

The Impact of Global Interest Rate Policy on Exchange Rate Stability in Developing Countries: A Case Study of Indonesia

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Abstract

lobal interest rate policies, especially those implemented by the Federal Reserve (Fed) and the European Central Bank (ECB), significantly influence exchange rate stability in developing countries, including Indonesia. Interest rate hikes in developed economies often trigger capital outflows from emerging markets, leading to depreciation of local currencies and increased economic vulnerability. This study aims to analyze the impact of global interest rate policy on the stability of the rupiah exchange rate and evaluate the effectiveness of domestic monetary policy, particularly Bank Indonesia's interventions, in mitigating external shocks. The research employs multiple linear regression to assess the influence of the Fed, ECB, and BI Rate on the rupiah exchange rate, alongside a Granger Causality test to explore the causal relationship between these variables. The findings reveal that both Fed and ECB interest rate hikes significantly contribute to rupiah depreciation, while an increase in the BI Rate helps stabilize the exchange rate in the short term. Additionally, the Granger Causality test confirms a strong link between global interest rate fluctuations and rupiah volatility. This study contributes to the literature by offering empirical evidence on how global monetary policies impact Indonesia's exchange rate dynamics. It underscores the importance of proactive and adaptive monetary policy strategies by Bank Indonesia to safeguard currency stability.

Keywords: Global interest rate policy, exchange rate stability, Bank Indonesia, Rupiah, The Fed, ECB

A. Introduction

Exchange rate stability plays a pivotal role in maintaining economic resilience, particularly in developing countries where currency volatility can adversely affect trade balances, inflation, and foreign investment. In a highly interconnected global financial system, interest rate policies by major central banks, such as the Federal Reserve and the European Central



Bank, significantly influence global capital flows and exchange rate dynamics. Developing economies, including Indonesia, often face the challenge of balancing exchange rate stability with economic growth, especially in the context of external shocks stemming from global monetary adjustments (Mishkin, 2009; Lane & Milesi-Ferretti, 2007).

Historically, Indonesia has experienced severe episodes of exchange rate instability, particularly during global financial crises. The Asian Financial Crisis (1997–1998) and the Global Financial Crisis (2008) serve as stark reminders of the vulnerabilities faced by developing economies during periods of global economic turmoil. During these crises, Indonesia experienced significant currency depreciation, capital flight, and inflationary pressures, highlighting its sensitivity to global interest rate changes (Calvo & Reinhart, 2002; Frankel & Rose, 1996). These events underscored the importance of effective monetary policy in mitigating the adverse effects of external shocks while navigating the "impossible trinity" of maintaining monetary independence, exchange rate stability, and free capital mobility (Mundell, 1963; Obstfeld et al., 2005).

The theoretical relationship between global interest rates and exchange rate dynamics has been extensively studied. Dornbusch (1976) introduced the overshooting model, which demonstrates how monetary policy and interest rate adjustments in advanced economies lead to shortterm exchange rate volatility in developing markets. Calvo and Reinhart (2002) explored the "fear of floating" phenomenon, where central banks in developing countries, including Indonesia, often intervene in foreign exchange markets to minimize excessive currency fluctuations. Meanwhile, Taylor (1993) emphasized the significance of systematic monetary policies in mitigating the adverse effects of global interest rate changes on domestic economies.

Empirical studies on Indonesia further illustrate the relationship between global monetary trends and exchange rate stability. Bank Indonesia's Annual Economic Reports highlight the consistent impact of global interest rate hikes on the rupiah's stability, attributing fluctuations to capital inflows and outflows driven by shifts in global investor sentiment (Bank Indonesia, 2022). Setiawan and Wahyudi (2021) found that periods of global monetary tightening often result in substantial capital flight from Indonesia, exacerbating exchange rate volatility. Raharjo et al. (2020) emphasized the role of foreign exchange reserves in cushioning the rupiah during periods of heightened volatility, suggesting that reserves act as a buffer against external shocks.

Several international studies reinforce these findings. (Obstfeld & Rogoff, 1995) highlighted how capital flow volatility, influenced by global interest rate adjustments, directly affects exchange rate dynamics in open economies. (Mishkin, 2009) underscored that globalization amplifies the transmission of monetary policy across borders, making developing economies like Indonesia more susceptible to external shocks. (Reinhart, 2009) argued that historical financial crises demonstrate the persistent global monetary shifts, vulnerabilities of emerging markets to emphasizing the need for proactive policy measures.

In addition to historical and theoretical perspectives, contemporary studies have explored advanced econometric approaches to analyze the impact of global interest rates on exchange rate stability. For instance, (London & Silvestrini, 2024) employed Vector Autoregressive (VAR) models to examine the short- and long-term effects of global monetary policy on exchange rates in developing economies. Similarly, (Lane & Milesi-Ferretti, 1999) analyzed external imbalances and exchange rate adjustments, highlighting the importance of structural reforms to enhance resilience.

Despite these contributions, significant gaps remain in the literature. While many studies provide a broad overview of exchange rate dynamics, few focus specifically on Indonesia's unique economic structure and its vulnerabilities to global monetary policy. Furthermore, most research fails to offer actionable policy recommendations tailored to Indonesia's context, particularly in the face of post-pandemic global economic recovery and ongoing monetary tightening by major central banks.

This study seeks to fill these gaps by analyzing the impact of global interest rate policies on exchange rate stability in Indonesia using advanced econometric techniques, including Vector Autoregressive (VAR) and Autoregressive Distributed Lag (ARDL) models. By integrating historical data and recent trends, this research provides a comprehensive assessment of the short- and long-term impacts of global monetary decisions on Indonesia's exchange rate stability. Moreover, the study emphasizes practical policy recommendations to equip Bank Indonesia with strategies to mitigate external shocks while fostering long-term economic resilience.

Building on foundational works such as those by (Calvo & Reinhart, 2002; Dornbusch, 1976; Mundell, 1963), and this research contributes to a deeper understanding of exchange rate dynamics in developing economies. It provides a country-specific focus on Indonesia, offering insights into how global interest rate policies influence domestic currency stability and economic performance.

B. Research Method

This study uses a quantitative approach with descriptive and causal analysis methods to understand the relationship between global interest rate policy and exchange rate stability in Indonesia. Here are the details of the research methods used:

1. Research Design

This study adopts a **causal quantitative design** that aims to identify and analyze the influence of independent variables, namely global interest rate policies (e.g., policies of the Fed, ECB, and other major Central Banks), on the dependent variable, namely rupiah exchange rate stability. In addition, this study will also explore the role of domestic monetary policy implemented by Bank Indonesia as a mediating variable that affects the relationship.

2. Population and Sample

The population in this study is macroeconomic data related to global interest rate policy, the Rupiah exchange rate, and monetary policy in Indonesia. For the purposes of analysis, the sample used is time series data from 2010 to 2023, which includes the following variables:

- a. Global interest rates (The benchmark interest rates of the Fed, ECB, and Central Banks of major countries)
- b. Rupiah exchange rate against USD (taken from Bank Indonesia and Bloomberg data)
- c. Bank Indonesia's monetary policy (e.g. BI rate, foreign exchange market intervention policy)

The purposive sampling **technique** is used to select data that is relevant to a specific period when there are significant interest rate changes by global central banks, such as the Fed's interest rate hikes in 2016-2019 and 2022-2023.

3. Research Instruments

The instruments used in this study are:

- a. Secondary data is taken from various reliable sources such as Bank Indonesia, Bloomberg, Federal Reserve, European Central Bank, as well as IMF and World Bank reports. This data includes information about interest rates, exchange rates, and related macroeconomic indicators.
- b. Statistical analysis software such as Eviews or Stata to process time series data, test relationships between variables, and perform regression and Granger Causality tests.

4. Data Collection Techniques

The data in this study was collected through the documentation method, namely the collection of secondary data from international and national financial institutions. Data sources include:

- Bank Indonesia to obtain data on the Rupiah exchange rate and monetary policy.
- The Federal Reserve and the ECB to obtain benchmark interest rate
- **Bloomberg** for data on financial market volatility.

Data will also be drawn from annual reports and official publications from institutions such as the IMF, World Bank, and OECD.

5. Data Analysis Techniques

Data analysis is carried out through several stages as follows:

- a. Descriptive Analysis: This stage aims to provide an overview of global interest rate policy trends and rupiah exchange rate volatility. The data will be illustrated using tables and graphs to facilitate understanding of the relationships between variables.
- b. Multiple Linear Regression: To test the influence of global interest rate policy on rupiah exchange rate stability, multiple linear regression will be used with the following model:

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ERIDR=\alpha+\beta1(IntFed)+\beta2(IntECB)+\beta3(BI
                                                    rate)+\epsilon \text{ER}_{IDR}
                                   (\text{Int}_\text{Fed})
                     \beta_1
                                                                            \beta_2
(\text{text{Int}_\text{ECB}})
                                        \beta 3
                                                       (\text{BI
                                                                        rate})
\epsilonERIDR=\alpha+\beta1(IntFed)+\beta2(IntECB)+\beta3(BI rate)+\epsilon
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Where:

- **ER_{IDR}**: Rupiah to USD exchange rate
- Int_Fed: Fed Interest Rate
- **Int_ECB**: ECB interest rate
- **BI rate**: Bank Indonesia interest rate
- a: Intercept 0
- ε: Residual error
- c. Granger Causality Test: To find out whether changes in global interest rates precede changes in the Rupiah exchange rate, a Granger Causality test will be conducted. This test will provide information about the causal relationship between the two variables in the short term.
- d. Vector Autoregression (VAR): The VAR method is used to simultaneously test the effect of global interest rate policy on other macroeconomic variables such as inflation and capital inflows, in addition to the exchange rate.
- e. Statistical Test: After the regression model is run, several statistical tests will be carried out such as the t-test for the significance of each variable, as well as **the F test** to determine the overall significance of the model. In addition, the Durbin-Watson test was used to detect the presence of autocorrelation in the residual model.

6. Data Validity and Reliability Testing

The data used in this study is secondary data from valid and reliable sources, so that data reliability can be guaranteed. The validity of the data was tested by triangulating data sources from various institutions such as Bank Indonesia, IMF, and Bloomberg. Thus, the results of the analysis will reflect valid conditions and can be accounted for scientifically.

C. Result and Discussion

Results of Analysis Calculation

In this study, the results of the analysis using the multiple linear regression method and the Granger Causality test have been carried out to see the relationship between global interest rate policy (The Fed, ECB) and rupiah exchange rate stability, with Bank Indonesia's monetary policy (BI Rate) as a control variable. The following are the results of the calculation and analysis presented in several steps according to the method used:

1. Multiple Linear Regression Results

The results of multiple linear regression were carried out to determine the influence of global interest rates on rupiah exchange rate stability. The regression model equation used is as follows:

 $ERIDR = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntFed) + \beta 2(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntECB) + \beta 3(BI rate) + \epsilon text{ER}_{IDR} = \alpha + \beta 1(IntECB) + \epsilon text{ER}_{IDR} = \alpha +$ + $\beta_1 (\text{ECB}) + \beta_2 (\text{ECB}) +$ \beta_3 (\text{BI rate}) + \epsilonERIDR= α +\beta[IntFed)+\beta2(IntECB)+\beta3(BI rate)+ε

Where:

- **ER_{IDR}**: Rupiah to USD exchange rate
- Int_Fed: Fed Interest Rate
- **Int ECB**: ECB interest rate
- **BI rate**: Bank Indonesia's benchmark interest rate
- a: Intercept
- **ε**: Residual error

Table 1. The results of the multiple linear regression calculation

Independent Variabl	es Regression (Coefficient t-Statistic	s P-Value
Fed Interest Rate	0.85	3.62	0.002
ECB Interest Rate	0.63	2.98	0.005
BI Rate	-0.45	-2.45	0.018
Intercept	1.50	2.70	0.010
R-Squared	0.82		

Interpretation:

- The Fed's Interest Rate has a positive coefficient of 0.85, which indicates that every 1% increase in the Fed's interest rate will increase the depreciation of the Rupiah by 0.85%. With a p-value of 0.002, this effect is significant at a 95% confidence level.
- The ECB Interest Rate also had a positive effect on the depreciation of the Rupiah, with a coefficient of 0.63. An increase in the ECB interest rate by 1% will increase the depreciation of the Rupiah by 0.63%.
- The BI Rate has a negative influence on the Rupiah exchange rate, with a coefficient of -0.45. This means that a 1% increase in the BI

Rate will slow down the depreciation of the rupiah by 0.45%, indicating that domestic monetary policy is able to withstand some of the pressure from global interest rate policy.

An R-Squared value of 0.82 indicates that 82% of the variation in the Rupiah exchange rate can be explained by the independent variables used in this model.

2. Granger Causality Test Results

The Granger Causality **test** was conducted to determine whether there is a causal relationship between global interest rate policies (the Fed and the ECB) and rupiah exchange rate stability.

Tabel 2. The test result

Variable	Grade F	Significance
$\overline{\text{Fed Interest Rate} \rightarrow \text{IDR}}$	4.35	0.025
ECB → IDR Interest Rate	3.85	0.035
IDR → Fed Interest Rate	1.75	0.185

Interpretation:

- The results show that there is a significant causal relationship between the Fed Interest Rate and the ECB Interest Rate to the Rupiah exchange rate. With an F value of 4.35 for the Fed and 3.85 for the ECB, as well as significance values of 0.025 and 0.035 respectively, it can be concluded that global interest rate policy precedes the movement of the Rupiah exchange rate.
- However, there is no causal relationship between the Rupiah exchange rate and the change in the interest rate of the Fed or the ECB, with an insignificant p-value.

3. Test Model Statistics

Some other statistical tests used to assess the suitability of the model are the t-test, the F-test, and the Durbin-Watson test. The results are presented as follows:

Table 3. Test Model Statistics

Statistical Test	Value
Test F	15.65
Test Probability F	0.0003
Durbin-Watson	1.89

- The F test shows that this regression model is significant overall with an F value of 15.65 and a p-value of 0.0003. This shows that independent variables simultaneously have a significant effect on the Rupiah exchange rate.
- A Durbin-Watson of 1.89 indicates that there are no autocorrelation problems in this model, so the regression model is reliable.

Discussion of Analysis Results

The following is a discussion of the results of the research analysis which is divided into four sub-chapters, by including previous research as a reinforcement of the results of this study.

1. The Effect of the Fed's Interest Rate Hike on Rupiah Depreciation

The results of the analysis show that the Fed's interest rate hike has a significant impact on the depreciation of the Rupiah exchange rate. Every 1% increase in the Fed's interest rate has the potential to cause a weakening of the Rupiah by 0.85%. This is in line with the Mundell-Fleming theory, which states that in a floating exchange rate system, an increase in interest rates in developed countries attracts capital outflows from developing countries (Fleming, 1962; Mundell, 1963). Research conducted by Edwards (2018) also found that tight monetary policy in the United States affects capital outflows from developing countries, which ultimately puts pressure on local exchange rates.

Another study by Cavallo et al. (2019) supports these findings by showing that interest rate policies adopted by developed countries have a greater impact on exchange rate volatility in developing countries that have a high dependence on foreign capital flows. In the Indonesian context, these findings indicate that the volatility of the rupiah is largely driven by changes in the Fed's interest rate policy, which affects foreign investors' decision to withdraw capital from the Indonesian market.

2. The Effect of ECB Interest Rates on Rupiah Stability

In addition to the Fed, the interest rate policy implemented by the European Central Bank (ECB) also affects the stability of the rupiah exchange rate. The results of this study found that every 1% increase in the ECB's interest rate causes a depreciation of the Rupiah by 0.63%. This result is consistent with a study conducted by Mishra and Montiel (2013), which found that monetary policy in the European region, although more limited than the Fed, still exerts a significant influence on exchange rate volatility in developing countries.

Research by Georgiadis (2016) also shows that the ECB's monetary policy affects exchange rate stability in Asia, especially when there is economic uncertainty in Europe. In this situation, capital flows from Europe to developing countries such as Indonesia tend to decrease, thus adding pressure to the rupiah exchange rate.

3. The Role of Bank Indonesia's Monetary Policy in Exchange Rate **Stability**

The monetary policy implemented by Bank Indonesia, especially through the increase in the BI Rate, has proven to be able to stabilize the rupiah exchange rate. In regression analysis, the BI Rate increase of 1% reduced the depreciation of the Rupiah by 0.45%. These results indicate that Bank Indonesia is proactively responding to external pressures with tighter monetary policy, in line with a study by Reinhart and Rogoff (2020), which states that developing countries can maintain their currency stability through appropriate monetary intervention.

Local research by Santoso and Wahyudi (2021) also supports this result, where the interest rate hike policy by Bank Indonesia has succeeded in maintaining the stability of the rupiah in times of global uncertainty. Although this policy cannot completely eliminate external pressures, it is able to slow the weakening of the rupiah in the short term.

4. The Relationship between Global Interest Rates and the Rupiah **Exchange Rate**

The results of the Granger Causality test show that there is a significant causal relationship between global interest rate policy and changes in the rupiah exchange rate. With an F value of 4.35 for the Fed and 3.85 for the ECB, it can be concluded that changes in global interest rates precede changes in the rupiah exchange rate. These findings are consistent with a previous study by Edwards (2018), which showed that changes in interest rates in developed countries have a significant spillover effect on developing countries.

Another study by Hausmann et al. (2019) also emphasizes the importance of considering global interest rate dynamics in exchange rate analysis in developing countries, particularly in terms of how international monetary policy can affect domestic financial market stability. In this context, the results of this study reinforce the previous finding that global interest rate policies, especially the Fed and the ECB, play an important role in determining the stability of the rupiah exchange rate.

D. Conclusion

This study aims to analyze the impact of global interest rate policy on rupiah exchange rate stability in Indonesia by considering the domestic monetary policy carried out by Bank Indonesia. The results of the multiple linear regression analysis and the Granger Causality test show that global interest rate policies, especially those implemented by the Fed and the ECB, have a significant influence on the depreciation of the rupiah. Every increase in global interest rates contributes to the weakening of the rupiah exchange rate, as rising interest rates in developed countries cause capital outflows from the financial markets of Indonesia and other developing countries. This effect has been shown to be statistically significant, with a strong positive coefficient between global interest rate hikes and the weakening of the rupiah.

Monetary policies implemented by Bank Indonesia, such as the BI Rate hike and foreign exchange market interventions, have played an important role in maintaining rupiah exchange rate stability amid external pressures. Although domestic policies have proven effective in the short term, their impact has not been fully able to cope with the pressures of

global monetary policy, which indicates the need for stronger mitigation policies. Overall, the study finds that rupiah exchange rate stability is strongly influenced by global interest rate dynamics, and Bank Indonesia must continue to develop a more flexible and adaptive strategy in the face of external volatility to maintain Indonesia's macroeconomic stability.

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