	.521	257	1.000	170	.003	222	215	300
	Recomption of occarrication shares	. 435	512	207	329	179	1 000	057	240	- 030	042
	Peletional netrahalagiaal contract	315	- 178	165	003	474	057	1 000	360	634	057
	Reianonai psychological contract Pewehological contract braach	223	- 106	- 436	- 222	- 248	- 035	360	1 000	201	- 228
	Professional development	338	- 113	320	- 213	531	- 030	634	201	1 000	046
	Paraantion of occanization politics	- 292	157	303	199	309	042	057	- 228	046	1 000
	Ethical Organization	138	- 139	- 073	- 082	325	- 087	477	141	385	534
	Strass	.073	.018	092	059	331	300	- 444	291	493	.070
	Job mobility	.039	020	115	091	.305	008	.349	.133	478	.220
	Work life balance	017	014	.024	.022	134	234	232	296	210	.275
	Turnover intention	.239	399	091	192	.187	393	.252	210	.339	.142
	Transactional Psychological contract	014	019	.309	147	.266	089	144	437	.187	.459
	Favouritism	189	.149	.363	.171	.161	073	286	500	168	.407
	Psychological Capital	.292	244	180	313	012	448	033	088	.158	.111
	General mood	.312	.224	.003	.185	.000	.092	.010	.373	.004	.342
	Central life interest	.289	.014	.000	.005	.000	.021	.003	.005	.000	.000
Sig (1 tailed)	Goal identity	.000	.039	.470	.001	.000	.414	.000	.000	.000	.438
org. (1-tatied)	Demand-ability fit	.102	.282	.000	.248	.000	.018	.000	.294	.000	.000
	Needs-supplies fit	.000	.047	.013	.003	.000	.485	.000	.025	.000	.055
	Work Autonomy	.000	.089	.302	.005	.002	.238	.000	.003	.000	.395
	Colleague Relations	.001	.340	.242	.376	.070	.042	.000	.000	.000	.010
	Leader member relations	.003	.000	.044	.000	.025	.000	.138	.307	.244	.008
	Satisfaction with practices	.000	.049	.004	.001	.000	.466	.000	.044	.000	.126
	Passion: Feel valued	.078	.214	.000	.294	.000	.010	.000	.420	.000	.000
	Relationship Social Capital		.000	.431	.000	.279	.000	.000	.007	.000	.001
	Colleague Crisis support	.000		.004	.003	.184	.000	.027	.127	.111	.044
	Altruism	.431	.004		.000	.000	.012	.036	.000	.000	.000
	Ouick Information sharing	.000	.003	.000		.002	.000	.485	.008	.010	.015
	Knowledge shared with oneness	.279	.184	.000	.002		.026	.000	.003	.000	.000
	Perception of organization change	.000	.000	.012	.000	.026		.271	.354	.372	.324
	Relational psychological contract	.000	.027	.036	.485	.000	.271		.000	.000	.269
	Psychological contract breach	.007	.127	.000	.008	.003	354	.000		.014	.006
	Professional development	.000	.111	.000	.010	.000	372	.000	.014		309
	Perception of organization politics	.001	.044	.000	.015	.000	324	.269	.006	.309	
	Ethical Organization	.067	.065	.215	.187	.000	.173	.000	.063	.000	.000
	Stracs	216	424	159	260	.000	.000	.000	.001	.000	.226
	Joh mohility	338	413	106	.164	.000	464	.000	.075	.000	.008
	Work life balance	426	442	399	405	073	.005	006	.001	.011	.001
	Turnover intention	.004	.000	162	.018	.021	.000	.003	.011	.000	.062
	Transactional Psychological contract	439	417	.000	.055	.002	.167	.060	.000	.021	.000
	Favouritism	.020	.053	.000	.032	.040	.214	.001	.000	.034	.000
	Psychological Capital	.001	.004	.025	.000	.449	.000	.359	.169	.044	.116

Table II: Correlation Matrix (continued)

Table II:	Correlation	Matrix	(continued)
-----------	-------------	--------	-------------

Correlation Mat	rix							_	
		Ethical	Stress	Job mobility	Work life	Turnover	Transactional	Favouritism	Psychological
		Organization			balance	intention	Psychological contract		Capital
	General mood	.070	256	.047	255	215	.065	247	407
	Central life interest	.359	.021	.176	.014	.211	.310	.186	.057
	Goal identity	.569	485	.471	330	.219	111	396	.021
	Demand-ability fit	.004	408	.395	146	.186	.293	038	079
	Needs-supplies fit	.291	463	.308	242	.100	.162	310	.046
	Work Autonomy	.388	327	.270	309	.105	031	343	094
	Colleague Relations	.1/1	343	.112	237	110	252	481	270
	Leader member relations	.134	201	007	041	239	059	118	425
	Satisfaction with practices	.4/8	303	.433	209	.320	.149	114	.199
	Passion: Feel valued	100	373	.302	085	204	.205	100	202
	Relationship Social Capital	120	015	020	017	200	014	105	292
	Alteriore	139	010	020	014		300	363	244
	Altruism Oxide Information abasing	075	092	115	024	102	147	171	100
Correlation	Quick Information sharing	205	331	305	13/	192	147	161	515
	Recognized with oneness	- 087	351	- 008	1.54	.107	- 089	- 073	012
	Relational psychological contract	477	- 444	349	- 232	252	144	- 286	- 033
	Prychological contract breach	141	- 291	144	- 296	210	437	- 500	- 088
	Professional davalonment	385	- 493	478	- 210	339	187	- 168	158
	Parcention of organization politics	534	070	220	275	142	459	407	111
	Ethical Organization	1 000	- 123	657	037	522	272	- 017	201
	Stracs	123	1.000	-377	555	155	229	.461	.437
	Joh mobility	.657	-377	1.000	072	480	.142	029	206
	Work life balance	.037	.555	072	1.000	273	297	.457	472
	Turnover intention	522	.155	480	273	1.000	270	.165	606
	Transactional Psychological contract	272	.229	.142	.297	.270	1.000	.538	.341
	Favouritism	017	.461	029	.457	.165	538	1.000	.354
	Psychological Capital	.201	.437	.206	.472	.606	.341	.354	1.000
	General mood	.225	.002	.305	.003	.009	.240	.003	.000
	Central life interest	.000	.411	.028	.441	.011	.000	.021	.270
	Goal identity	.000	.000	.000	.000	.008	.115	.000	.412
Sig. (1-tailed)	Demand-ability fit	.000	.000	.000	.057	.022	.001	.342	.196
	Needs-supplies fit	.001	.000	.000	.004	.046	.039	.000	.311
	Work Autonomy	.000	.000	.001	.000	.127	.371	.000	.155
	Colleague Relations	.031	.000	.114	.005	.116	.003	.000	.001
	Lander member relations	073	1002	471	378	004	261	1101	1000
	Caticfaction with practices	000	000	000	011	000	053	100	015
	Sansraction with practices	.000	.000	.000	105	.000	.000	.105	.015
	Passion: Feel valued	.000	.000	.000	.183	.015	.002	.455	.420
	Relationship Social Capital	.067	.216	.338	.426	.004	.439	.020	.001
	Colleague Crisis support	.065	.424	.413	.442	.000	.417	.053	.004
	Altruism	.215	.159	.106	.399	.162	.000	.000	.025
	Ouick Information sharing	187	260	164	405	018	055	.032	.000
	Knowladge charad with anones	000	000	000	073	021	002	040	449
	Renowledge shared with oneness	170	000	161	005	000	147	214	000
	Perception of organization change	.1/3	.000	.404	.005	.000	.10/	.214	.000
	Relational psychological contract	.000	.000	.000	.006	.003	.060	.001	.359
	Psychological contract breach	.063	.001	.075	.001	.011	.000	.000	.169
	Professional development	.000	.000	.000	.011	.000	.021	.034	.044
	Perception of organization politics	.000	226	.008	001	062	000	000	116
	Ethical Oceanization		1091	000	344	000	001	425	014
	Eurical Organization	001	.071	000	000	014	004	000	000
	oress	.091		.000	.000	.040	.000	.000	.000
	Job mobility	.000	.000		.217	.000	.062	.379	.012
	Work life balance	.344	.000	.217		.001	.001	.000	.000
	Turnover intention	.000	.046	.000	.001		.002	.036	.000
	Transactional Psychological contract	001	006	062	001	002		000	000
	Favousitiem	425	000	370	000	036	000		000
		014	.000	012	.000	000		000	
	Psychological Capital	.014	.000	.012	.000	.000	.000	.000	

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: www.researchpublish.com

Next we Kaiser Meyer Olkin measure was examined to test the sample adequacy for which a value greater than 0.5 was desirable (Gaur, A. S. & Gaur, S.S., 2012). Next Barlett's test of sphericity was checked. The null hypothesis was that all diagonal terms are 1 and off diagonal 0 in the correlation matrix, that suggested population correlation was an identity matrix. Large value of this measure was desirable for factor analysis.

KMO and Bartlett's Test							
Kaiser-Meyer-Olkin Measure of Sampling Adequacy723							
	Approx. Chi-Square	2705.694					
Bartlett's Test of Sphericity	df	378					
	Sig.	.000					

Table III: Kaiser Meyer Olkin measure and Barlett's test

KMO for this survey was .723 that indicated the adequacy of sample size. Barlett test also showed large value i.e. 2705.694, that pointed existence of correlations among the variables included for the study. Both together corroborated the suitability of factor analysis.

3.2. Factor analysis:

Communality gives the variance accounted for a particular variable by all the common variables (Gaur, A. S. & Gaur, S.S., 2012). i.e. 28 which was shown in third column of the Table IV. In the table below the values mentioned under extraction were important because then not all variables but few factors explained the variance in each variable. Therefore the amount of variance fell. It was seen that all were above .60 that was acceptable or if factors were accounting for very low variance in a particular variable then it needed to be dropped.

Communalities		
	Initial	Extraction
General mood	1.000	.770
Central life interest	1.000	.668
Goal identity	1.000	.774
Demand-ability fit	1.000	.795
Needs-supplies fit	1.000	.871
Work Autonomy	1.000	.722
Colleague Relations	1.000	.737
Leader member relations	1.000	.734
Satisfaction with practices	1.000	.878
Passion: Feel valued	1.000	.810
Relationship Social Capital	1.000	.754
Colleague Crisis support	1.000	.753
Altruism	1.000	.817
Quick Information sharing	1.000	.655
Knowledge shared with oneness	1.000	.805
Perception of organization change	1.000	.692
Relational psychological contract	1.000	.714
Psychological contract breach	1.000	.710
Professional development	1.000	.800
Perception of organization politics	1.000	.728
Ethical Organization	1.000	.891
Stress	1.000	.816
Job mobility	1.000	.730
Work life balance	1.000	.652
Turnover intention	1.000	.751
Transactional Psychological contract	1.000	.738
Favouritism	1.000	.729
Psychological Capital	1.000	.806

Table IV: Communalities

Extraction Method: Principal Component Analysis.

4. DETERMINING THE NUMBER OF FACTORS

4.1 Based on Eigenvalue:

As 28 variables were included that influenced organizational commitment of respondents, to gain parsimony, only factors that possessed Eigenvalue greater than 1 were retained. This method is feasible as number of variables exceed 20. Eigenvalue for a factor indicates the total variance attributed to that factor.

4.2 Based on Scree Plot:

It is the graphical representation of Eigenvalues of all the factors initially considered and is used for identifying the number of useful factors. Scree plot is examined for the sudden break in sizes of eigenvalues (Gaur, A. S. & Gaur, S.S., 2012). i.e. after 7th factor when graph moved to form flat line. This indicated that there are 7 factors that accounted for maximum variance of all variables initially included.



Figure I: Scree Plot

4.3 Based on percentage of variance:

The total variance accounted by all 28 factors as seen in the Table V was 28, which corresponded to number of variables. It was seen that factor 1 accounted for variance of 7.738, which is (7.738 / 28) or 27.635% of total variance. This meant that this factor accounted for 27.635% of total influence in the determination of the level of organizational commitment in registered medical practitioners. In general all the factors extracted should explain at least 60% of variance. From the table it can be found that they are explaining 76.08 %.

Fable V: Total variance explained: Initial Eigenvalues, Extraction sum of squared loadings and Rotation sum of squared
loadings

Total Variance Explained								
Component	Initial Eigen	nvalues		Extraction Sums of Squared Loadings				
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %		
1	7.738	27.635	27.635	7.738	27.635	27.635		
2	4.234	15.123	42.758	4.234	15.123	42.758		
3	3.902	13.934	56.692	3.902	13.934	56.692		
4	1.832	6.544	63.236	1.832	6.544	63.236		
5	1.271	4.538	67.774	1.271	4.538	67.774		
6	1.229	4.388	72.162	1.229	4.388	72.162		

ISSN 2348-1218 (print)

International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online)

Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: www.researchpublish.com

7	1.097	3.918	76.08	0	1.097	3.91	8	76.080
8	.851	3.039	79.11	9				
9	.773	2.762	81.88	1				
10	.667	2.381	84.26	2				
11	.581	2.074	86.33	6				
12	.499	1.783	88.118					
13	.432	1.542	89.66	i0				
14	.385	1.377	91.03	6				
15	.360	1.285	92.32	1				
16	.349	1.247	93.56	i8				
17	.307	1.096	94.66	4				
18	.275	.981	95.64	.5				
19	221	789	96.43	4				
20	204	730	97.16	4				
20	170	608	97 77	2				
22	163	584	98 35	5				
22	141	503	98.85	9				
23	102	364	99.22	2				
25	076	272	99.22	. <u>2</u> M				
25	.070	100	00.60	3				
20	044	156	00.8/	0				
27	042	151	100.0	.9				
20	.042	.1.51	100.0	00				
Total Varianc	e Explained		a					
Component		Rotation Sums of	Squar	ed Loadings	8		a 1.	<u> </u>
1		Total		% of Varia	ince		Cumulative	e %
1		6.597		23.561			23.561	
2		3.210		11.464			35.025	
3		2.731		9.752			<u>44.///</u> 54.060	
4		2.602		9.292			54.069	
5		2.203		7.867		61.936		
6		2.083		7.439	7.439		69.375	
7		1.878		6.705			76.080	
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

Extraction Method: Principal Component Analysis.

28

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: <u>www.researchpublish.com</u>

The last part in the Table V gives the information for extracted factors after rotation. Here relative value of eigenvalues has changed but cumulative percentage of variance remains the same only variance is redistributed. It can be clearly observed that variance is given in descending order making the first factor very significant in explaining the criterion variable.

4.4 Based on Factor matrix:

It contained the coefficients used to express the standardized variables into factors. These are factor loadings that show correlation between factor and the variable. Coefficient with large absolute value indicated that factors and variables are closely related. Although the unrotated factor matrix gives the loading (we have used loading above 0.4) but factors cannot be interpreted on the basis of it as variables are correlated to other factors as well.

Component Matrix ^a							
	Compoi	nent					
	1	2	3	4	5	6	7
Satisfaction with practices	.872						
Professional development	.840						
Needs-supplies fit	.833						
Passion: Feel valued	.813						
Demand-ability fit	.798						
Goal identity	.796						
Relational psychological contract	.745						
Work Autonomy	.716						
Ethical Organization	.615			.532			
Knowledge shared with oneness	.605						
Stress	570	.430					
Colleague Relations	.562	458					
Job mobility	.538			.537			
Favouritism		.769					
Transactional Psychological contract		.732					
Perception of organization politics		.635					
Psychological contract breach		620					
Work life balance		.568					
Turnover intention		.535	526				
Central life interest		.445			.432		
Perception of organization change			.713				
Leader member relations			.643				
Psychological Capital		.563	642				
Quick Information sharing			.620				
Colleague Crisis support			.607				.497
Relationship Social Capital			545	402			
Altruism			.542	514			
General mood							538
Extraction Method: Principal Compone	nt Analy	sis. ^a					
a. 7 components extracted.							

Table VI: Factor Matrix

Therefore we further examined rotated factor matrix, using orthogonal varimax rotation which is used when factors are uncorrelated. Through rotation the significant loading is shown preferably on one or maximum two factors. This makes the interpretation simple.

Table VII presented the table titled rotated Factor matrix. For a good factor solution, a particular variable should load high on one factor and low on all other factors in this matrix. In line with all past researchers, we used a cut off of 0.40 to identify high loadings.

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: <u>www.researchpublish.com</u>

Rotated Component Matrix ^a							
	Comp	onent					
	1	2	3	4	5	6	7
Satisfaction with practices	.913						
Needs-supplies fit	.904						
Professional development	.814						
Passion: Feel valued	.808						
Demand-ability fit	.745						
Work Autonomy	.732						
Goal identity	.678	438					
Relational psychological contract	.588						
Colleague Relations	.539	538					
Psychological contract breach		788					
Transactional Psychological contract		.732					
Favouritism		.691					
Altruism		.539			.522		
Colleague Crisis support			.835				
Perception of organization change			.771				
Turnover intention			568	.450			
Relationship Social Capital	.473		524				
Leader member relations			.497				.485
Ethical Organization				.830			
Job mobility				.659			
Perception of organization politics		.434		.657			
Central life interest					.677		
Quick Information sharing					.673		
Knowledge shared with oneness	.508				.608		
Stress						.750	
Work life balance						.711	
General mood							.803
Psychological Capital			418			.488	561
Extraction Method: Principal Compon	ent Anal	lysis.					
Rotation Method: Varimax with Kaise	r Norma	lization. ^a					
a. Rotation converged in 10 iterations.							

Table VII: Rotated Factor Matrix

5. INTERPRETATION AND ANALYSIS OF FACTORS AND RELIABILITY OF SCALE

Next the variables were identified which had large loadings on each factor. These variables under the factor were used to give suitable name to the factor. For e.g. all 10 variables that loaded high on first factor were clubbed and termed as Employee-Environment congruency. The seven factors that were extracted had been given name as follows:

Factor extracted	Factor Nam e	Factor extracted	Factor Nam e
1	Employee-Environm ent congruency	5	Learning Environm ent
2	Transactional Psychological Contract	6	Work stress
3	Perceived crisis support	7	Optimism
4	Perceived Organization Ethics		

Table VIII: Extracted factors

It is well known fact that negative factor loadings are as important as positive factor loadings as it is the absolute value that is considered when deciding a cut-off. That is, an item that loads -0.7 is as important as an item that loads +0.7.

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: www.researchpublish.com

For e.g.: in the case of Second factor, we saw that 10th variable "Psychological contract" which was included had negative loading that stated "*My employer fulfils his all obligation to me*", actually represented obligations those were not fulfilled i.e. breach of psychological contract. The negative factor loading of observable measure 10th with hidden Factor 2 (-0.788) meant that hidden Factor 2 has the characteristic "opposite" of whatever observable measure 10th measured. Thus it was combined with other similar variables as transactional contract that stated" *The commitment made by my employer relates on employment issues and not on our general well being*" and perception of organizational politics that states "*Nepotism / Favouritism decide who gets on the top. Merit is not important*". They all exhibited employee unfavourable perception to the climate of organization.

5.1 Scale Reliability: It refers to the confidence that can be placed on the questionnaire to give us the same numeric value when the measurement is repeated on the same respondents.

Next to satisfy that underlying items of above factors make up the scale for measuring these factors; reliability statistics was checked, that returns the value of Cronbach alpha coefficient which indicates the internal consistency of the scale. Malhotra, Naresh K.and Dash, Satyabhushan (2011) states that alpha value equal or above 0.70 is acceptable. It shows that items that make up the scale hang together and measure the same underlying construct.

In the below mentioned tables the first Cronbach's alpha employed the covariances among the items, whereas the alpha based on standardized items employs the correlations among items. The latter alpha is based on the assumption that all of the items have equal variances.

Item No.	Variables	Factor Loadings
1	Satisfaction with practices	0.913
2	Needs-supplies fit	0.904
3	Professional development	0.814
4	Passion: Feel valued	0.808
5	Demand-ability fit	0.745
6	Work Autonomy	0.732
7	Goal identity	0.678
8	Relational psychological contract	0.588
9	Colleague Relations	0.539
10	Relational Social Capital	0.473

Table IX: First factor: Employee-Environment con	ngruency
--	----------

Reliability Statistics

Cronbach's Alpha	Cronbach's A Standardized	Alpha Based on Items	N of Items
.911	.917		10
Scale Statistics			
Mean	Variance	Std. Deviation	N of Items
35.9916	53.958	7.34558	10

Interpretation: The factor is based on doctors fit with the hospital environment i.e. goal, job, opportunities for development, support, expectation of wellness and existing procedures, which generates enthusiasm in them. The scale had very high alpha of .911 so was highly reliable. (M = 35.99, SD = 7.34), the average congruency of doctors with their hospital environment was approximately 71.98% (35.9916/50).

Table X: Second factor: Transactional Psychological Contract

Item No.	Variables	Factorloadings
1	Psychological contract breach [R]	-0.788
2	Transactional Psychological Contract	0.732
3	Favouritism	0.691

International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online)

Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: www.researchpublish.com

Reliability St	atistics		
Cronbach's Alpha	Cronbach's A Items	lpha Based on Standardized	N of Items
.735	.738		3
Scale Statistics			
Mean	Variance	Std. Deviation	N of Items
6.9412	6.497	2.54883	3

Interpretation: The factor captured dimensions related to type and fulfillment of psychological contract that influenced the attitude and behaviour of doctors in hospitals. It also incorporated their perception regarding nepotism and favouritism dominating over merit in awarding advancement that exhibited the breach of psychological contract. The first variable had negative loading which states "My employer fulfils his all obligation to me" should be understood that he did not fulfils all obligations and certainly signifies breach. The scale had very high alpha of .735 so was highly reliable. (M = 6.94, SD = 2.54), the mean of this factor is 46.28% that showed its fair presence in the hospitals.

Table XI: Third factor: Perceived crisis suppor	Table XI:	Third	factor:	Perceived	crisis	suppor
---	-----------	-------	---------	-----------	--------	--------

Item No.	Variables	Factor Loadings
1	Colleague Crisis support	0.835
2	Perception of organization change	0.771

Reliability Statistics				
a	Cronbach's Alpha Standardized Items	Based o	n N of Items	
.713	.728		2	

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
8.3782	1.373	1.17164	2

Interpretation: This factor focused on the quality of support and assistance received by the doctors from their team when they faced any problem at work. It also assured full support and information to them in the wake of organization change. Alpha is satisfactory i.e. 0.713. (M = 8.38, SD = 1.17), the mean of this factor is 83.78% (8.3782/10).

 Table XII: Fourth Factor: Perceived Organization Ethics

Item No.	Variables		Factor Loadings
1	Ethical Or	rganization	0.83
2	Job Mobi	lity	0.659
3	Perception	n of organization Politics	0.657
4	Turnover Intention		0.45
	-		
Reliability	Statistics		
Cronbach's	Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
749		748	4

.749	.748		4
Scale Statistics			
Mean	Variance	Std. Deviation	N of Items
9.5798	12.093	3.47752	4

Interpretation: The factor captured the unethical practices prevailing in hospitals and the resultant job hopping behaviour of doctors due to anguish as their values clashed with it. The alpha coefficient is 0.75 that was acceptable for reliability. (M = 9.58, SD = 3.48), the mean wais 47.89% showing that these existed in some of the hospitals and not all forming part of the sample.

International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: <u>www.researchpublish.com</u>

Item No.	Variables	Factorloadings
1	Altruism	0.522
2	Central Life Interest	0.677
3	Quick Information sharing	0.673
4	Knowledge shared with oneness	0.608

Table	XIII:	Fifth	factor:	Learning	Environment

Reliability Statistics						
Cronbach's Alpha	ch's Alpha Cronbach's Alpha Based N of Items on Standardized Items					
.726	.722		4			
Scale Statistics						
Mean	Variance	Std. Deviation	N of Items			
16.0840	5.739	2.39555	4			

Interpretation: The factor was associated with the extra role behaviour exhibited by doctors to mentor their juniors, sharing experiences with their team and keeping updated. These days hospital too has an inbuilt system of knowledge sharing by facilitating accessibility of information that is required in this highly research oriented occupation involving medical cases dealt by doctors. This kind of environment fills passion in all medical practitioners as they help patients more resourcefully and get meaning out of their life. The alpha was 0.726 indicating acceptable reliability. (M = 16.08, SD = 2.40), The mean of the scale was very high i.e. 80.42% (16.084/20)

Table XIV: Sixth factor: Work stress

Item No.	Variables	Factor loadings
1	Stress: work overload	0.75
2	Work life balance	0.711

Reliability Statistics						
Cronbach's Alpha	Cronbach's Standardize	N of Items				
.714	.714	2				
Scale Statistics						
Mean	Variance	Std. Deviation	N of Items			
4.4286	3.552	1.88469	2			

Interpretation: The factor incorporates the stress and fatigue associated with overload of hectic work life of medical practitioners that affect their family life therefore making them unhappy and influencing their level of commitment. The alpha is satisfactory i.e. 0.714. (M = 4.42, SD = 1.88), the mean is 44.286% indicating fair presence of stress and its aftermaths in doctors.

Table 2	XV:	Seventh	Factor:	Optimism
---------	-----	---------	---------	----------

Item No.	Variables				Factorloadings		
1	L ea der N	1em ber Relations			0.485		
2	General I	Mood			0.803		
3	Psycholo	gical Capital				-0.561	
-							
Reliabili	ty Statisti	ics					
Cronbach	Cronbach's Alpha Cronbach's Alpha Based on Standardized Iten					N of Items	
.715		.729			3		
Scale Statistics							
Mean		Variance		Std. Deviation		N of Items	
12.9496		2.743		1.65626		3	

ISSN 2348-1218 (print) International Journal of Interdisciplinary Research and Innovations ISSN 2348-1226 (online) Vol. 4, Issue 1, pp: (113-126), Month: January - March 2016, Available at: <u>www.resea</u>rchpublish.com

Interpretation: This factor delineated the optimism, positivity in life, stress handling power of medical practitioners. The kind of relationship they shared and trust generated by them in their superiors. The 3^{rd} variable has negative factor loading so when it stated "*I feel that my hospital has no integrity and honesty*" that should be understood as that according to respondents hospital has integrity and honesty. Thus it is reverse coded. Alpha is satisfactory i.e. 0.715. (M = 12.95, SD = 1.66), the mean of the scale was 86.30% (12.9496/15).

6. DISCUSSION

Seven explanatory were extracted from the above analysis and were given names according to the variables under them and on findings of the literature review conducted earlier. From the above analysis it was found that three scales had highest mean in explanatory variables which were factor 1, 3, 5 and 7. The mean of first factor was 71.98% related to employee congruency and fit to organizational environment including climate, culture, job which gave them feeling of worth and well being. The goal identity existed that is to provide best care and service to patients and save life, this created harmony between them. The third factor relates to perceived organization and co-workers support whenever one is in difficulty, which had mean of 83.78% that gave the doctors feeling of attachment to the hospital and influenced commitment. The fifth factor had mean value of 80.42% related to the learning culture in hospital that induced doctors to help their juniors and staff that was beyond their job description as they felt committed to work and liked to spend more time at workplace. The seventh factor commanded highest mean of 86.30% related to personality of medical practitioners that was associated with being always positive even in most and worst challenges and knocking off negativity and organization impacted organizational commitment in them.

7. RESULTS

After conducting factor analysis it was revealed that the variables identified based on priori through literature review were all applicable and influenced the organizational commitment of registered medical practitioners in Lucknow. Therefore no variables were dropped for the future study. Only the questionnaire is revised according to newly constructed scales. There is also scope for adding new variables, increasing few items in existing variables related to outcomes, components and mediation of commitment to increase the scale reliability and capture more aspects associated to organizational commitment.

8. CONCLUSIONS

On the basis of factors extracted, multivariate analysis can be conducted to delve deep in the relationship between outcomes, causal and mediating variables of organizational commitment. Further extensive research can be conducted after addition and modification in the questionnaire for other Indian cities.

REFERENCES

- Malhotra, Naresh K.and Dash, Satyabhushan (2011). Marketing Research: An Applied Orientation, 6th edition, Pearson.
- [2] Gaur, A. S. & Gaur, S.S. (2012). Statistical Method for Practice and Research: A Guide to Data Analysis Using SPSS. 2nd edition, New Delhi: SAGE.