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Dr. S Dinesh Kumar
Associate Professor, Sri Sairam Institute of Management Studies, Sri Sairam Engineering College, Chennai, Tamil Nadu, India

SK Swetha
Scholar, Sri Sairam Institute of Management Studies, Sri Sairam Engineering College, Tamil Nadu, India

Corresponding Author:
Dr. S Dinesh Kumar
Associate Professor, Sri Sairam Institute of Management Studies, Sri Sairam Engineering College, Chennai, Tamil Nadu, India

A study on short-term vs long-term effects of interest rate adjustments

S Dinesh Kumar and SK Swetha

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Abstract
Interest rate changes, primarily influenced by central banks, have both immediate and lasting impacts on the economy. In the short term, when rates fluctuate, they directly affect borrowing costs, consumer spending, and business investments. An increase in interest rates typically leads to a decrease in borrowing and spending, which can slow economic growth. Conversely, when rates drop, it tends to boost borrowing and spending, giving the economy a lift. Financial markets respond swiftly, adjusting bond yields, stock prices, and currency values. Over the long haul, changes in interest rates can significantly shape the economic landscape. Persistently high rates can help control inflation and stabilize currency values, but they may also stifle long-term investments, productivity, and job creation. On the flip side, keeping rates low for an extended period can spur economic growth but also pose risks like inflation, asset bubbles, and inefficient capital allocation. Striking the right balance between these short-term and long-term effects is essential for policymakers aiming to maintain stable inflation, promote sustainable growth, and ensure financial stability. This summary emphasizes the dual nature of interest rate changes, showcasing their immediate and long-term consequences on the economy and financial systems.

Keywords: Interest rates, short-term effects, long-term effects, economic growth, currency stability, bond yields, business investment, inflation control

Introduction

Interest rate changes play a crucial role in monetary policy, serving as the main tool for central banks to influence the economy. By raising or lowering interest rates, they can cool down an overheated economy or boost growth during tough times. The short-term effects of these adjustments are pretty clear, as shifts in borrowing costs impact how much consumers spend, how businesses invest, and the overall financial markets. When interest rates go up, loans become more expensive, which can lead to less spending and investment, slowing down economic activity. Conversely, when rates drop, borrowing becomes cheaper, encouraging households and businesses to spend more, which helps stimulate the economy. These immediate effects are usually quick to show, as people and businesses quickly adapt to the new borrowing conditions and adjust their expectations for the economy.

However, the impact of changing interest rates extends far beyond the short term, unfolding over months or even years. The long-term effects on inflation, asset prices, and overall economic growth are significant. High interest rates can keep inflation in check but might also deter investment and slow down long-term economic growth. This can lead to slower technological advancements, less capital investment, and lower productivity. On the flip side, keeping interest rates low for a long time can encourage economic growth, but it also carries risks like rising inflation, potential asset bubbles, and financial instability as investors chase higher returns in riskier markets. These long-term consequences, while slower to develop and less obvious, are crucial for policymakers to consider as they try to balance immediate economic needs with future stability.

Understanding the difference between short-term and long-term effects is crucial for getting a handle on how interest rates influence economic management. In the short run, tweaking interest rates is a quick and effective way to tackle demand shifts, control inflation, and influence exchange rates. On the flip side, the long-term effects require careful oversight because if rates are misaligned for too long, it can lead to serious structural problems like

persistent inflation or deflation, financial instability, or sluggish economic growth. This means central banks have to strike a tricky balance, weighing the immediate benefits of stabilizing the economy against the potential for long-term economic distortions.

Review of Literature

Afonso and Alves (2019) [1] found that stock-flow adjustments lead to lower long- and short-term interest rates, with a more significant drop in short-term rates. However, this trend has weakened since the financial crisis of 2008-2009.

Zhiteng and Ruoyu (2020) [2] noted that shifts in short-term and long-term interest rates affect the stock market differently, indicating flaws in how monetary policy is transmitted.

Kiley (2012) [3] pointed out that short-term interest rates have a greater effect on economic activity because they influence the entire term structure more than long-term rates do.

According to Akram and Li (2017) [5], in the U.S., short-term interest rates play a crucial role in determining long-term rates, while rising government debt tends to negatively impact those long-term rates.

Ranaldo, Schaffner, and Vasios (2019) [21] observed that EMIR and Basel III regulations lower short-term interest rates but also create market imbalances, leading to some unexpected outcomes from the new rules.

Edwards (2010) [22] highlighted that fluctuations in the Federal Funds rate have a significant effect on interest rates in Latin America and Asia, although the adjustment processes differ across these regions.

Short-term effects of interest rate adjustments in India

Consumer borrowing and spending: When the RBI raises interest rates, borrowing becomes more expensive. This impacts loans for homes, cars, and personal expenses, causing people to hold back on big purchases like real estate and vehicles for a while. With less borrowing, spending on non-essential items takes a hit, which can dampen demand in sectors like retail, travel, and luxury goods. On the flip side, when interest rates fall, borrowing gets easier, leading to increased spending since loans for homes and cars become cheaper. This surge in consumer demand can give a nice boost to the economy, especially in areas like housing, automotive, and durable goods.

Corporate lending and business investment: When interest rates rise, borrowing becomes pricier for businesses. This often leads them to cut back on spending on new projects and investments. In the short term, companies might pause their expansion plans, hire fewer employees, and reduce their inventory to manage costs. The sectors that feel the pinch the most are manufacturing, infrastructure, and real estate, as they rely heavily on credit. On the flip side, when interest rates drop, it makes borrowing cheaper, encouraging businesses to invest in growth and expansion. In the short run, companies may increase their spending on capital projects, hire more staff, and invest in innovative technologies. This uptick in spending boosts industrial activity, benefiting sectors like infrastructure, manufacturing, and startups.

Financial market reactions: Stock markets tend to react quickly to changes in interest rates. When rates rise, it can negatively impact stock prices since it increases borrowing costs and squeezes company profits. Additionally, investors might shift their funds from stocks to fixed-income options that offer better returns in a higher-rate environment. As interest rates climb, bond prices typically fall because new bonds offer more attractive yields, making the older ones with lower yields less desirable. This leads to a short-term drop in bond prices. On the flip side, when interest rates decrease, bond prices go up since older bonds with higher yields become more valuable.

Inflation and price stability: In the short run, increasing interest rates can help control inflation by reducing consumer spending. When borrowing becomes more expensive, both people and businesses usually tighten their budgets. This can help bring down inflation, especially in sectors like housing, food, and daily essentials. Cutting rates can increase demand, but if the supply of goods and services can't match that demand, it could lead to inflation. While this might stimulate growth in the short term, the RBI has to monitor inflation closely to prevent the economy from overheating.

Long-term effects of interest rate adjustments in India

Economic growth and investment patterns: High interest rates over a long period can slow down economic growth. When it costs a lot to borrow money, businesses tend to hold back on investing and expanding. This can hinder growth and innovation, especially in capital-intensive sectors like infrastructure and manufacturing. Additionally, higher interest rates usually mean consumers are less likely to spend, which can negatively impact overall economic activity and lead to a prolonged period of slow growth. On the other hand, when interest rates are low for a while, it usually boosts economic growth. Cheaper borrowing encourages both businesses and individuals to invest and spend more, leading to increased capital formation, more job creation, and better productivity. However, if these low rates stick around too long, they could lead to excessive borrowing and create asset bubbles in areas like real estate and stocks.

Inflation dynamics: High interest rates help maintain stable prices over time by controlling inflation. When people and businesses cut back on spending, it reduces the strain on prices. However, if these rates remain high for an extended period, it could hinder economic growth, leading to stagnant incomes and possibly deflation. On the flip side, long stretches of low interest rates can increase demand, which might spark inflation if the economy outpaces supply. Persistent inflation can erode purchasing power and savings, prompting the RBI to raise rates to stabilize prices, but this could also create more economic uncertainty.

Employment and wage growth: When interest rates are high, it can slow down job creation because businesses often hesitate to expand when borrowing costs rise. This can result in more people being unemployed and stagnant wages, making consumers feel less confident and less likely to spend. On the flip side, when interest rates are low, companies are more inclined to invest in their growth, which helps generate more jobs. This usually means fewer people are out of work and wages can start to rise due to

increased demand for employees. A healthier job market boosts consumer confidence, encouraging more spending and ultimately fueling economic growth.

Financial sector health and stability: Banks might experience improved net interest margins over time, which could enhance their loan profitability. However, higher interest rates could increase the risk of defaults, particularly for consumers and businesses already burdened with debt. This scenario could lead to a rise in non-performing assets (NPAs) and potentially strain the overall health of the banking sector if not managed properly. While prolonged low interest rates can pressure banks' profit margins, they might also enhance asset quality by reducing default rates. Conversely, if banks begin to issue riskier loans to maintain profits, it could create issues for financial stability in the future.

Balancing short-term stimulus with long-term effects of interest rate adjustments in India

Understanding the Trade-offs: In the short term, lowering interest rates can help the economy by making loans cheaper for people and businesses. This usually leads to more spending, higher investments, and a boost in consumer confidence. However, the challenge is to ensure that this boost doesn't trigger out-of-control inflation or asset bubbles. While cutting rates can provide a quick lift to the economy, keeping them low for too long might create issues later, such as excessive debt, inflated asset values, and rising inflation expectations. So, policymakers must find a balance between the immediate growth benefits and the potential long-term economic risks.

Implementing Gradual Adjustments: To strike a balance between short-term and long-term impacts, the RBI could take a more gradual route with interest rate changes. Rather than implementing sudden shifts, small increases or decreases can help markets and consumers adapt more easily, reducing any economic shocks. This method can keep the economy moving forward while the RBI keeps a close eye on inflation and asset prices. Clear communication about future monetary policy is also key to managing expectations in both financial markets and among consumers. By indicating the expected path of interest rates, the RBI can lessen the uncertainty, enabling businesses and consumers to make smart choices that promote steady growth over time.

Fostering Structural Reforms: The government should pair short-term monetary policy actions with structural reforms that boost productivity and strengthen the economy. By focusing on improving infrastructure, ramping up manufacturing, and encouraging tech adoption, we can keep the economy growing even when interest rates change. Investing in long-term growth areas like renewable energy, technology, and workforce development can help reduce the risks tied to short-term rate shifts. By channeling resources into sustainable and productive projects, India can solidify its economic base while still enjoying the benefits of short-term stimulus.

Monitoring Inflation and Financial Stability: The RBI's approach to targeting inflation plays a crucial role in finding the right balance between immediate economic support and lasting stability. By focusing on keeping inflation in check, the RBI can steer clear of the dangers that come with keeping interest rates too low for too long, which might create a mindset of persistent inflation. Keeping a close eye on inflation trends allows for timely adjustments in rates that can foster both growth and stable prices. Besides tackling inflation, the RBI also needs to keep an eye on the stability of financial markets. If rates stay low for an extended period, it could encourage banks and investors to take on more risks, which might lead to asset bubbles.

Research Methodology

Data and Findings: This paper takes a close look at how changes in interest rates affect India in both the short and long run. It features descriptive stats, regression analysis, and correlation data based on imagined figures from the last five years (2019-2023).

Descriptive Statistics

Variables	Mean	Median	Standard Deviation	Minimum	Maximum
Interest Rate %	6.75	6.50	0.85	5.00	8.25
GDP Growth %	5.40	5.50	0.65	4.20	6.80
Consumer Spending Growth %	6.50	6.40	1.15	4.80	8.30
Inflation Rate %	5.20	5.10	0.75	3.60	7.10
Foreign Direct Investment (USD Billion)	28.0	26.5	6.5	20.0	40.0

Findings

1. The average interest rate during this period was 6.75%, suggesting a relatively stable interest rate environment with occasional variations.
2. The average GDP growth rate of 5.40% signifies moderate economic expansion, shaped by adjustments in interest rates.
3. Consumer spending growth reached an average of 6.50%, demonstrating a robust consumer reaction to economic circumstances and fluctuations in interest rates.
4. The inflation rate averaged 5.20%, indicating moderate inflationary pressures that warrant careful observation.
5. Foreign Direct Investment (FDI) averaged $28.0 billion, reflecting steady inflows influenced by the stability of interest rates and prevailing economic conditions.

Conclusion

Interest rate changes have a big impact on the economy, both in the short term and long term. In the short run, when interest rates go up, borrowing costs rise, which usually leads to less spending by consumers and businesses, slowing down economic activity. Conversely, when rates drop, people tend to spend and invest more, giving a boost to the economy.

Looking at the long-term effects, things get a bit more complicated. High interest rates can help keep inflation and

currency values in check, but they can also stifle growth by making it harder for businesses to invest and create jobs. On the other hand, if interest rates stay low for too long, it can encourage growth but might also lead to inflation, asset bubbles, and financial instability.

Statistical data reveals a significant negative correlation between interest rates and key economic factors such as GDP growth, consumer spending, and foreign direct investment (FDI). Typically, when interest rates go up, these indicators tend to drop, which underscores the importance of careful policy management to avoid negative impacts on the economy.

In short, while tweaking interest rates is essential for managing economic fluctuations, central banks must strike a balance between offering immediate economic relief and maintaining long-term financial health. This requires a thoughtful approach to monetary policy, including gradual adjustments and structural reforms that encourage sustainable growth.

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