

BUKTI KORESPONDENSI
ARTIKEL JURNAL BEREPUTASI

Judul Artikel : Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia
Jurnal : Interdisciplinary Journal of Management Studies (Formerly known as Iranian Journal of Management Studies). Vol. 17, No. 2. pp. 441-453 (Indeks Scopus, Q3)
Penulis : Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati
DOI : 10.22059/IJMS.2023.350653.675482

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1.	Bukti konfirmasi submit artikel dan artikel yang disubmit.	16 Agustus 2022
2.	Bukti konfirmasi review dan hasil review yang pertama.	2 Januari 2023
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5.	Submit Revisi Kedua	21 Februari 2023
6.	Bukti konfirmasi artikel accepted	10 Mei 2023
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Tue, Aug 16, 2022 at 8:50 AM

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Manuscript Title: **Determinants of Halal Food Purchase Decisions for Go Food and Shopee Food Users**

Authors: Ahmad Nurkhin, Fachrurrozie Fachrurrozie, Muhsin Muhsin, Hasan Mukhibad, Norzaidi Mohd Daud

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Manuscript ID: IJMS-202208-675283

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Authors: Ahmad Nurkhin, Fachrurrozie Fachrurrozie, Muhsin Muhsin, Hasan Mukhibad, Norzaidi Mohd Daud

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Mon, Jan 2, 2023 at 1:24 AM

Manuscript ID: IJMS-202211-675482

Manuscript Title: **EQUITY-BASED FINANCING AND CORPORATE GOVERNANCE: EVIDENCE FROM ISLAMIC BANK IN INDONESIA**

Authors: Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati

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Evaluation process of the above mentioned manuscript has been reviewed. The comments of the reviewer(s) are included at the bottom of this letter.

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Reviewer Comment For Author:

About the title, "Equity-Based Financing and Corporate Governance: Evidence from Islamic Bank in Indonesia". The research is about the impact of Corporate Governance to Equity-Based Financing, right? Islamic Bank (singular), the reality you have 14 Islamic banks, therefore must be plural.

The hypotheses development must be completed as the tabulation of descriptive statistics; the Equation must express of the hypotheses especially the sign of directions (positive or negative). The Methods used must be completed especially in using panel data: the Chow test, Hausman test, the LM test. The criteria in choosing sample

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Fri, Jan 13, 2023 at 7:44 PM

Manuscript ID: IJMS-202211-675482 (R1)

Manuscript Title: **Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia**

Authors: Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati

Date: 2022-11-03

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EQUITY-BASED FINANCING AND CORPORATE GOVERNANCE: EVIDENCE FROM ISLAMIC BANS IN INDONESIA

Referee 1st

No. & Indicators	Referee Comments	Our Comments
<p>1. Originality: Does the manuscript contain novel and significant information to justify publication? Any suggestions or recommendations?</p>	<p>The author(s) Just try to synthesize from the previous research, therefore, almost no novel, except from the Islamic banks in Indonesia.</p>	<p>We've rewritten the sentence at the end of the introduction. In this section, we present the novelty and the contribution of this research to its theoretical implications.</p> <p>See page 2 with yellow highlight.</p>
<p>2. Literature and research background: Does the manuscript provide enough understanding of the relevant literature in the field? Any suggestions or recommendations?</p>	<p>Hypothesis Development are not covered all of variables involved as described in the Table 1 for example: the different between the SOCB and POCB and several variables such as Loans, Size, and Income.</p> <p>Suggestion if the authors want to look for the differences between SOCB and POCB must use the Different Test and the impact of banks' variables must be put into the regression</p>	<p>This study uses seven independent variables: BODSIZE, EXPBOD, INDPBOAD, TENBOD, SSBSIZE, EXPSSB, and SSBEDU. LNSIZE, DIVERINCOME, and LOANRATIO as control variables.</p> <p>Differences between SOCB and POCB as additional test. In this section, we test the same hypothesis. The difference is in the research sample (we divided all samples into two, based on ownership).</p>

No. & Indicators	Referee Comments	Our Comments
		<p>The same method was also used by (Jabari and Muhamad, 2021), (Khan and Zahid, 2020), (Nomran, Haron and Hassan, 2017), (Faleye, Reis and Venkateswaran, 2013), (Grassa and Matoussi, 2014). Researchers use various benchmarks to divide the entire sample into sub-samples.</p>
<p>3. Methodology: Do the manuscripts' arguments establish on a proper base of theory? Any suggestions or comments about research design, data collection, and data analysis?</p>	<p>It is not clear how many target population? How to get the sample? What the criteria used to choose the sample. The number of banks with the complete data 8 banks, the 4 banks failed to provide the data. The authors mentioned there are 153 observations, how to find the numbers since 8 banks x 12 = 96 banks. The research model is not congruent with the Hypothesis development, especially about the direction whether positive or negative.</p> <p>Suggestion: Define clearly the population, method to choose the sample, explain the number of observation. Before determine to use REM, must be doing the Chow test, Hausman Test and Lagrange Multiplier (LM) test</p>	<ol style="list-style-type: none"> 1. We explain the sample distribution in Table 1. See page 6 with yellow highlight. 2. We have revised the research model equation. Thanks for the correction. 3. Basically, we have done the panel test steps. However, due to the limited number of words allowed by the editor, we do not present all of them. However, in this paper that we have revised, we present all the stages and the impact that the number of words exceeds the limit allowed by the editor.
<p>4. Findings and conclusions: Are the results in the manuscript</p>	<p>The results are not presented clearly and systematically based on the hypothesis development.</p>	<ol style="list-style-type: none"> 1. We have revised the research results section.

No. & Indicators	Referee Comments	Our Comments
<p>presented clearly and analyzed appropriately? Do the findings and conclusions adequately identify contributions to theory? Any suggestions or recommendations?</p>	<p>Even the table 3 is mentioned, but there is no table 3.</p> <p>The suggestion; The authors must explain or present systematically based on the hypothesis development . Therefore, in drawing the conclusions are also must be based on sequent of hypotheses.</p>	<p>2. We apologize for our mistakes. We have revised it. Thank you very much.</p>
<p>5. Research implications: Does the manuscript clearly identify any implications for practice? Any suggestions or recommendations?</p>	<p>The research implications is not clearly mentioned by the authors especially for the banks themselves.</p> <p>The suggestions: The implications must be based on the results of each hypothesis for example about the number of commissioners; the expertise in economics/finance/accounting etc, especially the results support the hypothesis.</p> <p>The conclusion must based on finding, but the author(s) put something that are not in the finding such as the reason why only conduct the research in Indonesia</p>	<p>Thanks for the correction. We have revised conclusion section. Thank you.</p> <p>See page 13-14 with yellow highlight.</p>
<p>6. Effective written communication: Is the manuscript clear and easy to understand? Does the paper use appropriate grammar?</p>	<p>The manuscript is not using the clear and easy to understand and at some words are not used correctly for example can be found in the abstract the word: incompatible, the word "contend". For the</p>	<p>Thanks for the correction. We have revised. Thank you.</p> <p>This paper has also gone through a review process from a professional proofreader.</p>

No. & Indicators	Referee Comments	Our Comments
	manuscripts it would be better do not use the word "we" to represent the author(s).	

Referee 2nd

No & Indicators	Referee Comments	Our Comments
	EBF is compatible with Sharia value right?	We have replaced "incompatible with Sharia values" with "aligned with shariah value". See page 1 with yellow highlight.
	Replace the word we to researchers	Thank you very much. We have revised it
	Double advice and advice, must be deleted	Thank you for your correction. We have revised to “advice and recommendation”. See page 3 with yellow highlight.
	What the meaning of contend in this sentence?	Thank you for your correction. We have revised to “argue”. See page 6 with yellow highlight.
	The four banks failed to submit the whole years of observation (12 years) or totally did not submit the finansial reports?	We have described the distribution of observations in Table 1.
	How you get this number is not clear: $8 \times 12 = 96$, the rest $153 - 96 = 57$ (?)	We have described the distribution of observations in Table 1.
	All the signs of Independent variables are positives (+), in the hypothesis there are 4 variables negatives How about the role of Loans, Income, and Size	Loan, Income and size are control variables.

No & Indicators	Referee Comments	Our Comments
	I don't see the manuscript for data in Table 3	We apologize for our mistakes. We have revised it. Thank you very much
	Must be systematic based on Hypotheses development. I do not see the Number of Commissioners being discussed in the conclusion	Thanks for the correction. We have revised. Thank you.
	There is no supporting data that states EBF from other countries are lower from Indonesia	Thanks for the correction. We have revised. Thank you.

We really appreciate and thanks you for the constructive comments forwarded by the referee of the paper. We have revised the paper thoroughly based on the referee's suggestion. We believe that incorporating the referee's comments has totally improved the quality of the paper.

Kind regards

Authors

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Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia

Abstract:

Equity-based financing (EBF) is a contract that promotes justice, spirituality, and aligned with shariah values. However, EBF in Islamic banks (IB) is lower than in debt-based financing (DBF). This study aims to demonstrate the importance of the characteristics of the board of director (BOD) and the shariah supervisory board (SSB) in the distribution of EBF. This study examines 14 IBs from 2009 to 2020, yielding 153 bank-years. This study found that the education level of the members of the SSB increased EBF. Independent BOD and the size of the SSB reduced EBF. However, when the sample is divided based on ownership, IB that are owned by state/regional government-owned conventional banks (hereafter SOCB) or private-owned conventional banks (hereafter POCB) produce different research outcomes. In SOCB, the SSB plays a larger role in increasing EBF than it does in POCB.

Keywords:

Equity-based financing; shariah supervisory board; Islamic bank risk; debt-based financing

1. Introduction

Islamic banks (IB) are financial institutions that do not use the interest system to collect and distribute funds. This principle gives rise to contracts from financing and deposit products that differ from those offered by traditional banks. One of the products of IBs is financing based on *mudharabah* and *musyarakah* contracts. These products are also known as equity-based financing (hereafter EBF). EBF is a contract that promotes justice because the bank and the customer will share any profits based on the success of the customer's business. If the customer's business fails, the business losses are the responsibility of the bank, unless the loss is due to negligence by the customer (Risfandy et al., 2019). Based on this system, EBF complies with shariah values (Rahman, Latif, Muda, & Abdullah, 2014), it has spiritual value (Hidayah et al., 2019), and is a product that differentiates IB from conventional bank (CB) (Chong & Liu, 2009). On the other hand, another product, namely debt-based financing (DBF) is considered to be less in line with shariah values. The reason is that DBF financing is similar to that offered by CBs, where customers provide a fixed income to the lending bank (Alam & Parinduri, 2017).

However, the main features of IB have not been optimized. They continue to have low numbers of EBF transactions (Chong & Liu, 2009; Salman & Nawaz, 2018). The dominance of DBF financing over EBF financing shows that IB prefer financing that does not promote justice and spirituality. Warninda et al. (2019) argue that the low levels of EBF are due to the following: (1) The presence of agency problems (Beck et al., 2013); (2) information asymmetry (Warninda et al., 2019; Muda & Ismail, 2010); (3) a moral hazard (Mahmood & Rahman, 2017); (4) high monitoring costs (Hidayah et al., 2019; Rahman et al., 2014). These characteristics make EBF a riskier form of financing than DBF (Ariffin et al., 2009).

The lack of banks offering EBF is the basis for experts to explain this phenomenon. Misman et al. (2020), Warninda et al. (2019), and Mukhibad & Khafid (2018) use the credit risk as the factor causing low levels of EBF. Meanwhile, Risfandy et al. (2019), and Risfandy (2018) use fluctuations in profit sharing and business competition as the factors that cause banks to avoid EBF. To the best of the author's knowledge, there has been no previous study using the structure of corporate governance (CG) as the factor that causes banks to avoid EBF. We argue that the structure of CG influences risk taking (Su & Lee, 2013; Koerniadi et al., 2014). CG's structure will influence bank policies, including the alternative types of bank financing offered (Bhat et al., 2020). The second reason is that the renewal of new contracts or products (EBF and DBF) by IB is the responsibility of the entire board of each IB (IFSB, 2005).

The board of directors (BOD) and the SSB act as consultants and supervisors for banking operations, including the development of financing contracts. Due to the complexity of the products and the transaction mechanisms used by IB, Mollah et al. (2017) argue that CG in IB enables them to take greater risks and achieve better performance. Based on these two arguments, we conclude that CG has an impact on EBF policy-making.

This study addresses the shortfall of previous research in many ways. Firstly, it proves empirically the influence of the CG structure on the decision to distribute EBF. Secondly, it uses EBF as an indicator of the risk in IB. Following Ariffin et al. (2009) and Khan & Ahmed (2001), EBF is a risky form of financing. Previous studies have used the credit risk, liquidity, and insolvency as indicators of risk (Mukhibad & Setiawan, 2022; Lee et al., 2020; Alabbad et al., 2019). Thirdly, the study uses a sample of all the IB in Indonesia, as Indonesia uses a two-tier system. This system separates the roles of supervisors (the board of commissioners) and management (the directors board).

2.Hypotheses Development

The BOD has the duty to provide oversight and act as a consultant for the manager in the running of the bank's operations. The reason for the existence of the BOD is to ensure that investments from the owners and other stakeholders are safe; they obtain sustainable returns and increase the bank's value. To realize this goal, the BOD monitors the bank's policies and controls the manager so he/she does not make high risk policies which can have a negative impact on the sustainability of the bank's business.

In carrying out its duties, the BOD requires a variety of expertise, abilities and experience. These skills are needed when they have discussions between the members or with other boards. Safiullah and Shamsuddin (2018) argue that larger boards bring more diverse knowledge, skills, and experience, so they can provide higher quality advice and **recommendations**. Coles et al. (2008) argue that larger boards are more effective in large and complex companies where these entities require specialized advice.

However, a large board has the opportunity to allow free-riding to occur, thereby reducing the quality of the supervision (Fragal et al., 2018). Although there has been no previous research that explains the effect of the number of members of a BOD on EBF, M. H. Khan et al. (2020), Zeineb & Mensi (2018), and Huang & Wang (2015) prove the effect of the number of members of a BOD on risk taking. Following the opinion of Ariffin et al. (2009) and Khan & Ahmed (2001) that EBF is a risky form of financing, then the IB' policy of channeling EBF is a high risk policy. We therefore develop the following hypothesis:

H1: Number of members on the BOD has a negative effect on EBF

We argue that having a BOD with expertise in finance/economics/accounting will improve the quality of the board's supervision and recommendations. Investment risk is the result of evaluating specific investments from an economic and financial standpoint. For example, an investment will be deemed to be a high risk one if the investment is made during a recession. In addition, this investment can be termed as high risk if the potential return is also high and investment in the business sector is less stable. Consideration of this risk uses an economic approach, so that expertise in the field of economics is the main capital for a BOD to easily identify investment risks.

Minton, et al. (2014) found that boards with financial expertise are better able to identify the risks associated with banks' financial instability and can advise managers on how to avoid these risks.

However, Ho, Lai, and Lee (2009) and Minton et al. (2014) found that board expertise in finance supports increased corporate risk taking. The reason for this is that a board containing financial experts has a thorough understanding of their company's financial situation and can encourage the management to take greater risks in the hope of higher returns.

H2: The BOD' expertise in economics/finance/accounting has a positive effect on EBF

Many experts have provided evidence that board tenure affects the board's performance in providing supervision and consultation to the manager. The impact is that board tenure has been shown to have a positive effect on firm performance (Reguera-Alvarado & Bravo, 2017), the quality of the financial reports (Kim & Yang, 2014) and a negative effect on fraud (Chen et al., 2006). The positive impact of tenure on board outcomes is that tenure allows the board to gain good expertise and develop its knowledge about managing a firm and its business environment (Reguera-Alvarado & Bravo, 2017).

Based on previous studies, we believe that the experience gained by long-serving board members is an important factor in enhancing a board's ability to identify business risks. The members of a BOD have more experience supervising their bank's operations due to their long tenure, and this further improves their supervision and reduces the bank's risk taking. Bhat et al. (2019) found a relationship between board tenure and company risk using tenure as one of the indicators for determining the diversity in a board's expertise. Fauzi et al. (2017) and Ho et al. (2009) found a negative relationship between tenure and risk taking.

H3: BOD' tenure has a negative effect on EBF

Agency conflict can occur between management (as the agent) and owners as the principle (type 1), or between majority shareholders and minority shareholders (type 2). To reduce this agency conflict, especially in companies with controlling ownership and the widely dispersed ownership, optimal supervision is needed. An independent BOD is trusted to be able to reduce any agency conflict among the majority and minority shareholders. An independent BOD is in charge of monitoring the management and reducing the possibility of abuse by the large shareholders (IFC, 2014).

An independent BOD oversees the monitoring of the company's risk-taking. According to the agency theory, high risk-taking is frequently caused by information asymmetry between the management and shareholders (Zhang et al., 2018). Previous studies into the role of

an independent BOD in monitoring risk have yielded mixed results. Zhang et al. (2018) found that the presence of an independent BOD increases the risk. The independent BOD may increase the risk because high risk-taking can lead to higher returns and faster growth (John et al., 2008). However, Singh et al. (2019) found that the presence of an independent BOD has a negative impact on risk. According to John et al. (2008), there is the possibility of managers taking excessive risks, so the independent BOD must assert their control so that the management implements a moderate risk policy.

H4: An independent BOD has a positive effect on EBF

An SSB acts as a supervisor and provides consulting services to the manager. According to Law Number 21 of 2008, the main task of an SSB is to provide advice and consultation to the directors, as well as supervising a bank's activities, in accordance with shariah principles. Even though the object of supervision is to ensure shariah compliance, several researchers have evidence that SSBs play a role in improving banks' financial performance (Nomran et al., 2018; Rahayu & Rasyid, 2019; Farag, Mallin, & Ow-yong, 2018), social performance (Rahman & Bukair, 2013; Fitriyah; Oktaviana, 2007; Mutairi & Quttainah, 2017; Mallin et al., 2014), and risk disclosure (Neifar & Jarboui, 2018). The supervisory and advisory services provided by the SSB have an impact on the bank's performance. Even Mollah and Zaman (2015) argue that an SSB can put pressure on the BOD and management by limiting aggressive and risky projects.

H5: The SSB size has a negative effect on EBF

In line with the existing concepts in the human resource management theory, a person's educational background influences his/her skills, cognition, and ability if he/she becomes a supervisor or consultant. This is the basis for Nomran and Haron (2019), and Nomran, Haron, and Hassan (2017), who all use the educational background of a person as one of the attributes of the members of an SSB, as this is a factor that can affect the effectiveness of an SSB's outcomes. An SSB serves as a supervisor and consultant for business operations, Matoussi and Grassa (2012), Grassa (2016), and Nomran et al. (2018) argue that the members expertise in economics/finance support an SSB in carrying out its duties effectively. According to Bukair and Abdul-Rahman (2013), the SSB's members with financial knowledge and experience can be more responsible and effective than those members who do not have any financial expertise.

The nature of the SSB's decisions can affect the acceptance of a product. This means that SSB approval certification can affect a bank's business volume, especially when its management has no right to be

involved in the decisions of the SSB (Mohammed & Muhammed, 2017). Furthermore, an SSB can only recommend shariah-compliant and low-risk products. As a result, it can prevent banks from taking excessive risks.

Alman (2012) found that the risk in an IB's portfolio increases with the number of members and the cross membership of the SSB. However, the results of Nomran and Haron (2020) show that an SSB has a negative effect on risk taking. The decision of the SSB will have an effect on a product's acceptance, resulting in shariah-compliance and low-risk products (Nomran & Haron, 2020). In contrast to Alman (2012) and Nomran & Haron (2020), who measure an SSB by the number of members it has, this study measures an SSB by its members' expertise in finance/accounting/economics, with the assumption being that their financial/accounting/economic expertise increases the chance of them identifying any risks faced by the bank (Minton et al., 2014).

Higher levels of education are thought to be a good proxy for higher levels of knowledge and intellectual competence (Darmadi, 2013). As a supervisor and advisor to the directors and other boards of a bank, the SSB must have the ability and intellectual competence to carry out its responsibilities. A highly educated SSB member improves bank performance (I. Khan & Zahid, 2020). The education level is a proxy for measuring the human resources' ability to achieve company goals. On this basis, we **argue** that the education level of the members of the BOD will influence the bank's policy to avoid risky policies by decreasing EBF.

H7: The education level of the SSB's members has a positive effect on EBF

3. Method

This research uses all the IB in Indonesia. Until 2020, there were 14 fully-fledged IB in Indonesia. We used a 12-year observation period from 2009 to 2020. There were eight banks that published financial reports during the observation period. However, four banks failed to submit financial statements during the observation period. We generated 153 bank-years using unbalanced data. The distribution of the number of observations (based on years and ownership) is presented in Table 1.

Table 1. Number of observations

Based on Years.		Based on ownership	
Year	Observations	SOCB	POCB

2009	8	4	4
2010	10	4	6
2011	12	5	7
2012	12	5	7
2013	13	6	7
2014	14	7	7
2015	14	7	7
2016	14	7	7
2017	14	7	7
2018	14	7	7
2019	14	7	7
2020	14	7	7
Total	153	73	80

EBF has been defined as the ratio of *mudharabah* and *musyarakah* financing to total financing (Risfandy, 2018; Alam & Parinduri, 2017). The size of the BOD (BODSIZE) was determined by the number of members of the BOD. In Indonesia, the functions of bank supervision and management are divided into two tiers. The supervisory function is performed by the board of commissioners, and the management function is performed by the BOD (Darmadi, 2013). The BOD' expertise (EXPBOD) was measured by the ratio of the members of the BOD with an educational background in finance/accounting/economics to the total number of members of the BOD (Mollah et al., 2021). The independent BOD (INDBOD) was measured by the ratio of the number of independent BOD members to the total number of BOD member. Board tenure (TENBOD) was the average tenure of the members of the BOD in years.

The SSB's size (SSBSIZE) was determined by the number of SSB members (Jabari & Muhamad, 2020). The ratio of SSB members with an educational background in finance/accounting/economics to the total number of SSB members was used to calculate the SSB's expertise (EXPSSB) (Mukhibad et al., 2021). The SSB's education (SSBEDU) was determined by the average last education level of its members' scores (Mukhibad et al., 2021). A diploma or bachelor's degree was given a score of 1, a score of 2 was given for a master's degree, and a score of 3 for a doctoral degree.

We took firm size into account because different sized banks result in different bank risks (Hamid et al., 2020). The natural logarithm of total assets was used to calculate bank size (SIZE) (Mukhibad et al.,

2022). Income diversity (DIVERINCOME) was calculated by dividing non-operating income by operating income (Mukhibad et al., 2022; Risfandy, 2018). The financing ratio (LOANRATIO) was calculated by dividing the financing by the total assets (Risfandy, 2018).

The data analysis method is a quantitative approach that employs the random effects model (REM) or fixed effects model (FEM). This method was chosen because the ordinary least squares (OLS) method does not take into account a bank's unique characteristics, such as its managerial talent, corporate culture, and CG structure, which can influence decisions about its internal control system (Naheed et al., 2021). Furthermore, this employs a REM if the Hausman and Breusch and Pagan LM tests produce p values > 0.05, and it employs a FEM if both these tests produce p values < 0.05.

The research model was as follows:

$$EBF_{i,t} = \beta_0 - \beta_1 BODSIZE_{i,t} + \beta_2 EXPBOD_{i,t} + \beta_3 INDBOD_{i,t} - \beta_4 TENBOD_{i,t} - \beta_5 SSBSIZE_{i,t} + \beta_6 EXPSSB_{i,t} + \beta_7 SSBEDU_{i,t} + CONTROL_{i,t} + \varepsilon$$

4. Results

4.1. Descriptive Statistics

Table 2 shows that the sample had an average EBF of 32.6%. There were IB with EBF scores of 0.00 and IB with EBF scores of 100%. POCB owned the largest EBF. The maximum number of BOD members was 10, and the minimum number was 5. SOCB has a higher BOD size than POCB. The average independent BOD was 75%, with a maximum value of 100%. There were however, IB with an independent BOD ratio of 33.3%. The independent BOD ratio of SOCB was higher than that of POCB. The SOCB's BOD members had a higher average educational background in finance/accounting/economics (53.6%) than the POCB's (51.2% on average). Furthermore, the SOCB had more experienced BOD members than the POCB had. The average tenure of the SOCB's BOD was 6.794 years, while that of the POCB was 6.404 years.

Demographics of the members of the SSB show that all the samples had an average of 2.315 SSB members, with the highest number being three people and the lowest number being two people. The SOCB also had a greater number of members on their BOD and SSB than the POCB did. The fact that the SOCB owned more assets than the POCB necessitated the banks having a larger number of board

members for both their BOD and SSB. The SOCB had SSB members with a stronger educational background in finance/accounting/economics than the boards of the POCB had. However, the SSB's POCB members had a higher level of education than people employed by SOCB. The average education level of the members of the SSB at a SOCB was 1.900, while the POCB's education level was 2.250. The overall sample's average education level for SSB members was 2.083. This meant that the majority of the SSB members had a master's degree, or higher.

Table 2. Descriptive Statistics

Variables	Panel A Full Sample		Panel B (SOCB)		Panel C (SOCB)	
	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.
EBF	0.326	0.264	0.236	0.157	0.399	0.308
BODSIZE	7.503	1.964	7.740	1.972	7.288	1.943
EXPBOD	0.523	0.270	0.536	0.234	0.512	0.296
TENBOD	6.590	2.396	6.794	3.014	6.404	1.640
INDBOD	0.750	0.284	0.664	0.274	0.828	0.271
SSBSIZE	2.315	0.466	2.397	0.493	2.250	0.436
EXPSSB	0.332	0.372	0.513	0.438	0.190	0.228
SSBEDU	2.083	0.502	1.900	0.585	2.236	0.357
LNSIZE	15.356	4.432	17.828	5.273	13.345	2.038
DIVERINCOME	0.447	0.175	0.373	0.219	0.506	0.095
LOANRATIO	62.907	72.901	58.043	82.553	66.916	46.640

The correlation matrix of all the variables shows that the highest correlation (the correlation between BODSIZE and INDBOD) was 0.777. The correlation between variables was less than 0.8, indicating that there was no problem with multicollinearity. This conclusion was supported by the fact that the highest VIF score was 1.93 (Table 3). The VIF score was less than five, indicating that the model had no multicollinearity.

Table 3 displays the regression results for the three models. Model 1 employed the all sample. Model 2 employed the sample from the SOCB, while Model 3 employed the sample from the POCB. In model 1, the Wooldridge test for autocorrelation yielded a result of 0.155. Model 2 yielded a Wooldridge test probability of 0.0457, while model

3 yielded a probability of 0.1583. A Wooldridge probability score of greater than 0.05 indicated that there was no autocorrelation in the model, and vice versa. The Wald test for heteroscedasticity in the three models yielded a probability of 0.000 (less than 0.05), indicating that all of the models had heteroscedasticity issues. According to the Wooldridge and Wald test, models 1 and 3 had heteroscedasticity issues, while model 2 had autocorrelation and heteroscedasticity issues. To solve these problems, we used the recommendation by Hoechle (2007) to add the command “vce (robust)” to solve the problem of heteroscedasticity and the command “cluster ()” to solve the problem of autocorrelation and heteroscedasticity.

Breusch and Pagan Lagrangian multiplier test on models 1, 2 and 3 produced a p-value of 1,000 and recommended using REM as the data analysis method. A Hausman test on model 1 produced a p-value of 0.215 and recommended using REM. On the other hand, Hausman tests on models 2 and 3 produced a p-value of 0.215 and recommended using FEM. As a result, we used REM for model 1 and FEM for models 2 and 3. Table 3 also presents the p value of the F-test in models 1, 2 and 3, which was 0.000. This indicated that all the models were fit.

4.2. Model Test Results

Table 3 shows that BODSIZE had a coefficient of -0.020 and a p-value > 0.10 . These findings indicated that the number of members of a BOD had no effect on EBF. The subsample test also revealed that the number of members of a BOD had no effect on EBF by SOCB and PO CB. The findings of this study differed from those of M. H. Khan et al. (2020), Y. S. Huang and Wang (2015), which demonstrated the role of the BOD' size in risk taking. The number of members on the BOD increased the board's effectiveness in carrying out its duties because it could reduce agency costs (Nomran et al., 2018). On the other hand, a large board caused issues with free riders, communication, and coordination problems among the board members. As a result, the board's size reduced its performance effectiveness (Lee et al., 2020) and subsequently had no influence on EBF. Furthermore, there is no role in EBF for a number of the members of the BOD, due to the allegation that the BOD does not differentiate between EBF and DBF, as both are permitted by the SSB and regulator.

Table 3 shows that the BOD' expertise (EXPBOD) in model 1 had a coefficient of -0.056 with a p-value > 0.10 . These findings indicated that the members of the BOD with a background in finance/accounting/economics had no influence on EBF. This finding differed from those of Minton et al. (2014), Ho et al. (2009) and Minton

et al. (2014) who all found that the BOD' expertise increased board outcomes. The difference between these findings and previous studies were due to different risk indicators. These findings supported the notion that the BOD made no distinction between EBF and DBF, because both forms of financing were permitted by the SSB and the regulator. The results of this subsample test showed that the members of a BOD, with a finance/accounting/economics educational background had a negative effect on EBF in SOCB. However, in POCB, a BOD with members who had a finance/accounting/economics educational background had a positive influence on EBF. The difference in these results indicated that SOCB IB had effective risk control supervision. The trust of the stakeholders was maintained in state-owned banks by them avoiding risk-taking. On the other hand, POCB IB focused on improving their financial performance to increase customer confidence through risky financing.

Table 3. Model Test Results

	Full Sample	IBs SOCB	Ibs POCB
	Model 1	Model 2	Model 3
BODSIZE	-0.020	0.001	-0.046
EXPBOD	-0.056	-0.050**	0.511**
TENBOD	0.012	-0.011	0.031
INDBOD	-0.407*	-0.004	-0.611
SSBSIZE	-0.145**	0.121**	-0.132**
EXPSSB	-0.172	0.043	0.056
SSBEDU	0.232**	0.147**	0.139
LNSIZE	-0.004	0.035***	0.017
DIVERINCOME	0.317*	0.188	0.210
LOANRATIO	0.002	0.002	-0.001
Cons	0.579	-0.369*	0.494*
VIF – Mean	1.93	3.56	2.04
Wooldridge test (Prob.)	0.155	0.0457	0.1583
Modified Wald test (Prob.)	0.000	0.000	0.000
Breusch and Pagan LM test (Prob.)	1.000	1.000	1.000
Hausman (Prob.)	0.215	0.000	0.000
R-Square	0.0539	0.562	0.384
Probability > F	0.000	0.000	0.000

Notes: The table presents coefficient scores. ***, **, * shows significance at 1%, 5%, and 10% respectively with p-values.

The tenure of the board members (TENBOD) had a coefficient score of 0.012 and a p-value > 0.10 . Testing of models 2 and 3 also generated a p-value > 0.10 . These findings demonstrated that the tenure of the members of the BOD did not encourage IB to channel EBF. The findings differed from Reguera-Alvarado and Bravo (2017), who found board tenure had a role in controlling risk. This difference in the results would be because EBF and DBF bring in the same income; there is no difference in the income from EBF and DBF, so the board's experience does not encourage or control the IB channeling EBF.

Table 3 also shows that the independent BOD ratio (INDBOD) had a negative effect on EBF's distribution. These findings supported the findings of John et al. (2008) and Singh et al. (2019) who discovered the role of an independent BOD in risk-taking. The independent BOD, as the representative of the shareholders and owners of deposit funds, carried out effective risk management. The presence of an independent BOD could reduce agency conflict by avoiding risk-taking (Zhang et al., 2018). The presence of an independent BOD for an IB can help to reduce the agency conflict among its stakeholders.

The first attribute of the SSB that explains its effectiveness as a supervisor of IB is the number of members of the SSB. Table 3 shows that the number of members (SSBSIZE) had a coefficient of -0.145 and a p-value < 0.05 . The result showed that the number of members of an SSB had a negative influence on EBF. Model 3 also confirmed model 1, indicating that the number of SSB members had a negative influence on EBF. However, using the SOCB sample, this research found that the number of SSB members had a positive effect on EBF. This result strengthens the SSB's role in reducing risk (Nomran et al., 2018). This result also strengthened the agency theory, as IB with a large number of members on the SSB will have significant resources to exercise oversight and avoid risky policies. Although previous research did not explain the role of the number of members of an SSB on EBF, the findings of this study corroborated the findings of Alman (2012) who discovered that an SSB's size had a negative effect on risk-taking.

Table 3 shows that an SSB with members who had a background in finance/accounting/economics (EXPSSB) produced a coefficient of -0.172 with a p-value > 0.10 . Models 2 and 3 reinforced the results of model 1. These findings indicated that the expertise of the members of an SSB had no effect on EBF. The findings of this study differed from those of Nguyen (2021), Isa and Lee (2020), Basiruddin and Ahmed (2019), who discovered that an SSB's expertise in finance had a negative effect on risk. An SSB certifies that EBF and DBF are shariah-compliant financing. It does not recommend one type of financing because both forms of financing are in accordance with shariah

principles.

Model 1's test results showed that the education level of the members of an SSB (SSBEDU) had a coefficient of 0.232 and a p-value < 0.05 . The results were supported by the results of model 2, which produced a coefficient of 0.147 with a p-value < 0.05 . These findings suggested that the education level of the members of an SSB had a positive effect on EBF. These findings supported Mukhibad & Setiawan (2022), and Jabari & Muhamad (2021) in that the education level of the members of an SSB had a positive influence on risk-taking. The level of education can provide an SSB with the expertise to recognize the risks and strengths of EBF. EBF has high earning potential, which encourages an SSB to recommend that the bank's manager should channel EBF (Mukhibad & Setiawan, 2022). However, in a POCB, the education level of the members of an SSB had no effect on EBF. The difference in results between SOCB and POCB IB was due to different ownership structures, which caused differences in the policies for supervision by the respective SSBs. POCB and IB bear a greater responsibility for reducing information asymmetry among the stakeholders, so their SSBs must have a greater supervisory role and thus increase their performance than those in SOCB and IB.

5. Conclusion

This study's findings show that an independent BOD and the number of members of an SSB have a negative influence on EBF. On the other hand, the education level of the members of an SSB has a positive influence on EBF. However, by dividing the full sample based on IB ownership (SOCB and POCB), the results show that the SSB's size and education level have a positive effect on EBF in SOCB. Conversely, the SSB's size has a negative impact on EBF in POCB. The BOD's expertise has a negative effect on EBF in SOCB and has a positive effect on EBF in POCB.

Overall, our findings show clear differences in the influence of the characteristics of a BOD and an SSB, which might be due to differences in the ownership of each bank. SOCB and IBs, due to the nature of state-owned banks, have poor monitoring, while their BOD tend to be conservative toward risk-taking, to safeguard their jobs (Boubakri et al., 2013).

The BOD and the SSB have been effective in controlling EBF. But in SOCB, an SSB encourages banks to provide EBF. Due to the nature of EBF, this is viewed as high-risk financing, the department/authority responsible for IBs in Indonesia should take these

research results into account and revise the rules and make a greater effort to implement corporate governance reforms for determining the individual characteristics (like independence, number of members and level of education) as a requirement to become members of a BOD or an SSB, to better control the risk-taking by IBs.

This study uses the nature of EBF, which is high-risk financing so that IB should avoid EBF. Future researchers can complement this research by empirically proving EBF's risks and profitability. Second, this study uses a sample of banks in Indonesia. Further researchers can expand the sample to include more countries while still focusing on country characteristics.

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**4. Bukti konfirmasi review dan
hasil review yang Kedua. 17 Februari 2023**

Manuscript Needs Revision (#IJMS-202211-675482 (R2))

1 message

Iranian Journal of Management Studies <ijms@ut.ac.ir>
To: hasanmukhibad@mail.unnes.ac.id

Fri, Feb 17, 2023 at 9:23 PM

Manuscript ID: IJMS-202211-675482 (R1)

Manuscript Title: **Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia**

Authors: Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati

Dear Mr. Hasan Mukhibad

Evaluation process of the above mentioned manuscript has been reviewed. The comments of the reviewer(s) are included at the bottom of this letter.

Your manuscript has obtained **minor revisions**. In this case we normally treat it as unacceptable for publication. However, as little editorial errors have pointed out by the reviewers, the **Iranian Journal of Management Studies** editor believes that the manuscript could be rectified and prepare for possible publication.

Also, numerous Literary grammatical errors have made this article totally unprofessional. You should be advised to partner with highly proficient individuals especially from academia to review the article and change it drastically. Therefore, I invite you to respond to the reviewer(s) comments and revise your manuscript within the period of defined time.

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21 Februari 2023



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Acknowledgement of Revision (#IJMS-202211-675482 (R2))

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Tue, Feb 21, 2023 at 5:06 PM

Manuscript ID: IJMS-202211-675482 (R2)

Manuscript Title: **Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia**

Authors: Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati

Date: 2022-11-03

Dear Mr. Hasan Mukhibad

Thank you for submitting the revised file of your manuscript to the **Iranian Journal of Management Studies**

The Editorial Office will proceed on your manuscript and inform you in the earliest time.

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EQUITY-BASED FINANCING AND CORPORATE GOVERNANCE: EVIDENCE FROM ISLAMIC BANKS IN INDONESIA

Referee 1st

No. & Indicators	Referee Comments	Our Comments
1. Originality: Does the manuscript contain novel and significant information to justify publication? Any suggestions or recommendations?	Great! The manuscript has been deemed suitable for publication after revisions were made based on the suggestions provided.	Thank you very much for your evaluation and the constructive comments. These comments our needed for improved the quality of the paper.
2. Literature and research background: Does the manuscript provide enough understanding of the relevant literature in the field? Any suggestions or recommendations?	The literature has been revised and our comments have been incorporated, thus enriching the literature review section. in hypothesis development, they have clarified issues related to independent variables.	Thank you very much for your evaluation and the constructive comments. These comments our needed for improved the quality of the paper.
3. Methodology: Do the manuscripts' arguments establish on a proper base of theory? Any suggestions or comments about research design, data collection, and data analysis?	The authors have revised issues related to sample distribution and the research equation	Thank you very much for your evaluation and the constructive comments. These comments our needed for improved the quality of the paper.
4. Findings and conclusions: Are the results in the manuscript presented clearly and analyzed appropriately? Do the findings and conclusions adequately identify contributions	The authors have systematically presented their findings, incorporated them with previous studies, and drawn conclusions based on the findings.	Thank you very much for your evaluation and the constructive comments. These comments our needed for improved the quality of the paper.

No. & Indicators	Referee Comments	Our Comments
to theory? Any suggestions or recommendations?		
5. Research implications: Does the manuscript clearly identify any implications for practice? Any suggestions or recommendations?	The authors also presented the implications of the study to the knowledge, the industry, and policymakers.	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.
6. Effective written communication: Is the manuscript clear and easy to understand? Does the paper use appropriate grammar?	The paper has been edited. Thus it is clear and concise.	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.

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	The authors are needed to read again and again before submitting and avoid mistakes because of carelessness for example the Hypothesis development for H6 is missing and then from H5 jump to H7, and the results for the Hausman tests on models 2 and 3 in the explanation part is not the same with the result on table 3 and the reviewer does not know which one is correct. The authors only change the use of the word we in the abstract but are not changed to the explanation parts.	We apologize for several our mistakes. We have revised it based on reviewer comments. Thank you very much.
1.	I cannot find where is H6?	Thank you for the correction. We have added hypothesis 6 at page 6 with yellow highlight .
2.	Change the word we to others such This Study, Researchers	Thank you for the correction. We have revised it.

No.	Referee Comments	Our Comments
3.	Adjust the format in order inline with the sentence above the table in the right side	Thank you for the correction. We have revised it.
4.	<p>Please back up the text book that allow until 0.8 to mentioned whether there is a multicollinearity problem or not. Because there is a book just sets 0.7 for maximum.</p> <p>The LOANRATIO of Std. Dev of all models are higher than the MEAN. Can you explain further?</p>	<p>Thank you for the correction. Our decision is based on (Gujarati & Porter, 2009: 338). We have added this reference at page 9 with yellow highlight.</p> <p>We apologize for several our mistakes. We have revised it in page 9 with yellow highlight. We have also added the maximum and minimum scores in the full sample. However, we do not add it to POCB and SOCB due to space limitations.</p>
5.	Where do you get this results? In the Table 3 the result for model 2 and model 3 for p-value are 0.000 and 0.000	Thank you for the correction. We have revised it.
6.	Change to to another word	Thank you for the correction. We have revised it.
7.	Model 2 and 3 for FEM	Thank you for the correction. We have revised it. See page 10 with yellow highlight .
8.	Because your Conclusion more than one must be in plural form	Thank you for the correction. We have revised it.
9.	Change the word our	Thank you for the correction. We have revised it.
10.	Usually in conclusion is not mentioned from another author, because already been mentioned in the literature review part (Hypothesis development)	Thank you for the correction. we have removed the reference.
11.	This is not a conclusion, but the recommendation	We have clarified the sentence by adding the word “recommendation” in the sentence. See page 13 with yellow highlight .

Referee 3th

No. & Indicators	Referee Comments	Our Comments
1. Originality: Does the manuscript contain novel and significant information to justify publication? Any suggestions or recommendations?	The manuscript contains novel and significant information to justify the publication. The coefficient is 8.0	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.
2. Literature and research background: Does the manuscript provide enough understanding of the relevant literature in the field? Any suggestions or recommendations?	The literature and research background of the manuscript have provided enough understanding of the relevant literature in the field. The coefficient is 8.0	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.
3. Methodology: Do the manuscripts' arguments establish on a proper base of theory? Any suggestions or comments about research design, data collection, and data analysis?	Yes, the manuscripts' arguments already establish a proper base of theory. The coefficient is 7.5	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.
4. Findings and conclusions: Are the results in the manuscript presented clearly and analyzed appropriately? Do the findings and conclusions adequately identify contributions to theory? Any suggestions or recommendations?	Findings and conclusions the results in the manuscript are presented quite clearly and analyzed appropriately. The coefficient is 7.0	Thank you very much for your evaluation and the constructive comments. These comments are needed for improved the quality of the paper.

No. & Indicators	Referee Comments	Our Comments
5. Research implications: Does the manuscript clearly identify any implications for practice? Any suggestions or recommendations?	Research implications do not clearly identify for practice. The researchers give some recommendations. The Coefficient is 6.8	Thank you very much for your evaluation and the constructive comments. We have revised our recommendation to match recommendations with research results (see page 13-14 with yellow high-light).
6. Effective written communication: Is the manuscript clear and easy to understand? Does the paper use appropriate grammar?	The manuscript is clear and easy to understand. The coefficient is 8.5	Thank you very much for your evaluation and the constructive comments. These comments our needed for improved the quality of the paper.

We really appreciate and thanks you for the constructive comments forwarded by the referee of the paper. We have revised the paper thoroughly based on the referee's suggestion. We believe that incorporating the referee's comments has totally improved the quality of the paper.

Kind regards

Authors

References

Gujarati, D. N. and Porter, D. C. (2009) *Basic Econometrics*. 5th edn. New York: McGraw-Hill/Irwin.

Equity-Based Financing and Corporate Governance: Evidence from Islamic Banks in Indonesia

Abstract:

Equity-based financing (EBF) is a contract that promotes justice, spirituality, and aligned with shariah values. However, EBF in Islamic banks (IB) is lower than in debt-based financing (DBF). This study aims to demonstrate the importance of the characteristics of the board of director (BOD) and the shariah supervisory board (SSB) in the distribution of EBF. This study examines 14 IBs from 2009 to 2020, yielding 153 bank-years. This study found that the education level of the members of the SSB increased EBF. Independent BOD and the size of the SSB reduced EBF. However, when the sample is divided based on ownership, IB that are owned by state/regional government-owned conventional banks (hereafter SOCB) or private-owned conventional banks (hereafter POCB) produce different research outcomes. In SOCB, the SSB plays a larger role in increasing EBF than it does in POCB.

Keywords:

Equity-based financing; shariah supervisory board; Islamic bank risk; debt-based financing

1. Introduction

Islamic banks (IB) are financial institutions that do not use the interest system to collect and distribute funds. This principle gives rise to contracts from financing and deposit products that differ from those offered by traditional banks. One of the products of IBs is financing based on *mudharabah* and *musyarakah* contracts. These products are also known as equity-based financing (hereafter EBF). EBF is a contract that promotes justice because the bank and the customer will share any profits based on the success of the customer's business. If the customer's business fails, the business losses are the responsibility of the bank, unless the loss is due to negligence by the customer (Risfandy et al., 2019). Based on this system, EBF complies with shariah values (Rahman, Latif, Muda, & Abdullah, 2014), it has spiritual value (Hidayah et al., 2019), and is a product that differentiates IB from conventional bank (CB) (Chong & Liu, 2009). On the other hand, another product, namely debt-based financing (DBF) is considered to be less in line with shariah values. The reason is that DBF financing is similar to that offered by CBs, where customers provide a fixed income to the lending bank (Alam &

Parinduri, 2017).

However, the main features of IB have not been optimized. They continue to have low numbers of EBF transactions (Chong & Liu, 2009; Salman & Nawaz, 2018). The dominance of DBF financing over EBF financing shows that IB prefer financing that does not promote justice and spirituality. Warninda et al. (2019) argue that the low levels of EBF are due to the following: (1) The presence of agency problems (Beck et al., 2013); (2) information asymmetry (Warninda et al., 2019; Muda & Ismail, 2010); (3) a moral hazard (Mahmood & Rahman, 2017); (4) high monitoring costs (Hidayah et al., 2019; Rahman et al., 2014). These characteristics make EBF a riskier form of financing than DBF (Ariffin et al., 2009).

The lack of banks offering EBF is the basis for experts to explain this phenomenon. Misman et al. (2020), Warninda et al. (2019), and Mukhibad & Khafid (2018) use the credit risk as the factor causing low levels of EBF. Meanwhile, Risfandy et al. (2019), and Risfandy (2018) use fluctuations in profit sharing and business competition as the factors that cause banks to avoid EBF. To the best of the author's knowledge, there has been no previous study using the structure of corporate governance (CG) as the factor that causes banks to avoid EBF. **Researchers** argue that the structure of CG influences risk taking (Su & Lee, 2013; Koerniadi et al., 2014). CG's structure will influence bank policies, including the alternative types of bank financing offered (Bhat et al., 2020). The second reason is that the renewal of new contracts or products (EBF and DBF) by IB is the responsibility of the entire board of each IB (IFSB, 2005).

The board of directors (BOD) and the SSB act as consultants and supervisors for banking operations, including the development of financing contracts. Due to the complexity of the products and the transaction mechanisms used by IB, Mollah et al. (2017) argue that CG in IB enables them to take greater risks and achieve better performance. Based on these two arguments, **researchers** conclude that CG has an impact on EBF.

This study addresses the shortfall of previous research in many ways. Firstly, it proves empirically the influence of the CG structure on the decision to distribute EBF. Secondly, it uses EBF as an indicator of the risk in IB. Following Ariffin et al. (2009) and Khan & Ahmed (2001), EBF is a risky form of financing. Previous studies have used the credit risk, liquidity, and insolvency as indicators of risk (Mukhibad & Setiawan, 2022; Lee et al., 2020; Alabbad et al., 2019). Thirdly, the study uses a sample of all the IB in Indonesia, as Indonesia uses a two-tier system. This system separates the roles of supervisors (the board of commissioners) and management (the directors board).

2.Hypotheses Development

The BOD has the duty to provide oversight and act as a consultant for the manager in the running of the bank's operations. The reason for the existence of the BOD is to ensure that investments from the owners and other stakeholders are safe; they obtain sustainable returns and increase the bank's value. To realize this goal, the BOD monitors the bank's policies and controls the manager so he/she does not make high risk policies which can have a negative impact on the sustainability of the bank's business.

In carrying out its duties, the BOD requires a variety of expertise, abilities and experience. These skills are needed when they have discussions between the members or with other boards. Safiullah and Shamsuddin (2018) argue that larger boards bring more diverse knowledge, skills, and experience, so they can provide higher quality advice and recommendations. Coles et al. (2008) argue that larger boards are more effective in large and complex companies where these entities require specialized advice.

However, a large board has the opportunity to allow free-riding to occur, thereby reducing the quality of the supervision (Fragal et al., 2018). Although there has been no previous research that explains the effect of the number of members of a BOD on EBF, M. H. Khan et al. (2020), Zeineb & Mensi (2018), and Huang & Wang (2015) prove the effect of the number of members of a BOD on risk taking. Following the opinion of Ariffin et al. (2009) and Khan & Ahmed (2001) that EBF is a risky form of financing, then the IB' policy of channeling EBF is a high risk policy.

H1: Number of members on the BOD has a negative effect on EBF.

Researchers argue that having a BOD with expertise in finance/economics/accounting will improve the quality of the board's supervision and recommendations. Investment risk is the result of evaluating specific investments from an economic and financial standpoint. For example, an investment will be deemed to be a high risk one if the investment is made during a recession. In addition, this investment can be termed as high risk if the potential return is also high and investment in the business sector is less stable. Consideration of this risk uses an economic approach, so that expertise in the field of economics is the main capital for a BOD to easily identify investment risks.

Minton, et al. (2014) found that boards with financial expertise are better able to identify the risks associated with banks' financial instability and can advise managers on how to avoid these risks.

However, Ho, Lai, and Lee (2009) and Minton et al. (2014) found that board expertise in finance supports increased corporate risk taking. The reason for this is that a board containing financial experts has a thorough understanding of their company's financial situation and can encourage the management to take greater risks in the hope of higher returns.

H2: The BOD' expertise in economics/finance/accounting has a positive effect on EBF.

Many experts have provided evidence that board tenure affects the board's performance in providing supervision and consultation to the manager. The impact is that board tenure has been shown to have a positive effect on firm performance (Reguera-Alvarado & Bravo, 2017), the quality of the financial reports (Kim & Yang, 2014) and a negative effect on fraud (Chen et al., 2006). The positive impact of tenure on board outcomes is that tenure allows the board to gain good expertise and develop its knowledge about managing a firm and its business environment (Reguera-Alvarado & Bravo, 2017).

Based on prior studies, **researchers** believe that the experience gained by long-serving board members is an important factor in enhancing a board's ability to identify business risks. The members of a BOD have more experience supervising their bank's operations due to their long tenure, and this further improves their supervision and reduces the bank's risk taking. Bhat et al. (2019) found a relationship between board tenure and company risk using tenure as one of the indicators for determining the diversity in a board's expertise. Fauzi et al. (2017) and Ho et al. (2009) found a negative relationship between tenure and risk taking.

H3: BOD' tenure has a negative effect on EBF.

Agency conflict can occur between management (as the agent) and owners as the principle (type 1), or between majority shareholders and minority shareholders (type 2). To reduce this agency conflict, especially in companies with controlling ownership and the widely dispersed ownership, optimal supervision is needed. An independent BOD is trusted to be able to reduce any agency conflict among the majority and minority shareholders. An independent BOD is in charge of monitoring the management and reducing the possibility of abuse by the large shareholders (IFC, 2014).

An independent BOD oversees the monitoring of the company's risk-taking. According to the agency theory, high risk-taking is frequently caused by information asymmetry between the management and shareholders (Zhang et al., 2018). Previous studies into the role of an independent BOD in monitoring risk have yielded mixed results.

Zhang et al. (2018) found that the presence of an independent BOD increases the risk. The independent BOD may increase the risk because high risk-taking can lead to higher returns and faster growth (John et al., 2008). However, Singh et al. (2019) found that the presence of an independent BOD has a negative impact on risk. According to John et al. (2008), there is the possibility of managers taking excessive risks, so the independent BOD must assert their control so that the management implements a moderate risk policy.

H4: An independent BOD has a positive effect on EBF.

An SSB acts as a supervisor and provides consulting services to the manager. According to Law Number 21 of 2008, the main task of an SSB is to provide advice and consultation to the directors, as well as supervising a bank's activities, in accordance with shariah principles. Even though the object of supervision is to ensure shariah compliance, several researchers have evidence that SSBs play a role in improving banks' financial performance (Nomran et al., 2018; Rahayu & Rasyid, 2019; Farag, Mallin, & Ow-yong, 2018), social performance (Rahman & Bukair, 2013; Fitriyah; Oktaviana, 2007; Mutairi & Quttainah, 2017; Mallin et al., 2014), and risk disclosure (Neifar & Jarboui, 2018). The supervisory and advisory services provided by the SSB have an impact on the bank's performance. Even Mollah and Zaman (2015) argue that an SSB can put pressure on the BOD and management by limiting aggressive and risky projects.

H5: The SSB size has a negative effect on EBF.

In line with the existing concepts in the human resource management theory, a person's educational background influences his/her skills, cognition, and ability if he/she becomes a supervisor or consultant. This is the basis for Nomran and Haron (2019), and Nomran, Haron, and Hassan (2017), who all use the educational background of a person as one of the attributes of the members of an SSB, as this is a factor that can affect the effectiveness of an SSB's outcomes. An SSB serves as a supervisor and consultant for business operations, Matoussi and Grassa (2012), Grassa (2016), and Nomran et al. (2018) argue that the members expertise in economics/finance support an SSB in carrying out its duties effectively. According to Bukair and Abdul-Rahman (2013), the SSB's members with financial knowledge and experience can be more responsible and effective than those members who do not have any financial expertise.

The nature of the SSB's decisions can affect the acceptance of a product. This means that SSB approval certification can affect a bank's business volume, especially when its management has no right to be involved in the decisions of the SSB (Mohammed & Muhammed, 2017). Furthermore, an SSB can only recommend shariah-compliant

and low-risk products. As a result, it can prevent banks from taking excessive risks.

Alman (2012) found that the risk in an IB's portfolio increases with the number of members and the cross membership of the SSB. However, the results of Nomran and Haron (2020) show that an SSB has a negative effect on risk taking. The decision of the SSB will have an effect on a product's acceptance, resulting in shariah-compliance and low-risk products (Nomran & Haron, 2020). In contrast to Alman (2012) and Nomran & Haron (2020), who measure an SSB by the number of members it has, this study measures an SSB by its members' expertise in finance/accounting/economics, with the assumption being that their financial/accounting/economic expertise increases the chance of them identifying any risks faced by the bank (Minton et al., 2014).

H6: SSB's expertise in economics/finance/accounting has a positive effect on EBF.

Higher levels of education are thought to be a good proxy for higher levels of knowledge and intellectual competence (Darmadi, 2013). As a supervisor and advisor to the directors and other boards of a bank, the SSB must have the ability and intellectual competence to carry out its responsibilities. A highly educated SSB member improves bank performance (I. Khan & Zahid, 2020). The education level is a proxy for measuring the human resources' ability to achieve company goals. On this basis, **Researchers** argue that the education level of the members of the BOD will influence the bank's policy to avoid risky policies by decreasing EBF.

H7: The education level of the SSB's members has a positive effect on EBF.

3. Method

This research uses all the IB in Indonesia. Until 2020, there were 14 fully-fledged IB in Indonesia. **Researchers** used a 12-year observation period from 2009 to 2020. There were eight banks that published financial reports during the observation period. However, four banks failed to submit financial statements during the observation period. **Researchers** generated 153 bank-years using unbalanced data. The distribution of the number of observations (based on years and ownership) is presented in Table 1.

Table 1. Number of observations

Based on Years.	Based on ownership
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Year	Observations	SOCB	POCB
2009	8	4	4
2010	10	4	6
2011	12	5	7
2012	12	5	7
2013	13	6	7
2014	14	7	7
2015	14	7	7
2016	14	7	7
2017	14	7	7
2018	14	7	7
2019	14	7	7
2020	14	7	7
Total	153	73	80

EBF has been defined as the ratio of *mudharabah* and *musyarakah* financing to total financing (Risfandy, 2018; Alam & Parinduri, 2017). The size of the BOD (BODSIZE) was determined by the number of members of the BOD. In Indonesia, the functions of bank supervision and management are divided into two tiers. The supervisory function is performed by the board of commissioners, and the management function is performed by the director (Darmadi, 2013). The BOD' expertise (EXPBOD) was measured by the ratio of the members of the BOD with an educational background in finance/accounting/economics to the total number of members of the BOD (Mollah et al., 2021). The independent BOD (INDBOD) was measured by the ratio of the number of independent BOD members to the total number of BOD member. Board tenure (TENBOD) was the average tenure of the members of the BOD in years.

The SSB's size (SSBSIZE) was determined by the number of SSB members (Jabari & Muhamad, 2020). The ratio of SSB members with an educational background in finance/accounting/economics to the total number of SSB members was used to calculate the SSB's expertise (EXPSSB) (Mukhibad et al., 2021). The SSB's education (SSBEDU) was determined by the average last education level of its members' scores (Mukhibad et al., 2021). A diploma or bachelor's degree was given a score of 1, a score of 2 was given for a master's degree, and a score of 3 for a doctoral degree.

Researchers took firm size into account because different sized banks result in different bank risks (Hamid et al., 2020). The natural

logarithm of total assets was used to calculate bank size (SIZE) (Mukhibad et al., 2022). Income diversity (DIVERINC) was calculated by dividing non-operating income by operating income (Mukhibad et al., 2022; Risfandy, 2018). The financing ratio (LOAN) was calculated by dividing the financing by the total assets (Risfandy, 2018).

The data analysis method is a quantitative approach that employs the random effects model (REM) or fixed effects model (FEM). This method was chosen because the ordinary least squares (OLS) method does not take into account a bank's unique characteristics, such as its managerial talent, corporate culture, and CG structure, which can influence decisions about its internal control system (Naheed et al., 2021). Furthermore, this employs a REM if the Hausman and Breusch and Pagan LM tests produce p values > 0.05, and it employs a FEM if both these tests produce p values < 0.05.

The research model was as follows:

$$EBF_{i,t} = \beta_0 - \beta_1 BODSIZE_{i,t} + \beta_2 EXPBOD_{i,t} + \beta_3 INDBOD_{i,t} \\ - \beta_4 TENBOD_{i,t} - \beta_5 SSBSIZE_{i,t} + \beta_6 EXPSSB_{i,t} \\ + \beta_7 SSBEDU_{i,t} + CONTROL_{i,t} + \varepsilon$$

4. Results

4.1. Descriptive Statistics

Table 2 shows that the sample had an average EBF of 32.6%. There were IB with EBF scores of 0.00 and IB with EBF scores of 100%. POCB owned the largest EBF. The maximum number of BOD members was 10, and the minimum number was 5. SOCB has a higher BOD size than POCB. The average independent BOD was 75%, with a maximum value of 100%. There were however, IB with an independent BOD ratio of 33.3%. The independent BOD ratio of SOCB was higher than that of POCB. The SOCB's BOD members had a higher average educational background in finance/accounting/economics (52.3%) than the POCB's (51.2% on average). Furthermore, the SOCB had more experienced BOD members than the POCB had. The average tenure of the SOCB's BOD was 6.794 years, while that of the POCB was 6.404 years.

Demographics of the members of the SSB show that all the samples had an average of 2.315 SSB members, with the highest number being three people and the lowest number being two people. The SOCB also had a greater number of members on their BOD and

SSB than the POCB did. The fact that the SOCB owned more assets than the POCB necessitated the banks having a larger number of board members for both their BOD and SSB. The SOCB had SSB members with a stronger educational background in finance/accounting/economics than the boards of the POCB had. However, the SSB's POCB members had a higher level of education than people employed by SOCB. The average education level of the members of the SSB at a SOCB was 1.900, while the POCB's education level was 2.236. The overall sample's average education level for SSB members was 2.083. This meant that the majority of the SSB members had a master's degree, or higher.

Table 2. Descriptive Statistics

Variables	Panel A Full Sample				Panel B (SOCB)		Panel C (POCB)	
	Mean	Std. Dev.	Min.	Max.	Mean	Std. Dev.	Mean	Std. Dev.
EBF	0.326	0.264	0.000	1.000	0.236	0.157	0.399	0.308
BODSIZE	7.503	1.964	5.000	10.000	7.740	1.972	7.288	1.943
EXPBOD	0.523	0.270	0.000	1.000	0.536	0.234	0.512	0.296
TENBOD	6.590	2.396	0.000	12.833	6.794	3.014	6.404	1.640
INDBOD	0.750	0.284	0.333	1.000	0.664	0.274	0.828	0.271
SSBSIZE	2.315	0.466	2.000	3.000	2.397	0.493	2.250	0.436
EXPSSB	0.332	0.372	0.000	1.000	0.513	0.438	0.190	0.228
SSBEDU	2.083	0.502	1.000	3.000	1.900	0.585	2.236	0.357
LNSIZE	15.35	4.432	10.730	30.430	17.82	5.273	13.34	2.038
DIVERINC	0.447	0.175	0.120	0.897	0.373	0.219	0.506	0.095
LOAN	63.197	17.042	22.294	94.444	65.956	16.754	60.923	17.054

The correlation matrix of all the variables shows that the highest correlation (the correlation between BODSIZE and INDBOD) was 0.777. The correlation between variables was less than 0.8 (Gujarati & Porter, 2009: 338), indicating that there was no problem with multicollinearity. This conclusion was supported by the fact that the highest VIF score was 3.56 (Table 3). The VIF score was less than five, indicating that the model had no multicollinearity.

Table 3 displays the regression results for the three models. Model 1 employed the all sample. Model 2 employed the sample from the SOCB, while Model 3 employed the sample from the POCB. In model 1, the Wooldridge test for autocorrelation yielded a result of

0.155. Model 2 yielded a Wooldridge test probability of 0.0457, while model 3 yielded a probability of 0.1583. A Wooldridge probability score of greater than 0.05 indicated that there was no autocorrelation in the model, and vice versa. The Wald test for heteroscedasticity in the three models yielded a probability of 0.000 (less than 0.05), indicating that all of the models had heteroscedasticity problems. According to the Wooldridge and Wald test, models 1 and 3 had heteroscedasticity issues, while model 2 had autocorrelation and heteroscedasticity problems. Following Hoechle (2007), this study use robust standard errors that lead to consistent results in the presence of heteroskedasticity and autocorrelation problems.

Breusch and Pagan Lagrangian multiplier test on models 1, 2 and 3 produced a p-value of 1.000 and recommended using REM as the data analysis method. A Hausman test on model 1 produced a p-value of 0.215 and recommended using REM. On the other hand, Hausman tests on models 2 and 3 produced a p-value of 0.000 and recommended using FEM. As a result, this study used REM for model 1 and FEM for models 2 and 3. Table 3 also presents the p value of the F-test in models 1, 2 and 3, which was 0.000. This indicated that all the models were fit.

4.2. Model Test Results

Table 3 shows that BODSIZE had a coefficient of -0.020 and a p-value > 0.10 . These findings indicated that the number of members of a BOD had no effect on EBF. The subsample test also revealed that the number of members of a BOD had no effect on EBF by SOCB and POCB. The findings of this study differed from those of M. H. Khan et al. (2020), Y. S. Huang and Wang (2015), which demonstrated the role of the BOD' size in risk taking. The number of members on the BOD increased the board's effectiveness in carrying out its duties because it could reduce agency costs (Nomran et al., 2018). On the other hand, a large board caused issues with free riders, communication, and coordination problems among the board members. As a result, the board's size reduced its performance effectiveness (Lee et al., 2020) and subsequently had no influence on EBF. Furthermore, there is no role in EBF for a number of the members of the BOD, due to the allegation that the BOD does not differentiate between EBF and DBF, as both are permitted by the SSB and regulator.

Table 3 shows that the BOD' expertise (EXPBOD) in model 1 had a coefficient of -0.056 with a p-value > 0.10 . These findings indicated that the members of the BOD with a background in finance/accounting/economics had no influence on EBF. This finding

differed from those of Minton et al. (2014), Ho et al. (2009) and Minton et al. (2014) who all found that the BOD' expertise increased board outcomes. The difference between these findings and previous studies were due to different risk indicators. These findings supported the notion that the BOD made no distinction between EBF and DBF, because both forms of financing were permitted by the SSB and the regulator. The results of this subsample test showed that the members of a BOD, with a finance/accounting/economics educational background had a negative effect on EBF in SOCB. However, in POCB, a BOD with members who had a finance/accounting/economics educational background had a positive influence on EBF. The difference in these results indicated that SOCB IB had effective risk control supervision. The trust of the stakeholders was maintained in state-owned banks by them avoiding risk-taking. On the other hand, POCB IB focused on improving their financial performance to increase customer confidence through risky financing.

Table 3. Model Test Results

	Full Sample	IBs SOCB	IBs POCB
	Model 1	Model 2	Model 3
BODSIZE	-0.020	0.001	-0.046
EXPBOD	-0.056	-0.050**	0.511**
TENBOD	0.012	-0.011	0.031
INDBOD	-0.407*	-0.004	-0.611
SSBSIZE	-0.145**	0.121**	-0.132**
EXPSSB	-0.172	0.043	0.056
SSBEDI	0.232**	0.147**	0.139
LNSIZE	-0.004	0.035***	0.017
DIVERINC	0.317*	0.188	0.210
LOAN	0.002	0.002	-0.001
Cons	0.579	-0.369*	0.494*
VIF – Mean	1.93	3.56	2.04
Wooldridge test (Prob.)	0.155	0.0457	0.1583
Modified Wald test (Prob.)	0.000	0.000	0.000
Breusch and Pagan LM test (Prob.)	1.000	1.000	1.000
Hausman (Prob.)	0.215	0.000	0.000
R-Square	0.0539	0.562	0.384
Probability > F	0.000	0.000	0.000

Notes: The table presents coefficient scores. ***, **, * shows significance at 1%, 5%, and 10% respectively with p-values.

The tenure of the board members (TENBOD) had a coefficient score of 0.012 and a p-value > 0.10. Testing of models 2 and 3 also generated a p-value > 0.10. These findings demonstrated that the

tenure of the members of the BOD did not encourage IB to channel EBF. The findings differed from Reguera-Alvarado and Bravo (2017), who found board tenure had a role in controlling risk. This difference in the results would be because EBF and DBF bring in the same income; there is no difference in the income from EBF and DBF, so the board's experience does not encourage or control the IB channeling EBF.

Table 3 also shows that the independent BOD ratio (INDBOD) had a negative effect on EBF's distribution. These findings supported the findings of John et al. (2008) and Singh et al. (2019) who discovered the role of an independent BOD in risk-taking. The independent BOD, as the representative of the shareholders and owners of deposit funds, carried out effective risk management. The presence of an independent BOD could reduce agency conflict by avoiding risk-taking (Zhang et al., 2018). The presence of an independent BOD for an IB can help to reduce the agency conflict among its stakeholders.

The first attribute of the SSB that explains its effectiveness as a supervisor of IB is the number of members of the SSB. Table 3 shows that the number of members (SSBSIZE) had a coefficient of -0.145 and a p-value < 0.05. The result showed that the number of members of an SSB had a negative influence on EBF. Model 3 also confirmed model 1, indicating that the number of SSB members had a negative influence on EBF. However, using the SOCB sample, this research found that the number of SSB members had a positive effect on EBF. This result strengthens the SSB's role in reducing risk (Nomran et al., 2018). This result also strengthened the agency theory, as IB with a large number of members on the SSB will have significant resources to exercise oversight and avoid risky policies. Although previous research did not explain the role of the number of members of an SSB on EBF, the findings of this study corroborated the findings of Alman (2012) who discovered that an SSB's size had a negative effect on risk-taking.

Table 3 shows that an SSB with members who had a background in finance/accounting/economics (EXPSSB) produced a coefficient of -0.172 with a p-value > 0.10. Models 2 and 3 reinforced the results of model 1. These findings indicated that the expertise of the members of an SSB had no effect on EBF. The findings of this study differed from those of Nguyen (2021), Isa and Lee (2020), Basiruddin and Ahmed (2019), who discovered that an SSB's expertise in finance had a negative effect on risk. An SSB certifies that EBF and DBF are shariah-compliant financing. It does not recommend one type of financing because both forms of financing are in accordance with

shariah principles.

Model 1's test results showed that the education level of the members of an SSB (SSBEDU) had a coefficient of 0.232 and a p-value < 0.05 . The results were supported by the results of model 2, which produced a coefficient of 0.147 with a p-value < 0.05 . These findings suggested that the education level of the members of an SSB had a positive effect on EBF. These findings supported Mukhibad & Setiawan (2022), and Jabari & Muhamad (2021) in that the education level of the members of an SSB had a positive influence on risk-taking. The level of education can provide an SSB with the expertise to recognize the risks and strengths of EBF. EBF has high earning potential, which encourages an SSB to recommend that the bank's manager should channel EBF (Mukhibad & Setiawan, 2022). However, in a POCB, the education level of the members of an SSB had no effect on EBF. The difference in results between SOCB and POCB IB was due to different ownership structures, which caused differences in the policies for supervision by the respective SSBs. POCB and IB bear a greater responsibility for reducing information asymmetry among the stakeholders, so their SSBs must have a greater supervisory role and thus increase their performance than those in SOCB and IB.

5. Conclusions and Recommendation or Implication

This study's findings show that an independent BOD and the number of members of an SSB have a negative influence on EBF. On the other hand, the education level of the members of an SSB has a positive influence on EBF. However, by dividing the full sample based on IB ownership (SOCB and POCB), the results show that the SSB's size and education level have a positive effect on EBF in SOCB. Conversely, the SSB's size has a negative impact on EBF in POCB. The BOD's expertise has a negative effect on EBF in SOCB and has a positive effect on EBF in POCB.

Overall, this research findings show clear differences in the influence of the characteristics of a BOD and an SSB, which might be due to differences in the ownership of each bank. SOCB and IBs, due to the nature of state-owned banks, have poor monitoring, while their BOD tends to be conservative toward risk-taking, to safeguard their jobs.

The BOD and the SSB have been effective in controlling EBF. But in SOCB, an SSB encourages banks to provide EBF. Due to the nature of EBF, this is viewed as high-risk financing, the

department/authority responsible for IBs in Indonesia should take these research results into account and revise the rules and make a greater effort to implement CG reforms for determining the expertise and independence as a requirement to become members of a BOD and educational level as a requirement to become members of a SSB members to better control the risk-taking by IBs. The regulator determines the proportion of independent BOD and the number of members of the SSB to reduce the risk of IB.

This study uses the nature of EBF, which is high-risk financing so that IB should avoid EBF. Recommendations for future researchers can complement this research by empirically proving EBF's risks and profitability. Second, this study uses a sample of banks in Indonesia. Further researchers can expand the sample to include more countries while still focusing on country characteristics.

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Dear Hasan Mukhibad, Ahmad Nurkhin, Santi Susanti, Arim Nasim, Elis Mediawati,

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Dear Mr. Hasan Mukhibad

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