## Basel compliance and Islamic bank risk: First evidence

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In contrast to previous literature, in this paper we provide robust evidence that compliance with Basel Core Principles (BCPs) has a strong positive effect on the Z-score of conventional banks, but the effect is less pronounced on the Z-score of Islamic banks. Using a sample of banks operating in 19 developing countries, the results appear to be driven by capital ratios, a component of Z-score for the two bank types. Individual chapters of BCPs also suggest a positive effect on the stability of conventional banks, while this effect is reduced in the stability of Islamic banks. The findings highlight some of BCPs shortcomings, of not accounting for the specificities of Islamic banks. Our results have important implications since the Islamic Financial Services Board (IFSB) published new recommendations in 2015 for bringing together the BCPs' standards with the Core Principles for Islamic Finance Regulation (CPIFRs) standards.

JEL classification: G18, G21, P51

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## 1. Introduction

In this study, we examine whether compliance with Basel Core Principles (BCPs) for effective banking supervision affects bank stability and risk taking, by comparing conventional and Islamic banks. While Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) used a large and heterogeneous sample of banks around the world, this paper not only extends the analysis to cover Islamic banks, as compared to conventional banks, but also focuses on banks mainly operating in developing and emerging countries.

BCPs were introduced in 1997 by the Basel Committee on Banking and Supervision (BCBS) and several surveys have been conducted by the IMF and the World Bank to assess the quality of banking regulation and supervision worldwide. These principles were initially created as a pilot project for 12 advanced countries, but rapidly became the global standard for banking regulation. One important drawback with BCPs is that they do not take into account the specificities of certain types of banks, such as Islamic banks.<sup>1</sup>

In 2015, the Islamic Financial Services Board (IFSB),<sup>2</sup> an international regulatory organisation with a main objective of promoting the development and the stability of the Islamic financial industry, published a set of guidelines called Core Principles for Islamic Finance Regulation (CPIFR). These guidelines are built on BCBS standards and have been extended to deal with the specificities of Islamic banks.

Within these guidelines, some of the CPIFRs remained unchanged between CPIFRs and BCPs, some of them are amended, while other CPIFRs are completely new. Because the CPIFR's guidelines were published in 2015, Islamic banks were expected to implement them starting January 2016, or at a later date. Accordingly, data on Islamic banks' compliance with CPIFRs is not available at this stage. Yet, because some of the CPIFRs are similar to conventional banks' BCPs, in this study, we contend with available BCPs and examine whether

<sup>&</sup>lt;sup>1</sup> Islamic banks are by nature financial intermediaries that are compliant with the *Sharia'a* law (Gheeraert, 2014). Thus, they can be defined as institutions that allocates resources and invest them under the guidance of *Sharia'a* principles without any use of interest. Islamic banks operate in a highly regulated industry. However, due to the special characteristics of Islamic banks, i.e. the concept of profit and loss sharing at the asset side (with entrepreneur/borrowers) and the liability side (depositors/investors), thy do not only adhere to the regulatory guidelines by the Basel Committee on Banking and Supervision (BCBS) but also to a specific capital guidelines by the Islamic Financial Services Board (IFSB) as well as the Accounting and Auditing Organization for Islamic Financial Institutions (AAOIFI). In this paper, we do not detail the specifics of Islamic banks because they were already reviewed extensively in previous literature. However, for such a review refer to Khan (2010), Beck et al. (2013), and Abedifar et al. (2013).

<sup>&</sup>lt;sup>2</sup> Established in Kuala Lumpur, Malaysia in 2002, the Islamic Financial Services Board (IFSB) comprises 188 members including 61 regulatory authorities, 8 inter-governmental organizations, and 119 market players. IFSB is considered to be the complement of the Basel Committee on Banking Supervision.

the adoption of the current BCPs affects the stability of Islamic banks. This could also enable us to derive some important policy implications in respect of the expected effects of CPIFRs on Islamic banks' financial soundness.

To do this, we use an initial sample of 761 conventional and Islamic banks in 19 countries covering the period from 1999 – 2013. In contrast to Demirgüç-Kunt and Detragiache (2011), our findings suggest that BCPs compliance index is positively associated with the stability of conventional banks in at least five out of seven individual chapters at the 1% level. The effect is less pronounced for Islamic banks where only two out of seven chapters are significantly positive at the 1% level. A deeper examination of the components of the dependent variable, i.e. bank Z-score, shows that the results are mainly driven by bank capital ratios. The findings indicate that adherence to the international regulatory standards improves the stability of the two bank types through incentives to hold higher capital ratios. The results hold firm when taking into account bank financial characteristics, macroeconomics and institutional environment. The findings also remain unaffected across different subsamples, alternative risk and stability measures, an instrumental variable approach (IV) and Heckman estimation technique to address endogeneity and selection bias, and a propensity score matching (PSM) technique to reduce any bias in sample size.

This study contributes to the literature on both conventional and Islamic banks in at least three important ways. First, we highlight the existence of a strong positive impact of BCPs index on the stability of conventional banks, while the impact is less effective on the stability of Islamic banks. This could provide regulatory organizations such as the IFSB, the IMF and the World Bank with initial empirical evidence that despite the success of BCPs in improving the stability of conventional banks, they appear to be less effective in influencing the stability of Islamic banks. In the case of the latter this might be the result of not taking into account certain Islamic banks' specificities. Overall, the findings support the IFSB recommendations to build on the BCPs' standards and complement them with the CPIFRs regulatory guidelines, which could be demonstrated by better stability of the financial system in countries where Islamic banks' operate. Second, we show that regulatory compliance enhances bank stability through two main channels: (i) prudent investment decisions by avoiding risky activities, reflected in lower return on assets and lower volatility of returns; (ii) strong willingness of banks in developing countries to be recognized and more integrated in the global financial system, reflected in their strong solvency ratios. Finally, we add to the comparative literature on conventional and Islamic banks (Abedifar et al. 2013; Beck et al. 2013; Mollah and Zaman, 2015; Mollah et al. 2016) by exploring the determinants of bank stability and find compelling evidence of relative similarity between the two bank types.

The rest of the paper is structured as follows. Section 2 briefly reviews the literature. Section 3 describes the sample, the empirical approach and variable definitions. Section 4 presents the main results, while section 5 reports the robustness checks. The last section is the conclusion.

## 2. Literature review

Literature examining the effect of banking regulation on the risk and the stability of the financial system does not provide a specific set of indicators that can be used to proxy for banking regulation. While some studies refer to accounting and market ratios such as regulatory capital, liquidity and leverage measures, other studies are based on questionnaires and surveys performed by governments and international regulatory organisations. These studies often report inconclusive and contradictory results.

Barth et al. (2004, 2006, 2008) are among the first to examine the effect of banking regulation and supervision on bank performance and stability using international data. Their findings suggest that strong monitoring of markets and the private sector is an important factor in promoting performance and stability of the financial sector. Focusing on corporate governance, Leaven and Levine (2009) interact different proxies of banking regulation and supervision (capital requirements, capital stringency, activity restrictions, and deposit insurance) with bank ownership structure. They conclude that regulation increases bank risk taking when a bank has an ultimate owner, while the opposite occurs when a bank is widely held. Klomp and de Haan (2012) ask whether banking regulation has a homogeneous effect on bank risk. Using a sample of 200 banks from 21 OECD countries, their findings show that banking regulation is more effective in decreasing risk for riskier banks, thus suggesting that the effect of regulation is not uniform and depends on bank risk profile. Klomp and de Haan (2014) further investigate the association between banking regulation and risk by taking into consideration the level of

development of countries' institutional environment. Using a sample of 400 banks from 70 developing and emerging countries, their findings indicate that the effect of banking regulation and supervision on bank risk is supported in countries with a better institutional environment.

In recent literature, Doumpos et al. (2015) use a large sample of 1700 commercial banks operating in 90 countries over the period 2000–2011 to study the effect of three indexes of regulation (central bank independence, central bank involvement in prudential regulation, and supervisory unification) on bank stability. Depending on bank size and the country's official supervisory power, their results yield a positive and significant association with bank Z-score, especially in periods of crisis. Finally, using a sample from 19 EU countries covering the 1999–2011 period. Carretta et al. (2015) focus on the culture of banking supervision (proxied by the Hofstede's cultural dimensions) to assess the stability of banks. Their findings suggest that a greater supervisory culture based on collectivism and avoidance of uncertainty is positively linked to bank Z-score. Accordingly, they highlighted the importance of cultural dimensions in the success of banking regulation by the Banking Union at the European Central Bank (ECB).

However, one important shortcoming in these studies is that they evaluate the effectiveness of banking regulation and supervision based on what is mentioned on the books rather than on actual implementation (Demirgüç-Kunt and Detragiache, 2011; Ayadi et al. 2016). In addition, actual reporting on the soundness of banking sector laws and regulation often lacks true assessment, especially in low income countries, which could exacerbate the variation between what books report and what is being actually practiced (Demirgüç-Kunt and Detragiache, 2011).

Another stream of literature adheres to the Basel Core Principles (BCP) index for effective banking supervision as an alternative measure to questionnaires and surveys reported above. Developed by the World Bank and the IMF under the Basel Core Financial Sector Assessment Program (FSAP), BCP index is considered a unique source of information that represents the quality of supervision and regulation in countries around the globe. Demirgüç-Kunt and Detragiache (2011) argue that assessments by the FSAP are more effective for two reasons. First, BCP index reflects the actual implementation of different factors that represent banking regulation and supervision. Second, assessments are based on an explicit and standardized methodology and are conducted by experienced international assessors with broad country experience.<sup>3</sup>

Several studies have employed BCP index to proxy for compliance with banking regulation and supervision and to examine its effect on the performance and stability of the banking system. Sundararajan et al. (2001) examine the association between BCP compliance and bank soundness, using a sample of banks in 25 countries. Their findings highlight the importance of other bank-level and macroeconomic factors and conclude that the implementation of international standards is not sufficient in itself to ensure financial soundness. Das et al. (2005) find that countries with higher compliance with BCP resist more macroeconomic pressures. Podpiera (2006) also investigate the effect of BCPs on bank performance using a sample of banks from advanced, emerging and developing countries. He finds that banks in countries with higher compliance with BCP have lower non-performing loans and interest margins. In a related context, Cihak and Tieman (2008) show that BCP compliance index is positively and strongly associated with countries' sound governance and GDP per capital, while the effect is less significant when replacing BCP index with on the book regulatory measures.

Recently, Demirgüç-Kunt and Detragiache (2011) investigate the association between compliance with the Basel Core Principles and banks' financial stability. Employing an overall index of 25 Basel principles and a sample of international banks, the authors find no evidence of a significant relationship between compliance with Basel rules and banks' Z-score. Finally, Ayadi et al. (2016) extend the work of Demirgüç-Kunt and Detragiache (2011) and focus on bank efficiency. Their results also show no association between BCPs and bank efficiency. However, when examining the effect of each chapter, they only find a negative impact between chapter 4 (methods of ongoing supervision) and bank efficiency.

Because BCP compliance chapters are designed to promote the stability and the financial soundness of conventional banks, the likelihood of affecting the stability of their Islamic counterparts should be irrelevant or at best circumstantially slim. This might be expected as long as Islamic banks have different balance sheets and different financial products compared to

<sup>&</sup>lt;sup>3</sup> However BCP methodology cannot be considered as an exact science and assessments might be affect by many factors depending on the assessors' subjectivity and experience, and the existing regulatory framework (Demirgüç-Kunt and Detragiache, 2011; Ayadi et al., 2016).

conventional banks. Literature, however, offers different opinions on whether Islamic banks share the same financial characteristics as conventional banks. Scholars interpret different opinions due to the fact that the current business model of Islamic banks suffers from substantial divergences between *Sharia* 'a ideals and bank practices (Khan, 2010), suggesting the existence of similarities between the two bank types.

Recently, the Islamic Financial Services Board (IFSB) published new guidelines on the Core Principles for Islamic Finance Regulation (CPIFRs) (IFSB, 2015) building on the Core Principles for Effective Banking Supervision (BCPs) created by the Basel Committee on Banking and Supervision (BCBS). According to IFSB, the objective of the proposed guidelines is to "[...] build on the standards adopted by relevant conventional standards [...] and to adapt or supplement them only to the extent necessary to deal with the specificities of Islamic finance" (pg. 2, IFSB, 2015). Therefore, some of the CPIFRs remained unchanged between CPIFRs and BCPs, some principles are amended, while others are completely new. A detailed description of CPIFRs is presented in the Appendix A.1. There are differences between the guidelines in three main areas. . First, the treatment of IAHs which are considered more like investors than depositors and the implications of such consideration on capital adequacy ratios, the relevant risk-weighting methodology, as well as the role of regulatory authorities (capital treatment, policies regarding the smoothing mechanism, and the bank exposure to displaced commercial risk). Second, the rate of return (ROR) risk, that depends on market condition and competition with conventional banks. The ROR might lead to the use of bank reserves or to DCR if an Islamic bank absorbs a part or all of any losses or there is a shortcoming in the returns payable to IAHs by reducing its share of profits or donation from the shareholders share of income. Finally, regulatory authorities ensure that Islamic banks possess an effective Sharia'a governance system to examine the compliance of Islamic banks' activities, investments and products with Islamic law.

## **INSERT TABLE** [1] HERE

#### 3. Data and methodology

## 3.1. Sample construction

In order to investigate the effect of Basel Core Principles on the stability and the risk of conventional and Islamic banks, we compiled data from three main sources: (1) the IMF and the World Bank Basel Core Financial Sector assessment Program (FSAP) database, which contains detailed information on a country's evaluation and compliance with the Basel Core Principles for effective bank supervision (BCP) during 1999 – 2012; (2) the World Bank world development indicators (WDI) and world governance indicators (WGI) for macroeconomic and governance variables; and the Bankscope database provided by Bureau van Djik and Fitch Ratings for accounting data.

In the selection of bank-level data, we recover financial information from 1999 to 2013 in 33 countries where both bank types exist. A bank is excluded from the sample if it does not have at least 3 continuous observations. Our sample includes 651 (110) conventional (Islamic) banks. In contrast to Ayadi et al. (2016), our study focuses on a broad sample of listed and unlisted banks, rather than only publicly listed banks, to avoid losing observations, since most of Islamic banks are unlisted.

We then match the bank-level information with the country-level information and thus control of variation in country's macroeconomic and regulatory conditions. After checking the FSAP database, we find 28 countries that reported information on their compliance with BCP and where the two bank types exists. We also exclude countries such as Algeria, Bosnia, Brunei, Cayman Islands, Iraq, Iran, Qatar, Senegal, Sudan and Yemen because of missing information on some of the BCP chapters. Our final sample is reduced to include banks operating in only 19 countries. Our sample is homogeneous and includes banks in countries that have similar financial characteristics and macroeconomic conditions, with some countries only represented by a few Islamic banks, while others have a large number of conventional banks.

Because the BCP chapters are collected in three different waves (1999, 2005 and 2012) and because our sample is constrained by the number of observations, we decide to match the data for different chapters as follows: the 1999 wave data is used for the period 1999–2004, the 2005 wave data is used for the period 2005 - 2011, and the 2012 wave data is used for the period

2012 - 2013. However, some countries have witnessed two assessment waves. For instance, Saudi Arabia reports its BCP compliance in 2004 and 2011. As a result, the 2009 wave data is used for the period 2004 - 2010 while the 2011 wave data is used for the period 2011 - 2013.

## 3.2. Empirical approach and definition of variables

The main dependent variable we use to evaluate bank stability is Z-score, and the main independent variable is the country's BCP compliance index. We follow Mollah and Zaman (2015) and Bitar et al. (2016) and use random-effect, GLS regressions to examine the effect of BCP compliance on bank financial stability. We prefer the GLS technique, instead of other estimation techniques, for two reasons. First, regression models, such as OLS, ignore the panel structure of our data. Second, our Islamic bank dummy is time-invariant and cannot be estimated using a fixed-effect methodology. Accordingly, we use the following baseline regression equations:

Stability<sub>ijt</sub> = 
$$\alpha + \beta_1 \times BCP_{jt} + \beta_2 \times Bank\_control_{ijt-1} + \beta_3 \times Country\_control_{jt}$$
  
+  $\sum_{t=1}^{T} \mu_t \times Time_t + \varepsilon_{ij}$  (1)

 $Stability_{ijt} = \alpha + \beta_1 \times Islamic_i + \beta_2 \times BCP_{jt} + \beta_3 \times BCP_{jt} \times Islamic_i + \beta_4$ 

× Bank\_control<sub>ijt-1</sub> + 
$$\beta_5$$
 × Country\_control<sub>jt</sub> +  $\sum_{t=1}^{T} \mu_t$  × Time<sub>t</sub> +  $\varepsilon_{ij}$  (2)

Where Stability<sub>ijt</sub> represents the natural logarithm of Z-score of bank i in country j at time t. BCP<sub>jt</sub> is the Basel Core Principles compliance index for country j in time t (if a country has reported its BCP compliance more than once. ). Bank\_control<sub>ijt-1</sub> is a vector of bank-level control variables. Country\_control<sub>jt</sub> is a vector of country-level control variables. Time<sub>t</sub> represents year fixed effects while  $\varepsilon_{ij}$  is a random disturbance, assumed to be normally distributed with zero mean and constant variance,  $\varepsilon_{it} \sim iid N(0, \sigma^2)$ . In eq. (2), Islamic<sub>i</sub> is a dummy taking the value of one for Islamic banks and zero for conventional banks. Finally, an interaction term is introduced between Islamic and BCP compliance to investigate whether a country's compliance with BCP affects the stability of Islamic banks differently from how it affects their conventional counterparts. The Z-score is defined as (return on average assets + equity/assets)/(standard deviation of the return on average assets) over [t, t–3]. Demirgüç-Kunt and Detragiache (2011) interpret the Z-score as the number of standard deviations by which bank earnings would have to decrease to deteriorate the entire bank equity base. In the regression analysis, we focus on using the natural logarithm of Z-score (LnZ-score) to minimize the effects of higher values that could be the resulted from the outliers. In our robustness tests, we use loan loss reserves to gross loans (LLRGLP), loan loss provision to total loans (LLPTLP), non-performing loans to gross loans (NPLGLP), and volatility of net interest margin (SD NIM) to examine the impact of BCP compliance index on the stability and risk of the two bank types.

Our main independent variable is the BCP compliance index derived from the IMF and the World Bank Basel Core Financial Sector Assessment Program (FSAP) database. This study extends the work of Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) by comparing the effect of BCP compliance index with the stability of Islamic and conventional banks mainly located in developing countries. The literature does not provide a standard measure of banking regulation and supervision. As explained and shown in the literature review, empirical studies often use surveys on banking regulation (Barth et al., 2004, 2006, 2008) to make allowance for the of the institutional environment and examine the effect of a wide range of regulatory and supervisory variables on bank financial soundness. The literature also uses accounting and market measures to examine the effect of holding higher capital, liquidity and leverage ratios on bank financial soundness (Demirgüç-Kunt et al., 2013; Anginer and Demirgüç-Kunt, 2014; Vazquez and Federico, 2015; Bitar et al., 2015; Bitar et al., 2016). Despite the plethora of research on banking regulation and supervision, BCP compliance index is rarely used in conventional banking literature and, to the best of our knowledge, has never been used in an Islamic banking context. The BCP index is based on 25 principles that are considered to be the best measures to capture compliance with banking regulation and supervision. These elements are categorised into seven chapters as follow: Preconditions for effective banking supervision (Ch1); licensing and structure (Ch2); prudential regulation and requirements (ch3); methods of ongoing supervision (Ch4); information requirements (Ch5); formal powers of supervisors (Ch6); and cross-border banking (Ch7). The definition of different elements used to construct these chapters are reported in Appendix A.2.

In their study, Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) measured BCP compliance using aggregate and disaggregate approaches to distinguish between different chapters. In addition to these approaches, we also use principal component analysis (PCA) to aggregate different chapters and examine their effect on bank stability. Each of the 25 elements that constitute the BCP compliance index is evaluated based on the following four-point scale: (i) noncompliant; (ii) materially noncompliant; (iii) largely complaint; and (iv) compliant. We grade each point by assigning a numerical value (from 1 for noncompliant to 4 for compliant). The overall index of BCP compliance is then calculated as the average sum of the seven chapters.

We further allow for factors that may influence the relationship between BCP and bank stability by including two vectors: Bank\_control<sub>ijt-1</sub> is the vector of bank portfolio characteristics. It measures for bank size proxied by the natural logarithm of total assets (lnta), which may arguably increase (Stiroh, 2004; Houston et al., 2010) or decrease bank stability and risk (Demirgüc-Kunt and Huizinga, 2010; Schaeck and Cihák, 2012; Beck et al., 2013); growth rate of total assets (gtap) to allow for the expansion of a bank's balance sheet during the current year (compared to the previous year). Abedifar et al. (2013) employ this ratio as a proxy for bank growth and development strategies. As they expand and develop, banks might be more exposed to information asymmetry, since a considerable increase in bank activities may result in weaker screening standards and lower monitoring of investments. We also include the cost to income ratio (cirp) to allow for any cross-bank differences in terms of inefficiency, where higher values reflect managerial inadequacies and thus a tendency for banks to take more risk (Chortareas et al., 2012; Abedifar et al. 2013; Beck et al., 2013). In addition, we use non-interest income to total operating income to allow for bank business model and activity diversification. Finally, we use the ratio of liquid assets to deposit and short term funding to assess the sensitivity to bank runs, where banks with more liquid assets face lower bankruptcy costs, less information asymmetry and are more capable of raising equity (Horváth et al., 2014; Belkhir et al., 2016).

Country\_control<sub>jt</sub> is the vector of three macroeconomic and institutional variables commonly used in the stability literature (Houston et al., 2010; Demirgüç-Kunt and Detragiache, 2011; Schaeck and Cihák, 2012; Abedifar et al. 2013; Lee and Hsieh, 2013). It includes the GDP growth rate (gdpg) to allow for any potential cyclical behavior of regulation under Basel requirements, the inflation rate (inf) to capture the country's general financial conditions, the oil rent to GDP (oil), the gas rent to GDP (gas), and mineral rent to GDP (mineral), <sup>4</sup> as complementary measures to allow for differences between economies, especially because many countries in our sample are rich in natural resources. Finally, we employ the world governance index as an additional measure to allow for a country's political and institutional quality. This index is computed as the average of six governance dimensions (i.e., voice and accountability, political stability and absence of violence, government effectiveness, regulatory quality, rule of law, and control of corruption).

In regression equations, all variables are winsorized at the 1% and 99% levels to mitigate the effect of outliers. We follow Beck et al. (2013) and Anginer and Demirgüç-Kunt (2014) and cluster at the bank level, instead of the country level, for two reasons. First, our sample includes some countries which have a much larger number of observations than others. Second, as we have 19 countries, clustering at a country level might create biased results.

#### *3.3. Descriptive statistics*

Table 2 reports descriptive statistics for the samples of conventional and Islamic banks. Panels A and B present the mean, the median, and the standard deviation for the bank-level dependent and independent variables, while Panel C presents the summary statistics for our key independent variable, i.e. BCP compliance index, the seven chapters, as well as the rest of macroeconomic and institutional environment control variables. Table 2 Panel D presents the BCP compliance mean for each country and the relative year of assessment.

In Panels A and B, we perform Wilks' lambda test  $(\lambda)$ ,<sup>5</sup> Wilcoxon-Mann-Whitney test (Wilc), and the univariate analysis of variance test (F) for equality of means for each financial ratio. Results of the statistics tests are presented in the three last columns of Table 2 and suggest that conventional banks are significantly different to Islamic banks when using all the financial ratios (excepts the ratio of loan loss reserves to gross loans). The three tests indicate that the standard deviation of net interest margins have the highest likelihood of discrimination between

<sup>&</sup>lt;sup>4</sup> Oil, gas, and minerals rents are the difference between the value of oil, gas, and minerals production at world prices and total costs of production.

<sup>&</sup>lt;sup>5</sup> Wilks' lambda is the ratio of within-groups sum of squares to the total sum of squares. It takes values between zero and one with lower values indicating that ratios are more capable of splitting between conventional and Islamic banks.

the two bank types, while the ratio of loan loss reserves to gross loans has the least likely. Finally, we note that in our main dependent variable, i.e. Z-score, there is also clear discrimination between the two bank types, as reported by the three tests as well.

In Panel C, the mean of the BCP compliance index (BCP index) is 84.95%, a much higher percentage than in Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) studies. This percentage is likely being driven by the inclusion of large set of banks from emerging and developing countries. Ayadi et al. (2016) argue that BCP index is much lower in the United States and developed countries compared to developing countries. For instance, if we examine the upper 10% of the BCP index distribution in Panel D, we find that BCP index is highest in Saudi Arabia (97.66%), followed by the UK (94.22%), then Malaysia (91.73%), and United Arab Emirates (90.71%). Three out of these four countries are developing ones. These findings suggest that banks in developing countries are moving towards global financial convergence through their compliance with BCPs and international regulation. Finally, Panel C presents the number of conventional and Islamic banks in each country. For conventional banks, the sample is dominated by banks from the United Kingdom and Bahrain for Islamic banks. We also notice that for the period studied period on average, the number of available observations is rather weak and the percentage of reported observations (N obs. %) is higher for conventional banks (58.4%) than for Islamic ones (52.1%).

## **INSERT TABLE [2] HERE**

## 4. Empirical results

In Table 3, we present the regression results examining the effect of BCP index on bank stability using Eqs. (1) and (2). Models (1)–(4) report the results for conventional banks, Models (5)–(8) report the results for Islamic banks, and Models (9)–(12) report the results for the full sample. For each sample, we also present the results for Z-score component after allowing for bank and country-level variables. These components include the ratio of return on average assets (ROAA), the standard deviation of ROAA (SDROAA), and the ratio of equity to assets (TETA). The Wald Chi2 tests are highly significant for all models, and the R-squares are relatively high, suggesting that the models are representative and fit with the GLS, random effect regression justified in the previous section. We find that BCP compliance index has a positive and

significant effect on the stability of conventional banks (at the 1% level), Islamic banks (at the 5% level) and the full sample (at the 1% level). Economically, the estimated coefficients on BCP compliance in Models (1), (5), and (9) vary between 0.015 and 0.017, indicating that a one-unit increase in the BCP compliance index is associated with an increase in the Z-score of nearly two percentage points. In contrast to Demirgüç-Kunt and Detragiache (2011), our results indicate that the Z-score is higher, suggesting a sounder banking institution, for conventional and Islamic banks in countries with higher BCP compliance. While Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) use a large and heterogeneous set of banks in countries with different regulatory regimes and different macroeconomic and institutional conditions, which are hard to allow for and which could explain their insignificant findings. This study mainly focuses on countries where both Islamic and conventional banks operate with similar financial, economic and institutional conditions. In addition, the sample mainly includes banks from developing countries, whereas Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) samples are dominated by banks from developed countries.

To better understand what drives the positive association between BCP compliance and bank stability, we now focus on the components of Z-score to investigate whether this significant impact is attributable to the effect of BCP index on return on average assets, the volatility of returns, or bank capitalization. Models (2) and (3) report a negative impact of BCP compliance on conventional banks' profits (at the 1% level) and volatility of returns (at the 10% level) while in Model (4) the association with capitalization is significantly positive (at the 1% level). For Islamic banks, the results appear insignificant except in Model (8) where the association between BCP compliance and bank capital is positive (at the 10% level). The results for the full sample report very similar findings, although the coefficient estimate for the ratio of return on average assets becomes insignificant. In addition, Models (9)-(12) shows that Islamic banks are not significantly different to conventional banks in term of profits, volatility of returns, and capitalization. Finally, the coefficients of the interaction terms between BCP index and the Islamic bank dummy in Models (9)–(12) fail to report any significant differences in the effect of BCP compliance on Islamic bank stability and its components, compared to conventional banks. Taken together, the findings suggest that BCP compliance mainly drives Z-score through incentives to hold higher capital ratios in a strong regulatory environment that discourages excessive risk taking, which is thus inversely correlated with higher profits and volatile earnings.

The findings concerning the capital ratio are consistent with the newly emerged literature that sheds light on the importance of institutional factors as important determinants of bank capital decisions. For instance, Demirgüç-Kunt and Detragiache (2011) and Jayaraman and Thakor (2013) find that creditor protection can play a primordial role in incentivizing conventional banks to increase their capital ratios.

#### **INSERT TABLE [3] HERE**

With regards to bank-level control variables, we find that bank size and Z-score are negatively correlated, due to the negative effect of bank size on capital for both bank types (Abedifar et al., 2013; Beck et al., 2013). We also find that bank growth of total assets is negatively associated with Z-score, reflecting weak screening standards and less monitoring incentives, especially because regulatory authorities are more flexible with large banks in term of capital requirements, which also explain the negative effect of the growth of total assets ratio on bank capital. The cost to income ratio is negatively associated with bank Z-score, suggesting that managerial inadequacies reduce bank profitability and increase their risk (Chortareas et al., 2012; Abedifar et al. 2013; Beck et al., 2013). With respect to Islamic banks, the effect of bank-level control variables is less pronounced, likely because of the contradictory signs between different components of Z-score. For instance, the liquidity ratios have negative effect on bank profits and a positive effect on bank capital, which explain the insignificant effect on Z-score. For countrylevel control variables, we find that banks are more stable in countries with better GDP growth, higher rents for mineral, lower rents for gas and lower inflation. The positive effect of GDP and mineral rents is mainly driven by ROAA while the negative effect of gas rents and inflation is driven by the SDROAA.

## 5. Robustness checks

## 5.1.Components of BCP index

To shed further light on the main results in Table 3, we now examine the impact of the seven chapters of BCP compliance on bank stability – preconditions for effective banking supervision (chapter 1), licensing and structure (chapter 2), prudential regulations and requirements (chapter 3), methods of on-going supervision (chapter 4), information requirements (chapter 5), formal powers of supervisors (chapter 6), and cross-border banking (chapter 7).

While Demirgüç-Kunt and Detragiache (2011) and Ayadi et al. (2016) examine the effect of the seven chapters in a single regression model, in this study, we separately introduce each chapter and examine its effect on bank stability, taking into consideration the same bank and country-level control variables mentioned above. By doing so, we mitigate the effect of multicollinearity between different chapters and bank stability. For comparison purposes, we also report the effect of all the chapters on bank Z-score.

The results are presented in Table 4 and show important findings. First, chapters reported in Models (2)–(7) have a significantly positive effect on conventional bank stability (at the 10%) level or better). Licencing and structure (chapter 2) and cross-border banking (chapter 7) are the chapters that have the most pronounced effect on conventional banks' Z-score, while preconditions for effective banking supervision (chapter 1) have the least pronounced effect. For Islamic banks, we also find important evidence of positive and significant association chapters reported in Models (10), (12), and (13) and Z-score. Licensing and structure is again the chapter that has the most pronounced effect on Islamic banks' Z-score, while information requirement is the chapter with the less pronounced effect. Second, if we compare the results after including all chapters in Models (8), (16), and (24), the findings become less pronounced for both conventional and Islamic banks and similar to those reported by Demirgüc-Kunt and Detragiache (2011) and Ayadi et al. (2016), thus confirming our expectation regarding the problem of multicollinearity between different chapters, as well as the insignificant effect on bank stability and efficiency. Third, we find evidence that Islamic banks are less stable than conventional banks in Models (17)–(21) while the interaction term between the Islamic bank dummy and some chapters appear significantly positive, suggesting that the positive effect of BCP compliance chapters – specifically, licensing and structure in Model 18 and information requirements in Model 21 - are stronger for Islamic banks compared with their conventional counterparts.

#### **INSERT TABLE [4] HERE**

#### 5.2. Subsamples

We examine the robustness of previous results by exploring whether the relationship between BCP compliance and bank stability changes if we alter the sample composition to exclude regions (such as the Gulf Cooperation Council (GCC), the South East Asia (SEA), and the Middle East and North Africa (MENA) regions), the United Kingdom, listed and unlisted banks, and periods of different economic cycle (such as the periods before (1999–2006), during (2007–2009), and after (2010–2013) the financial crisis), and groups of countries and banks depending on their stability, institutional environment and efficiency scores.

Results are presented in Table 5 Panel A for subsampling by regions. We find that the association between BCP compliance and conventional banks' Z-score is significantly positive. This association is robust to the exclusion of banks in the GCC region, the SEA region, and the MENA region. Economically, the estimated coefficients on BCP compliance in Models (1), (4), and (7) vary between 0.008 and 0.015, indicating that a one-unit increase in the BCP compliance index is associated with an increase in the Z-score that varies between three quarters of a percentage point (when excluding conventional banks in the SEA region) and one and a half percentage points (when excluding conventional banks in the MENA region). These findings suggest that the effect of BCP compliance on conventional banks' stability is strongest in the SEA region, followed by conventional banks in the GCC countries, and finally by conventional banks in the MENA region, which report the weakest effect. For Islamic banks, the association between BCP compliance and conventional banks' Z-score is positive and significant when excluding banks in the GCC and the SEA regions, suggesting that positive association is mainly driven by those two regions as well.

Because conventional banks in the United Kingdom represent 26% (167 banks) of the sample, we decide to exclude them to avoid sample bias. Table 5 Panel B shows that the results remain similar for conventional banks but they become significant for Islamic ones, thus indicating that our findings are not sensitive to this. Aside from regional and countries' effects, the association between BCP compliance and bank stability can also be reinforced when banks are publicly listed due to market discipline. Indeed, listing a bank on the market implies more stringent rules and stricter capital regulation and supervision; thus, less risky behavior. Panel B presents the results for subsamples of listed and unlisted banks. We find clear evidence that the effect of BCP compliance on banks' Z-score is stronger when banks are publicly listed, especially Islamic ones. In contrast to unlisted Islamic banks, listed ones seek international

recognition through their compliance with BCP index. Therefore, listed Islamic banks are prone to market discipline and regulatory pressure compared to unlisted ones, which could explain the strong positive association between BCP compliance and Z-score.

## INSERT TABLE [5] HERE

Table 5 Panel C reports the results for subsampling by periods of economic fluctuation. The findings provide clear evidence that the association between BCP compliance and conventional banks' stability is stronger for the period that proceeded the financial crisis. In other words, the estimated coefficient on BCP compliance is more sensitive (less pronounced) to the exclusion of banks in the period before the financial crisis than the period that followed the crisis, while the effect is less sensitive when excluding banks during the financial crisis. For Islamic banks, we report similar pattern during the financial crisis but the association between BCP compliance and Z-score tend to be more sensitive to excluding Islamic banks in the period that followed the financial crisis. Overall, although the findings continue to report a positive effect of BCP compliance on conventional and Islamic banks' stability, it seems that BCP compliance is irrelevant and does not increase bank stability in periods of economic distress. One reason to explain these findings is that our sample mainly covers banks in developing countries. These countries are less affected by the financial crisis compared to developed economies. Another reason is that some countries and regions in our sample are rich in natural resources and, thus, are less exposed to economic turmoil compared to other countries (Bitar et al. 2016).

Finally, we further check the robustness of our findings by studying whether the association between BCP compliance and the bank Z-score remains in countries with unstable political systems and weak institutional environment.<sup>6</sup> In addition, we ask whether the positive effect of BCP compliance on bank stability persists for highly efficient banks.<sup>7</sup> Table 5 Panel D indicates that BCP compliance has a negative impact on the stability of conventional and Islamic banks in countries with weak protection of depositors, insignificant effect in countries with less

<sup>&</sup>lt;sup>6</sup> We proxy for stability of country's political systems using an index of durability of political institutions from the Political Regime Characteristics and Transitions of Polity IV project database. We also proxy for strong institutional environment using an index of creditor rights from Djankov et al. (2007). Based on the median value, we drop banks in countries with durability index higher than the median. Likewise, we drop banks in countries with creditor rights index higher than the median.

<sup>&</sup>lt;sup>7</sup> We proxy for bank efficiency using bank efficiency scores computed based on DEA. Based on the median value, we drop banks with efficiency scores lower than the median.

stable political institutions, while the effect becomes once again positive and significant for highly efficient banks. These results demonstrate that compliance with BCP is strong for efficient banks in countries with a better institutional environment and soundly based political systems.

## 5.3. Quantile regressions

We perform quantile regressions to investigate whether the effect of BCP compliance index on bank Z-score varies in a significant way with different stability levels. One important feature about quantile regressions<sup>8</sup> is that they allow for heterogeneous solutions to BCP index by conditioning on bank Z-score. If BCP index has a positive and more significant effect on highly capitalized banks and this positive effect dominates the effect of BCP index on banks with higher ROAA and SDROAA, then we expect a more pronounced effect of BCP index on highly stable banks.

Table 6 reports the results for the lower (Q25), the median (Q50), and the upper quantile (Q75) of the Z-score distribution. Results show that the estimated coefficients on the BCP compliance index are positive at all quantiles for the sample of conventional banks in Models (1)–(3) and the full sample in Models (7)–(9) but not for the sample of Islamic banks. Moreover, and in contrast to our expectation, The Wald tests fail to report any significant difference between the lower quantile and the upper quantile for the effect of BCP index on the stability of either bank types, as well as the full sample.

## **INSERT TABLE [6] HERE**

## 5.4. Alternative risk measures

Our findings consistently show a positive and a pronounced effect between BCP compliance and Z-score for conventional banks and also between BCP compliance and Z-score for Islamic banks but with a less pronounced effect. We now study whether our findings persist when we re-estimate our regressions using alternative proxies for bank stability. We first use three different measures of bank credit risk including the ratio of loan loss reserves to gross loans

<sup>&</sup>lt;sup>8</sup> The quantile regression results are also robust to outliers and distributions with heavy tails. The quantile regression also avoids the restrictive assumption that the error terms are identically distributed at all points of the conditional distribution.

(LLRGLP), the ratio of loan loss provision to total loans (LLPTLP), and the ratio of nonperforming loans to gross loans (NPLGLP). The three ratios measure loan quality with higher values indicating poor supervision and higher credit default risk. Second, we use the standard deviation of net interest margins (SDNIM) with higher values indicating more volatile earning margins.

The results, presented in Table 7, show clear evidence of a negative and significant association between BCP compliance index and different proxies of credit risk, as well as between BCP compliance index and SDNIM for the sample of conventional banks in Models (1)–(4) and the full sample in Models (9)–(12), while the results for Islamic banks are only significant for SDNIM in Model (8). For instance, the estimated coefficients on BCP index in Models (1)–(4) vary between 0.012 and 0.059, indicating that a one-unit increase in the BCP compliance index is associated with a decrease in credit risk between a one-unit decrease when using LLPTLP and nearly a six-percent decrease when using NPLGLP, suggesting that banks in countries with higher BCP compliance have lower credit risk and, thus, are more stable.

## **INSERT TABLE [7] HERE**

#### 5.5. Alternative estimation techniques

To examine the robustness of our main findings that BCP compliance index is positively associated with Z-score of conventional and Islamic banks, we run a battery of alternative estimation techniques. The results of these estimations are discussed in the following section and confirm our key findings.

#### 5.5.1. Other estimation techniques

In this subsection, we examine the robustness of results using three alternative econometrics specifications and standard errors. Table 8 reports the results from regressing BCP index on bank Z-score. First, we use truncated regressions to address any bias related to the upper and the lower distribution of observations for the dependent variable. We also focus on the standard errors and use bootstrapped standard errors using 100 random resamples of different bank types employed in the sample for the second estimation, while we correct for the heteroscedasticity of the standard errors by using a White procedure for the third estimation. Importantly, the estimated coefficients of BCP index weighs significantly positive on Z-score in all estimations and models, except for the sample of Islamic banks when employing truncated regressions.

### 5.5.2. Propensity score matching

We employ a propensity score matching (PSM) technique proposed by Rosenbaum and Raubin (1983) to verify the robustness of the results. PSM consists of matching observations of banks based on the probability of increasing the country's BCP compliance index. The comparison between banks in countries with higher BCP compliance and banks in countries with lower BCP compliance is then studied on the matched sample.

To implement PSM, we create a BCP compliance dummy variable that takes on a value of one, if a country's BCP compliance index has a value greater than, or equal to, the median, and zero otherwise. We then estimate a logit model where we regress the BCP compliance dummy on all the control variables used in the baseline model and the year fixed effects. We use the estimated scores to match each observation between countries with higher and lower BCP compliance. Additionally, we employ three different matching methods: K-nearest neighbors with the nearest neighbor with n=10, n=15, and n=20; the Gaussian Kernel matching; and the radius matching. In matched samples presented in Table 8 Panel B, we continue to find evidence that matched conventional banks in countries with higher BCP compliance as having higher Zscore compared to matched conventional banks in countries with lower BCP compliance. We obtain very similar results for banks in the full sample, but not for the sample of Islamic banks. We report the T statistics for the differences between the treated, countries with high BCP compliance and countries with low BCP compliance control group, for each of the methods. For BCP compliance, the differences between the treated and control group varies between 0.123 and 0.288% for Z-score of conventional banks, between 0.123 and 0.276% for Z-score of Islamic banks, and between 0.273 and 0.465% for the full sample. These differences are statistically significant at the 1% levels in almost all models, except differences in the sample of Islamic banks.

## **INSERT TABLE [8] HERE**

## 5.5.3. Addressing endogeneity and selection bias

We now use an instrumental variable approach (IV) to mitigate concerns of endogeneity. We first regress BCP compliance index on instruments and regressors, as reported in baseline models (i.e. Table 2). Then, the predicted values of BCP compliance replace the index in baseline models. Current literature on Islamic and conventional banks is largely silent about endogeneity and lack of specific instruments that can be used when examining the association between BCP compliance and bank Z-score. In this study, we use two instruments: (i) the rule of law obtained from the Heritage Foundation's Economic Freedom index and defined as the capacity of a country's government and legal system to recognize and ensure the protection of property and to fight corruption, and (ii) business regulation obtained from the Fraser Institute's index of Economic Freedom and defined as the extent to which regulations and bureaucracy procedure restrain entry into business and increase the cost of producing products.

We follow Barth et al. (2009) and conduct an F-test of the excluded exogenous variables in the first-stage regressions. The null hypothesis of the test is that our instrument does not explain cross-sectional differences in capital regulatory guidelines and measures. We reject the null hypothesis at the 1% level in all models. The results of the first-stage regressions are reported in Table 9 Models (1), (6), and (11) and mainly show that banks' Z-score is higher in countries with better institutional environment, in terms of rule of law and business regulation. The results of the second-stage regressions are reported in Table 9 Models (2) and (3) for conventional banks, Models (7) and (8) for Islamic banks, and Models (12) and (13) for the full sample. We use two estimation techniques: A two-stage least squares regression (2SLS) (Ashraf et al., 2016); and a generalized method of moments (GMM) (Bitar et al. 2016). The results show clear evidence of a positive and significant association (at the 1% level) between BCP compliance index and Z-score, but only for the sample of conventional banks and the full sample.

#### **INSERT TABLE [9] HERE**

We also use a Heckman (1979) selection approach to allow for a potential self-selection bias. The main objective of this technique is to allow for whether countries are highly compliant with Basel Core Principles, compared to countries that are less compliant. As a first step, we estimate a probit model that regresses a dummy variable – which takes on a value of one, if a country's BCP compliance index has a value greater than or equal to the median and zero otherwise – on the two instruments used before (cf. rule of law and business regulation) in addition to bank and country-level control variables and year fixed effect from the baseline model. In the second stage regression, we consider the Z-score as the different dependent variable, the BCP compliance index as the independent variable, completed with the same control variables and a self-selection parameter (measured as the inverse Mills ratio) estimated from the first-stage regression. The findings of the second stage regression presented in Table 9 Models (5), (10), and (15) continue to suggest that both conventional and Islamic banks are more stable in countries with higher BCP compliance index.

## 6. Conclusion

While previous studies using BCPs compliance report no evidence of a significant association with bank stability and efficiency, this study suggests a positive effect of BCP compliance on the stability of banks in 19 developing countries. The findings are robust when including individual chapters of BCPs but show that the effect is more pronounced for conventional banks compared to Islamic ones. A deeper investigation into the components of the dependent variable, Z-score, shows that the results are mainly driven by capital ratios of the two bank types. If anything, our findings have important implications from the regulatory point of view. The findings stand up to a battery of robustness checks allowing for omitted variables, endogeneity concerns, selection bias, and alternative estimation techniques. By conducting this first empirical assessment, we show that despite the success of BCPs in increasing the stability of conventional banks, they appear to be less effective in increasing the stability of Islamic banks. Therefore, these findings combine with the efforts and recommendations of the Islamic Financial Services Board in complementing BCPs' standards with the CPIFRs regulatory guidelines, thus reflecting the specificities of Islamic banks.

A next step in our analysis would be to explore the effect of CPIFRs on the stability of Islamic banks and compare it to the effect of BCPs. In addition, it would be important to identify which BCPs'/ CPIFRs' chapters are responsible for any significant effect on bank stability. Unfortunately, any data showing a comparative assessment of the two guidelines is not currently available, but we hope that they will be integrated in future research on this topic. Similarly, one could also attempt to investigate whether BCPs and CPIFRs guidelines have the same effect on Islamic bank efficiency using scores derived from non-parametric approaches, or using markedbased data such as stock returns and Tobin's Q. While the IFSB has asked banks to start reporting their data on CPIFRs as of January 2016, the data is probably going to be available in 2017, which corresponds to a period beyond the one that we examine.

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# Tables

#### Table 1

Overview of Basel Core Principles studies in conventional banking

Authors	Year	Institution type and countries in sample	Sample size and year	Dependent variable	BCPs effect
Podpiera	2006	65 countries (13 advanced, 19 emerging, and 33	1998–2002	Non-performing loans	(-)
		developing countries)	1998–2001	Net interest margin	(-)
Sundararajan et al	2001	35 countries	1999–2000	Spread risk	insignificant
ui.				Non-performing loans	insignificant
Das et al.	2005	68 countries	1998–2003	Measures of financial stress and quality of financial policies (e.g BCPs)	(-) with macroeconomic pressures
Cihak and Tieman	2008	n.a.	n.a.	BCPs	(-) Non-performing loans
					(+) GDP per capita
Demirgüç-Kunt and Detragiache	2011	86 countries	1999–2006	Z-score	insignificant
Ayadi et al.	2016	75 countries	1999–2014	DEA Efficiency scores	insignificant

# Table 2 Descriptive statistics

Malaysia

35

73.5

18 49.2

91.73

2012

Descriptive sta	isues	Com		and an (CPL)		T-1-		$(CD_{-})$			Track start t				
X7 · 11		Conve	ntional ba	inks (CBs)	(ID)	Islam	nc banks	(CBs)	ap		1 est statist	ICS		F	
variables	1	N 	Mean	Median	5D	N	Mean	Median	SD		W1lks-A	Wilc		F	
Panel A. Dep	endent v	ariable	2.61	2.6	5 (2)	<i>(</i> )7	2.10	2.00	1.10		0.0011	0.01.	**	70.00****	
Z-score		5031	3.61	3.6	5.63	637	3.19	3.22	1.13		0.9844	8.21*	**	79.29***	
LLRGLP		4918	6.10	3.60	24.46	650	6.33	3.19	7.55		0.9999	0.68		0.71	
LLPTLP		5027	1.28	0.71	7.06	672	1.77	0.75	2.96		0.9931	-2.35	**	39.36***	
NPLGLP		3907	8.69	4.70	35.75	457	7.53	3.70	9.75		0.9986	3.74*	**	6.00***	
SDNIM		4449	0.60	0.35	24.27	651	1.36	0.57	2.39		0.9574	-10.98	8***	227.01***	
Panel B. Ban	k level co	ontrol	variables	1105	10.00	0.70	10.00				0.00.00	4.04.4			
Inta		5705	14.19	14.06	19.89	859	13.82	14.02	1.62	-	0.9962	4.01*	**	25.35***	
gtap		5273	15.97	11.53	164.94	754	25.27	18.27	38.1	/	0.9894	-7.82	***	64.51***	
cirp		5505	58.2	52.44	232.61	817	71.64	59.78	72.3	7	0.9872	-1.67	***	81.81***	
niitip		5582	0.4	0.32	287.5	848	0.39	0.3	0.97		0.9998	2.81*	**	0.01	
ladstfp		5419	45.64	33.71	314.97	786	58.22	29.42	92.4	9	0.9936	2.79*	**	40.07***	
Panel C. Cou	ntry leve	el contr	ol variab	les											
BCP index		285	84.95	83.33	12.14										
Chapter 1		285	84.15	87.5	14.55										
Chapter 2		285	74.27	77.5	18.42										
Chapter 3		285	80.09	85	15.71										
Chapter 4		285	87.89	100	16.30										
Chapter 5		285	75.64	75	19.61										
Chapter 6		285	81.22	83	16.66										
Chapter 7		285	81.94	83	16.70										
wgi		285	-0.42	-0.63	0.65										
gdpg		285	4.03	4.3	2.96										
inf		285	6.33	4.5	7.79										
oil		285	5.11	1.06	9.74										
gaz		285	2.2	0.78	2.91										
mineral		285	0.35	0	0.81										
Panel D. BCH	assessi	ment ac	cross cour	ntries and y	vears			_							
Country	Ν	N oł	os. N	N obs	. Mean	Year	BCP	Countr	у	Ν	N obs.	Ν	N obs	. Mean	Year BCP
-	CBs.	(%)	IB	s. (%)		asses	sment			CBs.	(%)	IBs.	(%)		assessment
Albania	12	54.4	. 1	33.3	70.83	2005		Pakista	n	28	30	8	30	77.80	2004
Bahrain	13	62.6	20	56	81.19	2005		Saudi A	Arabia	8	100	4	66.7	97.66	2004, 2011
Bangladesh	32	88.1	7	94.3	49.76	2002	, 2010	Singap	ore	22	36.4	1	46.7	84.64	2002, 2013
Egypt	31	71.4	3	73.3	86.43	2002		South A	Africa	26	38	1	66.7	60.77	1999, 2010
Indonesia	81	65.1	10	37.3	70.16	2000	, 2010	Syria		11	40	2	40	89.64	2008
Jordan	11	86.7	3	73.3	77.50	2003		Tunisia	L	16	69.6	2	60	53.69	2001, 2012
Kenva	39	62	2	30	69.07	2003	. 2010	Turkey		41	47.6	4	43.3	71.72	1999, 2011
Kuwait	6	83.3	- 7	51.4	73.81	2003	,	UAE		19	78.2	9	53.3	90.71	2001
Lebanon	53	52.3	4	30	89.82	2001		UK		167	52	4	51.7	94.22	2002, 2011

#### Table 3 BCP compliance and bank stability: Islamic vs. conventional banks

Conventional banks					Islamic bank	s			Full sample			
Variable	Z-score	Component	s of Z-score		Z-score	Components	of Z-score		Z-score	Componen	ts of Z-score	
		SDROAA	ROAA	TETA		SDROAA	ROAA	TETA		SDROA	ROAA	TETA
										А		
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
BCP ( $\alpha_{BCP}$ )	0.015***	-0.005*	-0.015***	0.085***	0.017**	-0.018	0.001	0.23*	0.017***	-0.01***	-0.005	0.097***
	(0.002)	(0.003)	(0.004)	(0.030)	(0.009)	(0.014)	(0.032)	(0.122)	(0.002)	(0.003)	(0.005)	(0.031)
lnta	-0.042**	-0.068***	-0.038	-2.998***	0.133	-0.473***	-0.259	-7.585***	-0.035*	-0.067**	-0.094**	-3.437***
	(0.019)	(0.023)	(0.034)	(0.283)	(0.094)	(0.168)	(0.350)	(1.580)	(0.019)	(0.029)	(0.046)	(0.307)
gtap	-0.002***	0.000	-0.000	-0.014**	0.001	-0.005	0.024***	-0.001	-0.002***	-0.001	0.003	-0.011*
	(0.001)	(0.001)	(0.001)	(0.006)	(0.001)	(0.005)	(0.006)	(0.020)	(0.001)	(0.001)	(0.002)	(0.006)
cirp	-0.007***	0.01***	-0.012***	0.001	-0.003***	0.005	-0.015**	-0.012	-0.006***	0.01***	-0.014***	0.001
	(0.001)	(0.002)	(0.003)	(0.012)	(0.001)	(0.005)	(0.006)	(0.016)	(0.001)	(0.002)	(0.003)	(0.011)
niitip	-0.120	0.186	0.0334	-1.253*	-0.159	0.905	-0.551	-0.930	-0.134	0.285*	-0.130	-1.376**
	(0.106)	(0.133)	(0.244)	(0.643)	(0.220)	(0.679)	(1.123)	(2.578)	(0.099)	(0.152)	(0.255)	(0.612)
ladstfp	0.001	-0.001	0.001	0.047***	-0.000	0.005	-0.009**	0.034***	0.000	0.002	-0.003	0.046***
	(0.001)	(0.001)	(0.001)	(0.013)	(0.001)	(0.004)	(0.004)	(0.012)	(0.001)	(0.002)	(0.002)	(0.009)
wgi	0.258***	-0.043	0.243***	3.015***	0.082	0.093	0.664	2.559	0.248***	-0.074	0.332***	2.955***
	(0.051)	(0.061)	(0.092)	(0.531)	(0.156)	(0.270)	(0.454)	(2.607)	(0.048)	(0.071)	(0.094)	(0.561)
gdpg	$0.04^{***}$	-0.031***	0.086***	-0.01	0.02	0.04	-0.076	-0.042	0.038***	-0.03***	0.07 * * *	-0.015
	(0.009)	(0.008)	(0.017)	(0.051)	(0.026)	(0.056)	(0.101)	(0.176)	(0.008)	(0.010)	(0.021)	(0.049)
inf	-0.026***	0.033***	-0.026**	-0.036	0.019	-0.103***	0.118**	-0.119	-0.015***	0.006	0.01	-0.034
	(0.004)	(0.008)	(0.012)	(0.026)	(0.012)	(0.028)	(0.047)	(0.094)	(0.004)	(0.011)	(0.016)	(0.025)
oil	-0.002	0.008*	0.02***	0.12***	-0.013**	0.048***	0.011	0.391***	-0.005	0.02***	0.007	0.155***
	(0.005)	(0.004)	(0.007)	(0.034)	(0.005)	(0.013)	(0.016)	(0.078)	(0.004)	(0.007)	(0.008)	(0.032)
gaz	-0.029*	0.044 * * *	-0.041*	-0.042	0.019	0.033	0.259**	0.194	-0.021	0.038**	0.021	0.016
	(0.017)	(0.017)	(0.022)	(0.098)	(0.025)	(0.049)	(0.103)	(0.288)	(0.014)	(0.017)	(0.032)	(0.099)
mineral	0.106***	-0.099***	0.054*	0.217*	0.028	-0.029	0.374*	-0.258	0.079***	-0.07***	0.02	0.126
	(0.022)	(0.020)	(0.030)	(0.119)	(0.047)	(0.085)	(0.222)	(0.363)	(0.021)	(0.023)	(0.037)	(0.121)
Islamic									0.204	-0.181	0.0414	-3.293
									(0.640)	(0.894)	(2.435)	(6.646)
BCP × Islamic ( $\alpha_{inter}$ )									-0.006	0.011	-0.005	0.071
									(0.008)	(0.011)	(0.029)	(0.090)
Constant	3.733***	1.244***	3.024***	50.67***	0.390	8.108***	4.918	106.3***	3.466***	1.51***	3.383***	55.98***
	(0.373)	(0.420)	(0.587)	(4.940)	(1.587)	(2.366)	(7.289)	(24.63)	(0.358)	(0.488)	(0.675)	(5.355)
Obs.	2559	2641	2709	2713	280	284	289	289	2886	2925	2998	3002
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.1398	0.187	0.2254	0.2872	0.3683	0.4187	0.471	0.4642	0.1432	0.1783	0.2149	0.303
Chi2	0.00***	0.00***	0.00***	0.00***	$0.00^{***}$	$0.00^{***}$	0.00***	$0.00^{***}$	$0.00^{***}$	0.00***	0.00***	0.00***
H0: $\alpha_{BCP} = \alpha_{inter}$									6.64**	3.06*	0.01	0.06
H0: $\alpha_{BCP} + \alpha_{inter} = 0$									2.06	0,01	0.12	3.93**

Notes: Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates. \* Statistical significance at the 10% level. \*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

## Table 4

BCP compliance and bank stability: Individual factors

	Conventional b	anks							Islamic banl	ks						
Variable	Z-score								Z-score							
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
chapter 1	0.003							-0.01*	0.011							0.027
	(0.003)							(0.006)	(0.008)							(0.019)
chapter 2		0.014***						0.017**		0.025***						0.039*
		(0.002)						(0.008)		(0.007)						(0.023)
chapter 3			$0.009^{***}$					-0.002			0.01					-0.009
			(0.002)					(0.006)			(0.006)					(0.019)
chapter 4				$0.01^{***}$				-0.005				0.019***				0.025
				(0.002)				(0.006)				(0.007)				(0.028)
chapter 5					$0.008^{***}$			0.006					0.013**			-0.042**
					(0.002)			(0.005)					(0.006)			(0.021)
chapter 6						0.003*		0.005*						0.001		-0.005
						(0.001)	0.011.000	(0.003)						(0.005)	0.007	(0.011)
chapter 7							0.011***	-0.000							0.007	-0.002
1.	0.011	0.022	0.020	0.024	0.02	0.012	(0.002)	(0.005)	0.1.(2**	0.1.40*	0 171**	0.15	0.1.0**	0.150*	(0.006)	(0.016)
Inta	-0.011	-0.023	-0.029	-0.024	-0.02	-0.013	-0.031	-0.041**	0.163**	0.149*	0.1/1**	0.15	0.162**	0.159*	0.151*	0.125
	(0.019)	(0.019)	(0.019)	(0.019)	(0.019)	(0.019)	(0.019)	(0.019)	(0.081)	(0.080)	(0.085)	(0.092)	(0.081)	(0.084)	(0.085)	(0.096)
gtap	-0.003***	-0.003***	-0.003***	-0.002***	-0.003***	-0.003***	-0.003***	-0.002***	-0.000	-0.000	-0.000	0.001	-0.001	-0.001	-0.000	0.001
aim	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.002)
enp	-0.007***	-0.007****	-0.007****	-0.007****	-0.007****	-0.007	-0.007****	(0.001)	-0.003****	-0.003***	-0.003****	-0.003***	-0.003***	-0.003****	-0.003****	-0.004****
niitin	(0.001)	(0.001)	(0.001)	0.120	0.046	0.025	(0.001)	0.005	(0.001)	(0.001)	(0.001)	0.224	(0.001)	0.326	0.242	(0.001)
mup	-0.029	-0.03	(0.102)	-0.129	(0.102)	-0.035	(0.102)	-0.093	-0.220	-0.307	(0.215)	-0.334	(0.224)	(0.247)	-0.243	-0.181
ladetfp	0.001	0.001	0.001	0.001*	0.001	0.001**	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
ladsup	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	-0.000	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
woi	0.255***	0.269***	0.256***	0 193***	0.231***	0.255***	0.262***	0.201***	0.154	0.175	0.140	-0.0331	0.0472	0.199	0.150	0.331
wgi	(0.050)	(0.051)	(0.052)	(0.0514)	(0.050)	(0.050)	(0.049)	(0.064)	(0.126)	(0.126)	(0.134)	(0.160)	(0.147)	(0.124)	(0.132)	(0.314)
adna	0.037***	0.04***	0.043***	0.038***	0.038***	0.036***	0.039***	0.036***	0.034	0.034	0.03	0.023	0.033	0.032	0.028	0.036
saps	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)	(0.009)	(0.008)	(0.009)	(0.024)	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)	(0.024)	(0.025)
inf	-0.026***	-0.022***	-0.028***	-0.022***	-0.024***	-0.025***	-0.022***	-0.026***	0.021**	0.019*	0.025**	0.017*	0.021**	0.021**	0.023**	0.012
	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.005)	(0.004)	(0.004)	(0.010)	(0.010)	(0.011)	(0.010)	(0.010)	(0.010)	(0.010)	(0.012)
oil	-0.011***	-0.009***	-0.006	-0.012***	-0.01***	-0.012***	-0.011***	0.001	-0.019***	-0.014***	-0.02***	-0.02***	-0.017***	-0.02***	-0.017***	-0.017*
	(0.003)	(0.003)	(0.005)	(0.003)	(0.003)	(0.003)	(0.003)	(0.006)	(0.005)	(0.005)	(0.005)	(0.005)	(0.005)	(0.004)	(0.005)	(0.009)
gaz	-0.028*	-0.007	-0.018	-0.024	-0.028*	-0.028*	-0.019	-0.016	0.022	0.055**	0.016	0.019	0.009	0.02	0.028	0.097**
5	(0.016)	(0.016)	(0.016)	(0.016)	(0.016)	(0.016)	(0.016)	(0.019)	(0.025)	(0.028)	(0.025)	(0.027)	(0.026)	(0.025)	(0.025)	(0.046)
mineral	0.083***	0.089***	0.114***	0.093***	0.074***	0.075***	0.095***	0.109***	-0.012	0.011	0.002	0.046	-0.015	-0.004	0.007	0.039
	(0.023)	(0.022)	(0.022)	(0.022)	(0.022)	(0.022)	(0.022)	(0.024)	(0.049)	(0.046)	(0.053)	(0.047)	(0.043)	(0.047)	(0.051)	(0.049)
Constant	4.260***	3.496***	4.010***	3.846***	3.915***	4.313***	3.936***	3.997***	0.585	-0.293	0.633	0.211	0.442	1.520	1.121	-0.430
	(0.350)	(0.362)	(0.332)	(0.353)	(0.320)	(0.315)	(0.333)	(0.429)	(1.538)	(1.369)	(1.484)	(1.517)	(1.419)	(1.384)	(1.400)	(1.583)
Obs.	2,896	2,975	2,848	2,733	2,975	2,975	2,873	2,606	342	350	329	301	350	350	342	280
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.1163	0.1397	0.1414	0.1285	0.1371	0.1202	0.1412	0.1460	0.3374	0.3441	0.3384	0.3488	0.3265	0.2976	0.3271	0.3937
Chi2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***
H0: $\alpha_{cp1} = \cdots = \alpha_{cp7}$								6.03								13.0**

*Notes:* Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates.

\* Statistical significance at the 10% level. \*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

#### Table 4

BCP compliance and bank stability: Individual factors

Variable							
Variable Model #	Z-score	(19)	(10)	(20)	(21)	(22)	(22)
Jalamia	0.721	0.621	0.104	0.258	(21)	(22)	(23)
Islamic	-0.721	-0.021	-0.104	-0.238	-0.344	-0.093	(0.497)
chapter 1 $(\alpha, \cdot)$	0.004	(0.519)	(0.415)	(0.491)	(0.458)	(0.373)	(0.497)
enapter i (u <sub>cp1</sub> )	(0.003)						
Islamic × chapter 1 ( $q_{inter}$ )	0.006						
	(0.008)						
chapter 2	(01000)	0.015***					
1		(0.002)					
Islamic × chapter 2		0.005					
		(0.007)					
chapter 3			0.01***				
			(0.002)				
Islamic $\times$ chapter 3			-0.003				
-h			(0.005)	0.012***			
chapter 4				0.012***			
Islamia × shantar 4				(0.002)			
Islamic × chapter 4				0.000			
chapter 5				(0.000)	0 009***		
enapter 5					(0.002)		
Islamic $\times$ chapter 5					0.001		
isianine in enapter s					(0.005)		
chapter 6					(,	0.003**	
1						(0.001)	
Islamic × chapter 6						-0.002	
-						(0.005)	
chapter 7							0.012***
							(0.002)
Islamic $\times$ chapter 7							-0.007
							(0.006)
Inta	-0.004	-0.016	-0.021	-0.019	-0.013	-0.005	-0.024
	(0.019)	(0.018)	(0.019)	(0.019)	(0.018)	(0.019)	(0.019)
gtap	-0.002***	-0.002***	-0.002***	-0.002**	-0.002***	-0.003***	-0.002***
aim	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
cnp	-0.000***	-0.000	(0.001)	(0.001)	(0.000)	-0.000***	-0.000
niitin	-0.069	-0.101	-0.066	-0.181*	-0.094	-0.086	-0.072
initip	(0.095)	(0.0962)	(0.095)	(0.102)	(0.095)	(0.094)	(0.095)
ladstfp	0.000	0.000	0.000	0.000	0.000	0.001	0.000
F	(0.001)	(0.000)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
wgi	0.242***	0.261***	0.242***	0.17***	0.209***	0.248***	0.25***
0	(0.047)	(0.047)	(0.048)	(0.049)	(0.048)	(0.047)	(0.047)
gdpg	0.039***	0.042***	0.044***	0.038***	0.04***	0.0375***	0.039***
	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)
inf	-0.017***	-0.015***	-0.018***	-0.014***	-0.015***	-0.016***	-0.014***
	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)
oil	-0.012***	-0.009***	-0.008**	-0.013***	-0.011***	-0.013***	-0.012***
	(0.003)	(0.003)	(0.004)	(0.003)	(0.003)	(0.003)	(0.003)
gaz	-0.021	0.002	-0.013	-0.02	-0.025*	-0.022	-0.013
	(0.014)	(0.014)	(0.014)	(0.014)	(0.014)	(0.013)	(0.013)
mineral	0.055**	$(0.07^{***})$	$(0.088^{***})$	$(0.07)^{***}$	$(0.054^{**})$	0.055**	(0.071
Constant	(0.022)	(0.021)	(0.021)	(0.021)	(0.021)	(0.021)	(0.021)
Constant	(0.349)	(0.357)	(0.327)	(0.347)	(0.315)	(0.310)	(0.329)
Obs	3238	3325	3177	3034	3325	3225	3215
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.1227	0.149	0.1439	0.1331	0.1435	0.1216	0.1472
Chi2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***
H0: $\alpha_{cn1} = \alpha_{inter}$	0.03						
H0: $\alpha_{cn1} + \alpha_{inter} = 0$	1.79						
H0: $\alpha_{am2} = \alpha_{inter}$		1.63					
H0: $\alpha_{cm2} + \alpha_{inter} = 0$		10.35***					
H0: $\alpha_{m2} = \alpha_{inter} = 0$			3 94**				
H0: $\alpha_{cp3} = \alpha_{inter}$			1 73				
H0: $\alpha_{cp3} + \alpha_{inter} = 0$			1.75	2 76*			
$u_{cp4} - u_{inter}$				2.70° 4.2**			
$\pi_{0} \alpha_{cp4} + \alpha_{inter} = 0$				4.3	1 79		
HU: $\alpha_{cp5} = \alpha_{inter}$					1.78		
H0: $\alpha_{cp5} + \alpha_{inter} = 0$					4.4**	0.0-	
H0: $\alpha_{cp6} = \alpha_{inter}$						0.96	
H0: $\alpha_{cp6} + \alpha_{inter} = 0$						4.43	
H0: $\alpha_{cp7} = \alpha_{inter}$							6.57**
H0: $\alpha_{cn7} + \alpha_{inter} = 0$							0.86

Notes: Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates. \* Statistical significance at the 10% level. \*\*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

Table 5	
BCP compliance and bank stability: alternative samples	

	Panel A: Alte	ernative sample	es: breakdown by re	gions					
	Excluding G	CC		Excluding SE	EA		Excluding M	ENA	
	CBs	IBs	Full	CBs	IBs	Full	CBs	IBs	Full
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
BCP ( $\alpha_{BCP}$ )	0.014***	0.009	0.014***	0.008*	0.001	0.009**	0.014***	0.016*	0.016***
	(0.003)	(0.010)	(0.003)	(0.004)	(0.010)	(0.004)	(0.003)	(0.009)	(0.003)
lnta	-0.048**	0.091	-0.043**	-0.043*	0.245***	-0.038*	-0.052***	0.146	-0.049**
	(0.020)	(0.121)	(0.019)	(0.022)	(0.089)	(0.022)	(0.020)	(0.112)	(0.020)
gtap	-0.002**	0.001	-0.002**	-0.002	-0.000	-0.002	-0.002***	0.001	-0.002***
	(0.001)	(0.002)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)	(0.001)	(0.001)
cirp	-0.007***	-0.003***	-0.006***	-0.008***	-0.002	-0.006***	-0.007***	-0.003***	-0.006***
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
niitip	-0.0467	0.123	-0.052	-0.093	-0.076	-0.097	-0.09	-0.099	-0.125
	(0.104)	(0.436)	(0.098)	(0.155)	(0.227)	(0.142)	(0.114)	(0.228)	(0.109)
ladstfp	0.001	0.000	0.001	0.001*	0.000	0.000	0.0012*	-0.000	0.001
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.008)	(0.001)	(0.001)
Wg1	0.329***	0.127	0.318***	0.075	-0.025	0.067	0.286***	0.151	0.275***
,	(0.069)	(0.328)	(0.066)	(0.060)	(0.179)	(0.057)	(0.053)	(0.164)	(0.049)
gdpg	0.026***	0.005	0.025***	0.035***	0.005	0.033***	0.046***	0.005	0.045***
· .	(0.009)	(0.023)	(0.009)	(0.009)	(0.026)	(0.009)	(0.011)	(0.027)	(0.010)
inf	-0.029***	-0.018	-0.029***	-0.025***	0.025**	-0.015***	-0.029***	0.028**	-0.01/***
- '1	(0.005)	(0.034)	(0.005)	(0.005)	(0.012)	(0.005)	(0.004)	(0.012)	(0.005)
011	0.042*	0.01	$(0.04^{*})$	-0.000	-0.016****	-0.002	-0.001	-0.013***	-0.004
207	(0.022)	(0.075)	(0.020)	(0.005)	(0.006)	(0.004)	(0.005)	(0.006)	(0.004)
gaz	$-0.00^{++}$	(0.079)	$-0.03^{+}$	-0.015	(0.019)	-0.007	$-0.039^{++}$	(0.01)	-0.033**
minoral	(0.028)	(0.009)	0.020)	(0.019)	(0.023)	(0.010)	(0.018)	(0.023)	(0.013)
mmerai	(0.039)	(0.028	(0.077)	(0.024)	(0.051)	(0.033)	(0.036)	(0.103)	(0.093)
Islamic	(0.023)	(0.059)	(0.022)	(0.024)	(0.055)	(0.024)	(0.030)	(0.152)	(0.034)
Islamic			(0.450)			-0.233			(0.709)
BCP × Islamic			-0.008			(0.983)			(0.709)
$\int dx = \int dx = $			(0.008)			(0.012)			(0,009)
(u <sub>inter</sub> ) Constant	3 036***	1 701	3 853***	1 272***	0.117	(0.012)	3 07/***	0.482	3 692***
Constant	(0.381)	(2.010)	(0.376)	(0.473)	(1.665)	(0.461)	(0.384)	(1.910)	(0.378)
Obs	2369	172	2541	1756	178	1934	2190	246	2436
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.1575	0.2635	0.1618	0.1064	0.4582	0.1138	0:1633	0.4152	0.1628
Chi2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***
H0: $\alpha_{\rm PCP} = \alpha_{inter}$			5.26**			0.54			5.69**
H0: $\alpha_{\rm BCP} + \alpha_{inter} = 0$			0.4			0.52			1.15
stat the state of	Panel B: Exc	luding UK, unl	isted, listed banks						
	Excluding Ul	K	,	Excluding un	listed banks		Excluding lis	ted banks	
	CBs	IBs	Full	CBs	IBs	Full	CBs	IBs	Full
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
BCP ( $\alpha_{BCP}$ )	0.015***	0.019**	0.017***	0.02***	0.03**	0.021***	0.017***	0.01	0.018***
	(0.003)	(0.009)	(0.003)	(0.004)	(0.015)	(0.004)	(0.005)	(0.014)	(0.005)
lnta	-0.004	0.147	-0.004	-0.001	0.185	0.01	-0.042	0.126	-0.041
	(0.025)	(0.098)	(0.024)	(0.032)	(0.156)	(0.033)	(0.025)	(0.141)	(0.025)
gtap	-0.002***	0.001	-0.002**	-0.003*	-0.000	-0.002	-0.003***	-0.000	-0.002***
•	(0.001)	(0.002)	(0.001)	(0.002)	(0.003)	(0.001)	(0.001)	(0.002)	(0.001)
cirp	-0.006***	-0.003	-0.006***	-0.007***	-0.006	-0.007***	-0.006***	-0.003	-0.006***
-	(0.001)	(0.002)	(0.001)	(0.002)	(0.004)	(0.001)	(0.001)	(0.003)	(0.001)
niitip	-0.07	-0.187	-0.125	-0.263	-0.086	-0.239*	-0.059	-0.771***	-0.119
	(0.110)	(0.218)	(0.106)	(0.168)	(0.343)	(0.139)	(0.158)	(0.209)	(0.149)
ladstfp	0.001	-0.001	-0.001	0.001	0.001	0.001	0.001	-0.001	0.000
	(0.001)	(0.001)	(0.001)	(0.003)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
wgi	0.201***	-0.018	0.188***	0.049	-0.045	0.07	0.374***	-0.308	0.318***
	(0.062)	(0.187)	(0.058)	(0.075)	(0.236)	(0.071)	(0.108)	(0.314)	(0.102)
gdpg	0.026***	0.015	0.031***	0.056***	0.015	0.061***	0.019	0.014	0.017
	(0.010)	(0.027)	(0.009)	(0.011)	(0.044)	(0.010)	(0.013)	(0.038)	(0.012)
inf	-0.024***	0.018	-0.015***	-0.028***	0.028	-0.018***	-0.021***	0.022	-0.01
	(0.004)	(0.012)	(0.004)	(0.005)	(0.019)	(0.006)	(0.008)	(0.0206)	(0.009)
oil	-0.003	-0.013**	-0.006	0.001	-0.015**	-0.004	-0.094**	0.04	-0.066**
	(0.005)	(0.005)	(0.004)	(0.004)	(0.007)	(0.003)	(0.0405)	(0.043)	(0.032)
gaz	-0.024	0.01	-0.019	-0.014	0.036	-0.005	0.093	-0.052	0.058

	(0.017)	(0.026)	(0.014)	(0.022)	(0.046)	(0.019)	(0.057)	(0.058)	(0.047)
mineral	0.093***	0.018	0.072***	0.114***	-0.012	0.094***	0.054	-0.03	0.029
linitorui	(0.023)	(0.044)	(0.023)	(0.026)	(0.059)	(0.026)	(0.047)	(0.055)	(0.041)
T-1	(0.023)	(0.0++)	0.00250	(0.020)	(0.057)	(0.020)	(0.0+7)	(0.055)	(0.041)
Islamic			-0.00850			-0.451			0.353
			(0.649)			(0.774)			(0.935)
BCP × Islamic			-0.00326			0.00349			-0.008
$(\alpha, \beta)$			(0.00815)			(0,00966)			(0.012)
( <i>ainter</i> )	2 100***	0.244	2 000***	2 005***	0.002	0.00900)	2 616***	1 425	2 5 2 2 ***
Collstallt	3.190	0.244	3.088	2.803	-0.902	2.557	3.040	1.435	3.322
	(0.441)	(1.684)	(0.432)	(0.543)	(2.463)	(0.568)	(0.530)	(2.270)	(0.524)
Obs.	1891	261	2152	932	138	1070	1490	126	1616
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.145	0 3/18	0.144	0.218	0.386	0.202	0.132	0.403	0.131
Chi2	0.00***	0.048	0.144	0.210	0.00***	0.202	0.152	0.405	0.151
Cm2	0.00****	0.00****	0.00***	0.00****	0.00****	0.00****	0.00****	0.00****	0.00****
H0: $\alpha_{BCP} = \alpha_{inter}$			4.48**			2.49			3.49*
H0: $\alpha_{\rm BCP} + \alpha_{inter} = 0$			3.06*			6.57**			0.9
	Panel C: Alte	ernative sample	s: breakdown by c	risis periods					
	Evoluting th	a married hafore	the	Evoluding th	a 2007/2000 ami	aid maniad	Evoluting th	a maniad aftan th	2007/2000
	Excluding th	e period before	the	Excluding th	e 2007/2009 cm	sis period	Excluding th	e period after in	le 2007/2009
	2007/2009 ci	risis					crisis		
	CBs	IBs	Full	CBs	IBs	Full	CBs	IBs	Full
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	7-score	Z-score
Model #	(1)	(2)	(2)	(4)	(5)	(6)	(7)	(9)	(0)
Model #	(1)	(2)	(3)	(4)	(5)	(0)	(/)	(8)	(9)
BCP ( $\alpha_{BCP}$ )	0.006*	0.016*	0.008 * *	0.021***	0.005	0.021***	$0.012^{***}$	0.004	$0.014^{***}$
	(0.003)	(0.008)	(0.003)	(0.003)	(0.010)	(0.003)	(0.003)	(0.011)	(0.003)
Inta	-0.018	0 139	-0.009	-0.051**	0.223*	-0.042*	-0.047**	0.064	-0.053***
linta	(0.022)	(0.115)	(0.00)	(0.022)	(0.116)	(0.022)	(0.020)	(0,006)	(0.020)
	(0.022)	(0.113)	(0.022)	(0.025)	(0.116)	(0.022)	(0.020)	(0.090)	(0.020)
gtap	-0.002**	0.0001	-0.002*	-0.002*	-0.001	-0.002*	-0.002**	0.000	-0.002**
	(0.001)	(0.002	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)	(0.002)	(0.001)
cirp	-0.005***	-0.003***	-0.005***	-0.007***	-0.003**	-0.006***	-0.008***	-0.004*	-0.007***
Ĩ	(0, 001)	(0, 001)	(0.001)	(0, 001)	(0.001)	(0.001	(0, 001)	(0, 002)	(0.001)
	(0.001)	0.100	(0.001)	0.1001)	0.001	0.101	(0.001)	0.002)	0.175*
niitip	0.08	-0.198	0.002	-0.100	-0.001	-0.181	-0.15	-0.080	-0.1/5*
	(0.178)	(0.245)	(0.154)	(0.121)	(0.399)	(0.113)	(0.108)	(0.217)	(0.103)
ladstfp	0.002**	0.000	0.001	0.001	0.002*	0.001	$0.002^{***}$	-0.001	0.001
1	(0, 001)	(0,001)	(0,001)	(0,001)	(0,001)	(0.001)	(0,001)	(0, 001)	(0.001)
:	0.255***	(0.001)	0.052***	0.217***	0.146	0.001)	0.20(***	(0.001)	0.001)
wgi	0.255***	0.073	0.252***	0.217****	0.140	0.219****	0.296****	0.140	0.200****
	(0.066)	(0.191)	(0.061)	(0.063)	(0.200)	(0.059)	(0.061)	(0.170)	(0.056)
gdpg	0.041***	-0.033	0.032***	-0.007	0.053	-0.003	0.042***	0.017	0.041***
0 10	(0.010)	(0.022)	(0,009)	(0.014)	(0.039)	(0.013)	(0,009)	(0.028)	(0,009)
:£	0.005	0.025***	(0.007)	0.012***	0.055***	0.013)	(0.00))	(0.020)	0.012***
inf	-0.005	0.035***	0.007	-0.043***	-0.055***	-0.043***	-0.022***	0.022*	-0.013***
	(0.005)	(0.012)	(0.005)	(0.005)	(0.019)	(0.005)	(0.004)	(0.013)	(0.004)
oil	0.001	-0.018**	-0.004	0.010**	-0.005	0.008 **	-0.022***	-0.017***	-0.019***
	(0.006	(0.007)	(0.005)	(0.004)	(0.008)	(0.004)	(0.007)	(0.006)	(0.005)
<b>G97</b>	0.058***	0.012	0.045***	0.001	0.08**	0.006	0.011	0.004	0.011
gaz	-0.058	0.012	-0.045	-0.001	0.08	0.000	-0.011	0.004	-0.011
	///////////////////////////////////////	(0.020)	(0, 0, 1, 7)	///////////////////////////////////////	(1) (1/1(1))	(11110)	///////////////////////////////////////	(0.023)	(1) (1) (5)
mineral	(0.018)	(0.030)	(0.015)	(0.021)	(0.0+0)	(0.01))	(0.018)	(***==*)	(0.015)
	0.018)	(0.030) 0.01	(0.015) 0.057**	0.125***	0.364	0.126***	0.092***	-0.000	0.067***
	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024)	(0.021) 0.125*** (0.044)	0.364 (0.228)	0.126*** (0.042)	(0.018) 0.092*** (0.025)	-0.000 (0.045)	0.067*** (0.024)
Islamic	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52	(0.021) 0.125*** (0.044)	(0.040) 0.364 (0.228)	(0.017) 0.126*** (0.042) 0.696	(0.018) 0.092*** (0.025)	-0.000 (0.045)	(0.015) 0.067*** (0.024) 0.816
Islamic	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52 (0.688)	(0.021) 0.125*** (0.044)	(0.040) 0.364 (0.228)	(0.012) 0.126*** (0.042) 0.696 (0.721)	(0.018) 0.092*** (0.025)	-0.000 (0.045)	(0.013) 0.067*** (0.024) 0.816 (0.872)
Islamic	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52 (0.688)	(0.021) 0.125*** (0.044)	(0.040) 0.364 (0.228)	(0.012) 0.126*** (0.042) 0.696 (0.731)	(0.018) 0.092*** (0.025)	-0.000 (0.045)	(0.013) 0.067*** (0.024) 0.816 (0.872)
Islamic BCP × Islamic	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002	(0.021) 0.125*** (0.044)	(0.364 (0.228)	0.0126*** (0.042) 0.696 (0.731) -0.01	(0.018) 0.092*** (0.025)	-0.000 (0.045)	0.067*** (0.024) 0.816 (0.872) -0.014
Islamic BCP × Islamic $(\alpha_{inter})$	(0.018) 0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008)	(0.021) 0.125*** (0.044)	(0.364 (0.228)	$\begin{array}{c} (0.012) \\ 0.126^{***} \\ (0.042) \\ 0.696 \\ (0.731) \\ -0.01 \\ (0.009) \end{array}$	(0.018) 0.092*** (0.025)	-0.000 (0.045)	(0.013) $0.067^{***}$ (0.024) 0.816 (0.872) -0.014 (0.011)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant	0.085*** (0.025)	(0.030) 0.01 (0.080)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575***	(0.021) 0.125*** (0.044) 3.607***	-0.146	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426***	(0.018) 0.092*** (0.025) 3.796***	-0.000 (0.045)	(0.013) 0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611***
Islamic BCP × Islamic $(\alpha_{inter})$ Constant	(0.018) 0.085*** (0.025) 3.807***	(0.030) 0.01 (0.080) 0.753 (1.803)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386)	(0.021) 0.125*** (0.044) 3.607***	-0.146 (1.915)	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458)	(0.018) 0.092*** (0.025) 3.796***	-0.000 (0.045)	(0.013) 0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.422)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant	(0.018) 0.085*** (0.025) 3.807*** (0.388)	(0.030) 0.01 (0.080) 0.753 (1.893)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386)	(0.021) 0.125*** (0.044) 3.607*** (0.472)	-0.146 (1.915)	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458)	(0.018) 0.092*** (0.025) 3.796*** (0.431)	-0.000 (0.045) 1.700 (1.687)	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs.	(0.018) 0.085*** (0.025) 3.807*** (0.388) 1396	(0.030) 0.01 (0.080) 0.753 (1.893) 178	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744	-0.146 (1.915) 171	$\begin{array}{c} (0.017)\\ 0.126^{***}\\ (0.042)\\ 0.696\\ (0.731)\\ -0.01\\ (0.009)\\ 3.426^{***}\\ (0.458)\\ 1915 \end{array}$	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735	-0.000 (0.045) 1.700 (1.687) 171	(0.013) 0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE	(0.018) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes	-0.146 (1.915) 171 Yes	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes	-0.000 (0.045) 1.700 (1.687) 171 Yes	(0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2	0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694	0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953	-0.146 (1.915) 171 Yes 0.3091	(0.042) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Cbi2	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00***	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00***	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00***	0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00***	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00***
Islamic BCP × Islamic ( $\alpha_{inter}$ ) Constant Obs. YFE R2 Chi2	0.013) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00***	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00***	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00***	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00***	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00***
Islamic BCP × Islamic ( $\alpha_{inter}$ ) Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$	(0.013) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00***	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00***	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35	0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11***	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37**
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$	0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00***	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00****	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49	0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00***	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 consideration	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	1.700 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01
Islamic BCP × Islamic ( $\alpha_{inter}$ ) Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable act	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00***	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 g consideration	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00***	-0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00***	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 consideration ent	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protect	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00***	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00***	0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$	(0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poir CBs	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 consideration ent Full	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protect CBs	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 rs Full	(0.013) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs	(0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 g consideration ent Full Z-score	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model #	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1)	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 g consideration Full Z-score (3)	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4)	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5)	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6)	(0.013) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7)	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** <u>ent banks</u> IBs Z-score (8)	(0.067*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model #	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1)	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.021	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 consideration ent Full Z-score (3) 0.000	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protect CBs Z-score (4) 0.21*	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5)	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) 0.20¢***	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.010***	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015*	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP ( $\alpha_{BCP}$ )	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable pol CBs Z-score (1) 0.007	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.03)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 consideration ent Full Z-score (3) 0.009 (0.095)	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4) -0.21*	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5) -0.328**	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 rs Full Z-score (6) -0.296***	(0.013) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.019***	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** <u>ent banks</u> IBs Z-score (8) 0.015*	(0.0157*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025***
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP $(\alpha_{BCP})$	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006)	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 g consideration ent Full Z-score (3) 0.009 (0.006)	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4) -0.21* (0.119)	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5) -0.328** (0.159)	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.1*** Full Z-score (6) -0.296*** (0.098)	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** <u>Highly effici</u> CBs Z-score (7) 0.019*** (0.004)	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** <u>ent banks</u> <u>IBs</u> Z-score (8) 0.015* (0.009)	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP ( $\alpha_{BCP}$ ) Inta	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006) 0.006	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026) -0.115	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 g consideration Full Z-score (3) 0.009 (0.006) 0.001	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4) -0.21* (0.119) 0.163*	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** <u>tion of deposito</u> IBs Z-score (5) -0.328** (0.159) -0.002	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) -0.296*** (0.098) 0.071	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** <u>Highly effici</u> CBs Z-score (7) 0.019*** (0.004) -0.043*	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015* (0.009) 0.154	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003) -0.042*
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP $(\alpha_{BCP})$ Inta	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006) 0.006 (0.046)	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026) -0.115 (0.189)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 g consideration ent Full Z-score (3) 0.009 (0.006) 0.001 (0.004)	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protect CBs Z-score (4) -0.21* (0.119) 0.163* (0.083)	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5) -0.328** (0.159) -0.002 (0.219)	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) -0.296*** (0.098) 0.071 (0.068)	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.019*** (0.004) -0.043* (0.024)	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015* (0.009) 0.154 (0.096)	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003) -0.042* (0.023)
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP $(\alpha_{BCP})$ Inta	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006) 0.006 (0.046) 0.001	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026) -0.115 (0.189) 0.005	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 consideration ent Full Z-score (3) 0.009 (0.006) 0.001 (0.044) 0.001	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4) -0.21* (0.119) 0.163* (0.083) 0.001	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5) -0.328** (0.159) -0.002 (0.219) 0.001	(0.012) 0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) -0.296*** (0.098) 0.071 (0.068) 0.001	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.019*** (0.004) -0.043* (0.024) 0.002***	0.000 (0.045) (0.045) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015* (0.009) 0.154 (0.096) 0.001	(0.013)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003) -0.042* (0.023) 0.002**
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP $(\alpha_{BCP})$ Inta gtap	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006) 0.006 (0.046) -0.001	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026) -0.115 (0.189) 0.005 (2.95)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.35 1.49 g consideration ent Full Z-score (3) 0.009 (0.006) 0.001 (0.044) -0.001 (0.044) -0.001	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protec CBs Z-score (4) -0.21* (0.119) 0.163* (0.083) 0.001 (0.022)	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** tion of deposito IBs Z-score (5) -0.328** (0.159) -0.002 (0.219) 0.001	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) -0.296*** (0.098) 0.071 (0.068) 0.001	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.019*** (0.004) -0.043* (0.024) -0.003***	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015* (0.009) 0.154 (0.096) 0.001 (0.022)	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003) -0.042* (0.023) -0.002**
Islamic BCP × Islamic $(\alpha_{inter})$ Constant Obs. YFE R2 Chi2 H0: $\alpha_{BCP} = \alpha_{inter}$ H0: $\alpha_{BCP} + \alpha_{inter} = 0$ Variable Model # BCP ( $\alpha_{BCP}$ ) Inta gtap	0.016) 0.085*** (0.025) 3.807*** (0.388) 1396 Yes 0.1463 0.00*** Panel D: Oth Unstable poli CBs Z-score (1) 0.007 (0.006) 0.006 (0.046) -0.001 (0.001)	(0.030) 0.01 (0.080) 0.753 (1.893) 178 Yes 0.4601 0.00*** er subsampling itical environm IBs Z-score (2) 0.031 (0.026) -0.115 (0.189) 0.005 (0.005)	(0.015) 0.057** (0.024) -0.52 (0.688) 0.002 (0.008) 3.575*** (0.386) 1574 Yes 0.1694 0.00*** 0.355 1.49 g consideration ent Full Z-score (3) 0.009 (0.006) 0.001 (0.044) -0.001 (0.001)	(0.021) 0.125*** (0.044) 3.607*** (0.472) 1744 Yes 0.1953 0.00*** Weak protect CBs Z-score (4) -0.21* (0.119) 0.163* (0.083) 0.001 (0.003)	-0.146 (0.228) -0.146 (1.915) 171 Yes 0.3091 0.00*** <u>tion of deposito</u> IBs Z-score (5) -0.328** (0.159) -0.002 (0.219) 0.001 (0.003	0.126*** (0.042) 0.696 (0.731) -0.01 (0.009) 3.426*** (0.458) 1915 Yes 0.1947 0.00*** 9.11*** 1.48 Full Z-score (6) -0.296*** (0.098) 0.071 (0.068) 0.001 (0.002)	(0.018) 0.092*** (0.025) 3.796*** (0.431) 1735 Yes 0.1387 0.00*** Highly effici CBs Z-score (7) 0.019*** (0.004) -0.043* (0.024) -0.003*** (0.001)	-0.000 (0.045) 1.700 (1.687) 171 Yes 0.3867 0.00*** ent banks IBs Z-score (8) 0.015* (0.009) 0.154 (0.096) 0.001 (0.002)	(0.017)*** (0.024) 0.816 (0.872) -0.014 (0.011) 3.611*** (0.432) 1906 Yes 0.1379 0.00*** 5.37** 0.01 Full Z-score (9) 0.025*** (0.003) -0.042* (0.023) -0.002** (0.001)

	(0.001)	(0.004)	(0.001)	(0.002)	(0.006)	(0.002)	(0.001)	(0.001)	(0.001)
niitip	-0.19	0.266	-0.195	-0.063	-0.147	-0.213	-0.197	-0.261	-0.222
I	(0.141)	(0.555)	(0.142)	(0.389)	(0.334)	(0.254)	(0.185)	(0.233)	(0.159)
ladstfp	0.001	-0.006	0.001	0.01	-0.001	-0.000	0.001	-0.000	0.000
1	(0.002)	(0.006)	(0.002)	(0.007)	(0.002)	(0.001)	(0.001)	(0.001)	(0.001)
wgi	0.806***	-1.086	0.676**	-1.187	-2.402*	-1.889*	0.183**	0.134	0.146**
6	(0.312)	(1.449)	(0.295)	(1.411)	(1.457)	(1.056)	(0.076)	(0.158)	(0.066)
gdpg	0.035	0.051	0.031	-0.032	-0.195	-0.066	0.014	0.016	0.023
010	(0.026)	(0.074)	(0.025)	(0.121)	(0.148)	(0.096)	(0.020)	(0.027)	(0.016)
inf	-0.031**	-0.07	-0.032***	-0.004	0.048*	0.015	-0.044***	0.023*	-0.018***
	(0.013)	(0.049)	(0.012)	(0.012)	(0.027)	(0.012)	(0.007)	(0.012)	(0.006)
oil	0.01	0.127	0.012	-0.221***	-0.119	-0.195***	0.003	-0.016***	-0.000
	(0.042)	(0.183)	(0.038)	(0.058)	(0.122)	(0.050)	(0.005)	(0.006)	(0.004)
gaz	-0.053	0.0247	-0.046	0.444***	0.301	0.426***	0.018	0.019	0.016
-	(0.039)	(0.211)	(0.035)	(0.111)	(0.225)	(0.096)	(0.031)	(0.026)	(0.021)
mineral	-0.011	0.416*	-0.007	0.346***	0.096	0.279***	0.077	0.046	0.046
	(0.083)	(0.239)	(0.078)	(0.069)	(0.067)	(0.056)	(0.051)	(0.071)	(0.038)
Islamic			0.06			-2.006			0.702
			(0.709)			(1.560)			(0.692)
$BCP \times Islamic$			-0.003			0.025			-0.012
$(\alpha_{inter})$			(0.009)			(0.020)			(0.008)
Constant	3.553***	2.805	3.529***	12.85**	21.69**	19.13***	3.523***	0.493	2.957***
	(0.738)	(3.099)	(0.710)	(5.898)	(9.702)	(5.337)	(0.524)	(1.651)	(0.469)
Obs.	842	95	937	177	76	253	1068	261	1329
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.2626	0.4524	0.2657	0.3449	0.4659	0.3205	0.2098	0.3652	0.199
Chi2	0.00**	0.00**	0.00**	0.00**	0.00**	0.00**	0.00**	0.00**	0.00**
H0: $\alpha_{BCP} = \alpha_{inter}$			1.02			9.6***			13.21***
H0: $\alpha_{BCP} + \alpha_{inter} = 0$			0.42			7.86***			2.6
									(Continued)

*Notes:* Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates. \* Statistical significance at the 10% level. \*\*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

	Convention	al banks		Islamic banks Full sample							
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Model #	Q25	Q50	Q75	Q25	Q50	Q75	Q25	Q50	Q75		
BCP ( $\alpha_{BCP}$ )	0.01**	0.009**	0.011**	0.005	-0.013	0.001	0.013***	0.014***	0.011**		
	(0.004)	(0.004)	(0.005)	(0.018)	(0.014)	(0.017)	(0.004)	(0.004)	(0.005)		
lnta	-0.044*	-0.044*	-0.046*	-0.064	0.063	0.047	-0.047*	-0.044*	-0.042*		
	(0.026)	(0.025)	(0.025)	(0.109)	(0.088)	(0.136)	(0.025)	(0.024)	(0.025)		
gtap	-0.002*	-0.003**	-0.003	-0.0005	-0.002	0.002	-0.002*	-0.003***	-0.002		
	(0.001)	(0.001)	(0.003)	(0.003)	(0.002)	(0.003)	(0.001)	(0.001)	(0.002)		
cirp	-0.008***	-0.008***	-0.009***	-0.004	-0.004	-0.002	-0.008***	-0.008***	-0.008***		
	(0.001)	(0.001)	(0.003)	(0.003)	(0.003)	(0.003)	(0.001)	(0.001)	(0.002)		
niitip	-0.551***	-0.406**	-0.289*	0.073	0.239	-0.052	-0.548***	-0.328*	-0.315**		
	(0.132)	(0.200)	(0.157)	(0.360)	(0.275)	(0.263)	(0.161)	(0.193)	(0.125)		
ladstfp	0.003***	0.002**	0.001	0.000	0.001	-0.001	0.001	0.002**	0.000		
	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)		
wgi	0.177	0.106*	0.093	0.295	0.184	0.125	0.099	0.133**	0.102		
	(0.110)	(0.059)	(0.068)	(0.261)	(0.217)	(0.213)	(0.066)	(0.059)	(0.063)		
gdpg	0.055***	0.046***	0.064 * * *	0.051	-0.004	0.01	0.055***	0.045***	0.053***		
	(0.016)	(0.013)	(0.015)	(0.041)	(0.042)	(0.068)	(0.011)	(0.013)	(0.015)		
inf	-0.027***	-0.033***	-0.037***	0.016	0.024*	0.034	-0.012*	-0.021***	-0.027**		
	(0.007)	(0.005)	(0.008)	(0.015)	(0.014)	(0.032)	(0.007)	(0.006)	(0.013)		
oil	-0.011	-0.006	-0.017***	-0.000	-0.015*	-0.017	-0.003	-0.007**	-0.013***		
	(0.017)	(0.004)	(0.003)	(0.009)	(0.009)	(0.011)	(0.005)	(0.003)	(0.003)		
gaz	-0.029	-0.016	0.024	-0.016	-0.014	-0.010	-0.0453**	-0.0119	0.00824		
	(0.033)	(0.0175)	(0.030)	(0.025)	(0.020)	(0.044)	(0.0178)	(0.0148)	(0.0218)		
mineral	0.075**	0.054*	0.027	0.041	-0.100*	-0.103	0.048	0.04	-0.001		
	(0.037)	(0.028)	(0.056)	(0.062)	(0.054)	(0.075)	(0.030)	(0.028)	(0.049)		
Islamic							0.429	1.185	1.087		
							(0.669)	(1.278)	(1.256)		
BCP × Islamic ( $\alpha_{BCP_{inter}}$ )							-0.008	-0.018	-0.017		
~							(0.008)	(0.016)	(0.015)		
Constant	3.117***	3.940***	4.585***	3.508	4.423***	3.932	2.602***	3.360***	4.648***		
	(0.547)	(0.435)	(0.562)	(2.470)	(1.534)	(2.566)	(0.557)	(0.454)	(0.631)		
Obs.	1735	1735	1735	171	171	171	1906	1906	1906		
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
R2	0.1394	0.1455	0.1353	0.2953	0.3306	0.3454	0.1314	0.1411	0.1337		
Chi2	0.00***	$0.00^{***}$	$0.00^{***}$	0.00***	$0.00^{***}$	0.00***	0.00***	$0.00^{***}$	$0.00^{***}$		
HU: Q25 $\alpha_{BCPCBs} = Q75 \alpha_{BCPCBs}$	0.05			0.04			0.11				
H0 Q25 $\alpha_{BCPIBs} = Q75 \alpha_{BCPIBs}$							0.33				
H0: Q25 $\alpha_{BCP_{inter}} = Q75 \alpha_{BCP_{inter}}$							0.39				

#### Table 6 BCP compliance and bank stability: A quantile regression approach

Notes: Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates. \* Statistical significance at the 10% level. \*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

Table 7
BCP compliance and alternative measures of risk

	Convention	al banks			Islamic ban	ks			Full sample			
Variable	LLRGLP	LLPTLP	NPLGLP	SDNIM	LLRGLP	LLPTLP	NPLGLP	SDNIM	LLRGLP	LLPTLP	NPLGLP	SDNIM
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
BCP ( $\alpha_{BCP}$ )	-0.049***	-0.012**	-0.059**	-0.009***	-0.048	0.012	-0.091	-0.024**	-0.05***	-0.014***	-0.058*	-0.012***
	(0.019)	(0.005)	(0.029)	(0.002)	(0.068)	(0.037)	(0.122)	(0.009)	(0.019)	(0.005)	(0.029)	(0.003)
lnta	-0.653***	0.004	-1.114***	-0.045***	-0.746	-0.185	-1.823	-0.083	-0.652***	-0.005	-1.138***	-0.044**
	(0.152)	(0.032)	(0.237)	(0.013)	(0.826)	(0.299)	(1.312)	(0.174)	(0.152)	(0.035)	(0.232)	(0.022)
gtap	-0.022***	-0.003*	-0.029***	0.002**	-0.028***	-0.004	-0.025	-0.002	-0.023***	-0.003*	-0.03***	0.002**
	(0.004)	(0.001)	(0.007)	(0.001)	(0.009)	(0.005)	(0.019)	(0.005)	(0.004)	(0.001)	(0.007)	(0.001)
cirp	0.007	-0.003	0.019	0.002**	0.052***	0.001	0.062	-0.002	0.016**	-0.002	0.022*	0.001
-	(0.007)	(0.003)	(0.012)	(0.001)	(0.006)	(0.006)	(0.043)	(0.002)	(0.007)	(0.002)	(0.012)	(0.001)
niitip	-0.0571	-0.309*	-0.0842	-0.174*	-1.514	-2.797**	-3.199	-1.387*	-0.0693	-0.482**	-0.0762	-0.245**
-	(0.529)	(0.184)	(1.034)	(0.101)	(1.642)	(1.123)	(2.911)	(0.746)	(0.516)	(0.195)	(1.015)	(0.114)
ladstfp	0.012	-0.001	0.005	0.001**	0.011	-0.004	-0.01	0.012*	0.011	-0.002	0.003	0.004**
-	(0.008)	(0.002)	(0.013)	(0.001)	(0.015)	(0.004)	(0.022)	(0.006)	(0.007)	(0.002)	(0.012)	(0.002)
wgi	0.594	-0.208**	0.756	0.029	0.678	-0.698	2.347	-0.058	0.518	-0.275***	0.728	-0.002
•	(0.380)	(0.091)	(0.584)	(0.041)	(1.207)	(0.502)	(1.760)	(0.219)	(0.364)	(0.101)	(0.546)	(0.047)
gdpg	-0.156***	-0.121***	-0.328***	-0.009	-0.342**	-0.027	-0.342	-0.035	-0.17***	-0.117***	-0.329***	-0.009
0 10	(0.044)	(0.012)	(0.067)	(0.008)	(0.150)	(0.121)	(0.246)	(0.065)	(0.042)	(0.014)	(0.065)	(0.009)
inf	0.006	0.023**	0.053	0.021***	0.087	-0.014	0.11	-0.035	0.002	0.015	0.055	0.006
	(0.023)	(0.009)	(0.044)	(0.005)	(0.053)	(0.030)	(0.096)	(0.029)	(0.021)	(0.009)	(0.040)	(0.009)
oil	-0.007	-0.007	-0.021	-0.007***	0.051	0.01	0.032	0.024	0.018	-0.004	-0.012	-0.001
	(0.021)	(0.005)	(0.025)	(0.002)	(0.044)	(0.011)	(0.073)	(0.016)	(0.019)	(0.005)	(0.025)	(0.004)
gaz	0.353***	0.066**	0.024	-0.002	0.404**	0.099	0.332	0.197**	0.328***	0.076**	0.055	0.038*
8	(0.104)	(0.031)	(0.166)	(0.008)	(0.166)	(0.108)	(0.492)	(0.091)	(0.091)	(0.031)	(0.158)	(0.021)
mineral	-0.433***	-0.084**	-0.463***	-0.032**	0.056	-0.229	-0.202	0.003	-0.385***	-0.09**	-0.464***	-0.029
	(0.126)	(0.042)	(0.175)	(0.014)	(0.291)	(0.182)	(0.232)	(0.070)	(0.122)	(0.038)	(0.164)	(0.019)
Islamic		(,				( )	(/	(,	0.432	-1.304	-1.316	-0.113
									(6.001)	(2.665)	(7.696)	(0.607)
$BCP \times Islamic$									-0.004	0.023	0.011	0.008
$(\alpha_{int})$									(0.073)	(0.033)	(0.093)	(0.007)
Constant	18.48***	2.571***	29.07***	1.770***	18.15	3.401	38.75*	3.427	17.97***	2.821***	29.13***	1.876***
	(2.491)	(0.599)	(4.028)	(0.303)	(15.24)	(5.857)	(21.86)	(3.049)	(2.513)	(0.639)	(3.997)	(0.430)
Obs	2459	2449	1937	2636	246	248	164	283	2705	2697	2101	2919
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R2	0.1703	0.0862	0.1405	0.1533	0.4479	0.1942	0.3495	0.2837	0.1819	0.0832	0.1459	0.1207
Chi2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***
H0: $\alpha_{\rm nep} = \alpha_{\rm inter}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.21	0.41	7.34***
$H_{0}$ $\alpha + \alpha = 0$									0.48	0.08	0.28	0.25

*Notes:* Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates.

\* Statistical significance at the 10% level. \*\* Statistical significance at the 5% level. \*\*\* Statistical significance at the 1% level.

Robustness checks: Altern	lative estimati	ion techniques	5							
	Panel A: Al	ternative estin	mation techniqu	es and standard	ls errors					
	Conventional banks			Islamic ban	ks		Full sample			
	Truncated	Bootstrap	White	Truncated	Bootstrap	White	Truncated	Bootstrap	White	
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
BCP $(\alpha_{RCP})$	0.019***	0.015***	0.016***	0.005	0.016***	0.017***	0.018***	0.017***	0.018***	
	(0.003)	(0.002)	(0.002)	(0.006)	(0.004)	(0.006)	(0.003)	(0.002)	(0.002)	
lnta	-0.033**	-0.039***	-0.049***	0.143**	0.149**	0.16**	-0.024*	-0.035***	-0.045***	
	(0.016)	(0.014)	(0.011)	(0.072)	(0.067)	(0.065)	(0.014)	(0.011)	(0.011)	
gtap	-0.002*	-0.002***	-0.003***	-0.000	0.001	0.001	-0.001	-0.002***	-0.002***	
8r	(0.001)	(0.001)	(0.001)	(0.002)	(0.002)	(0.001)	(0.001)	(0.001)	(0.001)	
cirp	-0.007***	-0.007***	-0.008***	-0.006***	-0.003**	-0.004***	-0.006***	-0.006***	-0.008***	
unp	(0.001)	(0,001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	
niitin	-0.645***	-0.098	-0.232***	-0.246	-0.162	-0.175	-0.459***	-0.134	-0.256***	
mup	(0.155)	(0.082)	(0.088)	(0.248)	(0.239)	(0.205)	(0.146)	(0.085)	(0.084)	
ladetfp	0.002***	0.001**	0.002***	0.000	0.000	0.000	0.002***	0.000	0.001**	
ladsup	(0.002)	(0.001)	(0.002)	(0.000)	(0.001)	(0.000)	(0.002)	(0,000)	(0.001)	
wai	(0.001)	(0.000)	(0.001)	(0.001)	0.066	(0.001)	(0.001)	(0.000)	(0.000)	
wgi	0.071	$(0.20)^{++++}$	(0.025)	0.110	(0.000)	(0.102)	(0.095***	(0.025)	(0.022)	
1	(0.048)	(0.039)	(0.055)	(0.113)	(0.099)	(0.105)	(0.0455)	(0.055)	(0.055)	
gapg	$0.06^{***}$	0.038***	0.056***	-0.009	0.013	0.002	0.058***	0.038***	0.053***	
	(0.011)	(0.008)	(0.007)	(0.028)	(0.022)	(0.022)	(0.011)	(0.009)	(0.007)	
inf	-0.02**	-0.025***	-0.027***	0.021*	0.021*	0.025**	-0.018**	-0.015***	-0.01/***	
	(0.008)	(0.004)	(0.004)	(0.013)	(0.013)	(0.012)	(0.008)	(0.004)	(0.004)	
oil	0.001	-0.003	-0.000	-0.011**	-0.013***	-0.012***	0.000	-0.005**	-0.002	
	(0.004)	(0.004)	(0.003)	(0.005	(0.004)	(0.004)	(0.003)	(0.002)	(0.002)	
gaz	-0.021	-0.027**	-0.023**	-0.03	0.023	0.001	-0.029**	-0.021**	-0.023***	
	(0.014)	(0.011)	(0.010)	(0.020)	(0.024)	(0.017)	(0.011)	(0.009)	(0.009)	
mineral	$0.084^{***}$	$0.104^{***}$	$0.084^{***}$	0.037	0.032	0.068	0.095***	$0.08^{***}$	0.072***	
	(0.028)	(0.018)	(0.019)	(0.067)	(0.075)	(0.057)	(0.026)	(0.020)	(0.018)	
Islamic							0.624	0.204	0.106	
							(0.504)	(0.307)	(0.392)	
BCP × Islamic ( $\alpha_{inter}$ )							-0.01	-0.007	-0.004	
Contineery							(0.006)	(0.004)	(0.005)	
Constant	3.304***	3.679***	3.448***	1.827	0.390	-0.0593	3.137***	3.466***	3.052***	
	(0.324)	(0.275)	(0.237)	(1.204)	(1.099)	(1.007)	(0.296)	(0.225)	(0.248)	
Obs	2113	2606	2606	235	280	280	2355	2886	2886	
YFE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
R2	105	0 1 3 9 8	0 1514	105	0 3683	0 3836	103	0 1432	0 1533	
Chi2	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	0.00***	
$H_{0} \alpha = \alpha$	0.00	0.00	0.00	0.00	0.00	0.00	14 22***	20 74***	15 4***	
$u_{BCP} = u_{inter}$							14.22	20.74	0.21***	
Ho: $u_{BCP} + u_{inter} = 0$	D 1D D	•,	. 1 *				1.64	9.02	9.51	
	Panel B: Pr	opensity score	es matching		1					
	Convention	al banks		Islamic ban	ks		Full sample	- 1.00		
	Treated/	Diff.	T stat	Treated/	Diff.	T stat	Treated/	Diff.	T stat	
	controls			controls			controls			
K-Nearest neighbors										
n = 10	3.737	0.169	1.68*	3.595	0.261	0.89	3.727	0.465	5.36***	
	3.568			3.333			3.262			
n = 15	3.737	0.288	3.00***	3.595	0.267	1.02	3.727	0.425	4.94***	
	3.45			3.328			3.301			
n = 20	3.737	0.259	2.79***	3.595	0.276	1.12	3.727	0.424	5.08***	
	3.478			3.319			3.302			
Kernel	3.737	0.123	1.2	Dropped			3.727	0.443	5.28***	
	3.614			·rr			3.284			
	2.011						0.201			
Radius	3 7 3 7	0.261	6 65***	3 595	0 384	3 11***	3 727	0.273	7 28***	
	3 476	0.201	0.00	3.211	0.001	2.11	3 4 5 4	0.275		

Table 8 Robustne checks: Alternative estimation technic

 Statistical significance at the 5% level.

 \*\*\* Statistical significance at the 1% level.

#### Table 9

BCP compliance and bank stability: Checking for endogeneity

	Conventiona	al banks		· ·		Islamic ban	<s< th=""><th></th><th></th><th></th><th>Full sample</th><th></th><th></th><th></th><th></th></s<>				Full sample				
	IV approach	l		Heckman		IV approach	l		Heckman		IV approach	1		Heckman	
	First stage	2SLS	GMM	Selection	Outcome	First stage	2SLS	GMM	Selection	Outcome	First stage	2SLS	GMM	Selection	Outcome
				equation	equation				equation	equation				equation	equation
Variable	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score	Z-score						
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
BCP		0.013***	0.013***		0.019***		-0.003	0.008		0.024**		0.014***	0.014***		0.02***
$(\alpha_{BCP})$		(0.003)	(0.003)		(0.004)		(0.010)	(0.018)		(0.010)		(0.002)	(0.002)		(0.0035)
Rule of	$0.4^{***}$			0.067***		0.33***			0.017***		0.391***			0.058***	
law	(0.015)			(0.002)		(0.044)			(0.004)		(0.014)			(0.002)	
Business	1.602***			-0.099		1.498			0.299***		1.573***			0.009	
Regulation	(0.331)			(0.048)		(0.915)			(0.072)		(0.294)			(0.033)	
lnta	0.248***	-0.048***	-0.05***	-0.05***	-0.049***	0.39	0.144**	0.691**	-0.136*	0.135	0.269***	-0.042***	-0.042***	-0.043***	-0.043**
	(0.061)	(0.011)	(0.011)	(0.015)	(0.018)	(0.747)	(0.068)	(0.336)	(0.078)	(0.094)	(0.066)	(0.011)	(0.011)	(0.014)	(0.018)
gtap	0.004	-0.002***	-0.01***	-0.002**	-0.002***	-0.026**	0.001	0.004	0.002	0.002	-0.002	-0.002***	-0.002***	-0.002**	-0.002**
	(0.004)	(0.001)	(0.000)	(0.001)	(0.001)	(0.013)	(0.002)	(0.003)	(0.002)	(0.00185)	(0.004)	(0.001)	(0.001)	(0.001)	(0.001)
cirp	0.022***	-0.008***	-0.01***	-0.01***	-0.008***	0.001	-0.004***	-0.006**	-0.006***	-0.004***	0.014***	-0.008***	-0.008***	-0.009***	-0.01***
	(0.006)	(0.001)	(0.001)	(0.001)	(0.001)	(0.009)	(0.001)	(0.001)	(0.001)	(0.001)	(0.005)	(0.000)	(0.001)	(0.001)	(0.001)
niitip	0.046	-0.167*	-0.167*	-0.069	-0.165	-3.365	-0.227	-0.509	-0.983***	-0.141	0.01	-0.181**	-0.182**	-0.101	-0.179*
	(0.656)	(0.088)	(0.088)	(0.114)	(0.114)	(2.749)	(0.204)	(0.457)	(0.361)	(0.206)	(0.668)	(0.084)	(0.084)	(0.108)	(0.107)
ladstfp	-0.003	0.002***	0.002***	0.002***	0.002***	-0.001	0.000	0.002	0.001	0.000	-0.006***	0.001***	0.001***	$0.002^{***}$	0.001**
	(0.002)	(0.000)	(0.000)	(0.001)	(0.000)	(0.005)	(0.001)	(0.002)	(0.001)	(0.001)	(0.002)	(0.000)	(0.000)	(0.001)	(0.001)
wgi	-0.317	0.039	0.039	0.158	0.046	2.319**	0.155	-0.273	-0.297	0.155	-0.066	0.028	0.028	0.119	0.033
	(0.324)	(0.038)	(0.038)	(0.121)	(0.053)	(1.107)	(0.117)	(0.326)	(0.337)	(0.168)	(0.303)	(0.035)	(0.035)	(0.113)	(0.047)
gdpg	-0.1222*	0.048***	0.048***	0.067***	0.046***	-0.271	-0.023	0.082	-0.024	-0.007	-0.162***	0.041***	0.043***	0.062***	0.041***
	(0.064)	(0.009)	(0.009)	(0.021)	(0.011)	(0.266)	(0.022)	(0.074)	(0.060)	(0.024)	(0.061)	(0.009)	(0.009)	(0.020)	(0.010)
inf	-0.145***	-0.018***	-0.02***	-0.03***	-0.01 /***	0.079	0.028**	-0.05	0.018	0.023**	-0.109***	-0.00/*	-0.008*	-0.022**	-0.007
	(0.039)	(0.005)	(0.005)	(0.010)	(0.005)	(0.144)	(0.012)	(0.049)	(0.020)	(0.011)	(0.037)	(0.004)	(0.004)	(0.009)	(0.005)
011	0.013	0.002	0.002	-0.035**	0.002	-0.125***	-0.015***	-0.04***	0.071	-0.01*	-0.019	-0.001	-0.001	-0.028*	-0.001
	(0.022)	(0.003)	(0.003)	(0.016)	(0.004)	(0.040)	(0.004)	(0.013)	(0.043)	(0.005)	(0.01/)	(0.002)	(0.002)	(0.015)	(0.003)
gaz	0941***	-0.025**	-0.025**	0.031	-0.029*	0.234	0.012	-0.065	0.139	0.002	0.//3***	-0.028***	-0.03***	0.035	-0.031**
	(0.102)	(0.0112)	(0.011)	(0.028)	(0.01/)	(0.153)	(0.018)	(0.050)	(0.095)	(0.022)	(0.081)	(0.009)	(0.009)	(0.027)	(0.014)
mineral	1.098***	0.08***	0.08***	0.145***	0.07**	-0.18	0.065	-0.231	0.085	0.068	1.596***	0.069***	0.069***	0.148***	0.061**
T	(0.272)	(0.019)	(0.019)	(0.062)	(0.028)	(0.685)	(0.059)	(0.197)	(0.807)	(0.071)	(0.261)	(0.019)	(0.019)	(0.059)	(0.027)
Inverse					0.077					$0.012^{*}$					0.074
Constant	20 765***	2 000***	2 007***	5 111***	(0.059)	50 029***	2 294	7.940	5 550***	(0.340)	11 602***	2 702***	2 602***	5 006***	(0.059)
Constant	(0.221)	0.261	(0.261)	(0.200)	(0.402)	(0.015)	2.204	-7.849	(0.072)	-2.705	(1.021)	(0.252)	(0.252)	(0.281)	(0.475)
Obs	(0.331)	(0.201)	(0.201)	(0.300)	(0.493)	(0.913)	(1.373)	(0.420)	(0.072)	(1./07)	(1.921)	(0.233)	(0.233)	(0.201)	(0.473)
UUS. VEE	2302 Ves	2302 Ves	2302 Ves	5717 Ves	2302 Vas	203 Vas	203 Vec	203 Vec	JU/ Ves	203 Ves	2023 Vec	2023 Ves	2023 Vec	4340 Vas	2023 Vec
$D^{1}/D_{c}$ $D^{1}$	0 7272	0 1406	0.15	105	0 1513	0.44	0 3524	0 3/25	105	0.4084	0.601	0 1 5 1	0 151	1 05	0 1529
NZ/FS. KZ E test	0.7272	0.1490	0.15		0.1515	0.44	0.5554	0.5455		0.4004	0.091	0.151	0.151		0.1528
Chi2	0.00	0.00***		0.00***		0.00	0.00***		0.00***		0.00	0.00***		0.00***	
CIIIZ Sar/Han I		0.001	0.026	0.00			6.1/18**	5 62**	0.00			2.406	2 146	0.00	
Sai/Haii. J		0.049	0.020				0.140	5.04				2.400	2.140		

*Notes:* Standard errors are clustered at the bank level and are reported in parentheses below their coefficient estimates. \* Statistical significance at the 10% level. \*\* Statistical significance at the 5% level.

\*\*\* Statistical significance at the 1% level.

# Appendix

**Table A.1** Variable definition

Organization	IMF and World Bank Basel Core Principles (BCPs)	IFSB Core Principles for Islamic Finance Regulation (CPIFR)
Program	Basel core Financial Sector Assessment Program (FSAP)	Core Principles for Islamic Finance Regulation Working Group (CPIFRWG)
Starting date	1999	January 2016 or later
Objective	To promote the stability and soundness of the financial sector, and to assess its potential contribution to growth and development.	Provide a set of core principles for the regulation and supervision, taking into consideration the specificities of Islamic banks and complementing BCPs compliance standards.
Principle 1	Objectives, Independence, powers, and transparency	Retained unchanged
Principle 2	Permissible activities	Clear definition of licensed Islamic banks' permissible activities that are subject to supervision by regulatory authorities.
Principle 3	Licensing criteria	Retained unchanged
Principle 4	Transfer of significant ownership	Retained unchanged
Principle 5	Major acquisitions	Whenever major acquisitions lead to higher risk or weak supervision, the regulatory authorities have the power to reject the acquisitions by Islamic banks and impose more prudential conditions.
Principle 6	Capital adequacy	Regulatory capital should be compliant with the Sharia'a law. Accordingly, regulatory authorities requires Islamic banks to adopt an appropriate capital adequacy approach by considering the particularities of Islamic banks (the extent of risk-sharing between bank shareholders (bank capital) and IAHs (depositors)).
Principle 7	Risk management process	Regulatory authorities requires Islamic banks to establish a comprehensive risk management process, including effective BOD and senior management, appropriate steps to comply with the <i>Sharia'a</i> law, and the development of contingency arrangements. This process depends on the Islamic banks' risk profile and their systemic importance.
Principle 8	Credit risk	Regulatory authorities requires Islamic banks to create an adequate credit risk management process (taking into account bank risk appetite, risk profile and market and macroeconomic conditions) that covers the full credit lifecycle including credit underwriting, credit evaluation, and the management of Islamic banks' financing and investment portfolios on a timely basis.
Principle 9	Problem assets, provisions and reserves	Islamic banks should implement adequate policies to early identify and manage of problem assets and to maintain an adequate amounts of provisions and reserves.
Principle 10	Large exposure limits	Regulatory authorities determine whether Islamic banks have adequate policies to identify, measure and control concentrations of risk. Regulators also set prudential limits to restrict bank exposures to single counterparties or groups of connected counterparties.
Principle 11	Exposures to related parties	In order to prevent the risk of conflict of interest with related parties, the supervisory authority requires Islamic banks to monitor transactions with these parties; to take appropriate steps to control or mitigate the risks; and to write off exposures in accordance with standard policies and processes.
Principle 12	Country and transfer risks	Retained unchanged
Principle 13	Market risk	Regulatory authorities determine whether Islamic banks have an adequate market risk management (taking into account bank risk appetite, risk profile, and market and macroeconomic conditions) to identify, measure and control market risk on a timely basis.
Principle 14	Liquidity risk	Regulatory authorities provide the appropriate liquidity instruments for the needs of Islamic banks. These authorities also determine whether Islamic banks have an adequate liquidity risk management (taking into account bank risk appetite, risk profile, and market and macroeconomic conditions) to identify, measure and control liquidity risk on a timely basis.
Principle 15	Operational risk	Regulatory authorities determine whether Islamic banks have an adequate operational risk management framework (taking into account bank risk appetite, risk profile, and market and macroeconomic conditions) to identify, measure and control operational risk on a timely basis.
Principle 16	Interest rates in the banking book	Rate of return risk instead of interest rates in the banking book. Regulatory authorities determine whether Islamic banks have an adequate system (taking into account bank risk appetite, risk profile, and market and macroeconomic conditions) to identify, measure and control rate of return risk on a timely basis. Regulators can also assess the capacity of an Islamic bank to manage the rate of return risk and any resultant displaced commercial risk, and obtain sufficient information to assess bank IAHs' behavior and their maturity profiles.

Organization	IMF and World Bank Basel Core Principles (BCPs)	IFSB Core Principles for Islamic Finance Regulation (CPIFR)
Principle 17	Internal control and audit	Regulatory authorities determine whether Islamic banks have adequate internal control frameworks to establish and maintain a properly controlled operating
•		environment for the conduct of their business taking into account their risk profile.
Principle 18	Abuse of financial services	Retained unchanged
Principle 19	Supervisory approach	Retained unchanged
Principle 20	Supervisory techniques	Regulatory authorities employ the adequate instruments to implement their supervisory approach taking into account the risk profile and systemic importance of an Islamic bank.
Principle 21	Supervisory reporting	The supervisory authority collects, reviews and analyses prudential reports and statistical returns from Islamic banks on both a solo and a consolidated basis, and independently verifies these reports through either on-site examinations or use of external experts.
Principle 22	Accounting and disclosure	Retained unchanged
Principle 23	Corrective and remedial powers	Regulatory authorities possess a range of tools to take corrective actions at early stage to address unsafe practices or activities that could pose risks to an
	of supervisors	Islamic bank or to the banking system, i.e. the ability to revoke the banking license or to recommend its revocation.
Principle 24	Consolidated supervision	Regulatory authorities supervise the banking group on a consolidated basis, they adequately monitor and apply prudential standards to all aspects of the business conducted by the banking group worldwide.
Principle 25	Home-host relationships	Home and host regulatory authorities of cross-border banking groups share information and cooperate for effective supervision of the group and group entities. Supervisory authorities require the local operations of foreign Islamic bank to be conducted to the same standards as those required of domestic Islamic bank
Principle 26	Non applicable	Treatment of Investment Account Holders (IAHs). The regulatory authorities determine how IAHs are treated and also determine the various implications (including the regulatory treatment, governance and disclosures, and capital adequacy and associated risk-absorbency features, etc.) relating to IAHs within its jurisdiction.
Principle 27	Non applicable	<i>Sharia'a</i> governance framework. Regulatory authorities determine whether Islamic banks have a robust <i>Sharīa'a</i> governance system in order to ensure an effective independent oversight of <i>Sharīa'a</i> compliance over various structures and processes within the organizational framework. The <i>Sharīa'a</i> governance structure adopted by an IIFS is commensurate and proportionate with the size, complexity and nature of its business. The supervisory authority also
Principle 28	Non applicable	Equity investment risk. Regulatory authorities satisfy themselves through adequate policies and procedures including appropriate strategies, risk management and reporting processes are in place for equity investment risk management, including <i>Mudarabah</i> and <i>Musharakah</i> investments in the banking book (i.e. financing on a profit-and-loss sharing basis), taking into account Islamic banks' appetite and tolerance for risk. In addition, the supervisory authority ensures that Islamic banks have in place appropriate and consistent valuation methodologies; define and establish the exit strategies in respect of their equity
Principle 29	Non applicable	Islamic "windows" operations. Supervisory authorities define what forms of Islamic "windows" are permitted in their jurisdictions. The supervisory authorities review Islamic windows' operations within their supervisory review process using the existing supervisory tools. The supervisory authorities in jurisdictions where windows are present satisfy themselves that the institutions offering such windows have the internal systems, procedures and controls to provide reasonable assurance that:

(Continued)

Table A.2
Variable definitions

Variables	Definition	Data sources
Z-score	measure of hank insolvency calculated as the natural logarithm of ((ROAAP+TETAP)/SDROAA)	Authors' calculation
2 50010	where ROAAP is the return on average assets. TETAP represents the equity to assets ratio and	
	SDROAA stands for the standard deviation of the return on average assets.	
AROAA	A measure of risk-adjusted return on average assets. It is calculated as the return on average assets	Authors' calculation
	divided by the standard deviation of ROAA.	
LLRGLP	Bank reserves for loan losses divided by gross loans times 100	Authors' calculation
LLPTLP	Bank provisions for loan losses divided by total loans times 100	Authors' calculation
NPLGLP	Bank non-performing loans divided by gross loans times 100	Authors' calculation
SDNIM	The standard deviation of Net interest margin for a three-year period	Authors' calculation
Inta	The natural logarithm of total assets	Bankscope
gtap	The current year growth rate of bank total assets compared with the previous year's total assets.	Bankscope
cirp	The share of bank costs to bank income before provisions times 100	Bankscope
ladetfn	The ratio of liquid assets to denosits and short term funding. It measures and assesses the sensitivity	Bankscone
ladsup	to bank runs: therefore, it promotes financial soundness but it can also be interpreted as excess of	Dankscope
	liquidity coverage.	
BCP index	An overall index, computed as the average of seven chapters defined below. This index takes values	IMF/World Bank
	between 0 and 100, with values closer to 100 suggesting a greater compliance with the BCPs.	Basel Core Financial
		Sector Assessment
		Program (FSAP)
		database
Chapter 1	This index is a normalized sum of the rates of compliance with sub-principles of principle 1 and	IMF/World Bank
	measures the extent to which the preconditions for effective banking supervision have been met:	Basel Core Financial
	1(1): There should be clear responsibilities and objectives set by legislation for each supervisory	Sector Assessment
	agency; 1(2): Each supervisory agency should possess adequate resources to meet the objective set,	Program (FSAP)
	provided on terms that do not undernine the autonomy, integrity and independence of supervisory	database
	provisions related to authorization of banking establishments and their supervision: 1(4): The legal	
	framework should provide power to address compliance with laws as well as safety and soundness	
	concerns: 1(5): The legal framework should provide protection of supervisors for actions taken in	
	good faith in the course of performing supervisory duties; and 1(6). There should be arrangements	
	of interagency cooperation, including with foreign supervisors, for sharing information and	
	protecting the confidentiality of such information. This index takes values between 0 and 100, with	
	values closer to 100 indicate better adherence to these preconditions.	
Chapter 2	This index is a normalized sum of the compliance rates of principles 2-5; 2: Definition of	IMF/World Bank
	permissible activities; 3: Right to set licensing criteria and reject applications for establishments that	Basel Core Financial
	do not meet the standard sets; 4: Authority to review and reject proposals for significant ownership abanges; and 5: Authority to establish criteria for reviewing major acquisitions or investments. This	Sector Assessment Drogram (ESAD)
	index takes values between 0 and 100, with values closer to 100 indicate greater power of	database
	supervisors to licence and influence structure	uuubuse
Chapter 3	Measures the prudence and appropriateness of the minimum capital adequacy requirements that	IMF/World Bank
	supervisors set. This index is the normalized sum of the rates of compliance with principles 6–15: 6:	Basel Core Financial
	Prudent and appropriate risk-adjusted capital adequacy ratios must be set; 7: Supervisors should	Sector Assessment
	evaluate banks' credit policies; 8: Banks should adhere to adequate loan evaluation and loan-loss	Program (FSAP)
	provisioning policies; 9: Supervisors should set limits to restrict large exposures, and concentration	database
	in bank portfolios should be identifiable; 10: Supervisors must have in place requirements to	
	mitigate the risks associated with related lending; 11: Policies must be in place to identify, monitor,	
	and control country risks, and to maintain reserves against such risks; 12: Systems must be in place	
	to accurately measure, monitor, and adequately control markets fisks, and supervisors should have	
	comprehensive risk management process to identify measure monitor and control all other	
	material risks and, if needed, hold capital against such risks: 14: Banks should have internal control	
	and audit systems in place; and 15: Adequate policies, practices, and procedures should be in place	
	to promote high ethical and professional standards and prevent the bank being used by criminal	
	elements. This index takes values between 0 and 100, with values closer to 100 indicating a greater	
	compliance cost for banks of adherence to the minimum capital requirements.	
Chapter 4	This measures the extent of the ongoing supervision. This index is calculated as the normalized sum	IMF/World Bank
	of the rates of compliance rates with principles 16–20: 16: An effective supervisory system should	Basel Core Financial
	consist of on-site and off-site supervision; 17: Supervisors should have regular contact with bank	Sector Assessment
	management; 18: Supervisors must have a means of collecting, reviewing, and analyzing prudential	Program (FSAP)
	reports and statistics returns from banks on a solo and consolidated basis; 19: Supervisors must have	uatabase
	a means of independent variation of supervisory information, ettier infougn on-site examinations	
	a consolidated basis. This index takes values between 0 and 100 with values closer to 100	
	suggesting higher levels of on-going supervision	
Chapter 5	A measure of the required extent of a bank's internal financial records. This variable is the	IMF/World Bank
L	normalized compliance rate for principle 21: Each bank must maintain adequate records that enable	Basel Core Financial

Variables	Definition	Data sources
	the supervisor to obtain a true and fair view of the financial condition of the bank, and must publish	Sector Assessment
	on a regular basis linancial statements that fairly reflect its condition. This variable takes values between 0 and 100, with values closer to 100 suggesting more requirements for information	Program (FSAP)
	disclosure on banks by supervisors	ualabase
Chapter 6	A measure of the formal powers of supervisors, calculated as the normalized compliance rate of	IMF/World Bank
enupter o	principle 22: Adequate supervisory measures must be in place to bring about corrective action when	Basel Core Financial
	banks fail to meet prudential requirements when there are regulatory violations, or when depositors	Sector Assessment
	are threatened in any other way. This should include the ability to revoke the banking license or	Program (FSAP)
	recommend its revocation. This index takes values between 0 and 100, with values closer to 100	database
	indicating greater supervisory powers.	
Chapter 7	Measures the extent to which supervisors apply global consolidated supervision over internationally	IMF/World Bank
	active banks. This index is calculated as the normalized sum of the compliance rates of principles	Basel Core Financial
	23-25: 23: Supervisors must practice global consolidated supervision over internationally active	Sector Assessment
	these banks; 24: Consolidated supervision should include establishing contact and information	database
	exchange with the various supervisors involved primarily host country supervisory authorities: 25:	ualabase
	Supervisors must require the local operations of foreign banks to be conducted at the same standards	
	as required of domestic institutions, and must have powers to share information needed by the home	
	country supervisors of those banks. This index takes values between 0 and 100, with values closer to	
	100 suggesting a movement towards global consolidated supervision.	
vgi	The world governance index is the average of six governance dimensions including: (1) voice and	World governance
	accountability, (2) political stability and absence of violence, (3) government effectiveness, (4)	indicators database
	regulatory quality, (5) rule of law, and (6) control of corruption.	(The World Bank
		and Kaufmann et al. $(2012)$
adna	Growth rate of GDP	(2015)) World Development
gupg		Indicators (WDI)
inf	Inflation rate, based on changes in the consumer price index	World Development
		Indicators (WDI)
oil	Oil rents are the difference between the value of crude oil production at world prices and total costs	World Development
	of production.	Indicators (WDI)
gaz	Natural gas rents are the difference between the value of natural gas production at world prices and	World Development
	total costs of production.	Indicators (WDI)
mineral	Mineral rents are the difference between the value of production for a stock of minerals (tin, gold,	World Development
	<b> </b>	T 1' . (TT TD T)

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