

Investigation of Capital Market Efficiency in Indonesia

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Abstract

In the midst of a national economic growth downturn that affected the capital market as a subsystem of the economy, now Indonesia capital market industry began to look at the development of the application of the principles of sharia as an alternative investment instruments in capital markets activities in Indonesia. The growth of the Islamic capital market in Indonesia is quite encouraging, but the Islamic capital market exposure is still minimal. Lack of public understanding about the Islamic capital market into doubt for investors to invest in the capital market. With the background of the problem, this research aims to investigate the level of efficiency increase of capital markets in Indonesia to see the influence of the capital market and the asymmetry of information on abnormal return. The population in this study are all listed company listed on the Stock Exchange 2014-2018 period as many as 626 companies with a total sample of 238 companies were selected based on criteria predetermined. The analytical method used in this research is multiple linear regression and the results showed that the type of capital markets significant negative effect on abnormal returns and the information asymmetry significant positive effect on abnormal returns. The continued development of the Islamic capital market information asymmetry and abnormal returns are also lower so the efficiency of the capital market has also increased. The analytical method used in this research is multiple linear regression and the results showed that the type of capital markets significant negative effect on abnormal returns and the information asymmetry significant positive effect on abnormal returns. The continued development of the Islamic capital market information asymmetry and abnormal returns are also lower so the efficiency of the capital market has also increased. The analytical method used in this research is multiple linear regression and the results showed that the type of capital markets significant negative effect on abnormal returns and the information asymmetry significant positive effect on abnormal returns. The continued development of the Islamic capital market information asymmetry and abnormal returns are also lower so the efficiency of the capital market has also increased.

Keywords: *Abnormal Return, Principles of Islamic Shariah, The Information Asymmetry, The Type of Capital Markets*

1. Introduction

The existence of capital market in Indonesia is one of the most important factors in helping to build a strong national economy and global competitiveness with the availability of facilities and the Indonesian capital market instruments that can compete with the capital market instruments other countries. In connection with that, amid the deterioration of national economic growth rate, which also affected the capital market sector as a subsystem of national economy of Indonesia, now the Indonesian capital market industry began to look at the development of the application of the principles of Islamic Shari'a as an alternative investment instruments in capital market activities in Indonesia.

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Research conducted by Ngo & Wijayanti (2003) concluded that that invest in Islamic stocks more profitable than investing in shares of non-Islamic. Ocean et al (2016) concluded that the Islamic stock index in the Indonesia Stock Exchange is an efficient capital market in the form of a strong half. Research conducted by Khajar (2012) found that the Indonesian Islamic capital market is efficient at least in the form of weak. Study conducted by Nasution (2015) showed that the Islamic capital market has been in a semi-strong efficient.

Research on the conventional capital market conducted by Mar'ati (2012) concluded that that the Indonesian capital market efficiency theory for semi-strong form (semi-strong form) has been efficient. Dwipayana & Wiksuana (2017) concluded that the Indonesia Stock Exchange, represented by compass 100 index is expressed in a semi-strong efficient in information (informationnaly efficient market).

Research on the comparative efficiency of Islamic capital markets and capital markets conventionally performed by Ali et al. (2018) using MF-DFA analysis concludes that the Islamic capital market is more efficient than the conventional capital market. Research Mensi et al (2016) on the efficiency of the Islamic capital market after the GFC using MF-DFA analysis shows that the Islamic capital market more efficient in the long run than in the short term.

Despite the growth of the Islamic capital market is quite encouraging, but the Islamic capital market exposure is still minimal. Lack of public understanding about the Islamic capital market into doubt for investors to invest in the capital market. This is because the practice of activity in the capital market that contain the element of speculation. Therefore, requires knowledge of the Islamic capital market, both of concepts and principles, as well as trade mechanisms. With the background of the problem, This study aimed to investigate the level of efficiency increase of capital markets in Indonesia to see the influence of the capital market and the asymmetry of information on abnormal return Based on the data that has been analyzed, the type of capital markets significant negative effect on abnormal returns and the information asymmetry significant positive effect on abnormal returns. This suggests that the development of the Islamic capital market information asymmetry and the lower abnormal returns so that the efficiency of the capital market has also increased.

Furthermore, the explanation in this article will be divided into three parts, the first is a literature review that will explain any theory used in this study and previous research that referenced researcher. The second part is the results and discussion will explain the results of research and discussion of results have been found. Then, the third part is the conclusion that a more concise outline of the research study.

2. Literature Study/Hypothesis Development

Information Asymmetry Theory

This theory says that the parties associated with the company do not have the same information about the prospects and risks of the company. Certain parties have more information than others. This theory consists of theories:

1. Myers and Majluf

According to this theory there is information asymmetry between managers and outsiders. The manager has more complete information about the condition of the company than outsiders.

2. Signaling

Signaling develops a model in which the capital structure (the use of debt) is a signal delivered by managers to the market. If the manager has confidence that the company's prospects are good, and therefore wants the shares to increase, he wants to communicate this to investors. Managers can use more debt as a more credible signal.

Islamic Capital Market Concept

The principles of Islamic capital market instruments differ from conventional capital markets. Shares traded on the Islamic capital market must come from issuers that meet the Islamic criteria

The Sharia capital market must be free from unethical and moral transactions, such as insider trading and short selling. Therefore, the Islamic capital market must throw away any transactions that contain elements of speculation. This is what distinguishes it from conventional capital markets which is one way to get its benefits by using speculation. (Sholahuddin, 2006).

Effect of Capital Market Types on Abnormal Returns

The concept of an efficient market places more emphasis on aspects of information where the price of traded securities has reflected all available information (Tandelilin, 2010). Based on this concept, efficient markets are always associated with the availability of information which means there is no asymmetric information among stakeholders.

According to the asymmetry theory, there is an imbalance of information between stakeholders relating to the prospects and risks of companies where certain parties have better information than outside parties (Hanafi, 2014). More information that is owned by the manager can trigger to take actions in accordance with the wishes and interests to maximize the utility for himself.

Conceptually, the Islamic capital market is designed to reduce asymmetric information. This is supported by Sutedi's research (2011) which states that the existence of Islamic capital market rules aims to minimize and even eliminate speculation in stock trading, where in conventional capital markets speculation is a very difficult situation to separate. In accordance with the concept, the Islamic capital market should be more efficient compared to conventional capital markets. The efficiency referred to here means that no investor can get an abnormal return in stock trading. Based on the description above, the research hypothesis can be formulated as follows.

H1: Suspected type of capital market affects abnormal returns.

Effect of Information Asymmetry on Abnormal Return

An efficient capital market is needed to eliminate speculative actions because all information is the basis of investors in making investment decisions. The impact of an efficient market is that no investor can control the market. With the efficiency of the capital market, it means that no one can get an abnormal return. In addition, if the market is efficient, there is no asymmetric information. Information asymmetry is a condition where there is an imbalance of information between management and shareholders (Irfan, 2002).

According to Jogiyanto (2013) information asymmetry is private information that is only owned by investors who have information (informed investors). Information asymmetry indicates that there is a group of investors who have more information about an event that allows investors to get abnormal returns. The higher the information asymmetry, the higher the likelihood that investors will get an abnormal return which results in an inefficient market.

H2: Alleged information asymmetry affects abnormal returns.

3. Research Methods

The population in this study are all listed company listed on the Stock Exchange 2014-2018 period as many as 626 companies. The sampling technique that has been chosen is purposive sampling method with a total sample of 238. The analysis method used in this research is multiple linear regression

Data used in this research is secondary data. Secondary data sources in this study was obtained from the Indonesia Stock Exchange through the site www.idx.co.id, www.investing.com and www.yahoofinance.com,

Operational Definition and Measurement of Variables
Abnormal Return

According Husnan (2009) abnormal return is the difference between the actual profit rate to the level of the expected profit. According Jogiyanto (2013) return is not normal (abnormal return) is the difference between actual returns that occurred with the return expectations. The formula to calculate the abnormal return by Jogiyanto (2013), namely:

$$RTNi, t = Ri, t - E [Ri, t] \tag{1}$$

Type Capital Markets

Type capital market is divided into two, namely the Islamic capital market and conventional capital markets. General differences between conventional capital market with the Islamic capital market can be seen in the instruments and mechanisms of the transaction, while the Islamic stock index value difference with conventional stock index value lies in the issuer's shares of criteria that must meet the fundamental principles of sharia.

In this study, the Islamic capital market rated 1 and the conventional capital market by value 0.

Asymmetry of Information

Asymmetry of information is a condition where there is an imbalance between the management information acquisition as a provider of information to the shareholders and *stakeholders* as the user information (Irfan, 2002).

Asymmetry information can be measured by using the bid ask spread. Bid ask spread can be measured by the following formula:

$$SPREADi, t = \frac{(ask_{i,t} - bid_{i,t})}{\{(ask_{i,t} + bid_{i,t})/2\}} \times 100 \tag{2}$$

4. Results

Descriptive Statistics Analysis

A description of the variables of this study are presented in Table descriptive statistics which show the minimum, maximum, mean, and standard deviation can be seen in this betikut table.

Table 1 Descriptive Statistics Test Results ISSI VS JCI
descriptive Statistics

	N	Minimum	Maximum	mean	Std. deviation
Type Capital Markets	276 891	0	1	.96	.195
Information asymmetry	276 891	.000	39 316	3.41609	3.269144
abnormal Return	276 891	-3131	3,843	-.05229	.965581

Source: Data processed (2019)

Table 2 Test Results Descriptive Statistics JII VS LQ45
descriptive Statistics

	N	Minimum	Maximum	mean	Std. deviation
type capital market	42 596	0	1	.38	.484
Information asymmetry	42 596	.132	27 435	2.72883	1.665304
abnormal Return	42 596	-9270	15 364	.00748	2.915783

Source: Data processed (2019)

Classical Assumption Test Results

Normality test

The test results normality of the data in this study can be seen in Table 3 and 4 below.

**Table 3 Normality Test Results ISSI VS JCI
One-Sample Kolmogorov-Smirnov Test**

		Residual unstandardized
N		276 891
Normal Parameters ^{a, b}	Mean	.0000000
	Std. Deviation	.76003491
Most Extreme Differences	Absolute	.406
	Positive	.040
	Negative	-.046
Kolmogorov-Smirnov Z		.046
Asymp. Sig. (2-tailed)		.063C

a. Test distribution is Normal.

b. Calculated from data.

Source: Data processed (2019)

**Table 4 Normality Test Results JII VS LQ45
One-Sample Kolmogorov-Smirnov Test**

		Residual unstandardized
N		42 596
Normal Parameters ^{a, b}	Mean	.0000000
	Std. Deviation	2.18187630
Most Extreme Differences	Absolute	.105
	Positive	.086
	Negative	-.105
Kolmogorov-Smirnov Z		.105
Asymp. Sig. (2-tailed)		.072C

a. Test distribution is Normal.

b. Calculated from data.

Source: Data processed (2019)

Based on the tables 3 and 4 above shows the value Asimp. Sig. Using data ISSI JCI VS $0.063 > 0.05$. Furthermore, using the data JII LQ45 VS $0.072 > 0.05$. These results indicate that the regression model to meet the normal assumptions.

Test Multicollinearity

The test results multicollinearity in this study are presented in Table 5 and 6 below.

**Table 5 Test Results Multicollinearity ISSI VS JCI
Coefficients**

Model	collinearity Statistics	
	Tolerance	VIF
(Constant)		
Type Capital Markets	.992	1,008
Information asymmetry	.992	1,008

a. Dependent Variable: Abnormal_Return

Source: Data processed (2019)

Table 6 Test Results Multicollinearity ISSI VS JCI

Model	Collinearity Statistics	
	Tolerance	VIF
(Constant)		
Type Capital Markets	.999	1,001
Information asymmetry	.999	1,001

a. Dependent Variable: Abnormal_Return
Source: Data processed (2019)

Based on the results in Table 5 and 6 above can be seen that the four variables independent have tolerance values > 0.10 and $VIF < 10$, so that it can be concluded that the regression model is free of multicollinearity.

Test Heteroskedasticity

Heteroskedasticity testing results in this study are presented in Table 7 and 8 below.

Table 7 Test Results Heteroskedasticity ISSI VS JCI

Model	T	Sig.
(Constant)		
Type Capital Markets	.231	.641
Information asymmetry	.759	.789

a. Dependent Variable: Res_2
Source: Data processed (2019)

According to the table 7 can be seen that the Sig. for variable types of capital market amounted to $0,641 > 0,05$ and the information asymmetry $0.789 > 0.05$, so it can not happen heteroskedasticity concluded in this study.

Table 8 Test Results heteroskedasticity JII VS LQ45

Model	T	Sig.
(Constant)		
Type Capital Markets	-.324	.774
Information asymmetry	.652	.889

a. Dependent Variable: Res_2
Source: Data processed (2019)

Based on table 8 above it can be seen that the Sig. for variable types of capital market amounted to $0.774 > 0.05$ and the information asymmetry $0.889 > 0.05$, so it can not happen heteroskedasticity concluded in this study.

Autocorrelation Test

Autocorrelation test results of this research can be seen in table 9 and 10 below:

Table 9 Test Results autocorrelation ISSI VS JCI
Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.617a	.380	.380	.760038	.366

- a. Predictors: (Constant), Asimetri_Informasi, Jenis_Pasar_Modal
 b. Dependent Variable: Abnormal_Return

Source: Data processed (2019)

According to the table 9 the value of Durbin Watson (DW) produced a regression model that is equal to 0.366 while for the table DW with sampel N = 276 891 and a variable independennya (k) = 2 values obtained dL = 0.181 and dU = 0.223. Thus $dU < DW < 4-dU = 0.223 < 0.366 < 3.777$, it can be concluded in this study there is no positive or negative autocorrelation.

Table 10 Test Results Autocorrelation JII VS LQ45
Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.663a	.440	.440	2.181928	0404

- a. Predictors: (Constant), Asimetri_Informasi, Jenis_Pasar_Modal
 b. Dependent Variable: Abnormal_Return

Source: Data processed (2019)

According to the table above can be seen 10 Durbin Watson value of 0.404. As for the value DW table with sampel N = 42 596 and variable independennya (k) = 2 values obtained dL = 0.336 and dU = 0.378. Thus $dU < DW < 4-Du = 0.378 < 0.404 < 3.596$, it can be concluded in this study there is no positive or negative autocorrelation.

Test The coefficient of determination (R2 Test)

Test Results The coefficient of determination can be seen in table 11 below.

Table 11 Test Results The coefficient of determination (R2) ISSI VS JCI
Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.617a	.380	.380	.760038	.366

- a. Predictors: (Constant), Asimetri_Informasi, Jenis_Pasar_Modal
 b. Dependent Variable: Abnormal_Return

Source: Data processed (2019)

Based on the test results of the coefficient of determination ISSI VS JCI in the table above, the value of R square in the regression model obtained at 0.380. This shows that the influence of the independent variables and the type of capital market information asymmetry to the dependent variable abnormal return can be explained by this equation at 38% while 62% are influenced by other factors not included in this regression model.

Furthermore, the value of R square using VS JII LQ45 index data can be seen in Table 12 below:

**Table 12 Test Results The Coefficient of Determination (R²) VS JII LQ45
Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.663a	.440	.440	2.181928	.404

a. Predictors: (Constant), Asimetri_Informasi, Jenis_Pasar_Modal

b. Dependent Variable: Abnormal_Return

Source: Data processed, (2019)

Based on the test results of the coefficient of determination JII VS LQ45 in the table above, the value of R square in the regression model obtained at 0.440. This shows that the influence of the independent variables and the type of capital market information asymmetry to the dependent variable abnormal return can be explained by this equation by 44%, while 56% are influenced by other factors not included in this regression model.

Simultaneous Effect Test (F Test)

**Table 13 Test F Results ISSI VS JCI
ANOVAa**

Model		F	Sig.
1	Regression	85008.125	.000b
	Residual		
	Total		

Source: Data processed (2019)

**Table 14 Test F Results JII VS LQ45
ANOVAa**

Model		F	Sig.
1	Regression	16736.308	.000b
	Residual		
	Total		

Source: Data processed (2019)

From the above table F test both JCI and JII ISSI VS VS LQ45 known that the variable types of capital market and asymmetry informasi have a significance value of 0.000. With a degree of confidence of 95% or 5% significance level, it can be seen that the value of the significance of 0000 is less than the alpha value of 0:05. Thus it is known that the independent variables jointly significant effect on the dependent variable.

Partial test (t test)

**Table 15 Test Results t ISSI VS JCI
Coefficients**

Model		T	Sig.
1	(Constant)	-55 449	.000
	Type Capital Markets	-38 203	.000
	Information asymmetry	412 328	.000

a. Dependent Variable: Abnormal Return

Source: Data processed (2019)

Table 16 Test Results t JII VS LQ45

Coefficients		
Model	T	Sig.
(Constant)	-143 821	.000
Type Capital Markets	-5158	.000
Information asymmetry	182 955	.000

a. Dependent Variable: Abnormal Return

Source: Data processed (2019)

5. Discussion

Effect of Capital Markets type to Abnormal Return

Well known significance values using ISSI Data JCI and JII VS VS LQ45 \$ 0.00. 0.000 significance value <0.05 then H1 is accepted, so that it can be concluded that the type of capital markets significant negative effect on abnormal returns.

The statistical results of research using data ISSI VS CSPI index shows that the type of capital markets significant negative effect on abnormal returns. The negative sign means that the development of the Islamic capital market abnormal return will be lower. In accordance with the Islamic capital market concept which states that the Islamic capital market is made to reduce the asymmetry of information which the shares traded should come from companies engaged in sectors that meet the criteria of sharia and free from elements of usury, as well as stock transactions carried out by avoiding speculation practices.

True Islamic capital market must be free of transactions that are unethical and immoral, such as insider trading and short selling. Therefore, the Islamic capital market should throw away any transaction that contains elements of speculation. This is what distinguishes it from conventional capital market which is one way to get the benefits by using speculation. Although it acknowledged, in certain cases such as insider trading and market manipulation by making false statements prohibited in conventional capital markets (Sholahuddin, 2006).

The results are consistent with research conducted by Khajar (2012) also said that the Indonesian Sharia capital market is efficient in the weak form. Furthermore Ocean et al (2016) concluded that the Islamic stock index in the Indonesia Stock Exchange is an efficient capital market in the form of a strong half.

Results of research conducted outside Indonesia also supports that such research Ali et al (2018) and Mensi et al (2016) which states that the Islamic capital market more efficient compared with the capital markets conventional.

Further visits are specifically using the index data with the best performance are JII VS LQ45 also so that that kind of capital markets negatively affect the abnormal return. This suggests that the development of the Islamic capital market abnormal return will be lower. This is supported by research Sutedi (2011) which stated that with the rules of the Islamic capital market aims to minimize or eliminate speculation in stock trading, where the conventional capital market speculation is very difficult to separate state. With these rules then the investor the opportunity to earn abnormal returns are also lower.

If conventional and sharia capital markets are applied together in Indonesia and other countries, it can increase capital market growth due to various choices that can be chosen by investors. If investors do not want their funds mixed with ribawi funds,

investors can invest their capital in the Islamic capital market and conversely investors who do not want to invest in the Islamic capital market can invest in conventional capital markets. Different if in a country only applies one of the types of capital markets (conventional or sharia), then there is no choice for investors, thereby reducing the interest of investors to invest in the capital market. This will have an impact on the decline in capital market growth in Indonesia and other countries.

Effect of Information Asymmetry on Abnormal Return

Well known significance values using ISSI Data JCI and JII VS VS LQ45 \$ 0.00. 0.000 significance value <0.05 then H1 is accepted, so that it can be concluded that the information asymmetry significant negative effect on abnormal returns.

The statistical results of research using data ISSI VS JCI showed that the asymmetry of information is positive and significant effect on the abnormal return. The positive sign means that the higher the information asymmetry abnormal returns will also be higher, conversely the lower the information asymmetry abnormal returns will also be lower.

Asymmetry theory says that the parties associated with the company does not have the same information about the company's prospects and risks. Certain parties have better information than the other party. Managers usually have better information than with outsiders (investors) because it can be said the case of information asymmetry between managers and investors.

More information is owned by the manager may trigger to perform actions in accordance with the wishes and interests of maximizing utility for himself. As for the owners of capital in this case the investor would be difficult to effectively control the actions taken by management because it has little information exists.

Managers as a manager of the company more aware of internal information and the company's prospects in the future compared to the owners (shareholders). Therefore, as a manager, the manager is obliged to give a signal about the state of the company to the owner. A given signal can be done through the disclosure of accounting information such as financial reports.

This study was supported by research Wardani et al (2016) which states that the information asymmetry significant positive effect on stock returns. Further research Yassin et al (2015) stated that the information asymmetry significant positive effect on stock returns. Other studies are Clinch and Lombardi (2011) states that the higher the information asymmetry abnormal returns are also higher.

The same results were obtained from the data more specific indices that use stock index with the best performance are JII VS LQ45 which states that the information asymmetry significant positive effect on *abnormal return*, Which means that the higher the information asymmetry abnormal returns will also be higher. Interestingly, with the growing development of the Islamic capital market information asymmetry will also be reduced due to the Islamic capital market is not allowed to practice speculation. With these rules then the asymmetry of information is also getting lower and cause the abnormal return is lower as well. The lower abnormal returns, the market is also more efficient.

6. Conclusion

Type capital markets significant negative effect on abnormal returns and information asymmetry significant positive effect on abnormal returns.

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