

ASL

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Submission date: 01-Feb-2019 02:36PM (UTC+0700)

Submission ID: 1071490380

File name: Juliarto_ASL_17.pdf (84.36K)

Word count: 3438

Character count: 18320



Evidence on the Relationship Between Cash Dividend and Earnings Quality

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This study investigated the relationship between the distribution of cash dividends and earnings quality of non-financial companies listed in Indonesia Stock Exchange. The quality of earnings was measured by using the absolute value of performance-adjusted discretionary accruals (ADA). With 300 firm-year observations over the period 2011–2013, this study found that companies that pay dividends have better earnings quality than companies that do not pay dividends. Companies that pay dividends in large amounts have better earnings quality than companies that distribute dividend in small amounts. Companies that increase the size of the dividend from the previous period have better earnings quality than the companies that do not raise the size of dividend from the previous period. In addition, this study also showed that companies that have persistent dividends have better earnings quality than the companies that do not have persistent dividend payment during the period of observation.

Keywords: Dividend-Paying Status, The Size of the Dividend, Dividend Persistence, Earnings Quality, Absolute Value of Performance-Adjusted Discretionary Accruals (ADA).

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1. INTRODUCTION

Earnings are important indicator of a company's profitability and can be used to estimate the potential profit in the future.¹ Bellovary et al.² defines the quality of earnings as earnings ability to reflect actual company's profit and predict future earnings, taking into account the stability and persistence of earnings.

Earnings quality will help decision makers to make the right decision. It will lead to the effective resources allocation that in turn will create productivity, innovation, and the establishment of healthy and liquidity in capital markets.³ The quality of earnings in this study is focused on the quality of accrual as proposed by Ref. [4] that uses absolute value of performance-adjusted discretionary accrual (ADA). This measurement can capture the intention of management to manipulate earnings and indicate whether reported earnings reflect the company's actual earnings.⁵

One attraction for investor in the capital market is distribution of dividend offered by issuer. Due to the management freedom to not distribute the entire profit of companies in the form of dividends, the dividend distribution is considered to have information content.⁶

Sirait and Siregar⁵ conducted a study on the relationship between dividend payment and earnings quality in Indonesia Stock Exchange. Their study used similar model with Ref. [7] that conducted in Singapore. The quality of earnings in both studies was focused on the accruals models from Ref. [4]. Both

studies concluded that there is a positive relationship between the distribution of dividends, the increase in dividends from the previous period, the persistence of the distribution of dividends and earnings quality. However, there are still inconsistencies in the results on whether the size of the dividend affects the earnings quality. Meanwhile, Tong and Miao⁷ found a positive relationship between the size of the dividend and the quality of earnings. Whereas⁵ revealed that the large size of the dividend is not an indicator of earnings quality.

This study tries to analyze the relationship between cash dividends and earnings quality in emerging economy as in Indonesia. There are still inconsistency results between Refs. [5, 7] regarding the relationship between cash dividend and earnings quality. This study extends the research sample of Ref. [5] by using sample of non-financial companies listed on the Indonesian Stock Exchange (IDX) for period 2011–2013. This study is important given that rapid growth of Indonesian capital market in the last five years 2009–2013. There was an increase of 13.3% of the companies listed on the IDX during that period.

2. THEORETICAL FRAMEWORK AND HYPOTHESIS DEVELOPMENT

2.1. Dividend Payment and Earnings Quality

Tong and Miao⁷ revealed that there are two underlying reasons that the dividend is an indication of good earnings quality. First, it is too difficult for management to distribute cash dividends if

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profits generated by the company do not reflect the actual performance of the company. Second, the distribution of dividend shows the possibility of management to obtain external funding. It will increase the oversight of corporate performance by bank stock exchanges and fund providers resulting better earnings quality than companies that do not pay dividends.

The dividend has information content about the quality of earnings as proposed by Ref. [8], which become the basic foundation of the creation of the *dividend signaling theory*, where the research has found empirical evidence that in a state of lack of information owned by the investor, the dividend can be one tool which can be used to reflect the company's performance and the quality of the resulting profits.

The company's ability to pay dividends is strongly influenced by the availability of cash in the company. Breeden⁹ stated that the significant difference between the levels of earnings reported by cash availability indicates problems or fraud that resulted in the company generated earnings quality is questionable. The dividend will encourage companies not to manipulate earnings in the reporting, resulting in actual cash flow.¹⁰ This is supported by Ref. [11] found that companies conducting financial reporting fraud as indicated by SEC are rarely or not to distribute dividends. Based on these arguments, it leads to the following hypothesis:

H1: Companies that pay dividends have better earnings quality than companies that do not pay dividends.

2.2. The Size of Dividend and Earnings Quality

According to Ref. [7] Tong and Miao⁷ distribution of dividend in large amount indicates higher earnings quality than dividend income in a small amount. Large dividend payment will require the company to have strong cash flow as well. Companies that pay dividends in large amount are supported by large cash flows availability. Large cash flows sourced a small chance of profit is manipulated. In addition, large amounts of dividend will attract more external parties to invest in the company. It results in more parties to oversee the company's performance and monitor managers in reporting profits. Increasing oversight by external parties, in turn will improve quality of reported earnings. Farinha and Moreira¹² also documented that companies with high earnings quality tend to pay dividends in large amount. Hence:

H2: Companies that pay dividends in large amount have better earnings quality than the companies pay small dividend.

2.3. Increasing Dividend Payment and Earnings Quality

Caskey and Hanlon¹¹ suggested that the company raised its dividend has better earnings quality than earnings quality of company without increasing dividend payment. To be able to increase the dividend takes the trust of management to be able to maintain the dividend level; it is of course supported by a strong cash flow. Lintner¹³ argued that the management will not raise the dividend to a level that cannot be maintained. If the management decided to reduce the size of the dividend it would give a bad signal to the market. Manipulated earnings have not a strong cash base and cast doubt regarding continuity. Based on the arguments above, hence:

H3: Companies that increase the size of the dividends have better earnings quality than companies that do not increase the size of the dividends.

2.4. Persistency of Dividend and Earnings Quality

Tong and Miao^{5,7} found that the company persistently distribute dividend associated with good earnings quality. This is because the company has a strong cash flow to support persistent dividends distribution. Strong cash flow is not result from manipulated earnings and it reflects earnings quality.^{5,7} Based on those arguments above, it leads to the following hypothesis:

H4: Companies that persistently pay dividends have better earnings quality than companies that do not persistently pay dividends.

3. METHODOLOGY

Sample of this study was the non-financial companies listed on the Indonesia Stock Exchange during the period 2011–2013 with certain criteria. The criteria were as follows: company has been listed since 2011, has positive equity, and has financial statement ended on 31 December. Data were obtained from company annual report accessed through IDX website.

The dependent variable in this study was the quality of earnings. Earnings quality is proxied by using Absolute Value of Performance-Adjusted Discretionary Accrual (ADA) as suggested by Ref. [4]. The smaller the value of ADA indicates the lower discretionary accruals. It means less part of earnings that can be manipulated by management. ADA derived from the difference between total accruals (TACC) is fitted value of TACC from the results of the regression equation.

The independent variables in this study were the status of dividend distribution (DIV), the size of the dividend (BIGDIV and SMALLDIV). The increase in the dividend distribution (DIV_CHANGE), and persistence of dividend distribution (PDIV). These variables are proxied by using dummy variables.

Status dividend distribution is coded 1 if the company distributed dividends in year t , and 0 otherwise.⁷ As for the size of the dividend, this study used two variables, namely BIG_DIV and SMALL_DIV. BIG_DIV is coded 1 if the company distributes cash dividends in large amount and 0 otherwise. Dividends were categorized as large if the *payout ratio* exceeds 0.25 but not more than 2. SMALL_DIV is coded 1 if the *payout ratio* more than 0 but not more than 0.25 and 0 otherwise.⁷

The increase in the dividend distribution is coded 1 if the company distributes dividend greater than the previous period and 0 otherwise. If company does not distribute dividends in previous period and distribute dividends in the next period is considered as an increase of the dividend distribution.⁷ Persistence of dividend distribution is coded 1 if the company distributed dividends respectively during the observation period of 3 years, and 0 otherwise.⁷ There are six control variables in this study, namely: the size of the firm, external growth prospects, the prospects for internal growth, the performance of the firm, firm age, and leverage.

To test the hypothesis of this study used four different regression models as follows:

Regression models Model 1: to test the Hypothesis 1

$$\begin{aligned} ADA_{i,t} = & \alpha_0 + \alpha_1 DIV_{i,t} + \alpha_2 SIZE_{i,t} + \alpha_3 BTM_{i,t} \\ & + \alpha_4 GROWTH_{i,t} + \alpha_5 LOSS_{i,t} + \alpha_6 AGE_{i,t} \\ & + \alpha_7 LEV_{i,t} + \varepsilon_{i,t} \end{aligned} \quad (1)$$

Regression Model Model 2: to test the Hypothesis 2

$$ADA_{i,t} = \alpha_0 + \alpha_1 BIG_DIV_{i,t} + \alpha_2 SMALL_DIV_{i,t} + \alpha_3 SIZE_{i,t} + \alpha_4 BTM_{i,t} + \alpha_5 GROWTH_{i,t} + \alpha_6 LOSS_{i,t} + \alpha_7 AGE_{i,t} + \alpha_8 LEV_{i,t} + \varepsilon_{i,t} \quad (2)$$

Regression Model 3: to test the Hypothesis 3

$$ADA_{i,t} = \alpha_0 + \alpha_1 DIV_CHANGE_{i,t} + \alpha_2 SIZE_{i,t} + \alpha_3 BTM_{i,t} + \alpha_4 GROWTH_{i,t} + \alpha_5 LOSS_{i,t} + \alpha_6 AGE_{i,t} + \alpha_7 LEV_{i,t} + \varepsilon_{i,t} \quad (3)$$

Regression model 4: to test the Hypothesis 4

$$ADA_{i,t} = \alpha_0 + \alpha_1 PDIV_{i,t} + \alpha_2 SIZE_{i,t} + \alpha_3 BTM_{i,t} + \alpha_4 GROWTH_{i,t} + \alpha_5 LOSS_{i,t} + \alpha_6 AGE_{i,t} + \alpha_7 LEV_{i,t} + \varepsilon_{i,t} \quad (4)$$

Where: α_0 = Constant, $\alpha_{1,2,\dots,9}$ = Coefficients, $\varepsilon_{i,t}$ = Residual terms, $ADA_{i,t}$ = Earnings quality, $DIV_{i,t}$ = Status of dividend distribution, $BIGdiv_{i,t}$ = Large dividends broad categories, $SMALLdiv_{i,t}$ = Small dividends small category, $DIV_CHANGE_{i,t}$ = The increase in the size of the dividend, $PDIV_{i,t}$ = Persistence of dividend payment, $SIZE_{i,t}$ = Size of the company, $BTM_{i,t}$ = External growth prospects, $GROWTH_{i,t}$ = Internal growth prospects, $LOSS_{i,t}$ = Company performance, $AGE_{i,t}$ = Company age, $LEV_{i,t}$ = Debt structure.

4. RESULTS AND DISCUSSION

This study used non-financial companies listed on the Stock Exchange in 2011–2013. Of the 404 companies listed on the Indonesia Stock Exchange, there were 100 firms per year that met the criteria to be analyzed representing 300 observations over the period 2011–2013. The 100 companies were divided into eight sub-industry classification by IDX consisting: agriculture 5%; mining 10%; basic industry and chemicals 17%, miscellaneous industry 10%; consumer goods industry 10%; property, real estate and building construction 16%; infrastructure, utilities, and transportation 8%; trade, services and investment 24%. Of 300 data, 69% observations indicate cash dividend distribution and 63% observations distribute dividend with large amount. However, only 41% observations reveal dividend increasing and 46% indicating persistent dividend distribution.

Table I presents descriptive statistics of 300 firm-year observations for this study. This table shows that earnings quality (ADA) has the lowest 0.000 and the highest value of 1.929. The lower value of ADA indicated the higher quality of earnings. Moreover,

Table I. Descriptive statistics.

	Min	Max	Mean	Stdev
ADA	0.000	1.929	0.108	0.146
SIZE	24.499	32.997	28.606	1.779
BTM	0.000	54.194	1.203	4.086
GROWTH	-8.802	8.327	-0.551	1.557
AGE	25.650	6.078	4.958	0.732
LEV	0.028	26.101	1.197	2.675

this table also reveals standard deviation of 0.146 and average value of 0.108.

As for control variables, Table I shows the average value of firm size is 28.606 and average value of external growth is 1.23. Sample of this study also have average of 6.078 year listed on the Indonesia Stock Exchange.

Results of regression analysis of four models are presented in Table II. As can be seen in the table (Model 1), there is a negative coefficient of DIV (-0.354) and significant at 0.05 meaning a negative relationship between the status of the dividends distribution (DIV) and ADA. Companies that pay dividends would have little value of ADA. The smaller value of ADA the better the quality of earnings. Thus, the first hypothesis is accepted. Table II also reports that the negative values of BIGdiv (-0.389) and SMALLdiv (-0.262) in Model 2. But the only BIGdiv has statistically significant value. It means that a negative relationship between the size of the dividend and ADA. Since BIGdiv has a significant and higher coefficient than SMALLdiv, it could be concluded that the company distributed dividends in large amount had better earnings quality than the company making the distribution in small amount. These findings support the second hypothesis.

As can be seen in Table II (Model 3), DIV_CHANGE has a negative coefficient (-0.247) and significant at 0.05 level. Hence, the third hypothesis is accepted. It could be concluded that companies that increase the size of the dividend had better earnings quality than companies that did not increase the size of the dividends. The relationship between dividend persistence and earnings quality is also presented in Table II (Model 4).

This table documents the coefficient of PDIV amounted to -0.850 and significant at 0.01 level. Since the result has a negative direction as predicted, so the fourth hypothesis is accepted. It means that the companies making persistent dividend distribution have better earnings quality than companies that do not persistently distribute dividends. As for control variables, company size consistently has significant influence on ADA in three models. Internal growth only has highly significant influence on ADA in Model 4.

Aforementioned results were consistent with results of previous studies conducted. Tong and Miao⁷ argued that the dividend is able to be an indicator to assess the quality of earnings. Companies that pay dividends were required to have a strong cash

Table II. Regression results.

Variable	Model 1	Model 2	Model 3	Model 4
(Constant)	2.622**	2.447**	3.202***	-0.256
DIV	-0.354**			
BIGdiv		-0.389**		
SMALLdiv		-0.262		
DIV_CHANGE			-0.247**	
PDIV				-0.850***
SIZE	-0.087**	-0.082**	-0.109***	0.025
LOSS	0.417	0.434*	0.517**	0.103
AGE	0.019	0.024	-0.107	0.056
BTM	-0.103	-0.103	-0.031	0.000
Growth	0.053	0.057	0.039	0.239**
LEV	0.106	0.103	0.124	0.059
F	5.187***	4.512***	5.023***	4.832***
Adj. R ²	0.111	0.086	0.086	0.213

Notes: *, **, *** significant at 0.10, 0.05, and 0.01 levels, respectively. Dependent variable: ADA.

flow. Strong cash flow was not generated from manipulation of reported earnings. Moreover, the dividend distribution showed management's desire to obtain external funding. This would cause the company's activities to be oversight by external parties. Consequently, it would encourage management to enhance the quality of reported earnings.

Findings of this study also documented that company distributed dividends in large amount have better earnings quality than the company making the dividend distribution in small amount. Tong and Miao⁷ argues that company making the dividend distribution in large amounts are required to have a very strong cash flow.^{7,12}

Increasing the size of the dividend is also a signal of better earnings quality. Results were consistent with results of previous studies conducted.^{5,7,12} To be able to increase the size of dividend, management had to be able to maintain the dividend level. It is, of course, supported by a strong cash flow. Management will not raise the dividend to a level that cannot be maintained. Given that reducing the size of future dividend will give a bad signal to the market.

Based on empirical finding, companies that are able to maintain persistent dividends have better earnings quality. These were consistent with results of previous studies that were conducted by Refs. [5, 7, 14]. Company with persistent dividends certainly has a strong and persistent cash flow to support of dividend distribution. This condition is not resulted from manipulated earnings.

5. CONCLUSIONS

This study aims to seek evidence about the relationships between dividend distribution and earnings quality. Quality of earnings is measured by using ADA (Absolute Value of Performance Adjusted Discretionary Accruals) as suggested by Ref. [5]. Sample consists of non-financial companies listed on the Indonesia Stock Exchange during 2011–2013. Results of this study document that dividends paying companies have better earnings quality than companies that do not pay dividends. Large amounts of

dividend distribution represent better firm's earnings quality than small amounts of dividend distribution. Companies that increase the amount of the dividend from the previous period have better earnings quality than the company that does not rise the amount of dividend from the previous period. This study also shows that companies that have persistent dividends have better earnings quality than the company that do not have persistent dividend payment during the period of observation. Overall, dividend provides information regarding earnings quality.

Amongst the limitations of this study are short period of study, focusing on non-financial firms, and only using accrual measure of earnings quality. Future study can use other measure of earnings quality and conduct in other emerging economies to obtain broader insights of earnings quality.

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Received: 26 July 2016. Accepted: 2 August 2016.

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