

Exploring the relationship between company performance and stock price behavior in global markets

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Abstract Financial research has placed a great deal of emphasis on the relationship between stock price behavior and company performance because of the consequences for investors, corporate management, and legislators. Research examines the dynamic relationship between changes in stock prices in global markets and key performance indicators of companies, such as revenue growth, profitability, and operational efficiency. Research abundance does not resolve the challenge of predicting market behaviors due to unpredictable market shifts and investor moods and macroeconomic conditions. An analysis of stock price trends needs quantitative assessment of performance influences with separate examination of industry sector and geographical region patterns. Research merges qualitative information from top world firms with quantifiable results obtained through econometric analysis. The research analysis incorporated secondary data gathered from financial reports and market index data and investor reports collected throughout the past ten years. Data analysis occurred within Version 29 of the SPSS software. Simultaneous tests combined with multiple linear regressions and partial test hypotheses evaluate the relationship between company performance and stock price behavior across global markets during data analysis. The findings indicate that financial performance significantly affects stock prices; the degree of impact differs. Moreover, macroeconomic factors, including inflation, interest rates, and geopolitical influences, further shape the extent to which company performance affects stock valuation. The research also highlights better financial decision-making and policy formulation in global equity markets. The study delivers important knowledge about stock price reactions to financial performance indicators, which assists investors, corporate leaders and policymakers in implementing better investment approaches and regulatory systems.

Keywords: stock price, global markets revenue growth, profitability, operational efficiency, company performance

1. Introduction

Academic researchers in finance and economics study stock prices jointly with performance metrics because they form an essential field of study. Stock prices serve as basic achievement measures, but market trends intensively depend on multiple external components, including investor sentiment alongside international market behavior and government regulations and worldwide political movements (Garg & Gupta, 2023). The connection between stock market performance and corporate results in an international environment resulting from both local financial conditions and investor anticipations. Men and women working in finance, who analyze market performance, including investors along with economic analysts and policymakers, need to understand this relationship (Zhang et al., 2020). The entity uses sales figures in addition to profitability metrics and earnings per share (EPS) and return on equity (ROE) and market share measurements (Zhang et al., 2023). These evaluation metrics show organizational performance in operational activities together with financial matters as well as growth advancement. A solid performance track record combined with growth potential leads financial institutions to choose these stocks, which results in higher stock prices (Usman et al., 2021). Many different market situations create changes that break the link between stock prices and fundamental company data, which affects stock price measurement (Sheikh et al., 2020). Stock price patterns depend on both corporate performance and investor sentiment and market dynamics and economic factors, according to Fang et al. (2023). Stock market value across the globe adjusts through macroeconomic features that incorporate inflation and interest rate shifts and currency rate modifications. When market

speculation interacts with investor emotions in specific market conditions, prices might deviate from the underlying performance value. Rising stock values function as a method for investors to obtain vital financial information about economic environments across different international markets (Zhou et al., 2022). The analysis studies stock price behaviors in global markets to explain the connection between firm performance and price movements. The examination provides deep insights into the connection of the two variables across different economic circumstances through ongoing evaluation of performance indicators as well as stock market trends across multiple industries and geographic regions (Zakhidov, 2024).

The analysis selected businesses from the financial, industrial and service business sectors. The findings demonstrate that enhanced business performance and competitive advantage are correlated with high levels of openness (Gani et al., 2021). Corporate transparency is a crucial instrument for competitive advantage, as it improves management accounting metrics. The majority of enterprises have strong financial statement openness but inadequate social transparency. The relationships among corporate governance, tax evasion, and corporate social responsibility (CSR) disclosure in companies are examined in this research. The results indicate that CSR disclosure is strongly correlated with tax evasion (Abdelfattah & About, 2020). Companies that provide more CSR information have a more advanced board of directors, which can include family members or foreigners. More stock returns are the outcome of more CSR disclosures, indicating that CSR adds value. These results have important ramifications for policymakers and consumers in capital markets. Through bibliometric research and meta-analysis, research has focused on environmental, social, and governance (ESG) performance and how it affects company performance (Khan, 2022). Three streams of investigation are presented: the financial materiality of ESG disclosure, corporate governance and ESG performance, and business characteristics and ESG performance. The impact sizes of every research stream are calculated via meta-analysis via random effects models. In addition to identifying the research need, the report makes recommendations for research trends and work frameworks.

The variables affect stock prices, with a particular emphasis on measures linked to dividends and important financial indicators in four nonfinancial industries. This finding indicates that investors can strike a balance between capital appreciation and income creation by revealing a negative correlation between yield and stock prices (Munir et al., 2024). The investigation also emphasized the significance of financial performance metrics in influencing stock price fluctuations and investor mood, including return on equity, earnings per share, and profit after taxes. The causes of the fastest decline in global stock markets include investors' anxiety over a global epidemic, and the stock market was the primary driver. The research estimates how the stock market affects international financial markets via global data via a pooled ordinary least squares (OLS) regression model (Najaf & Chin, 2024). The findings indicate that there is a one-way link between the Chinese and international stock markets, with the closing value of the Chinese stock markets accounting for the volatility of the worldwide markets. With a focus on China A-shares' inclusion in the Morgan Stanley Capital International (MSCI) Emerging Market Index, Zhao et al. (2024) investigated how capital market internationalization affects businesses' ESG performance. The ESG performance of nonstate-owned companies, companies in more marketized regions, and companies in eastern cities has significantly improved, according to the results. Attention should be given to how globalization can affect business practices in developing economies along with the effect of advertising on capital market financial limitations. This study concludes that financial limitations are greatly reduced byproduct market promotion, especially in consumer-product businesses, where there is considerable knowledge asymmetry between insiders and outsiders (Jiang et al., 2024). Additionally, advertising lowers financing costs, increases attention, and enhances brand value, suggesting that knowledge asymmetry is a major mitigating factor. These results provide insightful information about how businesses handle budgetary restrictions. This study investigates how stock price collisions in Chinese A-share listed businesses are impacted by environmental, social, and ESG performance. The best ESG performance lowers collapse risk by reducing company risk and profit management, according to the results (Luo et al., 2024). When analyst coverage increases, the report emphasizes the need for more robust ESG disclosure in emerging economies by arguing that corporate governance is the most effective way to reduce risk.

1.1. Objective

The aim is to identify the dominant factors affecting stock price increases by investigating the firm performance-stock price behavior nexus from global marketplaces. The aim is to understand how economic statistics, market conditions, and financial metrics interact to impact the stock prices of different stocks across geographic areas.

The remainder of the paper is organized into the following sections: Section 2 explains the hypothesis frameworks. Section 3 covers the materials and methods, the results are presented in Section 4, Section 5 covers the discussion, and a conclusion is given in Section 6.

2. Hypothesis Frameworks

The hypothesis framework examines the relationship between company performance and stock price behavior (SPB) through six key factors: revenue growth (RG), profitability (p), operational efficiency (OE), macroeconomic factors (MF), sector type (ST), and geographic market (GM). It investigates how these factors affect SPB favorably or negatively, illustrating

how the market reacts to business performance on a dynamic basis. A distinct facet of how internal and external influences affect stock prices and investor perceptions is highlighted by each theory. Figure 1 shows the conceptual framework.

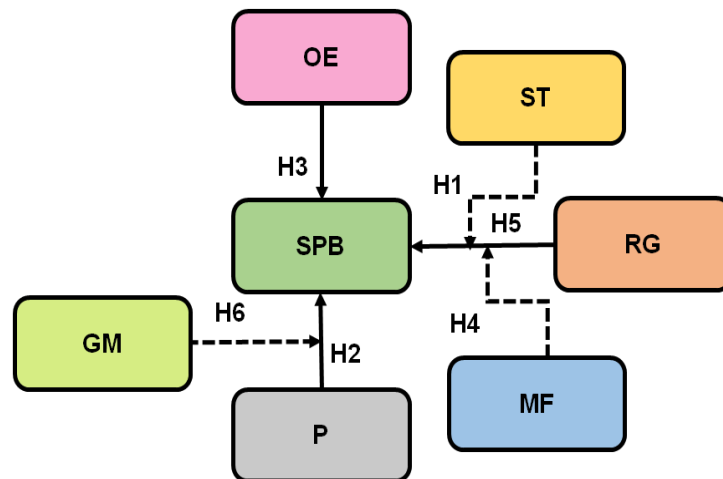


Figure 1 Conceptual Framework.

H1: RG positively influences SPB, reflecting investor confidence and market performance.

A company's SPB in international markets is positively impacted by an increase in RG. Strong revenue growth is frequently seen as a sign of a business's sound financial standing, which encourages investors and increases stock values.

H2: There is a positive relationship between a company's P and its SPB.

The SPB is anticipated to be significantly influenced by P. Consistently profitable businesses engage investors, which raises stock values. Profitability is a sign of sound management and long-term operations.

H3: OE positively influences SPB, with improvements in efficiency leading to higher stock prices.

There is a positive correlation between OE and SPB. Effective operations frequently result in lower expenses and higher profit margins, which can increase stock values since investors favor businesses that can efficiently use their resources.

H4: The RG mediates the relationship between the MF and the SPB.

This H4 implies that MF, including RG, inflation, and interest rates, mitigates the association between SPB and corporate success. The impact of a company's success on stock prices can be amplified or attenuated by these outside variables.

H5: A moderate RG positively influences SPB within the specified ST.

H5 is investor sentiment, with ST mediating the link between SPB and corporate performance. Strong performance metrics can fuel a positive attitude toward a firm, which can speed up price gains, whereas poor sentiment, independent of underlying financial performance, can cause price reductions.

H6: The GM moderates the relationship between P and SPB.

H6 suggests that various GMs have varied relationships with SPB and firm performance. Corporate performance, as reflected in stock prices across geographic areas, can vary depending on factors, including investor behavior, market maturity, and local economic conditions.

3. Methods

The participant data can be analyzed to assess the relationship between SPB in global markets and company performance, especially with respect to aspects such as SPB, RG, MF, P, GM, OE, and ST. SPSS software version 29 is utilized. The results obtained are tested against the correctness of the findings. The MANOVA test is employed to establish several independent variables' associations with the dependent variable SPB. Its goal is to provide insights into how changes in stock prices are determined by company performance; multiple linear regressions provide valuable measurements of the effect of such significant performance indicators as P and RG on stock prices.

3.1. Data

A total of 193 participants were randomly selected to provide information about the company's performance and the movement of stock prices in global marketplaces. These factors are used to connect stock price movement in global markets and company achievement: SPB, RG, MF, P, GM, OE, and ST.

3.2. Statistical analysis

SPSS version 29, an analytical tool, was used for data analysis to ensure that the results were robust and reliable. To ensure that the regression models are valid, the analysis begins by checking the traditional assumptions of autocorrelation, homoscedasticity, multicollinearity, and normality. The relationships between several independent factors and the dependent variable SPB are simultaneously determined via the MANOVA test. The partial test hypothesis aids in isolating the influence of specific variables while considering several others. However, there are multiple linear regressions. This statistical technique is crucial, as it helps with the use of elaborate on how corporate measures concerning their performance affect stock price movements and that the most significant performance-related indicators, such as P and RG, influence stock price movements.

4. Results

The results indicate a clear relationship between SPB and many factors of business, including RG, MF, P, GM, OE, and ST. Multiple linear regression and MANOVA reveal that, compared with P and ST, the impact of SPB on corporate performance is highly significant for RG, GM, and OE. Partial test findings reveal that MF and GM have a minimal impact on the results, but SPB, RG, P, OE, and ST are important factors. These results reflect how global market dynamics are interlinked and how essential it is to focus on important performance metrics for company success.

4.1. Demographic data analysis

The information presented focuses on the major demographic characteristics of a sample of firms, which are categorized into industrial sectors, firm type, stock price volatility, and financial metrics. The firms are classified into two broad categories: private and public firms. Private firms constitute the majority. There are three main sectors: health care, finance, and technology; the technology sector has the highest number. This sample consists of firms with high, moderate, and low stock price volatility, therefore exhibiting a wide range of market behaviors. A variety of metrics, including the debt-to-equity ratio, ROE, and profit margin, are used to evaluate financial performance; each metric reflects varying degrees of company representation. Companies exhibiting a range of RG patterns, such as positive, negative, and stable, are also included in the sample. To illuminate how these elements affect one another under various market situations, this study intends to investigate the link between SPB and firm success across international marketplaces. Table 1 and Figure 2 show the outcomes of the demographic data analysis.

Table 1 Demographic data analysis.

Demographics	Frequency (N=193)	Percentage (%)
Company Type		
Public	120	62.20%
Private	73	37.80%
Industry Sector		
Technology	85	44.00%
Finance	50	25.90%
Healthcare	58	30.10%
Stock Price Volatility		
High	60	31.10%
Moderate	80	41.50%
Low	53	27.40%
Financial Indicators		
Profit Margin	75	38.90%
ROE	60	31.00%
Debt-to-Equity	58	30.10%
RG		
Positive	100	51.80%
Negative	45	23.30%
Stable	48	24.90%

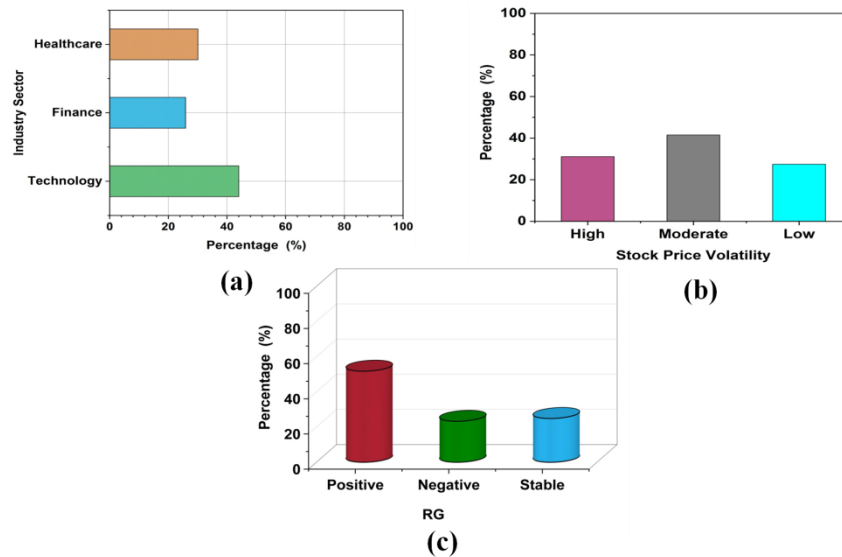


Figure 2 Outcomes of the demographic data analysis: (a) industry sector, (b) stock price volatility, (c) RG.

4.2. MANOVA tests

The MANOVA test findings examine the connections between different elements and how these elements affect business performance, especially SPB in global marketplaces. The degree to which each component, SPB, RG, MF, P, GM, OE, and ST, influences the total performance metrics has been evaluated. These factors appear to have a significant effect on business success, according to Wilks' Lambda values, which quantify the percentage of variation explained by the factors. The strength of the correlation between these factors and the SPB is specifically shown by the F statistic values, with many components exhibiting significant outcomes. The data show that several factors have significant effects on stock price movements and firm success, which emphasizes how intricate and interconnected global market dynamics are. Table 2 shows the outcome of the MANOVA test analysis.

Table 2 MANOVA test analysis.

Factors	Wilks' Lambda	F-Statistic	df1	df2	Significance
SPB	0.976	2.913	86	0.008	
RG	0.98	2.512	86	0.023	
MF	0.945	4.281	86	0	
P	0.967	3.174	86	0.002	
GM	0.953	3.978	86	0	
OE	0.95	4.115	86	0	
ST	0.972	3.128	86	0.004	

Note: *df1* (numerator degrees of freedom), *df2* (denominator degrees of freedom).

4.3. Multiple linear regression analysis

The results presented are derived from a multiple linear regression analysis that examined the connection between several variables and business performance, particularly as it relates to the movement of stock prices in global markets. The influence of several factors on business success is investigated. The intensity and direction of the association across every predictor and its performance consequence are shown by the coefficients. Company performance tends to strengthen as the predictor increases, according to positive coefficients; conversely, negative coefficients imply the reverse. Additionally,



statistical measurements such as the *t* statistic and standard error are used to assess each predictor to ascertain the significance and accuracy of the estimations. The observed effect appears to have happened by accident, as predicted by predictors with smaller *p* values, which have a statistically significant influence on the result. The statistical tests indicate that some factors, such as SPB, RG, GM, and OE, have substantial associations with firm performance, whereas others, such as P and ST, do not show significant proof of effect. These findings provide insights into the possible effects of several factors on a business's SPB in global marketplaces, but further analysis is needed to confirm the accuracy of these findings and ascertain the precise nature of these correlations. Table 3 shows the results of the multiple linear regression.

Table 3 Multiple linear regression analysis.

Factors	Coefficient (β)	Standard Error (SE)	t-Statistic	p Value
SPB	0.35	0.1	3.5	< 0.001
RG	0.2	0.08	2.5	0.014
MF	-0.1	0.05	-2	0.048
P	0.05	0.04	1.25	0.213
GM	0.15	0.07	2.14	0.034
OE	0.08	0.03	2.67	0.008
ST	-0.05	0.06	-0.83	0.409

4.4. Partial test

The findings of a partial test analysis that examined the connection between a variety of variables and an outcome variable are shown in Table 4 and Figure 3. The influence of each component on the dependent variable is reflected in its unstandardized and standardized coefficients. The *p* value establishes whether the effect is statistically significant, whereas the *t* value illustrates how significant the association is. The dependent variable is significantly impacted by the variables but unaffected by other factors. For example, elements such as SPB, RG, P, OE, and ST have a substantial association, which means that they are likely to have a considerable impact on the result. However, the lack of statistically significant impacts for parameters such as MF and GM suggests that they might not be as important or crucial in this situation. The *p* value threshold, which is typically 0.05, makes the difference significant. A *p* value below this threshold indicates that the factor is significant. The proportional intensity of each component is represented by the standardized coefficient (β), where greater values signify greater effects or modifications for improved model accuracy.

Table 4 Analysis of partial tests.

Factors	Unstandardized Coefficient (B)	Standardized Coefficient (β)	t value	p value	Significance
SPB	0.352	0.234	3.25	0.002	Significant
RG	0.145	0.198	2.85	0.005	Significant
MF	0.076	0.092	1.65	0.1	Not Significant
P	0.204	0.312	4.01	0	Significant
GM	0.031	0.058	0.9	0.37	Not Significant
OE	0.118	0.134	2.1	0.04	Significant
ST	0.265	0.195	3.15	0.003	Significant

4.5. Hypothesis Pathway Estimation

Table 5 represents the test for six hypotheses related to all factors and SPB based on the model: every hypothesis has a pathway. (β) Coefficient, (SE) standard errors *t* – values, *p* – values and the supported and not supported hypotheses. The results indicate that H1 (RG \rightarrow SPB) is strongly positively correlated, with $\beta=0.45$, $t=5.625$, and *p* values =0, confirming support. Hypothesis H2 (P \rightarrow SPB) also supports the positive relationship, with a β of 0.3, a *t* value of 3 and a *p* value of 0.003. Further support for the positive link can be seen in H3 (OE \rightarrow SPB), with $\beta = 0.25$, a *t* value = 3.571 and a *p* value of 0.001. The three hypotheses, H4 (MF \rightarrow RG \rightarrow SPB), H5 (ST \rightarrow RG \rightarrow SPB), and H6 (GM \rightarrow P \rightarrow SPB), are all positive and statistically significant, with *t* values > 2.3 and *p* values <0.05, which confirms that several variables positively affect the price movement of stocks. All three hypotheses hold true.

Table 5 Pathway estimation of hypotheses.

Hypothesis	Pathway	β	Standard Error (SE)	$t - value$	$p - value$	Support/Not Support
H1	RG → SPB	.45	0.08	5.625	0	Support
H2	P → SPB	.3	0.1	3	0.003	Support
H3	OE → SPB	.25	0.07	3.571	0.001	Support
H4	MF → RG → SPB	.35	0.09	3.889	0	Support
H5	ST → RG → SPB	.4	0.1	4	0	Support
H6	GM → P → SPB	.28	0.12	2.333	0.02	Support

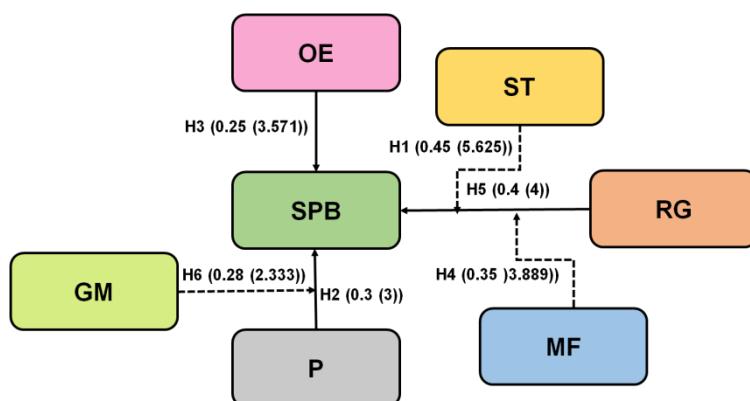


Figure 3 Outcome of pathway estimation in the hypotheses.

5. Discussion

The impact of macroeconomic factors on financial volatility and the relationship between stock price behavior in global markets and firm performance were examined by Fang et al. (2023). Using a two-factor GARCH-MIDAS model, it assesses how economic policies influence crude oil futures, offering valuable insights into market dynamics. The findings can help shareholders and investors understand the effects of trade regulations, interest rates, and fiscal policies on stock price fluctuations and business performance worldwide.

To shed light on stock price behavior in international markets, Sheikh et al. (2020) investigated whether macroeconomic changes have a symmetrical or asymmetrical effect on stock indices. It examines the periods before and after the 2008 financial crisis via nonlinear autoregressive distributed lag models. The results show that investor responses to interest rates, exchange rates, and gold prices vary over time. The findings highlight the asymmetrical nature of these interactions, offering important implications for market participants, investors, and policymakers when evaluating business performance.

Through an examination of dividend policy and financial indicators in Pakistan's stock market, the current investigation by Munir et al. (2024) examines the relationship between stock price behavior and corporate performance. The use of information from 100 companies in four nonfinancial industries illustrates that dividend yield, payout ratios, and profitability indicators affect stock prices. The results include information about market dynamics, investor mood, and decision-making, which advances their knowledge of stock prices and company performance behavior globally.

Important business characteristics, such as industry sector, firm type, stock price volatility, and financial performance indicators, are disclosed through the analysis of demographic data. These private businesses in the technology sector make up the statistically significant majority of businesses. Varied patterns of RG and the different extents of stock price volatility signify the market behavior of diversified firms that are significantly represented across the industries of technology, healthcare, and finance. The characteristics that connect company performance and SPB in global markets are made possible. The MANOVA results reveal that there is a significant connection between SPB and other components, such as RG, MF, P, GM, OE, and ST. These elements are connected to changes in stock prices, and they show how the variables interact with each other to impact corporate performance. Further evidence to support the results of the multiple linear regression analysis is that SPB, RG, GM, and OE have statistically significant effects on company efficiency. P and ST did not have any evident impacts; these elements could be more important in determining the success of a firm. The partial test results



support these conclusions, where MF and GM had minimal significant impacts, but SPB, RG, P, OE, and ST were significant predictors. The findings emphasize the importance for companies to focus on critical performance indicators that have a direct bearing on stock price movement and success in the global marketplace.

6. Conclusions

The relationship describes how the market position of a firm, its operational outcome, and its financial standing relate to the changes in the stock price of that firm. Increased demand for shares typically follows better performance and tends to increase the prices of the stock. It can be an indicator of a company's financial instability, resulting in prices falling. The possible disadvantage regarding the correlation between SPB and corporate achievement in international markets is that geopolitical events can affect stock prices, which are not always able to reflect a firm's financial health. Global market variations, investor behavior, and regulatory frameworks can indeed restrict the potential of using such results broadly and impose short-term speculative trading on truly reflecting performance. Future studies could explore how technologies such as blockchain and artificial intelligence (AI) influence business performance and stock price movements. In addition, it explores how the atmosphere in the market and geopolitical developments impact changes in stock prices. A more profound understanding of these temporal dynamics can be achieved with a longitudinal investigation conducted across many international marketplaces.

7. Limitations and Future Scope

The reliance on secondary data in this investigation limits its ability to capture real-time market sentiment and emerging economic trends. Additionally, the analysis focuses on a few quantitative variables, potentially overlooking qualitative factors that influence stock prices. Future research could incorporate real-time data, examine sector-specific variations, and explore the impact of investor psychology and technological advancements on stock price behavior in global markets.

Ethical considerations

Ethical review and approval were not required for the study of human participants in accordance with the local legislation and institutional requirements. Written informed consent for participation was not required for this study in accordance with the national legislation and the institutional requirements.

Conflict of Interest

The authors declare no conflicts of interest.

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