



Differential impact of pay satisfaction dimensions on job performance and turnover intentions in pay for performance systems: The mediating role of affective commitment

 Shahina Javad^a , Premarajan R. K.^b

^a  Assistant Professor; (OB & HRM), Institute of Management Technology, Dubai, United Arab Emirates.

^b Professor; (OB & HRM), XLRI, Jamshedpur, India.

  shahinajavad@gmail.com Corresponding author

ARTICLE HISTORY:

Received: 23-Sep-2018

Accepted: 15-Nov-2018

Online available: 30-Nov-2018

Keywords:

Pay satisfaction dimensions,
Performance,
Turnover,
Role of affective commitment

ABSTRACT

The purpose of the present study was threefold. First, to test the validity of the dimensions of pay satisfaction in pay for performance systems. Second, to study the relative effects of different pay satisfaction dimensions on individual work outcomes. Third, to examine potential mediating role of affective commitment in the pay satisfaction-individual work outcome relationship. A two-sample cross-sectional survey conducted among sales executives and sales managers of two different organizations offer support for the distinctiveness of four pay satisfaction dimensions viz., fixed pay level, variable pay level, pay structure and administration, and variable pay procedure satisfaction. The findings of path analyses indicated that the dimensions differentially predicted the outcome variables. The results reported that affective commitment was not a significant mediator between pay satisfaction dimensions and work outcomes, except between variable pay level satisfaction and job performance in the first sample. However, affective commitment was significantly related to turnover intentions. Implications for theory and practice are discussed.

Contribution/ Originality

Past research reported inconclusive relationship between pay satisfaction and job performance. The present study builds the gap in the literature by examining the effects of different pay satisfaction dimensions on job performance and turnover intentions in variable pay systems. The study also has implications for organizational justice literature.

DOI: [10.18488/journal.1007/2018.8.10/1007.10.377.391](https://doi.org/10.18488/journal.1007/2018.8.10/1007.10.377.391)

ISSN (P): 2306-983X, ISSN (E): 2224-4425



How to cite: Shahina Javad and Premarajan R. K. (2018). Differential impact of pay satisfaction dimensions on job performance and turnover intentions in pay for performance systems: The mediating role of affective commitment. *Asian Journal of Empirical Research*, 8(10), 377-391.

1. INTRODUCTION

Pay for performance (PFP) is suggested as an important determinant of employee attitudes, motivation and behavior (Gerhart and Milkovich, 1992; Gerhart and Rynes, 2003; Lazear 1996; 1999; 2000; Shaw *et al.* 2015). However, only a few empirical studies examined the impact of actual pay on employee performance and retention in PFP system. These studies found the relationship was weak at best (e.g. Gardner *et al.*, 2004; Igalens and Roussel, 1999). This may be due to the methodological and measurement issues in linking amount of pay directly to individual work outcomes (Hauret and Williams, 2017; Shittu, 2008). For example, two employees receiving the same amount of pay may not exhibit the same level of motivation to perform or intention to stay with the employer.

According to compensation experts, amount of pay and work outcomes may be indirectly related through employee perceptions about the pay they received (Gerhart and Rynes, 2003; Lawler, 1971; Hauret and Williams, 2017; Miceli and Mulvey, 2000). Hence, researchers have examined the psychological mechanisms involved in the perception of pay in order to understand its motivational and retention effects (Vandenberghe *et al.*, 2008). Researchers have identified three such mediating mechanisms: organization based self-esteem (Gardner *et al.*, 2004), organizational justice (Choi and Chen, 2007; Ismail and Shariff, 2008) and pay satisfaction (Lawler, 1971; Shantz *et al.*, 2018; Williams *et al.*, 2008) While organization based self-esteem and organizational justice are influenced by a number of other organizational factors in addition to pay (Pierce and Gardner, 2004), pay satisfaction is determined by pay (Heneman and Schwab, 1985; Miceli and Lane, 1991; Williams *et al.*, 2008) Earlier models considered pay satisfaction as a unidimensional construct. Later, based on cognitive differentiation and administrative independence arguments, Heneman (1985) and Heneman and Schwab (1985) conceptualized pay satisfaction as a multidimensional construct. Incorporating organizational justice principles, Miceli and Lane (1991) further extended Heneman and Schwab's (1985) model along "outcome versus process" dichotomy. Miceli and Lane (1991) argued that employees' satisfaction with pay outcomes could be distinguished from their reactions to the process used in determining the outcomes. However, both the models were developed to study pay satisfaction in fixed pay system context, thus, they failed to capture pay satisfaction in PFP systems.

The research interest in compensation satisfaction is also due to its potential influence on employee attitudes and behavior. As pay satisfaction is expected to gauge compensation plan effectiveness (Heneman *et al.*, 1997), it seems likely that employee satisfaction with outcome and process aspects in PFP systems may strongly influence work outcomes. For example, Lawler (1971) and Weiner (1980) noted that employees' dissatisfaction with pay under a PFP plan may affect job performance and turnover. Yet, little research attention has been made to examine the differential impact of pay satisfaction/dissatisfaction on job performance and turnover in PFP systems.

Pay satisfaction may be indirectly related to individual outcomes through organizational commitment (Vandenberghe and Tremblay, 2008). Favorable rewards and fair pay procedures may influence the extent to which employees believe that the organization is committed to them (Miceli and Mulvey, 2000) which in turn contribute to employee commitment to the organization (Williams *et al.*, 2008). Moreover, employee commitment to organization is expected to influence both employee production and participation behaviors. This may be because those committed to organization may be likely to work harder and less likely to leave the organization (Meyer and Allen, 1991). Of different dimensions of commitments, affective commitment was found to be strongly related to pay satisfaction (Miceli and Mulvey 2000; Rhoades *et al.*, 2001) and work outcomes (Rhoades *et al.*, 2001; Meyer *et al.*, 2002; Siders *et al.*, 2001). However, little research attention has been paid to examine the mediating role of affective commitment in pay satisfaction- work outcomes relationship. To address the above noted gaps in the literature, we developed and tested a multidimensional model of pay satisfaction in PFP systems. Our study intends to contribute to the pay satisfaction literature by (1) exploring dimensionality of pay satisfaction in a certain context, i.e. PFP system (2) examining whether pay satisfaction dimensions have differential effects on two important individual work outcomes relevant

to organizations i.e. job performance and turnover intentions and (c) examining the mediating role of affective commitment, if any, in the pay satisfaction-work outcome relationship.

2. LITERATURE REVIEW

2.1. Types of pay systems

A number of reward systems have been designed to motivate employee performance and participation behaviors (Beer and Spector, 1985; Gerhart and Milkovich, 1990). Broadly, pay systems fall into two categories: fixed pay and PFP systems. Fixed pay system links pay to skills, competencies or time which employees invest in their work (Heneman and Gresham, 2002; Milkovich *et al.*, 2009). As people receive similar pay increases regardless of individual or firm performance, pay will do little to motivate performance in fixed pay system. Hence, a large number of organizations have moved pay for performance system. In PFP systems, direct or cash compensation includes two distinct forms of pay such as fixed/base pay and variable/incentive pay (Milkovich *et al.*, 2009; Durham and Bartol, 2000). Fixed pay provides the minimum level of security for the employee while variable pay provides incentive for better performance (Kurland, 1991).

Moreover, PFP plans differ in terms of reward contingency or pay mix among different organizations and different jobs within the same organization (Gerhart *et al.*, 1995). Pay mix decisions focus on the relative emphasis an organization places on fixed pay and variable pay (Bloom and Milkovich, 1998; Gomez-Mejia *et al.*, 2004; Igalens and Roussel, 1999). Based on the degree of pay mix, PFP plans may be classified into low contingent pay, moderate contingent pay and maximally contingent pay (Harrison *et al.*, 1996). In low contingent rewards, only a small percentage of pay results from performance. In moderate and maximally contingent reward, a larger percentage of total pay results from performance (Shaw and Gupta, 2007). Both non-contingent rewards (100 percent guaranteed pay) and maximally contingent rewards (100 percent pay at risk) are extreme pay strategies. Whereas, low and moderate reward contingencies aim to elicit the combined impact of different pay forms on motivation commitment and job engagement (Armstrong and Murlis, 2005).

2.2. Pay satisfaction dimensions and measures

The importance of pay on employee work attitudes was not recognized until psychologists and behavioral scientists became interested in pay satisfaction as a separate topic (Shapiro and Wahba, 1978). In the initial years pay satisfaction was studied as part of job satisfaction (Judge, 1993; Locke, 1983; Williams *et al.* 2007). Originating from the earlier work of Lawler (1971), satisfaction with pay has been a separate issue of concern (Heneman, 1985; Scarpello and Carragher, 2008; Williams *et al.*, 2007). The earliest models of pay satisfaction- equity and discrepancy models- considered it as a unidimensional construct (Carragher and Buckley, 1996; Dyer and Theriault, 1976; Miceli and Lane, 1991; Weiner, 1980; Williams *et al.*, 2007). Later, based on administrative independence argument, Heneman (1985) suggested that employees not only have a general affect towards their pay but also develop specific attitudes toward distinct aspects of pay such as level, structure, raise, and benefit (Heneman and Schwab, 1985).

Drawing from procedural justice principles, some researchers advocated that perceived fairness of the processes used to determine compensation may also influence employee satisfaction with pay (Dyer and Theriault, 1976). In consistent with this, Miceli and Lane (1991) extended Heneman and Schwab's (1985) multidimensional model of pay satisfaction along outcome vs. system dichotomy. The new model distinguishes employee satisfaction with amount of pay (i.e. level/outcome) from satisfaction with system (i.e. procedures/processes) (Miceli and Mulvey, 2000). This has resulted into four pay satisfaction dimensions viz. pay level satisfaction, pay system satisfaction, benefit level, and benefit system satisfaction (Mulvey, 1991). Since, earlier pay satisfaction models were developed to study pay satisfaction in fixed pay systems, they underrepresent pay satisfaction domain in PFP context.

A major distinguishing feature of PFP system is that it includes variable pay as part of total pay in addition to fixed pay. Some researchers attempted to build the gap by developing new models and scales suitable for measuring pay satisfaction in different types of variable pay systems. For example, Igalens and Rousset (1999) developed a theoretical model of pay satisfaction with fixed pay level and flexible pay level as separate dimensions of direct compensation. Later, Sturman and Short (2000) developed a lump sum bonus scale to supplement PSQ for pay systems with lump sum bonus. Likewise, Fong and Shaffer (2003) developed a group incentive satisfaction scale to indicate employee satisfaction with group incentives as a separate dimension of pay satisfaction. However, these scales focused on satisfaction with outcome related aspects of pay, and thus, failed to capture satisfaction with processes by which the outcomes are determined.

Mulvey *et al.* (2002) were among the first to develop a model to measure employee satisfaction with outcomes and processes aspects of pay. However, the model as well failed to include satisfaction with variable pay process. Later, Williams *et al.* (2008) developed a comprehensive model of pay satisfaction by integrating earlier multidimensional pay satisfaction models. Though the model included variable pay process satisfaction dimension, it included pay raise satisfaction to represent employee satisfaction with variable pay level. Conceptually pay raise is different from variable pay or incentives. Additionally, the model included satisfaction with total pay level as a complementary dimension. Since variable pay is part of total pay, variable pay level satisfaction and total pay level satisfaction may be confounding variables. Moreover, the model did not make a distinction between satisfaction with fixed pay and variable pay.

3. HYPOTHESES AND MODEL DEVELOPMENT

3.1. Dimensionality of the direct compensation satisfaction in variable pay systems

In both low and medium contingents pay plans (Harrison *et al.*, 1996), pay forms include fixed pay as well as variable pay. Variable pay is administratively independent, and thus, may be perceived as a distinct component by the employees (Sturman and Short, 2000). Performance-based pay plan has performance evaluation process and reward allocation process (St-Onge, 2000). Hence, drawing on distributive and procedural justice theories, researchers suggest that pay satisfaction in such systems includes satisfaction with outcome received and satisfaction with process involved in allocating those outcomes (Bhal and Gulati, 2007; Miceli and Mulvey, 2000; Mulvey, 1991; Mulvey *et al.*, 2002).

Integrating pay satisfaction and organizational justice literatures, pay satisfaction may have two outcome-oriented (fixed pay level and variable pay level) and two process-oriented (pay structure and administration and variable pay procedure satisfaction) dimensions in PFP systems. Therefore, we propose:

Hypothesis 1 (H1): The four dimensions of pay satisfaction (fixed pay level variable pay level pay structure & administration and variable pay procedures) will be empirically distinguishable in pay for performance systems.

3.2. Pay satisfaction dimensions and job performance

Pay being an important aspect of job, a potential linkage between pay satisfaction and job performance is assumed in the literature (Lawler, 1971; Williams *et al.*, 2006). Proponents of expectancy and reinforcement theories propose that pay will influence performance only in PFP systems due to the explicit link between pay and performance in such systems. Belcher (1962) and Lawler (1971) advocated that pay satisfaction would be positively related to job performance only in pay systems where pay is based upon performance. In order for pay to be an important motivator there has to be variability in pay options across individuals of varying performance levels. Of different components of pay in PFP systems, variable pay level is expected to strongly influence job performance. Thus:

Hypothesis 2 (H2): Variable pay level satisfaction will be more strongly and positively related to job performance than any other dimensions of pay satisfaction in PFP systems.

3.3. Pay satisfaction dimensions and turnover intentions

Satisfaction with pay can increase employees' desire to stay with an organization (Lawler, 1971; Memon *et al.*, 2017; Mohamed *et al.*, 2017; Porter and Steers, 1973; Singh and Loncar, 2010). This may be because an employee with a favorable attitude may not exhibit unfavorable behaviors (Ajzen and Fishbein, 1977). Consistent to this, three meta-analyses reported moderate negative correlation between pay satisfaction and turnover (Cotton and Tuttle, 1986; Griffeth *et al.*, 2000; Williams *et al.*, 2006). However, the studies included in the meta-analyses treated pay satisfaction as a general construct.

Fair pay procedure is a critical aspect of the quality of work life and is essential to good employer-employee relations. Accordingly, satisfaction with organizational rules and procedures may encourage employees to continue their membership with the organization, and in turn, less likely to quit. Hence, justice scholars have argued that process related aspects are likely to be more important in determining employee's reaction to organizations such as intention to stay/turnover than outcome related aspects (Lind and Tyler, 1988). Previous empirical studies found support for the relative effectiveness of process dimensions of pay satisfaction on turnover than outcome dimensions (Bhal and Gulati, 2007; Choi and Chen, 2007; Vandenberghe and Tremblay, 2008). We, thus, propose:

Hypothesis 3 (H3): The process related dimensions (i.e. pay structure/administration and variable pay procedure satisfaction) will be more strongly and negatively related to turnover intentions than the outcome related dimensions (i.e. fixed pay level and variable pay level satisfaction) of pay satisfaction in PFP systems.

3.3.1. Pay satisfaction and affective commitment

Organization support theory (Eisenberger *et al.*, 1986) and social exchange theory (Blau, 1964) together explain how pay satisfaction influences employees' emotional commitment to organization. As per organizational support theory employees' perceptions of the organization's commitment to them, referred as perceived organizational support (POS), are based on their global beliefs concerning the extent to which the organization values their contributions and cares about their wellbeing (Shore and Wayne, 1993). Social exchange view suggests that employees' inferences about the organization's commitment contribute to their subsequent commitment to the organization widely referred as organizational commitment (Shore and Tetrick, 1991). Since pay satisfaction indicates employee perceptions of the exchange relationship (Miceli and Mulvey, 2000), it may contribute to POS which in turn may influence affective commitment (Rhoades and Eisenberger, 2001; Panaccio *et al.*, 2014; Tarigan and Ariani, 2015). Moreover, because POS is empirically related to both pay satisfaction (Miceli and Mulvey, 2000; Williams *et al.*, 2008) and organizational commitment (Eisenberger *et al.*, 1990; Rhoades *et al.*, 2001), it could also be logically inferred that pay satisfaction and organizational commitment are related constructs. In consistent with this, past research empirically demonstrated that pay satisfaction and affective commitment are related constructs (e.g. Cohen and Gattiker, 1994; Dhawan and Mulla, 2011; Fu *et al.*, 2011; Mathieu and Zajac, 1990 etc.). However, these studies focused on overall pay satisfaction. Schreurs *et al.* (2015) found that pay level satisfaction is related to affective commitment. This study also did not include process related dimensions of pay satisfaction.

The differential effects of pay satisfaction dimensions on affective commitment may be explained using direct effects or two-factor model of organizational justice. As per this model, while distributive (outcome) justice predicts personal-level outcomes, procedural (process) justice is more useful in predicting system-referenced attitudes (Konovsky, 2000; McFarlin and Sweeney, 1992). Affective commitment being a system-reference variable, procedural justice may be more important predictor than distributive justice (Colquitt *et al.*, 2001). Therefore, we predict:

Hypothesis 4 (H4): Process related dimensions (i.e. pay structure/administration and variable pay procedure satisfaction) will be positively and more strongly related to affective commitment than level related dimensions of pay satisfaction (i.e. fixed pay level and variable pay level satisfaction) in PFP systems.

3.3.2. Affective commitment as a mediator

Three meta-analytic reviews (Cohen and Gattiker, 1994; Mathieu and Zajac, 1990; Williams *et al.*, 2007) indicate that pay satisfaction and organizational commitment are related constructs. Affective commitment is a response to positive work experiences (Meyer and Allen, 1991). Moreover, affective commitment was found to be related to objective measures of job performance (Siders *et al.*, 2001) and turnover/turnover intentions (Meyer *et al.*, 2002; Rhoades *et al.*, 2001). Based on Baron and Kenny's (1986) mediating logic, it is hypothesized that the effects of pay satisfaction dimensions on job performance and intention to turnover may be mediated through affective commitment. Thus:

Hypothesis 5 (H5): Affective commitment will be positively related to objective measures of job performance.

Hypothesis 6 (H6): Affective commitment will be negatively related to turnover intentions.

Hypothesis 7a (H7a): Affective commitment will partially mediate the effects of pay satisfaction dimensions on job performance.

Hypothesis 7b (H7b): Affective commitment will partially mediate the effects of pay satisfaction dimensions on turnover intention.

4. METHODOLOGY

The target population for this study consisted of field salesforce working in different branches of the companies located in a metropolitan city in India. A survey was administered among salespeople in two different organizations working under differing reward contingencies. The first sample included sales managers from a financial services company. They were under a moderately contingent reward system: a large part of their total pay was in the form of incentives. There was no ceiling or limit on the incentives. The second sample included sales executives from a telecommunication company. They were under a low contingent reward system: a large part of their total pay was base pay. Variable pay percentage ranged from 10% to 20% of base pay. The incentive was based on meeting individual sales targets. However, the sample was made homogenous with respect to two aspects: organizational level and performance measures. In both companies the selected category of job was an entry-level position and the incentive was determined based on objective performance measure i.e. number of items sold.

In the first company out of 280 questionnaires distributed 178 questionnaires were returned. 24 responses had excessive missing data and hence they were eliminated by employing list-wise deletion approach. The overall response rate was 55%. In the second company out of 220 questionnaires distributed 163 questionnaires were returned. 21 questionnaires were eliminated using list-wise deletion method due to missing data. The overall response rate was 64.5%.

Data regarding pay satisfaction affective commitment and turnover intention was collected from the employees through the use of previously developed multi-item self-report measures. Responses ranged from 1 = strongly disagree to 5 = strongly agree. The wordings of the measures were modified to suit different pay components. The employer provided data on employee job performance.

Fixed pay level satisfaction was measured using 3-item from the pay level satisfaction scale (Heneman and Schwab, 1985). Pay structure and administration satisfaction was measured using 6-item scale

adapted from Mulvey *et al.* (2002) and Williams *et al.* (2008). Variable pay level satisfaction was measured using 3-item scale adapted from Heneman and Schwab (1985). Variable pay procedures satisfaction was measured using 3-item scale developed by Williams *et al.* (2008). Affective commitment was assessed using 8- item developed by Allen and Meyer (1990). Turnover intention was assessed using 3-item scale developed by Cammann *et al.* (1983). The scale was widely used in the past. Respondents’ job performance data was collected from the organizational records. Job performance was measured as percentage of sales quota achieved.

5. RESULTS

5.1. Descriptive statistics

Table 1(a) and 1(b) present the means, standard deviations, inter-correlations, and reliabilities of all variables for sample 1 and sample 2 respectively. Analysis of the inter-correlations among independent variables indicate that none of the correlations are above 0.90, and hence, the problem of multicollinearity is low (Hair *et al.*, 2009). Reliability assessments for all the scales exceeded the minimum standard of .70 as suggested by Nunnally (1978).

5.2. Theoretical model analyses

We followed the two-step approach to structural equation modeling suggested by Anderson and Gerbing (1988). In the first step a confirmatory measurement model that specifies the relations of the observed measures to their posited underlying constructs was estimated. In the second step a confirmatory structural model that specifies the causal relations of the constructs to one another was tested. The fit of both measurement and structural models was tested using SEM software AMOS 18.0. The analysis was based on maximum likelihood estimation.

The measurement model describes the relationship between latent variables and its observed measures where the latent variables are allowed to inter-correlate freely (Anderson and Gerbing, 1988; Hair *et al.*, 2009). Following Hair *et al.*’s (2009) recommendation, we have included multiple fit indices (χ^2 , RMSEA, CFI, TLI, SRMR) to assess the adequacy of measurement models. The recommended cut-off values for the indices for establishing an acceptable fit include:

χ^2 with *p* value > 0.05; RMSEA ≤ 0.08; CFI ≥ 0.95; TLI ≥ 0.95; SRMR ≤ 0.08 (Hair *et al.*, 2009).

Table 1(a): Descriptive statistics and correlations for sample 1

	M	SD	1	2	3	4	5	6	7
Age	30.260	4.559							
Tenure	27.292	13.792							
1 FPLS	2.968	0.978							
2 PSAS	3.082	0.656	0.404**						
3 VPLS	3.180	0.830	0.495**	0.255**					
4 VPSS	3.227	0.707	0.258**	0.126	0.538**				
5 PS	3.097	0.541	0.754**	0.714**	0.768**	0.584**			
6 AC	3.242	0.681	0.300**	0.092	0.459**	0.354**	0.396**		
7 TI	2.639	1.013	-0.495**	-0.242**	-0.538**	-0.454**	-0.575**	-0.576**	
8 Job Performance	1.398	0.561	0.302**	0.078	0.453**	0.254**	0.365**	0.360**	-0.344**

** Correlation is significant at the 0.01 level (2-tailed); *.Correlation is significant at the 0.05 level (2-tailed)

Table 1(b): Descriptive statistics and correlations for sample 2

	M	SD	1	2	3	4	5	6	7
Age	31.105	4.887							
Tenure	30.443	16.408							

1	FPLS	2.972	0.940							
2	PSAS	3.087	0.596	0.384**s						
3	VPLS	3.293	0.824	0.388**	0.216**					
4	VPSS	3.244	0.797	0.171*	0.192*	0.369**				
5	PS	3.148	0.513	0.727**	0.714**	0.671**	0.579**			
6	AC	3.210	0.675	0.270**	0.189*	0.311**	0.315**	0.377**		
7	TI	2.721	0.765	-0.335**	-0.159	-0.212*	-0.148	-0.308**	-0.377**	
8	Job Performance	1.383	.550	0.130	0.193*	0.469**	0.305**	0.391**	0.390**	-0.169*

** Correlation is significant at the 0.01 level (2-tailed); *Correlation is significant at the 0.05 level (2-tailed)

Table 2: Fit indices of the confirmatory factor analysis of pay satisfaction dimensions

	χ^2	Df	CFI	RMSEA	TLI	SRMR	$\Delta \chi^2 (\Delta df)^c$
Sample 1							
1 factor	944.435**	90	0.479	0.245	0.392	0.219	...
2 factors ^a	575.900**	89	0.703	0.189	0.650	0.188	368.535** (1)
3 factors ^b	209.174**	87	0.925	0.096	0.910	0.067	366.726** (2)
4 factors	143.525**	84	0.964	0.068	0.955	0.049	65.649** (3)
Sample 2							
1 factor	614.053**	90	0.500	0.203	0.417	0.169	...
2 factors ^a	412.686**	89	0.691	0.161	0.636	0.150	201.367** (1)
3 factors ^b	206.737**	87	0.886	0.099	0.862	0.096	205.949** (2)
4 factors	106.327**	84	0.979	0.043	0.973	0.047	100.410** (3)

**p < 0.01.

^a combining pay structure and administration, variable pay level, and variable pay system.

^b combining variable pay level and variable pay system.

^c $\Delta \chi^2$ reports χ^2 differences between the target model and the closest one in the sequence of nested models; Δdf reports difference in the degrees of freedom between the target model and the closest nested model.

Note: χ^2 , chi-square; *df*, degrees of freedom; CFI, comparative fit index; RMSEA, root mean square error of approximation; TLI, Tucker-Lewis index; SRMR, standardized root mean square residual.

The fit indices of overall measurement model for sample 1 ($\chi^2 = 391.552$; *df*= 284; $p < 0.01$; RMSEA = 0.050; CFI= 0.965; TLI = 0.959; SRMR = 0.048) and sample 2 ($\chi^2 = 336.261$; *df*= 284; $p = 0.018$;

RMSEA = 0.036; CFI= 0.973; TLI = 0.969; SRMR = 0.055) indicated that measurement models fit the data well. Since χ^2 statistics for both the measurement models were significant, we included two additional fit indices such as Chi-square by degrees of freedom ratio (Cmin) and incremental fit index (IFI) to further test the adequacy of the measurement model (Bentler, 1990; Hair *et al.*, 2009). IFI above 0.90 and χ^2 /df less than 2 indicate a good fit. The resulting indices suggest an acceptable fit IFI = 0.965 and $\chi^2 /df = 1.379$ (sample 1) and IFI = 0.973 and $\chi^2 /df = 1.184$ (sample 2). Taken together the measurement model with 26 items fit the data well in both the samples.

Structural model specifies how the model constructs are related to each other. Structural models were estimated in the next stage to test the hypothesized relationships among the modeled constructs. In the structural model pay satisfaction was treated as exogenous variable job performance and turnover intention as endogenous variables and affective commitment as mediator variable. The fit indices for the structural model for study 1 ($\chi^2 = 447.685$; *df*= 316; $p < .01$; CFI= 0.957; TLI= 0.952; RMSEA= 0.052; SRMR = 0.0671; $\chi^2 /df = 1.417$; IFI = 0.958) and study 2 ($\chi^2 = 392.545$; *df*= 316; $p < .01$; CFI= 0.961; TLI= 0.957; RMSEA= 0.048; SRMR = 0.0702; $\chi^2 /df = 1.242$; IFI = 0.962) indicated that the model fits the data well.

5.3. Hypothesis testing

Hypothesis 1 predicted that the proposed four dimensions of pay satisfaction would be empirically distinguishable. A confirmatory factor analysis was conducted to establish the distinctiveness of the

four dimensions of pay satisfaction. Several measurement models were tested collapsing two or more factors into one. First a 1-factor model combining all 15 items measuring pay satisfaction construct was tested. Then a 2-factor model combining pay structure/administration, variable pay level and variable pay procedure scales into one was tested. In the next step a 3-factor model combining variable pay level and variable pay procedure scales into one was tested. Lastly a 4- factor model with four independent dimensions of pay satisfaction was tested. The fit indices of 1-factor 2-factor and 3-factor models were compared with the hypothesized 4-factor model. The 4-factor model yielded the following fit indices: $\chi^2 = 143.525$; $df= 84$; $p < 0.01$; CFI= 0.964; TLI= 0.955; RMSEA= 0.068; SRMR= 0.049 (sample 1) and $\chi^2 = 106.327$; $df= 84$; $p = 0.050$; CFI= 0.979; TLI= 0.973; RMSEA= 0.043; SRMR= 0.047 (sample 2). The $\Delta \chi^2$ fit index indicated that model fit improved with increase in the number of factors. For both samples the results showed that the 4-factor model fit the data significantly better than various 3-factor 2-factor and 1-factor models. The selected fit indices of the four models for both samples are shown in Table 2. Further, a second-order pay satisfaction model was tested to determine whether an overall pay satisfaction construct exists as a higher order latent construct of the proposed four dimensions namely fixed pay level pay structure and administration variable pay level and variable pay procedure satisfaction. The fit indices for the second-order pay satisfaction model were acceptable in sample 1 ($\chi^2 = 161.600$; $df= 86$; $p < .01$; CFI= .954; TLI= 0.944; RMSEA= 0.076 sample 1) and the fit indices were excellent in sample 2 ($\chi^2 = 118.152$; $df= 86$; CFI= 0.969; TLI= 0.963 RMSEA=0.051 sample 2). Results also suggest that it is possible to conceptualize overall pay satisfaction as a second-order construct. Thus, hypothesis 1 was supported. The path coefficients between constructs in partially mediated model for both samples are shown in Figure 1. The path coefficients for sample 2 are shown in parentheses.

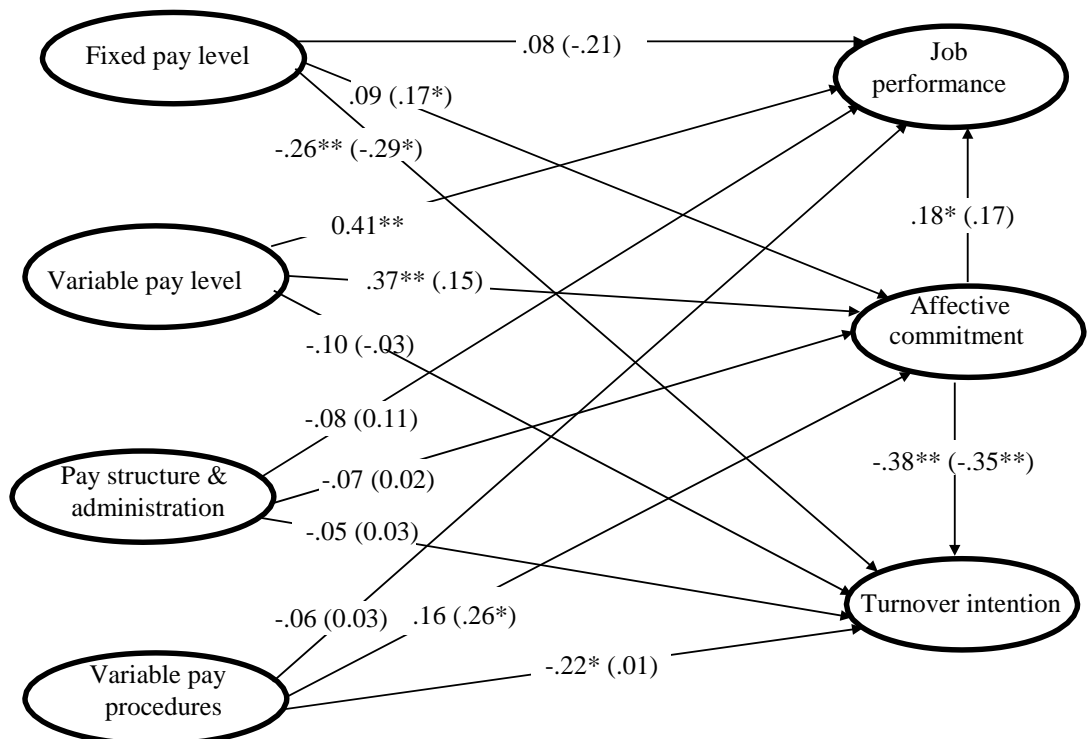


Figure 1: Path Coefficients for the multiorganizational samples. Sample 2 values are in parentheses while those for sample one are not

** p < 0.01; * p < 0.05

Hypothesis 2 predicted that of different dimensions of pay satisfaction variable pay level satisfaction would be the strongest predictor of job performance. The path between variable pay level satisfaction

and job performance was the only significant path in both samples: Sample 1 ($\beta = 0.412$ $p < .01$) and sample 2 ($\beta = 0.533$ $p < .01$). Thus, hypothesis 2 was well supported in both samples.

Hypothesis 3 predicted that process dimensions of pay satisfaction would be strong predictors of turnover intentions. In the first sample fixed pay level satisfaction and variable pay procedures satisfaction was significantly and negatively related to turnover intentions. However, the relationship was stronger for fixed pay level satisfaction ($\beta = - 0.262$ $p < .01$) than variable pay procedures satisfaction ($\beta = - 0.285$ $p < .05$). In the second sample turnover intentions was significantly and negatively related to fixed pay level satisfaction only ($\beta = 0.262$ $p < .01$). Thus, hypothesis 3 was not supported by the results.

Hypothesis 4 predicted process dimensions of pay satisfaction would be better predictor of affective commitment. Variable pay level satisfaction was significantly related to affective commitment in sample 1 ($\beta = 0.372$ $p < .01$). Whereas variable pay procedures was significantly and positively related to affective commitment ($\beta = 0.256$ $p < .05$) in sample 2. Hypothesis 4 was, thus, partially supported from the results.

Hypothesis 5 predicted that affective commitment would be positively related to objective measures of performance. While the standardized coefficient between affective commitment and job performance was significant for sample 1 ($\beta = 0.179$, $p = 0.047$) the relationship was not significant for sample 2 ($\beta = 0.166$ $p = .057$). Hypothesis 5 was, thus, partially supported.

Hypothesis 6 predicted a negative relationship between affective commitment and turnover intentions in variable pay systems. The standardized path coefficients between affective commitment and turnover intentions was negative and significant for both samples ($\beta = - 0.384$; $p < .01$ for sample 1; and $\beta = - 0.349$; $p < .01$ for sample 2). Therefore, hypothesis 6 was supported. Two nested models, a partially mediated model and a fully mediated model, were compared to examine the type of mediation. In the fully mediated model pay satisfaction is expected to influence job performance and turnover intentions only through affective commitment. Whereas in the partially mediated model a direct relationship between pay satisfaction and dependent variables is assumed. The fully mediated model for sample 1 ($\chi^2 = 475.724$; $df = 313$; $p < .01$; CFI= 0.947; TLI= 0.941; RMSEA=0.058) and sample 2 ($\chi^2 = 401.591$; $df = 313$; $p < .01$; CFI=0.955; TLI=0.949; RMSEA=0.045) produced acceptable fit. However, the partially mediated model for sample 1 ($\chi^2 = 415.668$; $df = 305$; $p < .01$; CFI=0.964; TLI= 0.959; RMSEA= 0.049) and sample 2 ($\chi^2 = 361.612$; $df = 305$; $p < .05$; CFI= 0.971; TLI= 0.967; RMSEA= 0.036) yielded better fit statistics as compared to fully mediated model. A χ^2 difference test indicated that the partially mediated models produced significant improvement in model fit than fully mediated model in both samples $\Delta\chi^2 = 60.056$ $p < .01$ (sample 1) and $\Delta\chi^2 = 39.979$ $p < .01$ (sample 2).

5.4. Implications

The present study has implications for HR function. The findings of the study may provide guidelines to HR managers in designing and administering pay components particularly in objective performance based pay systems. The results suggest that managers interested in exploring employee satisfaction with pay must consider multidimensional nature of pay satisfaction. If performance improvement of sales personnel is a goal manager must address outcome aspects of compensation programs. Employees with high levels of variable pay satisfaction may exhibit higher job performance. Moreover, the findings that amount of pay and process determining pay differentials influence affective commitment and turnover intentions have effect on pay policy decisions. Furthermore, as affective commitment was also found to be a significant predictor of turnover intention, managers interested in retaining sales employees might look at factors fostering affective commitment. The literature suggests procedural justice and supervisor support as major work experiences, in addition to equitable organizational rewards, that may contribute to affective commitment. Since the results support

differential impact of pay satisfaction dimensions on the outcomes included in the model, managers must explore the impact of pay satisfaction dimensions on other important work outcomes as well.

Funding: This study received no specific financial support.

Competing Interests: The authors declared that they have no conflict of interests.

Contributors/Acknowledgement: All authors participated equally in designing and estimation of current research.

Views and opinions expressed in this study are the views and opinions of the authors, Asian Journal of Empirical Research shall not be responsible or answerable for any loss, damage or liability etc. caused in relation to/arising out of the use of the content.

References

- Ajzen, I., & Fishbein, M. (1977). Attitude-behavior relations: A theoretical analysis and review of empirical research. *Psychological Bulletin*, 84(5), 888-918. [view at Google scholar](#) / [view at publisher](#)
- Allen, N. J., & Meyer, J. P. (1990). The measurement and antecedents of affective continuance and normative commitment to the organization. *Journal of Occupational Psychology*, 63(1), 1-18. [view at Google scholar](#) / [view at publisher](#)
- Anderson, J. C., & Gerbing, D. W. (1988). Structural equation modeling in practice: A review and recommended two-step approach. *Psychological Bulletin* 103(3), 411-423. [view at Google scholar](#) / [view at publisher](#)
- Armstrong, M., & Murlis, H. (2005). *Reward management: a handbook of remuneration strategy and practice*. London: Kogan Page Limited. [view at Google scholar](#)
- Baron, R. M., & Kenny, D. A. (1986). The moderator-mediator variable distinction in social psychological research: conceptual strategic and statistical considerations. *Journal of Personality and Social Psychology*, 51(6), 1173-1182. [view at Google scholar](#) / [view at publisher](#)
- Beer, M., & Spector, B. (1985). *Reward systems*. In M. Beer and B. Spector (Eds.) *Readings in Human Resource Management*: 399-403, New York: Free Press.
- Belcher, D. W. (1962). *Wage and salary administration*. New York: Prentice-Hall. https://books.google.ae/books/about/Compensation_administration.html?id=5cxDV1LE4AQ_C&redir_esc=y.
- Bentler, P. M. (1990). Comparative fit indexes in structural models. *Psychological Bulletin*, 107(2), 238-246. [view at Google scholar](#) / [view at publisher](#)
- Bhal, K. T., & Gulati, N. (2007). Pay satisfaction of software professionals in India. *Vikalpa: The Journal for Decision Makers*, 32(3), 9-21. [view at Google scholar](#)
- Blau, P. M. (1964). Justice in social exchange. *Sociological Inquiry*, 34(2), 193-206. [view at Google scholar](#)
- Bloom, M., & Milkovich, G. T. (1998). Relationships among risk incentive pay and organizational performance. *Academy of Management Journal*, 41(3), 283-297. [view at Google scholar](#) / [view at publisher](#)
- Cammann, C., Fichman, M., Jenkins, G. D., & Klesh, J. (1983). Michigan organizational assessment questionnaire. *Assessing organizational change: A guide to methods measures and practices*, 73(1), 71-138. [view at Google scholar](#) / [view at publisher](#)
- Carraher, S. M., & Buckley, M. R. (1996). Cognitive complexity and perceived dimensionality of pay satisfaction. *Journal of Applied Psychology*, 81(1), 102-109. [view at Google scholar](#) / [view at publisher](#)
- Choi, J., & Chen, C. C. (2007). The relationships of distributive justice and compensation system fairness to employee attitudes in international joint ventures. *Journal of Organizational Behavior*, 28, 687-703. [view at Google scholar](#) / [view at publisher](#)
- Cohen, A., & Gattiker, U. E. (1994). Rewards and organizational commitment across structural characteristics: A meta-analysis. *Journal of Business and Psychology*, 9(2), 137-157. [view at Google scholar](#) / [view at publisher](#)

- Colquitt, J. A., Conlon, D. E., Wesson, M. J., Porter, C., & Ng, K. Y. (2001). Justice at the millennium: a meta-analytic review of 25 years of organizational justice research. *Journal of applied psychology, 86*(3), 425-445. [view at Google scholar](#) / [view at publisher](#)
- Cotton, J. L., & Tuttle, J. M. (1986). Employee turnover: a meta-analysis and review with implications for research. *Academy of Management Review, 11*(1), 55-70. [view at Google scholar](#) / [view at publisher](#)
- Dhawan, V., & Mulla, Z. (2011). The role of pay and leadership in developing organizational commitment. *South Asian Journal of Management, 18*(2), 60-75. [view at Google scholar](#)
- Durham, C. C., & Bartol, K. M. (2000). *Pay for performance*. Handbook of principles of organizational behavior, 2nd Edition, 150-165. [view at Google scholar](#) / [view at publisher](#)
- Dyer, L., & Theriault, R. (1976). The determinants of pay satisfaction. *Journal of Applied Psychology, 61*(5), 596-604. [view at Google scholar](#) / [view at publisher](#)
- Eisenberger, R., Fasolo, P., & Davis-LaMastro, V. (1990). Perceived organizational support and employee diligence commitment and innovation. *Journal of Applied Psychology, 75*(1), 51- 59. [view at Google scholar](#) / [view at publisher](#)
- Eisenberger, R., Huntington, R., Hutchison, S., & Sowa, D. (1986). Perceived organizational support. *Journal of Applied Psychology, 71*(3), 500-507. [view at Google scholar](#) / [view at publisher](#)
- Fong, S. C. L., & Shaffer, M. A. (2003). The dimensionality and determinants of pay satisfaction: a cross-cultural investigation of a group incentive plan. *International Journal of Human Resource Management, 14*(4), 559-580. [view at Google scholar](#) / [view at publisher](#)
- Fu, W., Deshpande, S. P., & Zhao, X. (2011). The impact of ethical behavior and facets of job satisfaction on organizational commitment of Chinese employees. *Journal of Business Ethics, 104*(4), 1-7. [view at Google scholar](#) / [view at publisher](#)
- Gardner, D. G., Van Dyne, L., & Pierce, J. L. (2004). The effects of pay level on organization- based self-esteem and performance: A field study. *Journal of Occupational & Organizational Psychology, 77*(3), 307-322. [view at Google scholar](#) / [view at publisher](#)
- Gerhart, B. A., Minkoff, H. B., & Olsen, R. N. (1995). *Employee compensation: theory practice and evidence*. CAHRS Working Paper Series. [view at Google scholar](#)
- Gerhart, B., & Milkovich, G. T. (1990). Organizational differences in managerial compensation and financial performance. *Academy of Management Journal, 33*(4), 663-691. [view at Google scholar](#) / [view at publisher](#)
- Gerhart, B., & Milkovich, G. T. (1992). *Employee compensation*. Research and Practice. In M. Dunnette, D., & Hough, L. M. (Eds.), Handbook of industrial and organizational psychology, Vol. 3, Palo Alto CA: Consulting Psychologists Press. [view at Google scholar](#)
- Gerhart, B., & Rynes, S. L. (2003). *Compensation: Theory evidence and strategic implications*. Thousand Oaks CA: Sage Publications. [view at Google scholar](#) / [view at publisher](#)
- Gomez-Mejia, L. R., Balkin, D. B., & Cardy, R. L. (2004). *Managing human resources*. Prentice Hall Upper Saddle River. [view at Google scholar](#)
- Griffeth, R. W., Hom, P. W., & Gaertner, S. (2000). A meta-analysis of antecedents and correlates of employee turnover: Update moderator tests and research implications for the next millennium. *Journal of Management, 26*(3), 463-488. [view at Google scholar](#) / [view at publisher](#)
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2009). *Multivariate data analysis* (Sixth ed.), New Delhi: Pearson Education. [view at Google scholar](#)
- Harrison, D. A., Virick, M., & William, S. (1996). Working without a net: time performance and turnover under maximally contingent rewards. *Journal of Applied Psychology, 81*(4), 331-345. [view at Google scholar](#) / [view at publisher](#)
- Hauret, L., & Williams, D. R. (2017). Relative income and pay satisfaction: Further evidence on the role of the reference group. *Journal of Happiness Studies, 1*-23. [view at Google scholar](#) / [view at publisher](#)
- Heneman, III H. G. (1985). *Pay satisfaction*. In K. M. Rowland and G. R. Ferris (Eds.), Research in Personnel and Human Resource Management, 3, 115-139. Connecticut: Jai Press Inc. [view at Google scholar](#)

- Heneman, III H. G., & Schwab, D. P. (1985). Pay satisfaction: its multidimensional nature and measurement. *International Journal of Psychology*, 20(2), 129-141. [view at Google scholar](#) / [view at publisher](#)
- Heneman, R. L., & Gresham M. T. (2002). *Performance-based pay plans*. In R. L. Heneman (Eds.), Strategic Reward Management: Design Implementation and Evaluation, Greenwich: Information Age Publishers. [view at Google scholar](#)
- Heneman, R. L., Porter, G., Greenberger, D. B., & Strasser, S. (1997). Modeling the relationship between pay level and pay satisfaction. *Journal of Business and Psychology*, 12(2), 147-158. [view at Google scholar](#)
- Igalens, J., & Roussel, P. (1999). A study of the relationships between compensation package work motivation and job satisfaction. *Journal of Organizational Behavior*, 20(7), 1003-1025. [view at Google scholar](#) / [view at publisher](#)
- Ismail, A., & Shariff, M. N. M. (2008). Interactional justice between pay level job satisfaction and job performance within Malaysian institutions of higher learning. *International Journal of Business and Management Science*, 1(1), 67-83. [view at Google scholar](#) / [view at publisher](#)
- Judge, T. A. (1993). Validity of the dimensions of the pay satisfaction questionnaire: Evidence of differential prediction. *Personnel Psychology*, 46, 331-355. [view at Google scholar](#) / [view at publisher](#)
- Konovsky, M. A. (2000). Understanding procedural justice and its impact on business organizations. *Journal of Management*, 26(3), 489-511. [view at Google scholar](#) / [view at publisher](#)
- Kurland, N. B. (1991). The ethical implications of the straight-commission compensation system- An agency perspective. *Journal of Business Ethics*, 10(10), 757-766. [view at Google scholar](#) / [view at publisher](#)
- Lawler, III E. E. (1971). *Pay and organizational effectiveness: a psychological view*. New York: McGra-Hill Book Company. [view at Google scholar](#) / [view at publisher](#)
- Lazear, E. P. (1996). *Performance pay and productivity*. National bureau of economic research Cambridge Mass. USA. [view at Google scholar](#) / [view at publisher](#)
- Lazear, E. P. (1999). *Output-based pay: incentives or sorting?*. National bureau of economic research Cambridge Mass, USA. [view at Google scholar](#) / [view at publisher](#)
- Lazear, E. P. (2000). Performance pay and productivity. *The American Economic Review* 90(5), 1346-1361. [view at Google scholar](#) / [view at publisher](#)
- Lind, E. A., & Tyler, R. T. (1988). *The social psychology of procedural justice*. Springer Science & Business Media. [view at Google scholar](#)
- Locke, E. A. (1983). *The nature and causes of job satisfaction*. In M. D. Dunnette (Ed.) Handbook of Industrial and Organizational Psychology, New York: John Wiley and Sons. [view at Google scholar](#)
- Mathieu, J. E., & Zajac, D. M. (1990). A review and meta-analysis of the antecedents correlates and consequences of organizational commitment. *Psychological Bulletin*, 108(2), 171-194. [view at Google scholar](#) / [view at publisher](#)
- McFarlin, D. B., & Sweeney, P. D. (1992). Research notes. Distributive and procedural justice as predictors of satisfaction with personal and organizational outcomes. *Academy of Management Journal*, 35(3), 626-637. [view at Google scholar](#) / [view at publisher](#)
- Memon, M. A., Salleh, R., & Baharom, M. N. R. (2017). The mediating role of work engagement between pay satisfaction and turnover intention. *International Journal of Economics, Management and Accounting*, 25(1), 43. [view at Google scholar](#)
- Meyer, J. P., & Allen, N. J. (1991). A three-component conceptualization of organizational commitment. *Human Resource Management Review*, 1(1), 61-89. [view at Google scholar](#) / [view at publisher](#)
- Meyer, J. P., Stanley, D. J., Herscovitch, L., & Topolnytsky, L. (2002). Affective continuance and normative commitment to the organization: A meta-analysis of antecedents correlates and consequences. *Journal of Vocational Behavior*, 61(1), 20-52. [view at Google scholar](#) / [view at publisher](#)

- Miceli, M. P., & Lane, M. C. (1991). *Antecedents of pay satisfaction: a review and extension*. In K. M. Rowland and G. R. Ferris (Eds.) *Research in Personnel and Human Resources Management*, Vol. 9: 235-309, Greenwich: Jai Press Inc. [view at Google scholar](#)
- Miceli, M. P., & Mulvey, P. W. (2000). Consequences of satisfaction with pay systems: Two field studies. *Industrial Relations*, 39(1), 62-87. [view at Google scholar](#) / [view at publisher](#)
- Milkovich, G., Newman, J., & Gerhart, B. (2017). *Compensation*. 12th edition, McGraw Hill Education, <https://www.mheducation.co.uk/9781259532726-emea-compensation>.
- Mohamed, A. A., Mohamad, M. S., & Awad, A. E. (2017). The relationship between pay satisfaction and turnover intention in Egypt. *Journal of Competitiveness Studies*, 25(1), 65- 79. [view at Google scholar](#)
- Mulvey, P. W. (1991). *Pay system satisfaction: an exploration of the construct and its predictors*. The Ohio State University. [view at Google scholar](#)
- Mulvey, P. W., LeBlanc, P. V., Heneman, R. L., & McInerney, M. (2002). Study finds that knowledge of pay process can beat out amount of pay in employee retention organizational effectiveness. *Journal of Organizational Excellence*, 21(4), 29-42. [view at Google scholar](#) / [view at publisher](#)
- Nunnally, J. (1978). *Psychometric methods*. McGraw-Hill Book Co.: New York. [view at Google scholar](#) / [view at publisher](#)
- Panaccio, A., Vandenberghe, C., & Ben Ayed, A. K. (2014). The role of negative affectivity in the relationships between pay satisfaction, affective and continuance commitment and voluntary turnover: A moderated mediation model. *Human relations*, 67(7), 821-848. [view at Google scholar](#) / [view at publisher](#)
- Pierce, J. L., & Gardner, D. G. (2004). Self-esteem within the work and organizational context: A review of the organization-based self-esteem literature. *Journal of Management*, 30(5), 591-622. [view at Google scholar](#) / [view at publisher](#)
- Porter, L. W., & Steers, R. M. (1973). Organizational, work, and personal factors in employee turnover and absenteeism. *Psychological Bulletin*, 80(2), 151-176. [view at Google scholar](#) / [view at publisher](#)
- Rhoades, L., & Eisenberger, R., (2001). Perceived organizational support: a review of the literature. *Journal of Applied Psychology*, 87(4), 698-714. [view at Google scholar](#)
- Rhoades, L., Eisenberger, R., & Armeli, S. (2001). Affective commitment to the organization: The contribution of perceived organizational support. *Journal of applied psychology*, 86(5), 825. [view at Google scholar](#) / [view at publisher](#)
- Scarpello, V., & Carraher, S. M. (2008). Are pay satisfaction and pay fairness the same construct?. *Baltic Journal of Management*, 3123-39(1), 23-39. [view at Google scholar](#)
- Schreurs, B., Guenter, H., van Emmerik, I. H., Notelaers, G., & Schumacher, D. (2015). Pay level satisfaction and employee outcomes: the moderating effect of autonomy and support climates. *The International Journal of Human Resource Management*, 26(12), 1523-1546. [view at Google scholar](#) / [view at publisher](#)
- Shantz, A., Wang, J., & Malik, A. (2018). Disability status, individual variable pay, and pay satisfaction: Does relational and institutional trust make a difference?. *Human Resource Management*, 57(1), 365-380. [view at Google scholar](#) / [view at publisher](#)
- Shapiro, H. J., & Wahba, M. A. (1978). Pay satisfaction: an empirical test of a discrepancy model. *Management Science*, 24(6), 612-622. [view at Google scholar](#) / [view at publisher](#)
- Shaw, J. D., & Gupta, N. (2007). Pay system characteristics and quit patterns of good average and poor performers. *Personnel Psychology*, 60, 903-928. [view at Google scholar](#) / [view at publisher](#)
- Shaw, J. D., & Gupta, N. (2015). Let the evidence speak again! Financial incentives are more effective than we thought. *Human Resource Management Journal*, 25(3), 281-293. [view at Google scholar](#) / [view at publisher](#)
- Shittu, O. (2008). Pay referent comparison and pay level satisfaction: Some differences among employees in the UK food retail sector. *Management Research News*, 31(7), 538-548. [view at Google scholar](#) / [view at publisher](#)
- Shore, L. M., & Tetrick, L. E. (1991). A construct validity study of the survey of perceived organizational support. *Journal of Applied Psychology*, 76(5), 637-643. [view at Google scholar](#) / [view at publisher](#)

- Shore, L. M., & Wayne, S. J. (1993). Commitment and employee behavior: Comparison of affective commitment and continuance commitment with perceived organizational support. *Journal of Applied Psychology, 78*(5), 774-780. [view at Google scholar](#) / [view at publisher](#)
- Siders, M. A., George, G., & Dharwadkar, R. (2001). The relationship of internal and external commitment foci to objective job performance measures. *Academy of Management Journal, 44*(3), 570-579. [view at Google scholar](#) / [view at publisher](#)
- Singh, P., & Loncar, N. (2010). Pay satisfaction job satisfaction and turnover intent. *Relations Industrielles/Industrial Relations, 65*(3), 470-490. [view at Google scholar](#) / [view at publisher](#)
- St-Onge, S. (2000). Variables influencing the perceived relationship between performance and pay in a merit pay environment. *Journal of Business & Psychology, 14*(3), 459-479. [view at Google scholar](#)
- Sturman, M. C., & Short, J. C. (2000). Lump-sum bonus satisfaction: testing the construct validity of a new pay satisfaction dimension. *Personnel Psychology, 53*, 673-700. [view at Google scholar](#) / [view at publisher](#)
- Tarigan, V., & Ariani, D. W. (2015). Empirical study relations job satisfaction, organizational commitment, and turnover intention. *Advances in Management and Applied Economics, 5*(2), 21. [view at Google scholar](#)
- Vandenberghe, C., & Tremblay, M. (2008). The role of pay satisfaction and organizational commitment in turnover intentions: a two-sample study. *Journal of Business Psychology, 22*: 275-286. [view at Google scholar](#) / [view at publisher](#)
- Vandenberghe, C., St-onge, S., & Robineau, É. (2008). An analysis of the relation between personality and the attractiveness of total rewards components. *Industrial Relations, 63*(3), 425-450. [view at Google scholar](#) / [view at publisher](#)
- Weiner, N. (1980). Determinants and behavioral consequences of pay satisfaction: A comparison of two models. *Personnel Psychology, 33*(4), 741-757. [view at Google scholar](#) / [view at publisher](#)
- Williams, M. L., Brower, H. H., Ford, L. R., Williams, L. J., & Carraher, S. M. (2008). A comprehensive model and measure of compensation satisfaction. *Journal of Occupational & Organizational Psychology, 81*(4), 639-668. [view at Google scholar](#) / [view at publisher](#)
- Williams, M. L., McDaniel, M. A., & Nguyen, N. T. (2006). A meta-analysis of the antecedents and consequences of pay level satisfaction. *Journal of Applied Psychology, 91*(2), 392-413. [view at Google scholar](#) / [view at publisher](#)
- Williams, M., McDaniel, M., & Ford, L. (2007). Understanding multiple dimensions of compensation satisfaction. *Journal of Business & Psychology, 21*(3), 429-459. [view at Google scholar](#) / [view at publisher](#)