The Effect of Money Supply, Exchange Rate, and Interest Spread toward the Performance of Stock Market in Malaysia

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Abstract — The stock market has become a significant role in the economy and has attracted investor’s attention, as it is to generate funds and make an investment decision for companies and investors as well. Therefore, the objective of this study is to study the effect of the money supply, exchange rate, interest spread and stock market in the short and long run and volatility issue. The study employed monthly data, from January 1997 to August 2018. Method analysis is the Autoregressive distributed lag (ARDL) and GARCH model. The findings stated that the money supply, real effective exchange rate, interest spread, had a long-run effect on the performance of the stock market. Money supply and the real effective exchange rate had a positive effect on the stock market performance in the short run. Conversely, the interest spread showed a negative influence on the stock market performance in the short run. The volatility indicated a high persistence between the money supply, real effective exchange rate, interest spread and stock market (KLCI). The implication of the study is the investors or policymakers should take account the changes of interest rate and exchange rate before making stock investment or policy to stabilize the stock market performance.

Keywords: Performance, Money Supply, Real Effective Exchange Rate (REER), Interest Spread

INTRODUCTION

Stock can be defined as securities or certificates and representing investors as part of the ownership of the company purchased as an investment while the stock market is a market that includes transactions that fully promote the share of company ownership (Fontanills & Gentile, 2001). The stock market performance can represent the overall economic performance of a country. Nordin et al. (2016) state the funds provided through the stock market that can increase the efficiency of the capital market and provide investment opportunities. Specifically, investors can participate in trading activities in the capital market. The index of the stock market is to measures capital market performance. As the stock market index increases, capital market performance increases and economic activities such as investment also increase. The index of the stock market leads the economic activity as long as the movements of stock prices relate to fundamentals. Increase in investor wealth will lead them to make more investment in the stock market, and it will affect the market. The fluctuations in stock price reflected in the stock
market index. Alzaid (2016) reveals that the stock market provides the best capital resource to many companies in Malaysia. The role of the stock market is to encourage fundraising and guide funds to carry out productive economic activities.

Kuala Lumpur Composite Index (KLCI) measures the stock market in Malaysia. With the adoption of the FTSE International Index method, KLCI is the benchmark index rose to a new level. The Malaysian stock market is particularly impressive. Because its unique characteristics may affect the movement patterns of the different stock price in advanced economics or other emerging economies (Rahman et al., 2009), the stock market can affect many factors. In this study, the factors are money supply M2, exchange rate and interest spread between Malaysia and the United State.

The problem statements are the stock market index is high fluctuations especially when it occur the financial crisis. Different empirical studies have achieved excellent and uncertain outcomes with the effect of money supply, exchange rate and interest spread on stock market index. Many studies focus on an evolved nation instead of developing nation. Moreover, many researches have examined the interaction among the interest rate and the performance of stock market. However, there is a research gap of the study with the interest spread. The investigator has concentrated on the interest rate but not a spread. In this research, we focus on the spread between the two countries. Investor will compare the interest rate between two countries to make whether invest in the country.

Thus, the objective of the study is to study the relationship between the money supply, exchange rate, interest spread and stock market in the short and long run. The second objective is to determine the volatility spillover effect of money supply, exchange rate and interest spread on the Malaysia stock market. This research is important to know the effect of the money supply, exchange rate and interest spread on the stock market. It helps policymakers to forecast the investor in the stock market and also what policy should make during the financial crisis. This study can give guidance for the investor to decide on the investment in the stock market.

This study is utilized the Augmented Dickey-Fuller (ADF) & Phillips-Perron (PP) test to determine the variables stationary whether at level, first different or second different. After that, modeled the co-integration/bound test of the long run using ADRL. When the results show that exist long run relationship. The process will be carry by the Error Correction Model (ECM). ECM test to determine the speed of adjustment towards the dynamics of short run to long run equilibrium. Next, modeled the volatility of the stock market index using the ARCH and GARCH method. Lastly, modeled diagnostic checking such as Normality, Autocorrelation and Heteroscedasticity test and continued by CUSUM to determine the accuracy of the model.

This paper is composed of the following: the next section will focus on selected literature studies on the stock market index. Discussions will focus on previous studies either in Malaysia or abroad that examine the relationship between stock market and variables. The next discussion focused on the research methodology that included data sources and data analysis using the ARDL approach. Furthermore, the findings and conclusions will be discussed.

LITERATURE REVIEW

Garcia and Liu (1999) stated that the improvement of the stock market is a multidimensional idea. It typically measured through the dimensions of the stock market, liquidity, volatility, capital markets integration within the international, and a few regulations within the market. Many high-return projects require long-term capital commitments with a higher risk of default and liquidity. An investor is often afraid to take on these risks. Therefore, if there is less liquidity stock market, high return projects may reduce investment.

Moreover, the interaction between adjustment of the exchange rate and stock prices depend on the increasing domestic interest rates resulting in capital inflows and exchange rate appreciation. It suggests that exchange rate appreciation has a negative effect on stock prices for export-led industries. These industries have appreciated their currencies due to reduced exports, and the increase in imports has led to the import of leading-edge stock markets (positive impact on stock prices). Concerning the interaction between stock prices and interest rates, much study has done in developed capital markets. The outcomes of most studies exhibit that stock and bond returns are easy to predict and the other. Investors tend to transfer stocks whenever the interest rate of government bonds rises, causing stock prices to fall (Menike, 2006).

Maskay (2007) attempted to analyze the connection between the adjustment of the money supply and stock market prices by using the two-level regression model to discover the connection between M2 and stock prices in 1959 Q1 to 2006 Q3. The empirical evidence found that there is a positive correlation between the supply of money and stock prices. Mohamadpour et al. (2012) examined the link between monetary policy and the performance of the stock market in Malaysia. They applied the Vector Error Correction Model (VECM) to test the correlation among monetary supply and the stock market. They found that the long-term relationship between M1, M2 and the stock market with highly significant. Kraft and Kraft (1997) attempted to test the connection between several determinants on stock prices. They use Granger Causality test to check the link between M1 and stock price. The empirical result found that M1 and stock price are not causally related.
Also, the relationship between monetary policy and stock market prices in Nigeria has investigated by Jonathan and Oghenebrume (2017). They also use the model of error correction (ECM) to study the connection between money supply and the price of the stock market. The empirical result shows that broad money (M2) has a long-term positive interaction with stock market prices. M2 has a negative interaction with short-term stock market prices. There was once a negative connection with the money supply and the improvement of China's stock index thru negative correlation proved by Yong, 2004 (as cited in Širůček, 2012). Praphan and Subhash (2002) found that excessive inflation in Indonesia and Philippines causes the long-term negative connection between stock prices and money supply, so inflation might also have a negative influence on money supply (as noted in Boonyanam, 2014).

Similarly, Suriani et al. (2015) attempted the link between the exchange rate and the stock market. They applied ADF to verify the unit-roots or stationarity level of the data. They also used Granger causality test to check whether both variables are independent or affect each other. The empirical findings showed that there is no relevance within the exchange rate and the stock market.

Thang (2009) explores the effect of the exchange rate and interest rate toward the stock market index in Malaysia. He applied ADF, VECM and unit root test. The finding outcome was that all the variables are stationary at first difference. The interest rate and real effective exchange rate have a negative influence on the stock market index for both the long and short run. Agrawal, Srivastav and Srivastava (2010) attempted to study the movement of exchange rates and volatility of the stock market in India. The study period is using daily closing indices from October 2007 to March 2009. They applied the normality test, unit root or stationarity, ADF and Granger Causality Test. The finding outcome shows that the currency rate and stock market were non-normally distributed and were stationary at the level from itself. There was negatively associated with both the stock market and exchange rate. They found there was one way causal among the stock market and exchange rates from the former towards the latter.

There are numerous researchers had observed the interaction among interest rate and the stock market. In line with Musawa and Mwaanga (2017), explore the effect of commodity prices, interest rate and exchange price toward the stock market. They used Autoregression Distribution lag, cointegration and VECM method to tested. The empirical result showed that interest rate, exchange rate, copper as well as oil prices have the long and short-term stock market impact together. Only the interest rate and the copper price had a significant effect on the stock market over the long term.

Maysami and Koh (2000) used the VECM method to test the long-term balance interaction with both randomly chosen macroeconomic variables and stock index in Singapore, Japan and the U.S. This Study was using monthly data from 1988 to 2003. The finding that they discovered changes in stock market level of Singapore resulted in a co-integration connection with price level, money supply, short and long-term interest rate and changes in exchange rates outside manufacturing production and distribution. They found that the stock market in Singapore co-integrated significantly and positively with the stock market in the U.S. and Japan.

In this study, we want to explore the effect of the interest spread between the United States and Malaysia on the stock market. An investor decides for investment in the stock market relies on the interest rate in the domestic stock market. The interest rate may have a positive or negative influence on the stock market. However, now, the stock market has a co-integrated global country. Investors are not only depending on the interest rate in the domestic market but also global country's market. Investors can compare the interest rate between two or more countries to make their decision for investment. Interest spread is the difference in the interest rate between the United States and Malaysia. In this research, we focus on the interest spread on the stock market.

The theoretical framework illustrates that independent variables affect dependent variables. The dependent variables are Stock Market Index in Malaysia (KLCI) while the independent variables are money supply (broad money), real effective exchange rate (REER) and interest spread between the United States and Malaysia. According to Lithman (2012) stated that in the previous study, the stock prices increase as interest rates fall as the money supply increase. However, the price of bonds and stocks moved oppositely. Wangbangpo and Sharma (2002) have cited in the previous studies pointed out these exchange rates and changes have an impact on stock market performance. Ma and Kao (1990) and Mekherjee and Naka (1995) argue that exchange rate depreciation to have a positive effect on domestic stock markets for dominant export countries (as cited in Wangbangpo & Sharma, 2002). Interest spread has an impact on the stock market. Moreover, in this study, the interest spread is focused on the spread between the two countries. An investor will decide whether to be able investment depends on the interest rate. However, this study, the investor also depends on the global country's market, not only the domestic market.

RESEARCH METHODS
Source of data
The study employs a time series of data and concerns on secondary data. Stock market index (KLCI) was collected from the DataStream, which is Thomson Reuters. Real effective exchange rate and interest spread was collected from International...
Financial Statistic. Money supply was collected from the global economy. The data are reliable. These are the common sources where the most of the people get the data from. The data of all the independent variables and dependent variable was collected on a monthly from January 1997 to August 2018.

**Specification of Model**

Based on the theory, characteristics of data and the objective of the research are related. The appropriate specification model is a unit root test, and Autoregressive distributed lag (ARDL) and Error Correction Model (ECM) to measure the first objective. Autoregressive distributed lag (ARDL) measures the long-term interaction between the money supply, exchange rate and interest spread on the stock market. While ECM describes how y and x comply with a long-term co-integrating relationship in the short run. The equation of the ARDL model to approach cointegration as below:

\[
\Delta \text{LNKLCI}_t = \gamma_0 + \sum_{i=1}^{k} \gamma_i \Delta \text{LNKLCI}_{t-i} + \sum_{i=0}^{\infty} \gamma_2 \Delta \text{LNMS}_{t-i} + \sum_{i=0}^{\infty} \gamma_3 \Delta \text{LNREER}_{t-i} + \sum_{i=0}^{\infty} \gamma_4 \Delta IS_{t-i} + \delta \text{LNKLCI}_{t-1} + \delta_1 \text{LNMS}_{t-1} + \delta_2 \text{LNREER}_{t-1} + \delta_3 IS_{t-1} + \epsilon_t
\]

(1)

In the equation (1) LNKLCI-natural logarithm stock market index, LNMS-natural logarithm money supply, LNREER-natural logarithm real effective exchange rate, and IS-interest spread, \( \epsilon_t \) means that error term. After that estimate the ECM with the equation as below:

\[
\Delta \text{LNKLCI}_t = \alpha_0 + \sum_{i=1}^{k} \alpha_i \Delta \text{LNKLCI}_{t-i} + \sum_{i=0}^{\infty} \alpha_2 \Delta \text{LNMS}_{t-i} + \sum_{i=0}^{\infty} \alpha_3 \Delta \text{LNREER}_{t-i} + \sum_{i=0}^{\infty} \alpha_4 \Delta IS_{t-i} + \lambda EC_{t-1} + \epsilon_t
\]

(2)

The coefficient of \( EC_{t-1} \) should be negative for series convergence to long-term equilibrium. In addition, the size of \( EC_{t-1} \) represents the adjustment speed toward the balance. When \( EC_{t-1} \) small which tends to -1 mean that the adjustment speed is fast while \( EC_{t-1} \) is a large value which tends to 0, mean that the adjustment is slow. Besides, the appropriate specification model to measure objective 2 is using the ARCH model and GARCH Model. GARCH Model is testing the volatility spillover effect between the money supply, exchange rate and interest spread on the stock market. Before the test of the GARCH model, we will test an ARCH model first. ARCH model is used to describe a changing, possibly volatility variance. The equation as below:

\[
\sigma_t^2 = \lambda_0 + \sum_{i=1}^{q} \lambda_1 \epsilon_{t-i}^2 = \lambda_0 + \lambda_q(\beta)\epsilon_{t-1}^2
\]

(3)

The linear ARCH (q) for the conditional variance \( \sigma_t^2 \). After the test the ARCH model, then we can proceed with the GARCH model. GARCH model is developed to improve on ARCH models by including a "smoothing- averaging" to produce a substantially more parsimonious specification. The equation of the GARCH (p, q) model as below:

\[
\sigma_t^2 = \alpha_0 + \alpha_1 \epsilon_{t-1}^2 + \alpha_2 \epsilon_{t-2}^2 + \cdots + \alpha_q \epsilon_{t-q}^2 + \beta_1 \sigma_{t-1}^2 + \beta_2 \sigma_{t-2}^2 + \cdots + \beta_p \sigma_{t-p}^2
\]

(4)

Note that the coefficient \( \beta_1 \) represents the weight or impact of previous conditional variance. These have on the current conditional variance. The sum of \( \alpha_q \) and \( \beta_p \) measures the persistence of volatility.

**RESULTS AND DISCUSSION**

The data analyzing a method for this study will be started with the unit root test. After a series of periods tested with the stationary, the cointegration test was conducted using the 'autoregressive distributed lags' (ARDL) approach populatated by Pesaran et al. (2001).

<table>
<thead>
<tr>
<th>Variables</th>
<th>Intercept</th>
<th>Intercept and trend</th>
<th>Intercept</th>
<th>Intercept and trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNKLCI</td>
<td>-1.29</td>
<td>-4.80</td>
<td>-13.33</td>
<td>-13.36</td>
</tr>
<tr>
<td>LNMS</td>
<td>-1.12</td>
<td>-0.48</td>
<td>-14.58</td>
<td>-14.60**</td>
</tr>
<tr>
<td>LNREER</td>
<td>-4.44</td>
<td>-4.36</td>
<td>-13.96</td>
<td>-14.00</td>
</tr>
<tr>
<td>IS</td>
<td>-2.998*</td>
<td>-5.59</td>
<td>-4.35</td>
<td>-4.448</td>
</tr>
</tbody>
</table>

Notes: The table showed the calculated for t-statistic: *Significant at 5%.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Intercept</th>
<th>Intercept and trend</th>
<th>Intercept</th>
<th>Intercept and trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNKLCI</td>
<td>-1.22</td>
<td>-4.37</td>
<td>-13.29</td>
<td>-13.36</td>
</tr>
<tr>
<td>LNMS</td>
<td>-1.01</td>
<td>-0.78</td>
<td>-14.68</td>
<td>-14.70</td>
</tr>
<tr>
<td>LNREER</td>
<td>-3.96</td>
<td>-3.91**</td>
<td>-13.97</td>
<td>-14.01</td>
</tr>
<tr>
<td>IS</td>
<td>-2.10</td>
<td>-2.53</td>
<td>-24.66</td>
<td>-24.62</td>
</tr>
</tbody>
</table>
Based on Table 1 and Table 2, results from ADF and PP stool testing indicate that the data is still mixed between I(0) and I(1). Therefore, the ARDL modelling approach is suitable for the model.

Co-integration test
The next analysis was to determine the existence of long term cointegration relations between the stock market index (LNKLCI) and exogenous variables (LNMS, LNREER, and IS). Results in Table 3 show that statistical value F for the model is higher than the upper bound value, I(1) and this show that the cointegration exists between the variables in the model.

Table 3. Results of the cointegration test

<table>
<thead>
<tr>
<th>Variables</th>
<th>ARDL (2,2,1,2)</th>
<th>Coefficient</th>
<th>Standard Error</th>
<th>t-Statistic</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNMS</td>
<td>0.857***</td>
<td>0.059</td>
<td>14.463</td>
<td></td>
</tr>
<tr>
<td>LNREER</td>
<td>0.888**</td>
<td>0.441</td>
<td>2.014</td>
<td></td>
</tr>
<tr>
<td>IS</td>
<td>-0.036**</td>
<td>0.015</td>
<td>-2.435</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>-0.423</td>
<td>0.359</td>
<td>-1.178</td>
<td></td>
</tr>
</tbody>
</table>

Serial Correlation Value (LM's test) = 0.2464

Notes: * Significant at 10%, ** Significant at 5% and *** Significant at 1%

Long-Run Analysis

Table 4. Results for the coefficient of long run

<table>
<thead>
<tr>
<th>Variables</th>
<th>LNKLCI</th>
<th>Coefficient</th>
<th>Standard Error</th>
<th>t-Statistic</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARDL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 4 shows the long term coefficient of ARDL model with optimum lag is ARDL (2,2,1,2). The optimum lag value is decided based on Akaike Info Criterion (AIC). In general, the diagnostic test for the model produces good results. It clearly shows that these models are free from serial correlation. The long term coefficient results clearly show that LNMS, LNREER and IS play an essential role in influencing stock market index (LNKLCI). LNREER and IS is statistically significant at least 5 per cent. LNMS is significant at 1 per cent. The result of this study is consistent with the previous research. Alam and Uddin (2009) stated that interest rate has significant negative relationship with share price. Rasiah and Ratswary (2010) found that positive long run relationship between money supply, real exchange rate and real stock returns. According to Masood and Sarwar (2015) found that exchange rate and money supply are positive determinants of stock price in Pakistan. There are stable long run co-integration between stock price and macroeconomic variables.

Short Run Analysis

Table 5. Result of Error Correction Model (ECM) and Coefficient of short run

<table>
<thead>
<tr>
<th>Variables</th>
<th>Coefficient</th>
<th>Standard Error</th>
<th>t-Statistic</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>-0.423***</td>
<td>0.070</td>
<td>-5.975</td>
</tr>
<tr>
<td>D(LNKLCI(-1))</td>
<td>0.170***</td>
<td>0.056</td>
<td>3.016</td>
</tr>
<tr>
<td>D(LNMS)</td>
<td>1.287***</td>
<td>0.439</td>
<td>2.931</td>
</tr>
<tr>
<td>D(LNREER)</td>
<td>0.707</td>
<td>0.437</td>
<td>1.619</td>
</tr>
<tr>
<td>D(IS-MM)</td>
<td>0.916***</td>
<td>0.188</td>
<td>4.865</td>
</tr>
<tr>
<td>D(IS_MM(-1))</td>
<td>-0.005</td>
<td>0.006</td>
<td>-0.395</td>
</tr>
<tr>
<td>D(IS_MM(-1))</td>
<td>-0.011*</td>
<td>0.006</td>
<td>-1.712</td>
</tr>
<tr>
<td>ECM(-1)*</td>
<td>-0.149***</td>
<td>0.025</td>
<td>-5.896</td>
</tr>
</tbody>
</table>

Notes: * significant at 10%, **significant at 5% and *** significant at 1%

According to Engle and Granger (1987), the error correction model (ECM) is a short term model with long term information. The error correction value in the model is negative and significant at the level of 1 per cent. The empirical results show the 14.9 per cent of departures from long-run equilibrium is corrected each period. Therefore, there was a low speed of adjustment.

The volatility of Bank’s Performance

Table 6 shows the result of the GARCH (1,1). In the top section is the mean equation. It shows that the average return is -4.2921. All the variables are significant at 1 per cent. The lower section is the variance equation that gives the result of the ARCH model, namely that the time-varying volatility includes a connected component (0.0004) plus a component which depends on past errors (1.0036). The resid(-1)^2 is significant at 1 percent. The GARCH also significant at 1 percent. These results show that the volatility coefficient, the one ARCH effect (1.0036) and the one in front of the GARCH effect is (0.1739) are both positive. The volatility persistence indicates by (RESID(-1)^2+ GARCH (-1)) was 1.1777, respectively indicating high persistence and volatility shock is large.

Table 6. Results of GARCH (1, 1)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Coefficient</th>
<th>Standard Error</th>
<th>z-statistic</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNMS</td>
<td>0.90***</td>
<td>0.01</td>
<td>134.37</td>
</tr>
<tr>
<td>LNREER</td>
<td>1.15***</td>
<td>0.06</td>
<td>20.48</td>
</tr>
<tr>
<td>IS-MM</td>
<td>-0.04***</td>
<td>0.01</td>
<td>-17.82</td>
</tr>
<tr>
<td>C</td>
<td>-4.29***</td>
<td>0.28</td>
<td>-15.38</td>
</tr>
<tr>
<td>Variance Equation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>0.01*</td>
<td>0.01</td>
<td>1.90</td>
</tr>
<tr>
<td>RESID(-1)^2</td>
<td>1.01***</td>
<td>0.18</td>
<td>5.46</td>
</tr>
<tr>
<td>GARCH(-1)</td>
<td>0.18***</td>
<td>0.07</td>
<td>2.63</td>
</tr>
</tbody>
</table>

Notes: * significant at 10%, ** significant at 5% and *** significant at 1%

Figure 1 shows the line graph of conditional variance for GARCH (1,1). In 1997 to 2000, the volatility is very high. It is because the Asian financial crisis causes the volatility of the stock market high. As
we can see 2007 to 2008, the volatility was not much that high even though that happens the financial crisis in 2008. It compares to the Asian financial crisis. From 2010 to 2018, there is low volatility. It can conclude that when happen, the financial crisis it will lead the stock market has high volatility.

The Table 8 shows the result of ARCH LM test for GARCH model. As a result shows the probability chi-square is 0.4341, which is larger than the significance of 5 per cent. It indicates that fail to reject the null hypothesis, which is there is no ARCH effect.

Table 8. Results of Heteroscedasticity Test: ARCH

<table>
<thead>
<tr>
<th>Heteroscedasticity Test: ARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-statistic</td>
</tr>
<tr>
<td>Obs*R-squared</td>
</tr>
</tbody>
</table>

Table 9 shows the results of the normality test. The probability of Jarque-Bera is 0.0279, which is smaller than the significant 5 %. It implies that reject the null hypothesis, which is there is normally distributed.

Table 9. Results of normality

<table>
<thead>
<tr>
<th>Normality test</th>
<th>Jarque-Bera</th>
<th>7.155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probability</td>
<td>0.028</td>
<td></td>
</tr>
</tbody>
</table>

CONCLUSION

In conclusion, the money supply and stock market performance are a positive relationship. So government and policymaker can refer to this study as references. Government and policymaker can stabilize stock market performance by adjusted the monetary policy when the impact of money supply on the stock market. An expanding monetary policy has spurred the economy, the cash flow in the hands of public increase and this led the demand of stocks and other assets also increased. Upon translation of these needs into actual purchases, stock prices may rise. Besides that, growth in money also affects stock prices and interest rates.

Moreover, to improve the performance of the stock market, government and policymaker can implement fiscal policies. When the exchange rate is weak, the stock market performance is better. It is important information for the government to monitor economic growth. This study provided information for local and foreign investors. In this study for interest spread, it depends on the interest rate between two countries. Investor not only depends on the domestic interest rate and also interest rate in other countries. This information can use to make investment decision more accurate. With an understanding between the real effective exchange rate and the stock market, investors can appropriate transactions to achieve their investment objective.

The first limitation is that there is a lack of the previous study done by another researcher, which is the impact of interest spread on the stock market. In this study, the spread focus on the two countries. Therefore, this is very limited to research that can be used as main references. Most of the previous study is conducted by using the domestic interest rate variable. There is arising the limited data for interest spread (interest rate). The constraint is there is no much same
indicator for Malaysia and the United States that provided completed data by month to month. Therefore, it is only limited to this research because of the data collection constrain.

One of the recommendations to future researchers is that they can apply panel data. It is because panel data can compare with other countries and the period. The researcher can compare with Asian countries such as Thailand, Singapore, Indonesia and others. The impact of interest spreads on the stock market in different countries by comparing interest spread factors. So investors will get more information that can help them make decisions on investment. Besides, it is recommended that researchers use daily data to track the stock market movement. It is because daily data is more accurate than monthly data.

REFERENCES


