

# Examining the role of sharia supervisory board attributes in reducing financial statement fraud by Islamic banks

*by* Hasan Mukhibad

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# “Examining the role of sharia supervisory board attributes in reducing financial statement fraud by Islamic banks”

## AUTHORS

Indah Anisykurillah  <https://orcid.org/0000-0003-1307-5506>  
Prabowo Yudo Jayanto  <https://orcid.org/0000-0002-5532-8324>  
Hasan Mukhibad  <https://orcid.org/0000-0001-8979-5169>  
Umi Widyastuti  <https://orcid.org/0000-0002-5871-3578>

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Indah Anisykurlillah, M.Si., Lecturer, Economics Faculty, Universitas Negeri Semarang, Indonesia. (Corresponding author)

Prabowo Yudo Jayanto, M.S.A., Lecturer, Economics Faculty, Universitas Negeri Semarang, Indonesia.

Hasan Mukhibad, M.Si., Lecturer Economics Faculty, Universitas Negeri Semarang, Indonesia.

Umi Widyastuti, M.Si., Lecturer, Economics Faculty, Universitas Negeri Jakarta, Indonesia.



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Indah Anisykurlillah (Indonesia), Prabowo Yudo Jayanto (Indonesia), Hasan Mukhibad (Indonesia), Umi Widyastuti (Indonesia)

# EXAMINING THE ROLE OF SHARIA SUPERVISORY BOARD ATTRIBUTES IN REDUCING FINANCIAL STATEMENT FRAUD BY ISLAMIC BANKS

## Abstract

Sharia Supervisory Board (SSB) plays an important role in implementing Islamic law in Islamic banks, including fraud prevention. This ungodly act, also known as haram, is highly forbidden in Islam, as evidenced in the holy book of Al Qur'an. Therefore, this study was conducted to provide evidence on the role of SSB attributes (number of members, expertise, cross-membership, educational level, attendance of meeting, tenure) in preventing fraud. This study used 11 Islamic banks in Indonesia as research samples that were observed during 2014–2018. Data were analyzed using the ordinary least squares (OLS) method. The research findings from this study showed that the number of members, cross-membership, education level, attendance of meetings, and SSB tenure were not proven to reduce fraud. SSB's expertise in accounting/finance had a negative influence on financial statement fraud. The implication of the study is that SSB's expertise helps banks to effectively carry out their duties, namely detecting financial statement fraud. SSB acts as an independent control mechanism that states that all bank activities are in line with Islamic law and also avoid financial statement fraud.

## Keywords

fraud, board attributes, Islamic bank, Islamic ethics, agency problems

## JEL Classification

G32, G24

## INTRODUCTION

The occurrence of fraud in Islamic banks is very unfortunate due to the use of Islamic law as an operational guideline. Many verses of the al-Qur'an forbid the acts of fraud, either in the form of theft, as written in Qur'an 2: 188, or manipulation (QS 16: 116). However, crimes prohibited in Islam still occur on entities guided by Islamic laws, such as the South African Islamic Bank, The Ihlal Finance House, Dubai Islamic Bank; Bank Taqwa, Faisal Islamic Bank, Kuwait Finance House, International Islamic Bank of Denmark, and Bank Islam Malaysia Berhad (BIMB) (Awang & Ismail, 2018; Yusuf, Ahmad, & Razimi, 2016; Mukminin, 2018; Rahman & Anwar, 2014a). Similar cases also occurred in Indonesia, such as fraud cases at Bank Syariah Mandiri, Bank Jateng Syariah, and Bank Jabar Banten Syariah (Astuti, Rozali, & Cakhyaneu, 2019; Mukhibad, 2017).

The occurrence of fraud in Islamic banks has become a topic of debate, with common questions, such as "Does fraud also occur in Islamic and conventional banks?", generally asked (Fathi, Ghani, Said, & Puspitasari, 2017). However, assuming that the conditions are similar, this is very ironic, because an Islamic bank tends to promote fidelity, openness, and transparency on its performance towards all of the stakeholders. Conversely, the rapid growth of banks tends to attract fraud (Vania, Nugraha, & Nugroho, 2018).

According to many literatures, fraud consists of three forms, namely fraudulent statements, corruption, and assets misappropriation (Holtfreter, 2005; Nigrini, 2019; Said, Alam, Karim, & Johari, 2018; Westhausen, 2017). Association of Certified Fraud Examiners (ACFE) reported that these three types of illegal activities often occur as misappropriate assets, corruption, and Financial Statement Fraud (ACFE, 2018). However, Rahman & Anwar (2014) stated that fraudulent financial statements often occur in Islamic banks. Financial statement fraud creates a false view of the performance of an Islamic bank (Mukhibad & Nurkhin, 2019) and leads to an unfair profit sharing calculation for the depositor.

Previous studies examined financial statement fraud in Islamic banks with limited literature data obtained from disclosing the factors that influence fraud using the psychological approach of respondents conducted by Rahman and Anwar (2014), Fathi, Ghani, Said, and Puspitasari (2017), and Suryanto and Ridwansyah (2016), and literature study (see Astuti, Rozali, & Cakhyaneu, 2019; Yusuf, Ahmad, & Razimi, 2016; Mukminin, 2018; Rahman & Anwar, 2014). Meanwhile, Mukhibad and Nurkhin (2019) used corporate governance as a factor influencing earnings management in Islamic banks.

However, this research used corporate governance and financial statement fraud in Islamic banks for its analysis. These factors were used due to their ability to explain the financial statement fraud as a product of the Chief Executive Officer (CEO), and other directors are institutional banks. The corporate governance approach used to explain financial statement fraud was recommended by Rezaee (2005), Farber (2005), Chen, Firth, Gao, and Rui (2006), Halbouni, Obeid, and Garbou (2016), In'airat (2015), and Uzun, Szewczyk, and Varma (2004).

Besides, this study focused on the role of the Sharia Supervisory Board (SSB) in reducing financial statement fraud. The reasons for using SSB are as follows:

- 1) it is a unique board in Islamic entities;
- 2) SSB plays an important role in implementing Islamic law;
- 3) SSB is an independent board;
- 4) SSB reduces agency costs; and
- 5) financial statement fraud occurs due to agency problems.

Subsequently, several attributes, previously used in other studies, were utilized to enhance SSB in carrying out their duties. These include the number of members, cross-membership, expertise, level of education, attendance of meetings, and tenure. All of these attributes are adopted from previous studies. The research problems are whether the SSB attributes (as measured by number of members, cross-membership, expertise, level of education, attendance of meetings, and tenure) negatively affect financial statement fraud?

This study presents a structure of the importance of studying financial statement fraud in Islamic banks, as well as theories and hypotheses deduced from previous studies. The methods used are presented to limit the study and continue with the results and conclusions.

## 1. LITERATURE REVIEW

According to the analysis, managing large and complex business entities results in separation between owners and directors due to the mismanagement of company assets. For instance, a company owner acquires benefits from increased value and dividends, while a director receives a good

salary or remuneration scale. However, this relationship becomes flawed when the director is unable to carry out their duties adequately, such as by committing fraud.

Experts have described fraud in three forms, namely corruption, asset misappropriation, and financial statement fraud (Holtfreter, 2005; Nigrini,

2019; Westhausen, 2017). Asset misappropriation occurs when employees misuse or divert company resources for their gain. Crime occurs when a person provides or offers something of great value to others that affect their judgment or behavior. At the same time, financial statement fraud takes place when fraudsters present manipulated financial statements capable of misleading investors, auditors, and analysts on the true financial condition of the entity (Nigrini, 2019).

Fraud is a criminal act that negatively affects all stakeholders. Bales and Fox (2010) stated that before now, the incidence of fraud was on the increase and still tends to rise. Many parties consider that fraud occurs because of the low ethics of the perpetrators (Sow, Basiruddin, Mohammad, & Rased, 2018), while others believe that people participate in this act due to poor supervision (Abdullahi & Mansor, 2018; Nawawi & Salin, 2018). Chen, Firth, Gao, and Rui (2006), Eferakeya, Enaibre, and Offor (2016), Farber (2005), Halbouni, Obeid, and Garbou (2016), and Salin, Ab Manan, Kamaluddin, and Nawawi (2017) used corporate governance factors to explain fraud. These different points of view led to creating many factors for the proper definition of fraud.

Religion contains directives that form the ethical orientation of a society. According to Rice (2006), there are real and ideal differences between Muslim and non-Muslim communities in terms of teachings. However, empirical evidence shows that fraud also occurs in religious-based business entities, such as Islamic banks (Awang & Ismail, 2018; Yusuf, Ahmad, & Razimi, 2016; Mukminin, 2018; Rahman & Anwar, 2014a; Astuti, Rozali, & Cakhyaneu, 2019; Mukhibad, 2017).

This study aims to explain the causes of financial statement fraud in Islamic banks. The study considers the specific corporate governance mechanism in Islamic banks, namely the sharia supervisory board, which is an independent board for Islamic entities (Alabbad, Hassan, & Saba, 2019) and has the obligation to provide supervision or auditing to directors and other boards (Alsartawi, 2019; AlShattarat & Atmeh, 2016; Mukhibad & Nurkhin, 2019). To explain the role of sharia supervisory board, this study uses five attributes, namely number of members, expertise, cross-member-

ship, education level, attendance at meetings, and tenure. Thus, the aim of the study is to prove the effect of SSB's attributes on reducing financial statement fraud in Islamic banks.

## 2. HYPOTHESES DEVELOPMENT

To solve this problem, this research examines the role of SSB in reducing financial statement fraud. This postulate was built due to the following reasons: SSB plays a unique role in Islamic entities, it ensures that banks carry out their operation in accordance with Sharia rules, and SSB has the duty to provide consulting and auditor services (Farook & Roman, 2007; Farook, Hassan & Lanis, 2011). Based on this reason, it is believed that, first, SSB, as a consultant, provides advice to directors and other boards in the implementation of Islamic law and ethics. Quttainah and Almutairi (2017) stated that SSB plays a role in improving management ethics and reducing agency conflicts. Second, SSB as an auditor (Alsartawi, 2019) helps in evaluating the overall performance of banks in the implementation of Islamic ethics. Quttainah and Almutairi (2017) and Quttainah Song, and Wu (2013) show that SSB has an impact on the implementation of Islamic ethics (Nawaz, 2019). Therefore, this research used these SSB attributes as a factor to reduce fraud and to assist employees in carrying out their duties effectively.

The first attribute is the number of SSB members. In agency theory, small boards are easily controlled by managers, therefore, an increase beyond seven or eight people tends to function effectively. Salleh and Othman (2016) reported that the tendency to carry out financial statement fraud is higher when more directors hold meetings concurrently. Therefore, banks with many SSBs are more effective in carrying out their duties than those with fewer numbers. This also allows them to increase supervision and compliance (Almutairi & Quttainah, 2017), carry out the distribution of tasks, and reduce the potential of financial statement fraud. This has led to the following hypothesis:

**H1:** *The number of SSB members has a negative influence on financial statement fraud.*



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SSB is an independent board that acts as a supervisor and consultant manager in implementing Islamic laws in a bank. It influences the functions of auditors in carrying out their duties. Therefore, SSB's expertise in accounting/finance is needed (Almutairi & Quttainah, 2017). According to Almutairi and Quttainah (2017), Matoussi and Grassa (2012), and Nomran, Haron, and Hassan (2017), the ratio of SSB in increasing banking performance is related to the board's competency in carrying out their duties. This led to the second hypothesis:

*H2: SSB's expertise negatively affects financial statement fraud.*

Another factor that increases the effectiveness of SSB in carrying out their duties is cross-membership. Those that work in several Islamic banks tend to gain knowledge and expertise by sharing experiences. This enables them to coordinate with each other, exchange ideas on a case consulted by a manager. This activity tends to have an impact on increasing the understanding and expertise of SSB. Bukair and Rahman (2013) stated that there are five reasons of SSB cross-membership to improve performance, which are as follows:

- 1) it compares the knowledge obtained by several entities;
- 2) decisions made by one SSB are part of the information as a basis for decision making for others;
- 3) it acts as an information channel on business practices;
- 4) the membership is preferred by banks due to its knowledge and credibility; and
- 5) members tend to adopt the knowledge obtained secretly and explicitly from an entity in another.

SSB with cross-membership discusses the implementation of Islamic law in banking (Farook & Roman, 2007). Fakhruddin and Jusoh (2018) stated that cross membership has a positive influence on Shariah compliance. This led to the third hypothesis:

*H3: SSB's cross-membership has a negative influence on financial statement fraud.*

Another indicator that is widely used by experts as a factor influencing the effectiveness of the board is its education level. Ingley and Van der Walt (2001) stated that highly educated directors tended to offer more sources of innovative ideas and policy development because of their intellectual abilities, experience, good judgment, and integrity. The heterogeneity of the board's educational background provides different perspectives and cognitive paradigms that influence the development of vocational and social contacts of organizational behavior and performance (Ingley & Van der Walt, 2001).

Furthermore, the results are consistent with the ability of the board's educational levels to improve performance. Darmadi (2013) stated that the educational qualifications of the board and CEO members were, to some extent, important in explaining ROA or Tobin's-Q. Furthermore, CEOs with degrees from well-known universities performed better than those without these qualifications. Saidu (2019) also stated that the education qualification possessed by the CEO is important to increase profitability. Almutairi and Quttainah (2017) also supported this finding and proved that SSB education had a positive influence on ROA, ROE, and Tobin-Q. However, Nomran, Haron, and Hassan (2018) reported that the ratio of SSB with doctor qualifications had a negative influence on bank performance. This led to the fourth hypothesis:

*H4: The level of education has a negative influence on financial statement fraud.*

The meeting is defined as the coordination between SSB members, managers, and commissioners. It is part of the evidence that this attribute has provided its consulting services because it provides each member with an opinion, policy, or case in the bank. Conversely, its implementation is an opportunity for managers to provide information and consult strategic policies on SSB. Therefore, the more often SSBs hold meetings, the more effective the company's policies, thereby improving bank performance.

Vafeas (1999), Oseit and Ntim (2011) and Alsartawi (2019) have provided evidence of this relationship.

For instance, Vafeas (1999) and Oseit and Ntim (2011) stated that the number of board meetings had the ability to increase the value of an entity. However, this result was disputed by Hanh, Ting, Kweh, and Hoanh (2018), who stated that the frequency of meetings often takes up time, therefore, it has a negative impact on performance. Meetings require fees, which add to the burden of the entity. Subsequently, this debate concluded that the quality of meetings was important, and not the frequency. Therefore, this led to the fifth hypothesis:

H5: *SSB's attendance at meetings has a negative influence on financial statement fraud.*

The real debate in implementing corporate governance is associated with the tenure board. According to Chen, Firth, Gao, and Rui (2006), boards with long tenure allow members to learn and gain expertise, therefore, it provides better expertise. In line with previous opinions, Reguera-Alvarado and Bravo (2017) stated that boards with old directors had a positive influence on a company's business knowledge and further improved performance. However, following a study involving companies in the USA, Reguera-Alvarado and Bravo (2017) found that board tenure had a positive influence on firm performance. Therefore, this led to the sixth hypothesis:

H6: *SSB's tenure has a negative influence on financial statement fraud.*

### 3. METHODS

Data were obtained from Islamic commercial banks in Indonesia. The purposive sample method was used from 11 banks with 5-year observations (2014–2018) and analyzed using the ordinary least square (OLS) method.

Financial statement fraud variables were measured by adopting earning management measurement methods developed by Mersni and Othman (2016) using *DLLP*. This was used by a bank manager to regulate and evaluate the non-discretionary and discretionary value of *LLP*.

$$DLLP = discretionaryLLP + non - discretionaryLLP, \quad (1)$$

$$LLP_{it} = \beta_0 + \beta_1 NPL_{i,t-1} + \beta_2 \Delta NPL_{it} + \beta_3 \Delta TL_{it} + \epsilon_{it}, \quad (2)$$

where *LLP<sub>it</sub>* is total allowance for loans, investment or financing for bank *i* in year *t*; *NPL<sub>i,t-1</sub>* is initial balance of problem loans for bank *i* in year *t*;  $\Delta NPL_{it}$  is changes in the value of problem loans for bank *i* in year *t*; and  $\Delta TL_{it}$  is changes in the total value of loans for bank *i* in year *t*.

*DLLP* score showing that there was no tendency of fraud was the score approaching zero (this could be a positive or negative score). To let this *DLLP* score be one-way, this study eliminated negative numbers with the following formula:

$$SQRTDLLP = \sqrt{DLLP^2}. \quad (3)$$

The SSB was measured by the number of members, with the expertise determined by the ratio of those educated on finance/accounting. Furthermore, cross-membership was measured by the average SSB member sit as SSB on other banks. The education level was measured by the average level of educated SSB members, where scores of 1, 2, and 3 were given to undergraduates (bachelor degree), graduates (master degree), and postgraduates (doctoral degree), respectively. The meeting attendance and tenure were measured by the average ratio of all SSB members and tenure on an annual basis. In this study, assets were used as a control variable.

### 4. RESULTS

The descriptive test results show that the average value of *LLP* was 3.59, with a maximum of 24.98. The bank is likely to carry out financial statement fraud, assuming the value is close to zero. Furthermore, the minimum *LLP*, 0.0024, was found in Bank Muamalat Indonesia in 2018. The average meeting attendance showed that SSB in Indonesia had a good attendance percentage because 88.74% were in attendance, with a minimum of 50%.

The average tenure of SSB was 7.06 years, however, some ruled for 17 years. Similarly, the number of SSB members is between 2 and 3 people, with a

**Table 1.** Descriptive analysis

	LLP	Size	Cross-membership	Expert	Education level	Meeting	Tenure	Assets
Max	24.9831	3	5.5	0	3	100.00	17	32.2195
Min	0.0024	2	2	0.666667	1	50.00	2	13.6002
Mean	3.5938	2.2273	3.3144	0.263636	2.3333	88.74	7.06	28.2931
St. dev	5.1155	0.4191	0.9329	0.283264	0.4509	17.23	3.34	4.7827

6 maximum of 50% of the total number of directors in accordance with the law stipulated by the FSA. The average value at 2.22 showed that most of the samples had a total of two people, while the average cross-membership of 3.3 with a maximum number of 5.5, shows that it contains three Sharia entities. SSB background viewed from the level of education showed an average value of 2.33 with minimum and maximum values of 1 and 3. This data showed that most of the SSBs had a graduate education.

The testing of causality between variables, as shown in Table 2, indicates that none was above 0.8. This means that all variables used in this research are independent.

The test results using OLS are presented in Table 3, and they showed that SSB expertise had a significance of less than 0.01 with a coefficient of -0.664. Similarly, the Asset Variable had a significance value of less than 0.10 with a coefficient of 0.227, while others, such as the number of SSB members, meeting attendance, cross-membership, ten-

ure, and education level, were above 0.10. This fact showed that the SSB expertise variable and the amount of assets had a negative and positive influence on financial statement fraud, respectively.

## 5. DISCUSSION

The results of this study showed that a large number of SSBs were unable to control financial statement fraud. This is because banks are more effective in conducting supervision and consultation, thereby preventing the occurrence of fraud. Almutairi and Quttainah (2017), Nomran, Haron, and Hassan (2018), Hakimi, Rachdi, Mokni, and Hssini (2018), and Nawaz (2017) agreed that the number of SSBs influenced the quality of services provided. This, however, is related to the supervision of the director committing fraud. Therefore, the quality of services improved due to the increased number of SSB members related to supervision and consultation in improving performance, profitability (Almutairi & Quttainah, 2017; Nomran, Haron, & Hassan, 2018), social

**Table 2.** Variables causality test

	LLP	Size	Cross-membership	Expert	Education level	Meeting	Tenure	Assets
LLP	1	-0.033	0.066	-0.17	-0.123	-0.532	0.018	0.114
Size	-0.033	1	0.302	0.243	0.16	-0.125	0.234	-0.469
Cross-membership	0.066	0.302	1	0.274	-0.174	0.202	0.277	-0.216
Expert	-0.17	0.243	0.274	1	0.017	0.253	0.242	0.074
Education level	-0.123	0.16	-0.174	0.017	1	-0.069	0.15	0.108
Meeting	-0.532	-0.125	0.202	0.253	-0.069	1	0.021	0.12
Tenure	0.018	0.234	0.277	0.242	0.15	0.021	1	-0.258
Ln assets	0.114	-0.469	-0.216	0.074	0.108	0.12	-0.258	1

**Table 3.** Ordinary least square test

	Size	Cross-membership	Expert	Education level	Tenure	Meeting	Assets
Path coefficients	0.02	0.12	-0.50	-0.05	0.07	-0.23	0.19
P-values	0.45	0.20	< 0.001***	0.36	0.33	0.05	0.09*

Note: \*\*\* significant at 1%, \*\* significant at 5%, and \* significant at 10%.



performance (Bukair & Rahman, 2013; Fitriyah & Oktaviana, 2007; Almutairi & Quttainah, 2016, Mallin, Farag, & Ow-Yong, 2014) and risk disclosure (Srairi, 2018; Saufanny & Khomsatun, 2017; Elamer, Ntim, Abdou, Zalata, & Elmagrhi, 2019).

SSB cross-membership was proved to have no negative influence on financial statement fraud due to the inability of entities to conduct discussions related to its identification. Nomran, Haron, and Hassan (2018) state that there are indications that SSB positions on several entities do occur on topics related to product policies that lead to profitability. Therefore, the discussion on financial statement fraud has not been effectively conducted by SSB.

The expertise of SSB in the field of finance/accounting was proven to have a negative influence on financial statement fraud, which is in line with the studies by Grassa (2016), Nomran and Haron, (2019), Rahman and Haron (2019), and Nomran, Haron, and Hassan (2017). The function of SSB as a provider of supervisory services and consulting services for managers and other boards needs expertise in the fields of business, economics, finance, and Sharia. It is because Islamic banks have a goal to obtain benefits that are in accordance with Sharia and in compliance with business objectives. Furthermore, the results of this study have shown that SSB's expertise in finance/accounting prevents directors from conducting financial statement fraud. An SSB with doctoral education level is not automatically able to identify and prevent managers from conducting financial

statement fraud. Therefore, the prevention of this behavior can only be carried out by experts in the field of accounting. In the sample, many SSBs have doctoral backgrounds outside the field of accounting, such as *ushuludin* (religious sciences), Islamic education, and Sharia, therefore, it does not provide competent students.

The results of this study also found that SSB tenure had no influence on financial statement fraud (Chen, Firth, Gao, & Rui, 2006), however, it positively influenced business expertise and knowledge (Reguera-Alvarado & Bravo, 2017). This finding also confirms that the SSB's knowledge and expertise in detecting financial statement fraud have not increased due to the addition of tenure.

The facts also proved that the amount of assets had a positive influence on the financial statement fraud because it encourages directors to improve their performance and accountability. Sometimes, the director's inability to manage assets triggers them to commit financial statement fraud. This study reinforced the findings of Yulistyawati, Suardikha, and Sudana (2019), who used the amount of assets as a proxy to measure rationalization, and found that it had a significant influence on financial statement fraud. A director commits this by increasing or decreasing the level of accounting accruals that exist in the accounts of inventory, receivable, accrued income, costs, and other accounts to achieve the desired profit. Therefore, large assets are triggered by large accrual accounts, hence, the relationship between assets and financial statement fraud is positive.

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## CONCLUSION

This study focused on the role of SSB in reducing financial statement fraud of Islamic banks by measuring its role with attributes such as number of members, cross-membership, expertise, level of education, and meeting attendance. SSB was used due to its ability to ensure that banks comply with Sharia law by prohibiting financial statement fraud. The results showed that only SSB's expertise in accounting/finance had a negative influence on financial statement fraud.

This finding has confirmed previous studies that stated that SSB's expertise in finance/accounting is needed as a complement in Islamic banks. Moreover, banks need SSB supervisors and consultants as directors and board members. This study recommends that Indonesian regulators (Financial Services Authority – *Otoritas Jasa Keuangan*/OJK) improve SSB's expertise in the field of accounting/finance. The expertise in finance/accounting caused by SSB can identify financial statement fraud that occurs in an Islamic bank.

This study focuses on the role of SSB in influencing financial statement fraud. SSB is one of the independent boards, which also has the task of supervising the director to achieve the goals of an entity. Further studies are needed to further explore the use of other board attributes to explain financial statement fraud.

## AUTHOR CONTRIBUTIONS

Conceptualization: Indah Anisykurlillah, Prabowo Yudo Jayanto, Hasan Mukhibad.

Data curation: Indah Anisykurlillah, Prabowo Yudo Jayanto, Hasan Mukhibad, Umi Widyastuti.

Formal analysis: Indah Anisykurlillah, Prabowo Yudo Jayanto, Hasan Mukhibad,

Funding acquisition: Indah Anisykurlillah, Prabowo Yudo Jayanto.

Investigation: Indah Anisykurlillah, Prabowo Yudo Jayanto.

Methodology: Indah Anisykurlillah, Prabowo Yudo Jayanto, Hasan Mukhibad.

Project administration: Indah Anisykurlillah.

Resources: Indah Anisykurlillah, Prabowo Yudo Jayanto.

Software: Indah Anisykurlillah, Hasan Mukhibad, Umi Widyastuti.

Supervision: Indah Anisykurlillah, Prabowo Yudo Jayanto.

Validation: Indah Anisykurlillah, Hasan Mukhibad, Umi Widyastuti.

Visualization: Indah Anisykurlillah, Prabowo Yudo Jayanto, Umi Widyastuti.

Writing – original draft: Indah Anisykurlillah, Prabowo Yudo Jayanto, Hasan Mukhibad.

Writing – reviewing & editing: Indah Anisykurlillah, Umi Widyastuti.

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