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Board Attributes Matter?

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- 1. Title: Put Islamic banks instead of Shariah banks.
- 2. in Abstract you mentioned 107 fully fledged Islamic banks. in Method you mentioned 72 Islamic banks, however, which one is correct?
- 3. in regards to SSB could you please cite and refer to this this paper (https://www.abacademies.org/articles/the-role-of-shariah-supervisory-board-on-internal-shariah-audit-effectiveness-evidence-from-bahrain-7496. html#:~:text=The%20SSB%20is%20entrusted%20with,Islamic%20Shariah%20rules%20and%20principles.)

Reviewer #2: - The title not reflect the real objective of the study.

- Author used the RRF as a measurement for shariah compliance (Dependent variable), Its big mistake.
- Not compare the findings with previous studies.
- Not highlighted the implications of the study.

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1	Title: Put Islamic banks instead of Shariah banks.	Thank you very much. We use Islamic bank
		in all body manuscript.
2	in Abstract you mentioned 107 fully fledged Islamic	Thank you, we have revised it. (See page 1
	banks. in Method you mentioned 72 Islamic banks,	with yellow highlight)
	however, which one is correct?	
3	in regards to SSB could you please cite and refer to this	Thank you. We have added this reference
	this paper	(see 37th reference, page 25 with yellow
	(https://www.abacademies.org/articles/the- role- of-	highlight).
	shariah-supervisory-board-on-internal-shariah- audit-	
	effectiveness-evidence- from-bahrain-7496.html#:~:	
	text=The%20SSB%20is%20entrusted%20with,	
	Islamic%20Shariah%20rules%20and%20principles.)	

Referee 2

No	Referee Comments	Our Comments
1	Author used the RRF as a measurement for shariah	We understand that shariah compliance is
	compliance (Dependent variable), Its big mistake.	based on the conformity of bank product
		contracts with Islamic scholars' (ulama)
		fatwas. However, scholars (Chong and
		Liu (2009), Yusof et al. (2015), Hamza
		(2016), Samad (2018), Korkut and Özgür
		(2017), Adewuyi and Naim (2016), and
		Cevik and Charap (2011), (Šeho, Bacha
		and Smolo, 2020)) emphasizes shariah

		compliance based on interest free returns for Investment Account Holders (IAH) We use this assumption as an indicator of sharia compliance. We assert this method in the abstract section (see page 1 with wellow highlight)
		yellow highlight). We also mention this method in the section on the limitations of the study and recommend that future researchers develop other indicators of shariah compliance.
2	Not compare the findings with previous studies.	We have added it on the page 14-16 with yellow highlight.
3	Not highlighted the implications of the study.	We have added the implications of the study (theoretical and practical) on the pages 19-20 with yellow highlight.

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.

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OPEN INNOVATION IN SHARIAH COMPLIANCE IN ISLAMIC BANKS-DOES

SHARIAH SUPERVISORY BOARD ATTRIBUTES MATTER?

ABSTRACT

This study extends the literature on shariah compliance in Islamic banks (IBs) based on interest free

returns for Investment Account Holders (IAH) and to examine the role of the attributes of the shariah

supervisory board (SSB) on shariah compliance. The study sample included 102 fully-fledged IBs

from 27 countries over the period from 2010 to 2019. We use panel data estimation techniques and the

system generalized method of moments (GMM) estimation to address potential endogeneity concerns.

The results show that banks with more members on their SSBs are likely to have less shariah

compliance. The findings also indicate that cross-membership and economic/finance/accounting

expertise of SSB has positive impact on shariah compliance. This impact of SSB to increase shariah

compliance is more pronounced in unlisted IBs than listed IBs. The results can be used by different

stakeholders such as policy makers, bank supervisory agencies, other boards, and managers of IBs to

mitigate shariah compliance.

Keywords: interest free, Islamic corporate governance, resource dependence theory

1. INTRODUCTION

The main objective when establishing an Islamic bank (IB) is to provide shariah-compliant

banking services (ie. free of interest). The presence of the shariah supervisory board (SSB) guarantees

shariah-compliant banking operations. The SSB, as a multi-layered board in an IB, in collaboration

with the bank's board of directors (BOD), provides advice and consultation to managers in carrying

out banking operations. The SSB carries out its duties by conducting audits (ex-ante and ex-post) of

all IB transactions on a monthly basis [1].

IBs face a difficult challenge in ensuring that their operations comply with shariah

requirements. A profit and loss sharing (PLS) scheme is used, instead of an interest system, by IBs.

The PLS scheme has the consequence that IBs cannot provide or receive fixed returns like a

conventional bank (CB) can. The existing regulatory infrastructure is suitable for CBs. This condition

causes IBs to adjust their operations to bring them in line with the IBs' obligation to conduct legal and

sharia-compliant transactions [2]. In addition, the behavior of customers who demand that IBs provide

competitive returns like those of CBs adds to the complexity of Islamic banking operations. Evidence

of a decrease in the return on the deposit rate (RDR) causes IBs to face deposit withdrawals because

customers choose to move their deposits to CBs [3] [4], thus encouraging bank managers to provide returns that are as competitive as those of CBs.

Previous studies into the RDR of IBs have tended to conclude that IB deposit products are not interest free. Chong and Liu [5], using monthly data from IBs in Malaysia, found that there is a correlation between the return deposit rate (RDR) in IBs and the interest rate, in the long or short term. The correlation between the RDR and the interest rate shows that IBs provide an RDR based on the interest rate [5]. Yusof et al. [6], using a sample of 18 IBs in gulf countries found that, in the long term, there was no relationship between the RDR and interest rates. But in the short term, the RDR in IBs in Saudi Arabia was correlated with the interest rate. Hamza [7], using a sample of 60 IBs from around the world, found that interest rates have a positive relationship with the RDR in IBs. Samad [8], using monthly IB data from Bahrain, found that the RDR in IBs and the interest rate are not independent of each other, they both follow one another. Similar findings are also evidenced by Korkut and Özgür [9], Adewuyi and Naim [10], and Cevik and Charap [11], who all found that the potential returns of the investment products of IBs are not interest-free. Meanwhile, this correlation between the RDR and the interest rate shows that IBs are not interest free [5]. This is contrary to the main foundation of Islamic finance, which is the avoidance of interest [12].

Research into interest-free IB investment products by previous researchers did not focus on the role of the SSB in avoiding the linkage of the RDR in IB investment products with interest rates. The previous studies emphasized the correlation between the RDR and the interest rate. We complement the previous studies by evaluating the role of the SSB in providing interest-free investment products. In measuring the effectiveness of the SSBs' outcomes, we use five of the SSBs' attributes: the number of members, their education level, their gender, cross-membership, and their expertise in the economics/business/accounting fields. This is the first contribution of this study toward expanding the corporate governance literature; we emphasize the SSBs' attributes regarding bank compliance in accordance with shariah requirements.

Second, following Šeho et al. [12], interest rate avoidance is an indicator of a bank's compliance with shariah principles. This research contributes to the expansion of shariah compliance indicators in IBs. Mukhibad et al. [13], [14], Muhammad *et al.* [15], Basiruddin and Ahmed [16], Fakhruddin and Jusoh [17], and Nurkhin *et al.* [18] instigated a discussion on shariah compliance in IBs. However, they did not use the level of interest-free investment products as indicators of the banks' compliance with shariah principles. Shariah compliance indicators, developed by previous researchers, include zakat expenditure [13], the non-halal income ratio (Mukhibad, Nurkhin, *et al.*, 2022; Basiruddin and Ahmed, 2019), legal and social requirements [15], shariah board disclosures [17], and the profit-loss sharing financing ratio [18].

The reminder of our paper proceeds as follows. The second part of this paper describes the materials and methods, including the theory, the development of hypotheses, and the methods. The third section describes the results of the data's analysis. The fourth section describes the discussion. The last section is the conclusion.

2. Materials and Methods

2.1. Corporate Governance in Islamic Banking

Corporate governance (CG) is a set of governance systems and structures, involving a series of relationships between a management firm, its board of directors, shareholders, and other stakeholders [19]. CG provides a corporate structure to achieve the objectives of the entity and to improve its performance, by involving both the corporate sector and society [20]. In a narrow sense, CG is a system that can reduce agency problems [21] [22]. The effectiveness of the CG structure will increase the monitoring and transparency of the entity, and help reduce information asymmetry and agency conflicts between shareholders and agents [23] [24].

The agency theory emphasizes the relationship between agents and principles, focusing on the behavior of agents who have self-interests. However, such self-interested behavior can also occur in principals [25]. Agency conflicts might also occur between the majority and minority shareholders. Majority shareholders (blockholders) could force the manager to make policies that benefit their interests. Blockholders have greater voting power, can make decisions in their own interests, and hinder the interests of the minority owners [26]. This conflict between majority and minority owners is known as the second type of agency conflict [25]. A third type of agency conflict occurs between owners and creditors [27]. Owners can use the funds they receive from creditors to finance high-risk projects [14]. This policy causes the creditors to face great potential risks because, if the owner's plans fail, this can cause losses to the creditors through delays in interest payments, as well as the restructuring of maturing debts [25].

In the study of Islamic finance, scholars believe that there are agency problems with IBs' products [28][29]. The profit and loss sharing system allows customers to report a less than real business performance. In this case, there is a problem of information asymmetry between the customer and the bank [30][31] and a moral hazard [32][33]. In addition, agency conflicts can also occur if the directors of an IB take advantage of investment opportunities that allow for high profits, and neglect shariah compliance [34]. The absence of direct supervision, by investment account holder (IAH) fund owners, over the policies of a bank's directors increases this opportunity. This is contrary to the goal of IAH fund owners, who seek to obtain a halal income according to shariah requirements [34]. Thus,

this situation creates an agency conflict between the directors and customers who own IAH funds, as the director manages the IAH funds without paying attention to shariah compliance [14].

One approach for reducing this agency conflict is to establish a supervisory board to control the behavior of the directors [14]. Effective controls cause the directors to act in the interests of the IAH fund owners. In the CG structure of IBs, the SSB is a unique board in an IB, it has responsibility as a supervisor and consultant to other boards, so that the bank's operations are in accordance with shariah requirements [35]. An SSB conducts audits (ex-ante and ex-post) of all IB transactions on a monthly basis [1]. The Accounting and Auditing Organization for Islamic Financial Institutions (AAOIFI) describes an SSB as "an independent body of specialized jurists in *Fiqh-al-Muamalat* (Islamic commercial jurisprudence) to ensure that Islamic financial institutions are in compliance with shariah principles" [36]. The audits are to ensure that the IB's operations are in accordance with shariah principles [37]. Thus, the SSBs play a role in reducing the agency problems in IBs [22] [37].

2.2. Hypotheses Development

The main indicator in measuring the effectiveness of an SSB is the number of members it has [38] [39]. Each SSB has the task of monitoring and providing consulting services to other boards when making banking business policies, so that the policies are in accordance with shariah regulations. In carrying out their duties, having more members is more profitable for IBs, because the banks have the ability to choose members with various expertise, education levels, experience, and different networks [7]. In addition, a larger SSB allows a bank to be more efficient in meeting the ever-evolving need for consumer products [40]. The demand from customers for banking services constantly changes. These changes in consumer needs have become the basis for banks to innovate through the issuance of new products. In the CG structure, new products must be approved by the SSB before being introduced to customers. In the process of granting this approval, the SSB conducts a product review, a larger SSB (ie. more members) increases the effectiveness of the review process because its members can share the tasks. Thus, there is a positive influence between the number of people on the SSB and bank performance [40] [41] [1].

H1: The number of members on an SSB has a positive effect on shariah compliance.

The education level of a board's members is a factor used by scholars when evaluating the board's effectiveness in monitoring managers and limiting their opportunistic behavior. An SSB, as a consultant and supervisor of bank operations, requires certain qualifications to support it in carrying out its duties. A person's level of education is the main proxy for measuring human capital, the knowledge base, or intellectual competence [42]. Education is also a unique measure of the level of professionalism of the board [43]. Boards with members who had a higher level of education can help

create wealth and provide complex information. The level of education also shapes the way the board's members think and their views when making decisions [44]. The process of evaluating the suitability of a product to comply with shariah principles requires adequate intellectual competence, so that the SSB's decision becomes more precise.

H2: The education levels of the members of an SSB have a positive effect on shariah compliance.

The limited number of people qualified to be SSB members allows the members to sit on the SSBs of many banks. A board member who sits as a member on other entities is called a busy member [45] [46]. In the approach of the resources dependence theory (RDT), an SSB's duties enhance the ability, experience, and expertise of its bank. These duties mean SSB members become involved in making business decisions for other entities and discussions with the boards of the other entities. In addition, their duties cause the SSB members to observe the operations of other entities, and they may allow them to be practiced by the banks. Hence, the duties of the SSB increase the performance of the banks [46] [47].

H3: The cross-membership of the SSB members have a positive effect on shariah compliance.

To ensure the conformity of bank operations with shariah principles, each SSB conducts monthly ex-ante and ex-post audits of all Islamic banking transactions [1]. Ex-ante audits are carried out by evaluating each bank's products before they are introduced to customers. This evaluation concerns the suitability of the product, in terms of it meeting shariah requirements. However, the evaluation also looks at the economic aspects of the product. Bank products must comply with shariah requirements, meet customers' needs, and have high economic value to increase the bank's performance, in accordance with shariah requirements. The expertise of the SSB members in the fields of economics/finance/accounting could increase the SSB's effectiveness in carrying out its task. An SSB functions as a supervisor and consultant for other boards' needs for expertise in the business, economics, and finance fields, as well as *fiqhmuamalat* [48]. Nomran and Haron [49], and Grassa and Chakroun [50] have proven that the expertise of SSB members in finance/banking/accounting increases the effectiveness of that SSB..

H4: The expertise of SSB members in the finance/banking/accounting fields has a positive effect on shariah compliance.

Cardillo [51], Đặng *et al.* [52], and Adams and Ferreira [53] use gender as an indicator of board effectiveness, where the presence of women in the boardroom improves the quality of the supervision. In the psychological-economic theory's approach, women who sit on boards are more effective in substantively monitoring the performance of directors than men's are [54]. So, the women members of an SSB improve the financial performance of the bank [51].

An SSB is an independent board which specifically exists in IBs [55], and plays an important role as an internal control mechanism with the task of supervising the activities of the banks [56]. Women are considered more conscientious in supervising and auditing bank policies. An SSB acts as an auditor to ensure the conformity of its bank's operations with shariah principles [1]. Thus, female SSB members are more effective at supervising and auditing bank policies that are not in accordance with shariah requirements.

H5: The gender of the members of an SSB has a positive effect on shariah compliance.

2.3. Method

This study used 102 IBs in 27 countries. The banks were observed for a period of 10 years (2010 to 2019). Financial and SSBs' demographic data were hand collected from the IBs' annual reports, while data for GDP growth and interest rate is taken from the World Bank website. We detail the study's sample in Table 1.

Table 1. Research sample

Panel A: Based on Count	ry		Panel B: Based on Year				
Country	∑Banks	∑bank-year observations	%	Year	∑bank-year observations	%	
Bahrain	16	144	16.53	2010	40	4.59	
Bangladesh	3	23	2.64	2011	57	6.54	
Brunei Darussalam	1	7	0.80	2012	70	8.04	
Egypt	1	8	0.92	2013	86	9.87	
Indonesia	14	120	13.78	2014	96	11.02	
Iraq	2	13	1.49	2015	100	11.48	
Islamic Republic of Iran	1	7	0.80	2016	103	11.83	
Jordan	1	5	0.57	2017	106	12.17	
Kuwait	7	67	7.69	2018	107	12.28	
Malaysia	19	181	20.78	2019	106	12.17	
Nigeria	1	6	0.69				
Oman	2	11	1.26				
Pakistan	8	70	8.04				
Palestinian Territories	1	10	1.15				
Philippines	1	5	0.57				
Qatar	3	28	3.21				
Saudi Arabia	4	32	3.67				
Seychelles	1	9	1.03				
Singapore	1	7	0.80				
South Africa	1	10	1.15				
Sri Lanka	1	6	0.69				
Sudan	2	18	2.07				
Thailand	1	9	1.03				
Tunisia	1	8	0.92				

Turkey United Kingdom	3 5	23 36	2.64 4.13		
_	of 1	8	0.92		
Total	102	871	100	871	100

This research focused on interest free IBs products. Our data sources presented the annual data and profit-sharing expenses issued by the IBs to the owners of IAH funds, regardless of the type of the IAH fund's products (e.g deposit products, savings products). Based on these limitations, we measured the return deposit rate (RDR) for IAH funds with the following formula:

$$RDR = \frac{\text{Profit} - \text{sharing expenses for IAH fund}_{i,t}}{Average \ of \ IAH \ fund_{i,t}} x 100$$

We identified changes in the RDR of the IAH funds compared to changes in the interest rate (hereafter the return rate flexibility-RRF), to use as indicators to evaluate interest free IAH products. A low RRF score indicated that the IAH product tended not to be interest free, due to the small difference between the changes in the interest rate (IR) and changes in the RDR. A low RRF score indicated that a change in the IR was followed by a change in the RDR, otherwise, we use absolute score to avoid a negative score of RRF.

$$RRF = |\Delta RDR_{i,t} - \Delta IR_{i,t}|$$

Table 2. Measurement variables

Variable	Definition	Measurement	Data source			
Name						
Dependent Va	riables					
RRF	Return Rate Flexibility	$RRF_{t,1} = \left \Delta RDR_{i,t} - \Delta IR_{i,t} \right $	Hand collected from the IBs' annual			
		Δ RDR is the change of the RDR in an IB.	reports			
		Δ IR is the change of interest rate in an CB.				
		A higher RFR indicates that the deposit product of the IB is interest-free				
Independent V	'ariables					
SSBSIZE	SSB size	The total number of members of the SSB	Hand collected from the IBs' annual reports			
EDUSSB	Education level of the SSB members	The average score of the education levels of the SSB members.	Hand collected from the IBs' annual reports			
		The education level is calculated using five categories: 1 = Technical				

		secondary school and below, 2 =	
		Associate degree, 3 = Bachelor, 4 = Master's and 5 = PhD	
BUSYSSB	Cross-membership of	The average score of cross-	Hand collected from
	the SSB members	membership of SSB.	the IBs' annual
			reports
EXPSSB	SSB expertise	The percentage of SSB members with	Hand collected from
		an economics/business/ accounting education background.	the IBs' annual reports
		eddedion background.	Теропіз
		It takes a value of 1 when the SSB	
		members have an education	
		background in economics/business/accounting, zero if otherwise.	
GENSSB	SSB gender	The percentage of women members of	Hand collected from
	C	the SSB.	the IBs' annual
			reports
Control Varia			
BODSIZE	BOD size	The total number of members on the BOD	Hand collected from the IBs' annual
		вор	reports
AUDSIZE	Audit committee size	The total number of members on the	Hand collected from
		audit committee.	the IBs' annual
DIII	T 11 1.		reports
DIV- INCOME	Income diversity	Ratio of non-financing income to total	Bank scope data based – self-
INCOME		operating income	processed – sen-
IAH	Investment account	Ratio of deposit or investment account	Bank scope data
	holder ratio	holders to assets	based – self-
CLZE	TD (1) (1)	T : 11 C	processed
SIZE	Total asset bank	Logarithm of natural total asset	Bank scope data based – self-
			based – self- processed
GDP	GDP growth	The percentage annual growth rate of	Word bank
	, and the second	per capita GDP	
Muslim	Muslim population	Percentage of population who are	Pew Research Center
		Muslim	and World
			Population Review

Estimation method:

 $RRF_{1,t}\!\!=\!\!\beta_0 \quad +\beta_1 \quad SSBSIZE_{1,t} \quad +\beta_2 \quad EDUSSB_{1,t} \quad +\beta_3 BUSYSSB_{1,t} \quad +\beta_4 EXPSSB_{1,t} \quad +\beta_5 GENSSB_{1,t} \\ \quad +CONTROL_{1,t} +\epsilon$

3. Result

3.1. Descriptive Analysis

Table 3 presents the descriptive variables. The smallest RRF score was zero and indicated that there were samples that were not interest free (less shariah compliance) because there was no difference between the RDR and IR. The average RRF score of 0.29 indicated that the sample showed a small difference between the changes to the RDR and IR. These results indicated that the IAH of the product from the IBs was indicated to be no interest free or less shariah compliance. However, there were samples that had an RDR of 8.23 which showed the IBs that there was a difference between the changes to the RDR and IR of 8.23% (high shariah compliance).

Table 3. Descriptive statistics

Variable	All Banks						Listed Banks		Unlisted Banks		Two-sample t test
	Mean	Std. Dev.	Min.	Max.	VIF	1/VIF	Mean	Std. Dev.	Mean	Std. Dev.	
RRF	0.29	0.64	0.00	8.23	-	-	0.242	0.478	0.326	0.740	-2.081**
SSBSIZE	3.88	1.21	2.00	6.00	1.400	0.715	3.946	1.109	3.839	1.288	1.444
EDUSSB	3.64	1.52	1.00	5.00	1.830	0.548	3.763	1.184	3.542	1.726	2.431**
BUSYSSB	3.79	2.04	1.00	9.57	1.360	0.734	4.327	2.269	3.384	1.751	7.288^{\dagger}
EXPSSB	26.25	13.81	0.00	100.00	1.490	0.670	38.819	165.865	16.808	42.818	2.738***
GENSSB	4.02	15.03	0.00	100.00	1.590	0.630	1.571	6.994	5.854	18.739	-5.120^{\dagger}
BODSIZE	8.71	2.08	3.00	16.00	1.160	0.862	9.240	1.968	8.312	2.069	7.638^{\dagger}
AUDSIZE	3.64	0.88	2.00	8.00	1.200	0.832	3.685	0.785	3.604	0.949	1.499
DIV-INCOM	21.91	115.52	-3,579.14	408.33	1.280	0.782	24.920	25.034	19.645	151.518	0.727
LNSIZE	14.38	1.86	7.53	18.44	1.180	0.851	14.739	1.859	14.103	1.818	5.523^{\dagger}
IAH	58.09	27.60	0.01	158.66	1.300	0.768	63.499	25.270	54.005	28.590	5.649^{\dagger}
GDP	3.83	3.07	-17.00	19.59	1.070	0.938	3.611	3.558	3.992	2.640	-2.021**
MUSLIM	71.07	25.74	1.06	99.80	1.310	0.765	80.739	15.054	63.752	29.469	12.084 [†]

^{†, ***, **, *} significantly different from zero at 0.1%, 1%, 5% and 10% levels

The IBs had an average of 3.88 members on their SSBs. The largest number of SSB members was six people and the smallest number was two. The average education level of the SSBs' members was 3.64, the minimum score was one and the maximum score was five. These results indicated that most of the SSBs' members had a master's degree level of education (score four). However, there were SSB members who had a technical secondary school education level.

The CROSSSSB average score was 3.79. These results indicated that the SSBs' members sat on the SSBs of four banks. However, there were also IB members who sat on the SSBs of nine banks. These results indicated that some SSB members were very busy. Regulators in some countries require certain qualifications to become a member of an SSB. This requirement causes a shortfall in the number of people qualified to be SSB members. The lack of SSB members has caused several members to be SSB members in many IBs.

The number of SSB members who had expertise in finance/banking/accounting was low because the average EXPSSB score was 26.25%. There were IBs that had an EXPSSB score of zero. indicated that the ΙB did not have any SSB members with expertise The **EXPSSB** finance/banking/accounting. low because expertise in score was finance/banking/accounting is not the main requirement to becoming an SSB member. The IB regulators require that IB members must be experts in muamalat figh [36]. The presence of women as SSB members was also low, at 4.02%. The low number of women sitting on the SSBs was because the members of SSBs are usually Islamic religious experts (ulama), and most of these are men [57].

Table 4. Matrix correlation

	RRF	SSBSIZE	EDUSSB	BUSYSSB	EXPSSB	GENSSB	BODSIZE	AUDSIZE	DIV- INCOME	LNSIZE	IAH	GDP	MUSLIM
RRF	1												
SSBSIZE	-0.171	1											
EDUSSB	-0.042	0.085	1										
BUSYSSB	0.113	-0.212	-0.201	1									
EXPSSB	0.069	0.225	-0.350	-0.193	1								
GENSSB	0.061	0.011	-0.507	0.041	0.374	1							
BODSIZE	0.026	0.152	0.025	0.154	-0.065	-0.146	1						
AUDSIZE	-0.122	0.280	0.104	-0.128	-0.005	-0.243	0.111	1					
DIV-INCOME	0.003	0.081	0.337	0.113	-0.116	-0.157	0.018	0.075	1				
LNSIZE	-0.236	0.226	-0.037	0.123	0.025	0.024	0.001	0.120	0.065	1			
IAH	-0.016	0.020	-0.153	0.169	0.194	0.055	-0.138	-0.010	-0.101	0.263	1		
GDP	-0.040	0.023	-0.044	0.028	-0.105	-0.064	-0.103	0.016	0.029	0.060	0.072	1	
MUSLIM	0.099	-0.274	-0.221	0.203	-0.012	0.167	-0.028	-0.198	0.094	0.046	0.232	-0.060	1

3.2. Regression Panel Data Analysis

Table 4 shows the correlation scores between the independent variables. This table is the result of a multicollinearity test. A correlation score of <0.8 indicated there was no multicollinearity. The biggest correlation between the independent variables was -0.507 (correlation between EDUSSB and GENSSB). These results indicated that there was no multicollinearity in the model. The variance inflation factor (VIF) score also confirmed our results. Table 5 shows that the model had an average VIF score of 1.350. The VIF score of all the variables (Table 3) was less than 10, indicating that there was no multicollinearity problem.

Table 5. Regression model findings

	Pooled F	Regression M (Model 1)	ethod	· ·	GLS Regression Method (Model 2)				
RRF	Coef.	Robust Std. Err.	Prob.	Coef.	Robust Std. Err.	Prob.			
SSBSIZE	-0.144**	0.061	0.018	-0.161*	0.083	0.054			
EDUSSB	0.068	0.056	0.226	0.043	0.067	0.520			
BUSYSSB	0.107^{***}	0.036	0.003	0.111^{***}	0.040	0.005			
EXPSSB	0.096^{***}	0.032	0.003	0.097^{**}	0.045	0.032			
GENSSB	0.003	0.004	0.527	0.003	0.005	0.573			
BODSIZE	0.030	0.032	0.352	0.037	0.031	0.233			
AUDSIZE	-0.067	0.066	0.316	-0.064	0.063	0.314			
DIV-INCOME	0.011	0.055	0.843	0.036	0.065	0.584			
LNSIZE	-0.227^{\dagger}	0.044	0.000	-0.226^{\dagger}	0.064	0.000			
IAH	0.000	0.003	0.962	0.000	0.003	0.891			
GDP	-0.001	0.022	0.981	0.007	0.022	0.752			
MUSLIM	0.004	0.003	0.209	0.003	0.004	0.467			
_cons	0.383	0.800	0.632	0.378	1.002	0.706			
Breusch & Pagan LM (Prob.)			0.0	000					
Mean VIF			1.3	350					
Wooldridge (Prob.)			1.1	.53					
Modified Wald test			0.0	000					
(Prob.)			0.0	,00					
Hausman			0.6	561					
R-sq		0.107			0.106				

^{, ***, **} significantly different from zero at 0.1%, 1%, 5% and 10% levels

The Breusch and Pagan Lagrangian multiplier test resulted in a p-value of 0.000 and indicated that there was heterogeneity of the data between the samples. This test recommends using random-effects GLS regression. The Woolridge test for autocorrelation in the data panel yielded an f-score of 1.153 and a probability of 0.286. The results of this test showed that there was no autocorrelation in

the model. The modified Wald test produced a chi2 score of 7,640.65 and a probability of 0.000. The results of this test indicated that there was heteroscedasticity in the model. Following Chamberlain et al. [58] and Almutairi and Quttainah [1], we used pooled ordinary least squares (OLS) and GLS regressions with robust standard errors to overcome the problem of heteroscedasticity in the model [59]. Table 5 shows the results of the OLS and GLS regression methods with robust standard errors.

4. Discussion

Table 5 shows that SSBSIZE had a coefficient of -0.144 (model 1) and -0.161 (model 2) with a probability of 0.018 (model 1) and 0.054 (model 2). A probability score of <0.10 would reject the null hypothesis and indicate that SSBSIZE had a negative effect on the shariah compliance. The results of this test indicated that the number of SSB members encouraged banks to provide RDR equal to the interest rate. From the perspective of the agency theory, having more SSB members increases the effectiveness of the SSB. Having more SSB members also means the IBs have members with different backgrounds, experiences, and expertise [7]. However, having too many members causes ineffective coordination and communication between the members and allows free riders to exist [60] [61]. This does not positively or negatively affect the performance of the board [14].

Our study shows that having a large number of SSB members causes the IB not to have interest free products, because the bank provides RDR according to the interest rate. SSBs are responsible for ensuring that all transactions and bank products comply with shariah principles. The assessment of whether a transaction or product complies depends on the collective interpretation of each of the SSB's members [38]. The interpretation of an IB's policy to provide RDR according to the IR may differ between SSB members. Having more members can make it more difficult for the SSB to reach an agreement on a legal issue in the IB's policy [38]. In addition, disagreements between SSB members mean it can take a long time and be costly to reach agreement among the members. This condition causes an SSB with many members to be less effective in carrying out its supervisory duties [14]. This result is support of Muhammad et al. [15], which show that the SSB size negatively influences shariah compliance of IBs.

The regression test resulted in EDUSSB coefficient scores of 0.068 (model 1) and 0.043 (model 2). Both models produced a probability score of more than 0.10, which indicated that the education levels of the SSB members had no effect on the shariah compliance. SSBs have supervisory and consultancy functions for other boards, which requires knowledge, and intellectual competence. The level of a person's education is an indicator of his/her intellectual competence [42], as well as the level of professionalism of the board [43]. However, not all intellectual competencies can support the effectiveness of an SSB in carrying out its duties. A higher education for SSB members in fields other

than *fiqh muamalat* causes an SSB to reduce its ability to evaluate the suitability of bank policies/products against shariah principles. Thus, the academic abilities and competencies of an SSB's members are not easily applied to the supervision of bank operations [57]. SSB members who have a higher educational level and an educational background in Islamic law/shariah increase the effectiveness of the SSB and ensure that the bank has halal product innovations that can meet consumers' needs. We is reinforced by the findings of Jabari and Muhamad [57] and Mukhibad and Setiawan [62] that the educational level of SSB members does not influence SSB outcomes.

Table 5 shows that BUSYSSB had coefficients of 0.107 (model 1) and 0.111 (model 2). The test of both models resulted in p-values of 0.003 (model 1) and 0.005 (model 2). The results of this test indicated that SSB members who were employed on more than one board had a positive effect on the shariah compliance. Those who sit as SSB members for many IBs are busy members [38]. In the RDT approach, a busy board member is a superior resource because he/she causes the SSBs to frequently be involved in decision making for the various entities. The member's involvement in many entities enhances the SSBs' capabilities as supervisors and consultants for the managers and other boards in Islamic banking business decision-making. Busy SSB members also cause other SSB members to be involved in the operations of various banks, they can observe these banks' operations and eventually gain new knowledge and understanding. Hence busy SSB members reduce the agency costs between directors and customers by increasing bank operational guarantees, in accordance with shariah principles. This result is in support of Mukhibad and Setiawan [63] who found that SSB busyness has been effectively used as access to resources that can increase the ability of SSB to control liquidity, strategic, and shariah compliance risk.

The regression test of model 1 in Table 5 showed that EXPSSB had a coefficient of 0.096 and a p-value of 0.003. Model 2 produced a coefficient of 0.097 and a p-value of 0.032. The test of both models produced positive coefficient values and p-values of < 0.5, which indicated that the SSB members' expertise in economics/business/accounting had a positive effect on the shariah compliance, at the 5% level. Each SSB must ensure that its bank's products comply with shariah requirements. One indicator of a product's conformity to shariah principles is that the bank provides RDR, which is not related to interest. SSBs conduct audits (ex-ante and ex-post) on a monthly basis on all IB transactions [1]. The expertise of the SSB members in finance/banking/accounting enables them to evaluate products and identify transactions or policies that are not interest-free. In practice, IBs make contract modifications, especially to contracts that use the profit and loss sharing (PLS) system [64]. To be able to evaluate these products' modifications, the SSB members need to have academic competence in finance/banking/accounting, so that the expertise of the members reduces the directors' opportunities to adopt policies that ignore shariah principles. Similarly, Muhammad et al. and Mnif et al. assert that

expertise of SSB members in finance/economic positively influences shariah compliance of IBs [15] and AAOIFI's disclosure requirements [65].

GENSSB produced a coefficient of 0.003 and a p-value of 0.527 (model 1). Testing model 2 produced a coefficient of 0.003 and a p-value of 0.573. The test results of both models produced p-values of more than 0.10, indicating that the percentage of women SSB members had no effect on the shariah compliance. SSBs guarantee that banking operations are in accordance with shariah requirements. An SSB can act as an auditor to carry out its duties [1]. Female auditors are more conscientious when auditing than male ones are [51] [52] [53], but we did not find that female SSB were able to increase shariah compliance. The female SSB was not able to avoid the director's opportunistic policy of providing RDR in accordance with the interest rate. Moreover, this study showed that gender differences between the SSB members did not cause differences in identify interest free return for IAH product. Studies into the gender diversity of SSBs also provide evidence that there is no difference in the performance of SSBs with male and female members [54], [57], especially in ensuring the compliance of bank operations with shariah. This result is in support of Jabari and Muhamad [57] and Mukhibad et al. [66] who not found that the interaction effect of gender SSBs and SSB outcomes.

4.1. Sub-sample Regression Test

Previous studies into corporate governance have reported differences between IBs that are listed and unlisted [57], [67]. The difference in the effectiveness of the CG on listed and unlisted banks is because the two types have different characteristics, including in their information disclosures [68], differences in the effectiveness of their BOD [69] and their SSB [57]. The differences in the characteristics of listed and unlisted IBs are shown in the descriptive statistics for all the variables in Table 3.

The GLS regression of listed and unlisted IBs (Table 6) showed that the number of members an SSB had caused a negative effect on the shariah compliance for listed banks. Listed IBs experience a lot of pressure from their shareholders, investors, and IAH fund owners to match the competitive performance their CB counterparts enjoy. This pressure encourages IBs managers to adopt a policy of providing an RDR which is equal to the interest rate. These results indicate that an SSB with many members leads to ineffective coordination and communication between its members, causing a decrease in the SSB's outcomes [14] [70].

Table 6 Regression of listed and unlisted IBs

		Listed		Unlisted				
RRF	Coef.	Robust Std. Err.	Prob.	Coef.	Robust Std. Err.	Prob.		
SSBSIZE	-0.221*	0.117	0.058	-0.142	0.114	0.214		
EDUSSB	-0.096	0.100	0.337	0.136*	0.077	0.077		
BUSYSSB	0.131**	0.059	0.026	0.166**	0.069	0.016		
EXPSSB	0.081	0.074	0.272	0.145**	0.057	0.011		
GENSSB	0.010	0.008	0.193	0.003	0.005	0.557		
BODSIZE	-0.066	0.050	0.184	0.059	0.040	0.141		
AUDSIZE	-0.138	0.114	0.224	-0.016	0.084	0.848		
DIV-INCOME	0.061	0.081	0.451	0.020	0.087	0.815		
LNSIZE	0.011	0.097	0.906	-0.367^{\dagger}	0.082	0.000		
IAH	-0.003	0.004	0.545	0.002	0.003	0.469		
GDP	0.036	0.035	0.303	-0.018	0.028	0.518		
MUSLIM	0.009	0.006	0.177	0.006	0.005	0.219		
_cons	-1.597	1.409	0.257	1.230	1.341	0.359		
Breusch & Pagan LM (Prob.)		0.023			0.000			
Mean VIF		1.43		1.560				
Wooldridge (Prob.)		0.985			0.712			
Modified Wald test (Prob.)		0.000		0.000				
Hausman	0.929 0.625							
R-sq	0.105 0.155							
N		249			372			

^{†, ***, **, *} significantly different from zero at 0.1%, 1%, 5% and 10% levels

However, for unlisted IBs, we found that the SSB members' education level, how many other SSBs they sat on, and their expertise in economics/business/accounting had a positive effect on the shariah compliance. Unlisted IBs had fewer total assets than listed banks (Table 3). Less total assets cause managers to make policies that can increase customer loyalty and attract prospective customers by providing RDR that is not related to the interest rate. This commitment to maintaining banking compliance with shariah principles causes SSBs to carry out their duties more effectively. Members of SSBs at unlisted IBs who have higher education levels, are busy on more than one board and have expertise in the fields of economics/business/accounting could increase the banks' shariah compliance.

4.2. Sensitivity Analysis and Endogeneity

The effect of the RRF and SSB can be influenced by endogeneity issues. The endogeneity bias arises because of unobserved factors, omitted variables, simultaneity between the dependent variable and independent variable, and measurement error of the variable [71]. In this subsection, we discuss possible endogeneity issues using the dynamic panel GMM estimator. Endogeneity bias must be resolved as endogeneity causes inconsistent estimates (eg. study results based on the number of

samples), which potentially leads to wrong inferences, misleading conclusions, and incorrect theoretical interpretations [72].

Table 7. Endogeneity problems-system generalized method of moments (GMM)

	Coef.	Std. Err.	Prob.
L1. RRF	-0.077	0.047	0.102
SSBSIZE	-0.202**	0.237	0.039
EDUSSB	0.085	0.185	0.647
BUSYSSB	0.467**	0.221	0.035
EXPSSB	0.238*	0.134	0.076
GENSSB	0.000	0.019	0.997
BODSIZE	0.004	0.074	0.956
AUDSIZE	-0.155	0.120	0.198
DIV-INCOME	0.062	0.124	0.614
LNSIZE	-0.609**	0.297	0.040
IAH	-0.004	0.012	0.762
GDP	-0.036	0.045	0.429
MUSLIM	0.001	0.021	0.955
_cons	4.071	4.840	0.400
Sargan test (Prob.)		0.878	
AR (1) (Prob.)		0.000^{\dagger}	
AR (2) (Prob.)		0.791	

^{†, ***, **, *} significantly different from zero at 0.1%, 1%, 5% and 10% levels

Following [73], we first used differenced variables as instruments in the dynamic panel GMM approach and accommodated the possible dynamic endogeneity, unobserved factors heterogeneity and the simultaneity between the RRF and SSB variables. Table 7 presents the results of the GMM system test. We report the result of the AR (1) first-order, AR (2) second-order serial correlation tests, Sargan test of overidentifying restrictions and Hausman specification tests [74]. We found that the p-value was statistically significant and as such we received null hypotheses. The AR (2) second-order serial correlation test result's p-value was statistically insignificant (0.791) and rejects the null hypotheses. This result showed that no serial correlation at second order (AR 2) existed. The Sargan test result's p-value of 0.878 was also statistically insignificant and rejects the null hypotheses, so our instruments were valid. As shown in Table 7, how busy the members of the SSB were and their expertise in the fields of finance/banking/accounting once again reduced the number of banks providing RDR not based on IR (high shariah compliance). The results of the GMM test on the Table 7 determined the results of the regression test in Table 5.

5. Conclusion

Providing bank products that avoid interest is the main guarantee provided by IBs and this is the responsibility of each bank's SSB. This study proves the role played by the attributes of the members of the SSBs in guaranteeing interest-free deposit products. We use five attributes of an SSB (the number of members, their education levels, how many other boards they are members of their expertise in finance/banking/accounting, and their gender) and use the RRF as a proxy for interest free returns for IAH and shariah compliance. A lower RRF indicates that an IB is not interest free and less shariah compliance. The results of the regression test found that how busy the SSB's members are, and their expertise in finance/banking/accounting increases shariah compliance, while the number of members of an SSB decreases it. The members 'education levels and gender have no effect on the shariah compliance. Testing the GMM system to overcome the endogeneity issue confirms the results of this study.

The results of the subsample test show that the role of an SSB in controlling its bank's management to provide RDR that is free of interest is different between listed and unlisted IBs. The SSBs of unlisted IBs are more effective in ensuring their banks' compliance with shariah principles by providing interest-free profit-sharing investments. However, in listed IBs, there is greater pressure to have a competitive performance like CBs; this causes their SSBs to be less effective in maintaining shariah compliance.

This study suggests some theoretical implications. First, this study contributes to the growing literature on the Islamic banking sector, by explaining the factors that influence the IAH products IBs offer. In addition, this study provides a better understanding for banks' shareholders, regulators, IB customers and stakeholders about the effects of the governance structure and IB variables (SSB attributes) have on the shariah compliance. The stakeholders of IBs should take advantage of the positive relationship between the SSB and RRF and pay attention to managing IAH funds, as they have an adverse impact on RRF with Islamic law. They should also consider the attributes of the SSBs' members in supporting the SSBs to carry out their supervisory and advisory functions for the boards and managers, to check their management of the banks' assets, and to ensure guarantee shariah compliance for the IBs' products. Therefore, it is advisable for IBs to adopt good governance practices to promote shariah compliance, particularly regarding interest-free banking products.

The study also suggests some important practical implications for regulators. The SSBs have to be increased monitoring power to increase shariah compliance of IB by providing RDR based on bank income and avoid based on interest rate. Furthermore, there is a need to increase the number of SSB with economics, business, and accounting education background. We find that cross-memberships of SSB members are associated with high shariah compliance. Hence, our evidence supports the view that there could be negative SSB outcomes from restrict the number of cross-

memberships because imposing these restrictions potentially cause the appointment of less experienced scholars to SSB members.

This study has some limitations. First, we limit our study to IAH products. In addition, we do not specify the types of IAH products, such as savings and deposits, owing to the lack of, or difficulty in, collecting the data. The data sources that we use do not differentiate the cost-sharing for each IAH product (such as savings, deposits). Second, we have our focus on interest and exclude some indicators of shariah compliance such as *gharar*, *maysir* and others. Future researchers may conduct studies into the role of governance variables on Islamic compliance by incorporating other indicators of Islamic compliance in other products, such as financing products, working capital and consumer loans products, and IB investment products. In addition, research can be undertaken to examine the diversity of the attributes of the members of the SSBs and how they affect the banking products' shariah compliance.

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Author Contributions

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Conflicts of Interest

No potential conflict of interest was reported by the author(s)

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