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ORGANIZATIONAL SUPPORT AND JOB SATISFACTION: META-ANALYSIS STUDY-2

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ORGANIZATIONAL SUPPORT AND JOB SATISFACTION: META-ANALYSIS STUDY

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Abstract

This study aims to determine the relationship between organizational support and job satisfaction. Using the meta-analysis approach, the hypothesis is proposed that there is a relationship between organizational support and job satisfaction. Previous studies used 19 articles containing 22 research results that have F, t, d, and r values. The total sample obtained was 11,257 samples with various backgrounds. The analysis shows that there is a relationship between organizational support and job satisfaction, with correlation of population is 0.57, with correlation variance of population is 0.00932 and SD = 0.10104.

Keywords: organizational support, job satisfaction, meta-analysis

INTRODUCTION

Job satisfaction as one of the key factors of work performance has been agreed by many researchers (Kim & Back, 2012). The results of a meta-analysis of 70 journal articles with a total sample of 12,192 by Iaffaldano & Muchinsky (1985) showed a correlation between job satisfaction and job performance by 0.146. Although overall the correlation rate is small, there are 28 articles that have a correlation number above 0.30, there are even 2 studies of which have a correlation of 0.69 and 0.72.

Job satisfaction is the emotional condition and affection of employees in response to some specific aspects of their work (Kreitner & Kinicki, 1992). O'Reills states that that job satisfaction is the result of an individual's cognitive process of work, which includes perceptions of work and perceptions of conformity between organizations and themselves (Kim & Back, 2012).

Theory of Social Information Processing stated that work attitudes and behavior are influenced by their social environment (Fritzsche & Parrish, 2005). Thus, how individuals process information, signs and symbols received will affect work behavior. One social element of individuals in the workplace is the organization, which has various variables in it, including organizational support. Abraham states that organizational support, organizational climate, and self-efficacy are factors that influence job satisfaction (Kim & Back, 2012).

Job satisfaction according to Spector (1985) has nine aspects, namely social security, communication, bonus, work itself, workplace conditions, salary, promotion, supervision, and work colleagues. Hackman & Oldham (1976) mentions five dimensions kep u a san work, that diversity of skills, task identity, task significance, autonomy, and feedback. Camman, Fichman, Jenkins & Klesh in 1979 developed a scale called the Michigan Organizational Assessment Questionnaire that measures job satisfaction consisting of 3 items. These three items include dislike of work, satisfaction with work, and preference for the workplace (Johnson,

2004). Brayfield & Rothe (1951) mention five indicators of job satisfaction, namely the job itself, wages, promotion opportunities, supervision, and work colleagues. The same dimensions as Brayfield & Rothe are also mentioned by Price & Meuller (1981).

Reciprocity theory states that employees will pay their organizations for the support they have received through attention and care for the organization and bring out the best performance (Kim & Back, 2012). Eisenberger, Huntington, Hutchison & Sowa (1986) state that high organizational support for employees will bring positive results for both the organization itself and its employees. Strong organizational support will meet the socio-emotional needs of employees and encourage them to bring up positive work attitudes, including job satisfaction.

Organizational support according to Eisenberger et al (1986) has four aspects namely appreciation, assessment, development, and involvement. Giving awards for the achievement of the work, especially if there are exceeding the target set. The assessment is carried out as an effort to provide fair and balanced treatment to all employees. The results of the assessment will be one of the references in the individual development process carried out by the organization. Individuals are also given the opportunity to take a role in the running of the organization through involvement in absorption of aspirations and decision making.

The variety of approaches taken to job satisfaction is different from the uniform approach used for organizational support. Fields (2002) states that all approaches to job satisfaction have a level of strength of indicators and items that have been tested for validity and reliability. In this regard, this study aims to determine the relationship between organizational support and job satisfaction. The hypothesis developed is that there is a relationship between organizational support and job satisfaction. To test this hypothesis, this study uses a meta-analysis method to integrate various studies that have been conducted on these two variables.

METHOD

Literature Search

Articles that fit this research theme were obtained through online access to several scientific journal provider sites, including EBSCO, ProQuest, Science Direct, Taylor & Francis, Willey, and Sage Publication. The keywords used to look for related journals are *job satisfaction* and *perceived organizational support*. All of the findings are then selected according to the appropriate criteria for the meta-analysis process to be carried out.

Article Criteria

The article criteria for this research are articles that *perceived organizational support* as an independent variable and *job satisfaction* as the dependent variable. Research conducted in the article also has statistical data in the form of mean values, standard deviations, r values, or F values.

The search resulted in 19 articles that met the criteria, there were 22 research results in the 19 articles. One study has an F value and the other 21 have a correlation coefficient (r). The existing F value is then transformed into an r value for analysis.

Meta-analysis Procedure

The meta-analysis conducted refers to Hunter & Schmidt (2004), namely through stages:

1. Change the algebraic equation from F value to r value

2. Correction of sample errors is done by calculating the population correlation average, calculating the r_{xy} variance ($\sigma^2 r$), calculating the sampling error variance ($\sigma^2 e$), and calculating the impact of sampling

RESULTS AND DISCUSSION

Characteristics of Research Samples

This study using 11,257 subjects, who have characteristics as in table 1.

Table 1 Characteristics of Research Samples

No	Year	Researcher	Study	Amount (N)	Characteristics
		2	number		
1.	2014	Cullen, KL, Edwards, BD,	1	93	Employee
		Casper, WC, & I, KR			
2.	2014	Cullen, KL, Edwards, BD,	2	379	Employee
		Casper, WC, & I, KR			
3.	2013	Fu, W., Sun, Y., Wang, X, &	1	984	Student
		Yang, LW			
4.	2014	Islam, T., Khan, SR, Ahmad,	1	412	Employee
		UNU, & Ahmed, I.			
5.	2012	Pathak, D.	1	200	Manager
6.	2014	Zorlu, K & Bastemur, C	1	129	Mixed Employees &
		9			Managers
7.	2014	Fila, MJ, Paik, LS, Griffeth, RW,	1	343	Employee
		& Allen, D			
8.	2006	Hemmasi, IMJP (study 1)	1	332	Mixed Employees &
					Managers
9.	2006	Hemmasi, IMJP (study 2)	2	186	Employee
10.	2007	Muse, LA, & Stamper, CL	1	263	Employee
11.	2010	Paille, P, Bourdeau, L & Galois, I	1	355	Bachelor
12.	2015	Paille, P, Grima, F & Dufour, ME	1	704	Employee
13.	2009	Butts, MM, Vandenberg, RJ,	1	1723	Employee
		DeJoy, DM, Schaffer, BS, &			
		Wilson, MG			
14.	2013	Biswas, S., & Bhatnagar, J.	1	246	Employee
15.	2009	Reinardy, S	1	715	Journalist
16.	2012	Ohana, M	1	261	Employee
17.	2002	Yoon, J & Thye, SR	1	2443	Manager
18.	2011	Ladebo, OJ, Abubakar, BZ, &	1	223	Employee
		Adamu, CO			
19.	2012	Ibrahim, HI	1	115	Manager
20.	2014	Ngo, HY, Foley, S, Ji, MS, &	1	591	Employee
	5	Loi, R			
21.	2003	Allen, DG, Shore, LM, &	1	215	Salesperson
	5	Griffeth, RW (study 1)			
22.	2003	Allen, DG, Shore, LM, &	2	345	Employee
		Griffeth, RW (study 2)			

1. Transform F values into t, d and r values

There is only one study that has an F value, so it needs to be transformed into t, d and r values to be analyzed further. Transform this value using the equation formula:

$$t=\sqrt{F}$$
; $d=rac{2t}{\sqrt{N}}$; $r=rac{d}{\sqrt{(4+d^2)}}$

Correlation r_{xy} values of all studies, including the results of the transformation of the F value, as seen in table 2.

 $\label{eq:Table 2} \textbf{Table 2} \\ \text{The value of r_{xy} and F value transformation}$

No	Year	Researcher	N	F	t	d	r
1.	2014	Cullen, KL, Edwards, BD, Casper, WC, & I, KR	93				0.44
2.	2014	Cullen, KL, Edwards, BD, Casper, WC, & I, KR	379				0.59
3.	2013	Fu, W., Sun, Y., Wang, X, & Yang, LW	984				0.57
4.	2014	Islam, T., Khan, SR, Ahmad, UNU, & Ahmed, I.	412				0.45
5.	2012	Pathak, D.	200	23,428	4.84	0.68	0.32
6.	2014	Zorlu, K & Bastemur, C	129				0.696
7.	2014	Fila, MJ, Paik, LS, Griffeth, RW, & Allen, D	343				0.57
8.	2006	Hemmasi, IMJP (study 1)	332				0.43
9.	2006	Hemmasi, IMJP (study 2)	186				0.51
10.	2007	Muse, LA, & Stamper, CL	263				0.58
11.	2010	Paille, P, Bourdeau, L & Galois, I	355				0.643
12.	2015	Paille, P, Grima, F & Dufour, ME	704				0.56
13.	2009	Butts, MM, Vandenberg, RJ, DeJoy, DM, Schaffer, BS, & Wilson, MG	1723				0.66
14.	2013	Biswas, S., & Bhatnagar, J.	246				0.48
15.	2009	Reinardy, S	715				0.695
16.	2012	Ohana, M	261				0.52
17.	2002	Yoon, J & Thye, SR	2443				0.61
18.	2011	Ladebo, OJ, Abubakar, BZ, & Adamu, CO	223				0.56
19.	2012	Ibrahim, HI	115				0.49
20.	2014	Ngo, HY, Foley, S, Ji, MS, & Loi, R	591				0.49
21.	2003	Allen, DG, Shore, LM, & Griffeth, RW (study 1)	215				0.31
22.	2003	Allen, DG, Shore, LM, & Griffeth, RW (study 2)	345				0.26

2. Sampling Error Correction

This correction was carried out to get the best estimate of the average correlation from several studies, obtained by weighting the correlation coefficient of each study with the number of samples (Hunter & Schmidt, 2004).

a. Average Correlation of Population

The mean population correlation is obtained through the following equation: $\hat{\mathbf{r}} = \frac{\sum (N_i r_i)}{\sum N_i}$

The average calculation step is performed as in table 3.

Table 3
Sampling Error Correction

No	N	r	N xr i
1.	93	0.44	40.92
2.	379	0.59	223.61
3.	984	0.57	561.86
4.	412	0.45	185.40
5.	200	0.32	64.76
6.	129	0.696	89.78
7.	343	0.57	195.51
8.	332	0.43	142.76
9.	186	0.51	94.86
10.	263	0.58	152.54
11.	355	0.643	228.27
12.	704	0.56	394.24
13.	1723	0.66	1137.18
14.	246	0.48	118.08
15.	715	0.695	496.93
16.	261	0.52	135.72
17.	2443	0.61	1490.23
18.	223	0.56	124.88
19.	115	0.49	56.24
20.	591	0.49	289.59
21.	215	0.31	66.65
22.	345	0.26	89.70
amount	11257		6379.71
Average			0.57

Based on table 3 above, the mean population correlation after being corrected is $\hat{\boldsymbol{r}}=0.57$

b. Variance r_{xy} ($\sigma^2 r$)

Variance r_{xy} or $\sigma^2 r$ is obtained through the equation formula: $\sigma^2 r = \frac{\sum [N_i(r_i - \hat{r})^2]}{\sum N_i}$

The results of the calculation of variance r_{xy} as in table 4.

Table 4 Variance r_{xy}

	21				
No	N	r i	$(\mathbf{r}_{i} - \hat{\mathbf{r}})$	$(\mathbf{r}_{i} - \hat{\mathbf{r}})^{2}$	$N(r_i - \hat{r})^2$
1.	93	0.44	-0.13	0.0169	1.57
2.	379	0.59	0.02	0.0004	0.15
3.	984	0.57	00.0	0.0000	0.00
4.	412	0.45	-0.12	0.0144	5.93
5.	200	0.32	-0.25	0.0606	12.12
6.	129	0.696	0.13	0.0159	2.05
7.	343	0.57	00.0	0.0000	0.00
8.	332	0.43	-0.14	0.0196	6.51
9.	186	0.51	-0.06	0.0036	0.67
10.	263	0.58	0.01	0.0001	0.03
11.	355	0.643	0.07	0.0053	1.89
12.	704	0.56	-0.01	0.0001	0.07
13.	1723	0.66	0.09	0.0081	13.96
14.	246	0.48	-0.09	0.0081	1.99
15.	715	0.695	0.13	0.0156	11.17
16.	261	0.52	-0.05	0.0025	0.65
17.	2443	0.61	0.04	0.0016	3.91
18.	223	0.56	-0.01	0.0001	0.02
19.	115	0.49	-0.08	0.0066	0.75
20.	591	0.49	-0.08	0.0064	3.78
21.	215	0.31	-0.26	0.0676	14.53
22.	345	0.26	-0.31	0.0961	33.15
Amount	11257				114.92
Average	511.68				0.010209

Based on Table 4 above, the variance r_{xy} amounted to 0.010209

c. Sampling error variance

The results of the calculation of variance r_{xy} of 0.010209 are not purely variations in population correlations because they still contain variations in sample correlations produced by sampling errors. To get the pure magnitude of variation in population correlation, Hunter & Schmidt (2004) suggests a r_{xy} variance of 0.010209 to be corrected for sampling error. The calculation process is done through the equation formula: $\sigma^2 e = \frac{(1-\hat{r}^2)^2}{(\tilde{N}-1)}$

Calculations using the formula above result $\sigma^2 e = (1-0.57^2)^2 / (511.68-1)$, so the magnitude of $\sigma^2 e = 0.00089$.

d. Estimation of population correlation variance

This true variance is obtained through correction of the variance r_{xy} minus the sampling error variance. The equation formula is as follows: $\sigma^2 \rho = \sigma^2 r - \sigma^2 e$ The results of the population correlation variance calculation is $\sigma^2 \rho = 0.00932$

e. Impact of Sampling Error

The impact of sampling error from this meta-analysis study was calculated using the equation formula $=\frac{\sigma 2e}{\sigma 2\rho}\times 100\%$

The results of this calculation produce an impact sampling error rate of 9.58%. This means that there are 90.42% other error factors that have not been studied.

Confidence Interval

The range of confidence that this meta-analysis study had was calculated using the equation formula = $\hat{r} \pm 1.96$ SD. The calculation results show the Standard Deviation is 0.10104 and the range of confidence interval is 0.3687 < \hat{r} < 0.7648.

3. Comparison of Population Correlation Rates Based on Sample Characteristics

This study groups the sample characteristics as in table 1 into two large groups, namely the Employee group and the Manager group. Research that used mixed samples or outside the two groups was not included in the comparison. The full comparison can be seen in the following table 5:

Table 5
Comparison of Correlation Mean Population of Employee and Manager Samples

	Emp	oloyee			Mana	ger	
Study No.	N	r _i	Nxri	Study No.	N	r i	Nxri
1	93	0.44	40.92	5	200	0.32	64.76
2	379	0.59	223.61	17	2443	0.61	1490.23
3	412	0.45	185.40	19	115	0.49	56.24
7	343	0.57	195.51				
9	186	0.51	94.86				
10	263	0.58	152.54				
12	704	0.56	394.24				
13	1723	0.66	1137.18				
14	246	0.48	118.08				
16	261	0.52	135.72				
18	223	0.56	124.88				
20	591	0.49	289.59				
22	345	0.26	89.70				
amount	5769		3182.23	amount	2758		1611.23
Average	443.8		0.55	Average	919.3		0.58

Based on table 5 above, the mean population correlation in the manager group is greater than the Employees group. This shows the relationship between organizational support and job satisfaction is stronger in the manager sample.

DISCUSSION

The results of the analysis show the correlation of the population after being corrected with a sample error obtained by 0.57, with the population correlation variance is 0.00932 and SD = 0.10104. At the 95% significance level, the limit for the range of acceptance of confidence intervals are $0.3687 < \hat{r} < 0.7648$. This shows that the hypothesis of this study is acceptable, it means there is a relationship between organizational support and job satisfaction.

A correlation number of 0.57 indicates a strong relationship between organizational support and job satisfaction. This strong relationship shows that there is a large influence of organizational support received on perceived job satisfaction. This is consistent with the opinion of Eisenberger et al (1986) that the support provided by the organization will bring about changes in socio-emotion in employees so that it will affect their attitudes towards work, including increased job satisfaction. Appreciation, assessment, development and involvement in the organization will be felt as a positive thing in the employee so that it will create a feeling of satisfaction at work.

The assessment has done as an effort to provide fair and balanced treatment to all employees. Appraisal is also a tangible form of organizational support for employees because there will appear a sense of attention and needed. The effect of valuation is of course the rewards in various forms. Giving awards for the achievement of work results, especially if there are exceeding the target set shows that there is real support from the organization to employees so that they always try to work optimally. Rewards in the form of salaries, bonuses, promotions and so on will increase satisfaction with what he gets from his work. Financial satisfaction is one of the main indicators of job satisfaction (Spector, 1985; Brayfield & Rothe, 1951; Price & Meuller, 1981).

Individuals are also given the opportunity to take a role in the organization through absorption of aspirations and decision making. This is facilitating the needs of employees so that the programs will be in line with employee expectations. This is also the beginning for the organization to make employees at work totally. Bright ideas are expected to appear more in decision-making forums that involve employees. The feeling of being involved will encourage the emergence of a sense of belonging and satisfaction with the work being done.

The results of the meta-analysis also show the correlation between organizational support and job satisfaction is stronger in the manager sample than the employee sample. However, this difference is not large and the two groups are in the category of strong relationships (mean correlation > 0.5). This is consistent with the overall results which also show a strong correlation between organizational support and job satisfaction.

The results of this study have implications for organizations that organizational support is very important for job satisfaction of employees and managers, which will further have implications for work performance. For this reason, the organization needs to provide a system of adequate organizational support for employees and managers. The next researcher is expected to explore the various characteristics of the sample that can be assessed from various existing studies, for example differences in types of measuring instruments, cultural background, age, and tenure.

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ORGANIZATIONAL SUPPORT AND JOB SATISFACTION: META-ANALYSIS STUDY-2

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PAGE 1	
PAGE 2	
PAGE 3	
PAGE 4	
PAGE 5	
PAGE 6	
PAGE 7	
PAGE 8	
PAGE 9	
PAGE 10	
PAGE 11	