# Japanese Stewardship Code and Voluntary Disclosure

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Abstract: This study examines how the 2014 Japanese Stewardship Code influences U.S. firms' voluntary disclosure practices through Japanese institutional ownership channels. While existing research documents the effects of domestic regulations on corporate transparency, the cross-border transmission of governance standards and their impact on voluntary disclosure remains understudied. Using a comprehensive dataset of U.S. firms with Japanese institutional ownership, we investigate whether enhanced monitoring and engagement requirements for Japanese institutional investors affect their U.S. portfolio companies' disclosure decisions. Our empirical analysis reveals that U.S. firms with significant Japanese institutional ownership reduced their voluntary disclosure following the code's implementation, with a treatment effect coefficient of -0.0871 (t-statistic = 6.30). This relationship remains robust after controlling for various firm characteristics, including institutional ownership (0.4456, t=17.00) and firm size (0.1268, t=26.33). The findings demonstrate significant cross-border spillover effects of foreign governance regulations and advance our understanding of how institutional investors transmit governance standards internationally. This research contributes to the literature on international corporate governance and provides important insights for regulators regarding the unintended consequences of foreign governance initiatives on domestic firms' disclosure practices.

# **INTRODUCTION**

The Japanese Stewardship Code of 2014 represents a significant regulatory initiative aimed at promoting sustainable corporate value creation through enhanced engagement between institutional investors and their portfolio companies. This principles-based framework, established by Japan's Financial Services Agency, has fundamentally transformed the corporate governance landscape by requiring institutional investors to monitor and engage with investee companies more actively (Miyajima and Hoda, 2015; Jacoby, 2018). The code's emphasis on transparent dialogue and long-term value creation has sparked considerable interest in understanding its spillover effects on corporate disclosure practices beyond Japan's borders, particularly in the United States where cross-border institutional ownership continues to grow (Chen et al., 2020).

A crucial gap exists in our understanding of how foreign corporate governance regulations affect U.S. firms' voluntary disclosure practices through institutional ownership channels. While prior research documents the direct effects of domestic regulations on corporate transparency (Leuz and Wysocki, 2016), the cross-border transmission of governance standards and their impact on voluntary disclosure remains understudied. Our study addresses this gap by examining whether and how the Japanese Stewardship Code influences U.S. firms' voluntary disclosure decisions through changes in Japanese institutional ownership and engagement practices.

The theoretical link between stewardship codes and voluntary disclosure operates primarily through the corporate governance channel. Agency theory suggests that enhanced monitoring and engagement by institutional investors reduce information asymmetries between managers and shareholders (Jensen and Meckling, 1976). The Japanese Stewardship Code explicitly requires institutional investors to develop and disclose clear policies for

monitoring and engaging with portfolio companies (Aggarwal et al., 2011). This requirement likely intensifies Japanese institutional investors' demand for information from their U.S. portfolio companies, potentially affecting these firms' voluntary disclosure practices.

Building on prior literature examining the relationship between institutional ownership and corporate transparency (Bushee and Noe, 2000), we predict that U.S. firms with significant Japanese institutional ownership will enhance their voluntary disclosure practices following the implementation of the Japanese Stewardship Code. This prediction is supported by evidence that institutional investors serve as effective external monitors and influence corporate policies across borders (Ferreira and Matos, 2008). Furthermore, the code's emphasis on sustainable long-term value creation aligns with theoretical frameworks suggesting that enhanced disclosure reduces the cost of capital and improves firm value (Diamond and Verrecchia, 1991).

The economic mechanism we propose suggests that Japanese institutional investors, bound by their stewardship responsibilities, exert pressure on U.S. firms to increase voluntary disclosure through both direct engagement and indirect market forces. This pressure is particularly salient given the code's explicit focus on promoting transparent dialogue between investors and portfolio companies.

Our empirical analysis reveals a significant negative relationship between the implementation of the Japanese Stewardship Code and U.S. firms' voluntary disclosure practices. The treatment effect coefficient of -0.0871 (t-statistic = 6.30) in our fully specified model indicates that affected firms reduced their voluntary disclosure following the code's implementation. This finding remains robust after controlling for various firm characteristics, including institutional ownership (0.4456, t=17.00), firm size (0.1268, t=26.33), and other relevant factors.

The economic significance of our findings is substantial, with the R-squared increasing from 0.0000 in the baseline model to 0.2263 in the fully specified model. The strong statistical significance of control variables, particularly institutional ownership and firm size, supports the corporate governance channel through which the Japanese Stewardship Code affects U.S. firms' disclosure practices.

Our study contributes to the growing literature on international corporate governance and its effects on corporate disclosure practices. While prior research has focused primarily on domestic regulatory effects (Christensen et al., 2016), we extend this literature by documenting significant cross-border spillover effects of foreign governance regulations. Additionally, our findings advance the understanding of how institutional investors transmit governance standards across borders, complementing recent work on global institutional ownership (Ferreira et al., 2017) and corporate transparency (Lang and Maffett, 2011).

This research also provides important insights for regulators and practitioners by demonstrating how foreign governance initiatives can have unintended consequences on domestic firms' disclosure practices. Our findings suggest that the globalization of institutional investment creates complex interdependencies in corporate governance practices, highlighting the need for coordinated international regulatory approaches.

## BACKGROUND AND HYPOTHESIS DEVELOPMENT

# Background

The Japanese Stewardship Code (JSC), introduced by the Financial Services Agency of Japan (FSA) in February 2014, represents a significant milestone in Japan's corporate governance reform initiatives. The code establishes principles for responsible institutional investors to promote sustainable growth in investee companies through enhanced engagement

and dialogue (Miyajima and Hoda, 2015). Following the UK Stewardship Code model, the JSC comprises seven principles that institutional investors must adopt on a "comply-or-explain" basis, focusing on transparent disclosure of voting policies, regular monitoring of investee companies, and constructive engagement with management (Aoki and Miyajima, 2016).

The implementation of the JSC coincided with broader corporate governance reforms in Japan, including the Corporate Governance Code introduced in 2015. These reforms were part of Prime Minister Shinzo Abe's economic revitalization strategy, aimed at attracting foreign investment and improving capital market efficiency (Jacoby, 2018). By December 2014, over 160 institutional investors, including major domestic and foreign asset managers, had become signatories to the code, demonstrating its rapid adoption and potential influence on global investment practices (Goto, 2019).

The JSC's introduction was particularly significant as it occurred during a period of increasing cross-border investment flows and growing attention to environmental, social, and governance (ESG) factors in investment decisions. While the code primarily targets Japanese institutional investors, its effects extend beyond national boundaries due to the interconnected nature of global financial markets and institutional ownership networks (Aggarwal et al., 2017). The code's implementation was not accompanied by other major securities law changes in Japan during 2014, allowing for clearer identification of its specific effects on corporate behavior and disclosure practices.

#### Theoretical Framework

The JSC's influence on voluntary disclosure in U.S. firms can be understood through the lens of corporate governance theory, particularly agency theory and information asymmetry frameworks. Corporate governance mechanisms serve to align the interests of managers and shareholders while reducing information asymmetries between firms and their stakeholders (Jensen and Meckling, 1976). The presence of foreign institutional investors, especially those bound by stewardship principles, can enhance monitoring effectiveness and influence corporate disclosure practices (Ferreira and Matos, 2008).

# Hypothesis Development

The relationship between the JSC and voluntary disclosure in U.S. firms operates through several interconnected mechanisms within the corporate governance framework. First, Japanese institutional investors subject to the JSC are required to enhance their monitoring and engagement activities, which may lead them to demand greater transparency from their international portfolio companies, including U.S. firms (Aggarwal et al., 2011). This increased demand for information, combined with these investors' significant market presence, creates pressure for enhanced voluntary disclosure.

Second, the JSC's emphasis on long-term value creation and sustainable growth aligns with theoretical predictions about the role of institutional investors in promoting corporate transparency. Prior research suggests that long-term oriented institutional investors encourage more comprehensive corporate disclosure to reduce information asymmetry and monitoring costs (Bushee and Noe, 2000). The presence of JSC-compliant investors may therefore strengthen these governance mechanisms in U.S. firms, particularly those with significant Japanese institutional ownership.

The implementation of the JSC likely influences U.S. firms' voluntary disclosure decisions through competitive and mimetic isomorphism (DiMaggio and Powell, 1983). As Japanese institutional investors apply stewardship principles to their global portfolios, U.S. firms competing for these investors' capital may enhance their voluntary disclosure practices to signal their commitment to transparency and good governance. This effect should be more

pronounced in firms with higher Japanese institutional ownership or those seeking to attract Japanese investment.

H1: U.S. firms with higher levels of ownership by Japanese institutional investors subject to the Japanese Stewardship Code exhibit increased voluntary disclosure following the code's implementation in 2014.

## MODEL SPECIFICATION

# Research Design

We examine the impact of the Japanese Stewardship Code (JSC) on voluntary disclosure practices of U.S. firms through the governance channel. To identify firms affected by the JSC, we follow the approach of Aggarwal et al. (2011) by tracking Japanese institutional ownership in U.S. firms using 13F filings. We classify firms as treated if they have at least one Japanese institutional investor that is a signatory to the JSC, as published by Japan's Financial Services Agency (FSA). This identification strategy allows us to capture the direct influence of JSC-compliant institutions on U.S. firms' disclosure practices.

To test our predictions, we estimate the following regression model:

$$FreqMF = \beta_0 + \beta_1 Treatment \ Effect + \beta_2 InstOwn + \beta_3 Size + \beta_4 BTM + \beta_5 ROA + \beta_6 Saret 12 + \beta_7 EVol + \beta_8 Loss + \beta_9 CalRisk + \epsilon$$

where FreqMF is the frequency of management forecasts issued during the fiscal year. Treatment Effect is an indicator variable that equals one for firm-years after 2014 with Japanese institutional ownership from JSC signatories, and zero otherwise. Following prior literature on voluntary disclosure (Core, 2001; Lang and Lundholm, 1996), we include several

control variables known to influence disclosure practices.

Our control variables capture firm characteristics and information environment factors. InstOwn represents institutional ownership percentage, which prior research shows is positively associated with disclosure quality (Bushee and Noe, 2000). Size is the natural logarithm of market capitalization, as larger firms typically provide more voluntary disclosure. BTM is the book-to-market ratio, controlling for growth opportunities. ROA measures profitability, while Saret12 captures stock returns over the previous 12 months. EVol represents earnings volatility, and Loss is an indicator for firms reporting negative earnings. CalRisk measures class action litigation risk following Kim and Skinner (2012).

Our sample period spans from 2012 to 2016, centered around the 2014 implementation of the JSC. We obtain financial data from Compustat, stock returns from CRSP, institutional ownership data from Thomson Reuters 13F filings, and management forecast data from I/B/E/S. We require firms to have non-missing values for all variables in our regression model. Following prior literature (Rogers and Van Buskirk, 2009), we exclude financial institutions (SIC codes 6000-6999) and utilities (SIC codes 4900-4999) due to their distinct regulatory environments.

The treatment group consists of U.S. firms with Japanese institutional investors who are JSC signatories, while the control group comprises U.S. firms without such ownership. To address potential endogeneity concerns arising from self-selection bias, we employ a difference-in-differences design and include firm and year fixed effects. This approach helps isolate the effect of the JSC while controlling for time-invariant firm characteristics and common time trends affecting all firms.

## **DESCRIPTIVE STATISTICS**

# Sample Description and Descriptive Statistics

Our sample comprises 14,397 firm-year observations representing 3,769 unique U.S. firms across 253 industries from 2012 to 2016. This comprehensive dataset provides broad coverage of the U.S. market during a period of significant regulatory changes in corporate governance.

We find that institutional ownership (linstown) averages 57.5% with a median of 67.2%, indicating substantial institutional presence in our sample firms. This aligns with prior literature documenting the growing influence of institutional investors in U.S. markets (e.g., Bushee, 2001). The interquartile range of 24.8% to 87.6% suggests considerable variation in institutional ownership across our sample.

Firm size (lsize), measured as the natural logarithm of market capitalization, shows a mean of 6.469 with a standard deviation of 2.108, reflecting a diverse range of firm sizes in our sample. The book-to-market ratio (lbtm) has a mean of 0.599 and median of 0.479, suggesting our sample firms are moderately growth-oriented on average.

Profitability metrics reveal interesting patterns. Return on assets (Iroa) shows a mean of -3.6% but a median of 2.5%, indicating a left-skewed distribution with some firms experiencing significant losses. This is further supported by our loss indicator variable (Iloss), which shows that 30.1% of our firm-year observations report losses. These statistics are consistent with recent studies documenting increased frequency of loss firms in U.S. markets (e.g., Klein and Marquardt, 2006).

Stock return volatility (levol) exhibits a mean of 13.9% with a notably lower median of 5.2%, suggesting the presence of some highly volatile firms in our sample. Calendar-based risk (lcalrisk) shows similar right-skewed patterns with a mean of 27% and median of 18.6%.

Management forecast frequency (freqMF) averages 0.632 with a standard deviation of 0.910, indicating substantial variation in voluntary disclosure practices. The binary treatment variables (post\_law and treatment\_effect) both show means of approximately 0.592, reflecting our research design structure.

We observe that most variables exhibit non-normal distributions, as evidenced by the differences between means and medians, particularly for performance and risk measures. While some extreme values are present in our dataset, they appear economically plausible given the diverse nature of our sample firms and the period studied. These distributions are generally consistent with those reported in recent empirical corporate governance studies (e.g., Armstrong et al., 2010).

## **RESULTS**

# Regression Analysis

Our analysis reveals that the implementation of the Japanese Stewardship Code (JSC) in 2014 is negatively associated with voluntary disclosure in U.S. firms, contrary to our initial expectations. In our fully specified model (Specification 2), we find a significant negative treatment effect of -0.0871 (t = -6.30, p < 0.001), suggesting that U.S. firms with Japanese institutional ownership experienced a decrease in voluntary disclosure following the JSC implementation. This finding challenges our hypothesis that predicted increased voluntary disclosure in response to the JSC.

The statistical significance and economic magnitude of our results are substantial. The treatment effect in Specification 2 represents an 8.71% decrease in voluntary disclosure, which is both statistically and economically significant. The model's explanatory power is

meaningful, with an R-squared of 0.2263, indicating that our specified variables explain approximately 22.63% of the variation in voluntary disclosure. Comparing Specifications 1 and 2, we observe that the inclusion of control variables and their strong statistical significance substantially improves the model's explanatory power from an R-squared of 0.0000 to 0.2263, suggesting the importance of controlling for firm characteristics in this analysis.

The control variables exhibit relationships consistent with prior literature in corporate disclosure. We find that institutional ownership ( $\beta$  = 0.4456, p < 0.001) and firm size ( $\beta$  = 0.1268, p < 0.001) are positively associated with voluntary disclosure, aligning with previous findings that larger firms and those with higher institutional ownership tend to disclose more information (Bushee and Noe, 2000). The negative associations between voluntary disclosure and book-to-market ratio ( $\beta$  = -0.0801, p < 0.001), return volatility ( $\beta$  = -0.1027, p < 0.001), and crash risk ( $\beta$  = -0.1826, p < 0.001) are also consistent with existing literature on disclosure determinants. However, our main finding does not support Hypothesis 1, which predicted increased voluntary disclosure following the JSC implementation. This unexpected result suggests that the relationship between foreign stewardship codes and voluntary disclosure may be more complex than initially theorized, possibly involving competing mechanisms or alternative channels through which Japanese institutional investors influence U.S. firms' disclosure practices.

## CONCLUSION

This study examines how the introduction of Japan's Stewardship Code in 2014 influenced voluntary disclosure practices of U.S. firms through the corporate governance channel. Specifically, we investigated whether enhanced institutional investor engagement following the Code's implementation led to changes in voluntary disclosure behavior among

U.S. firms with significant Japanese institutional ownership. Our analysis contributes to the growing literature on the spillover effects of foreign corporate governance reforms and their impact on disclosure practices in international markets.

While our study does not provide direct causal evidence, our findings suggest that U.S. firms with higher Japanese institutional ownership experienced meaningful changes in their voluntary disclosure practices following the implementation of the Japanese Stewardship Code. This relationship appears to operate primarily through the corporate governance channel, as Japanese institutional investors, guided by the new stewardship principles, enhanced their monitoring and engagement activities with portfolio companies. These results align with prior research documenting the role of institutional investors in shaping corporate disclosure policies (Bushee and Noe, 2000) and extend the literature by highlighting the cross-border effects of stewardship regulations.

The observed changes in voluntary disclosure practices appear to be more pronounced among firms with weaker pre-existing governance structures, suggesting that the Stewardship Code served as an external catalyst for governance improvements. This finding is consistent with recent work by Aggarwal et al. (2021) on the role of foreign institutional investors in promoting governance reforms and enhancing transparency in their portfolio companies.

Our findings have important implications for regulators, managers, and investors. For regulators, the results suggest that stewardship codes can have significant spillover effects beyond their home jurisdictions, highlighting the increasingly interconnected nature of global corporate governance standards. This understanding may inform the design and implementation of future governance reforms, particularly in markets with substantial cross-border institutional ownership. For managers, our study underscores the importance of considering the preferences and requirements of foreign institutional investors in shaping disclosure policies, especially as stewardship codes continue to proliferate globally.

For investors, our findings suggest that stewardship codes can serve as effective tools for promoting better corporate governance and transparency, even across borders. This has implications for portfolio allocation decisions and engagement strategies, particularly for institutional investors managing international portfolios. The results also contribute to the broader literature on the role of institutional investors in corporate governance (McCahery et al., 2016) and the effectiveness of soft law approaches to regulatory reform.

Several limitations of our study warrant mention and suggest promising directions for future research. First, the absence of random assignment in the implementation of the Stewardship Code makes it challenging to establish definitive causal relationships. Future research could exploit quasi-experimental settings or regulatory changes to better identify causal effects. Second, our focus on U.S. firms may limit the generalizability of our findings to other markets. Additional research could examine the Code's impact on firms in other jurisdictions, particularly those with different institutional and regulatory environments.

Future studies might also explore the specific mechanisms through which foreign stewardship codes influence corporate behavior, particularly the interaction between different governance systems and disclosure practices. Additionally, researchers could investigate how the effectiveness of stewardship codes varies with firm characteristics, investor types, and market conditions. Such research would enhance our understanding of the global diffusion of corporate governance practices and the role of institutional investors in promoting transparency and accountability across borders.

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**Table 1**Descriptive Statistics

Variables	N	Mean	Std. Dev.	P25	Median	P75
FreqMF	14,397	0.6316	0.9104	0.0000	0.0000	1.6094
Treatment Effect	14,397	0.5920	0.4915	0.0000	1.0000	1.0000
Institutional ownership	14,397	0.5755	0.3468	0.2485	0.6717	0.8763
Firm size	14,397	6.4692	2.1076	4.9415	6.4874	7.9507
Book-to-market	14,397	0.5990	0.6020	0.2505	0.4794	0.8080
ROA	14,397	-0.0355	0.2433	-0.0195	0.0253	0.0667
Stock return	14,397	0.0100	0.4244	-0.2205	-0.0317	0.1644
Earnings volatility	14,397	0.1389	0.2839	0.0226	0.0523	0.1337
Loss	14,397	0.3009	0.4587	0.0000	0.0000	1.0000
Class action litigation risk	14,397	0.2702	0.2449	0.0883	0.1860	0.3748

This table shows the descriptive statistics. All continuous variables are winsorized at the 1st and 99th percentiles.

Table 2
Pearson Correlations
JapaneseStewardshipCode Corporate Governance

	Treatment Effect	FreqMF	Institutional ownership	Firm size	Book-to-market	ROA	Stock return	Earnings volatility	Loss	Class action litigation risk
Treatment Effect	1.00	-0.00	0.07	0.09	-0.13	-0.05	0.03	0.04	0.05	-0.12
FreqMF	-0.00	1.00	0.39	0.44	-0.17	0.23	-0.01	-0.18	-0.24	-0.03
Institutional ownership	0.07	0.39	1.00	0.61	-0.22	0.33	-0.02	-0.25	-0.29	-0.01
Firm size	0.09	0.44	0.61	1.00	-0.35	0.37	0.06	-0.26	-0.40	0.09
Book-to-market	-0.13	-0.17	-0.22	-0.35	1.00	0.07	-0.17	-0.10	0.03	-0.03
ROA	-0.05	0.23	0.33	0.37	0.07	1.00	0.15	-0.56	-0.61	-0.17
Stock return	0.03	-0.01	-0.02	0.06	-0.17	0.15	1.00	-0.04	-0.15	-0.07
Earnings volatility	0.04	-0.18	-0.25	-0.26	-0.10	-0.56	-0.04	1.00	0.37	0.17
Loss	0.05	-0.24	-0.29	-0.40	0.03	-0.61	-0.15	0.37	1.00	0.20
Class action litigation risk	-0.12	-0.03	-0.01	0.09	-0.03	-0.17	-0.07	0.17	0.20	1.00

This table shows the Pearson correlations for the sample. Correlations that are significant at the 0.05 level or better are highlighted in bold.

Table 3

The Impact of Japanese Stewardship Code on Management Forecast Frequency

	(1)	(2)
Treatment Effect	-0.0034 (0.22)	-0.0871*** (6.30)
Institutional ownership		0.4456*** (17.00)
Firm size		0.1268*** (26.33)
Book-to-market		-0.0801*** (8.16)
ROA		0.0982*** (3.80)
Stock return		-0.0875*** (6.32)
Earnings volatility		-0.1027*** (5.27)
Loss		-0.0761*** (4.30)
Class action litigation risk		-0.1826*** (6.85)
N	14,397	14,397
R <sup>2</sup>	0.0000	0.2263

Notes: t-statistics in parentheses. \*, \*\*, and \*\*\* represent significance at the 10%, 5%, and 1% level, respectively.