# Low Market Penetration of Takāful Among Malaysians: Non-Takāful Customers' Perspective

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#### **Abstract**

The Malaysian Takāful industry has experienced encouraging growth since its commencement in 1985. Annual growth rate of the industry has been estimated at 20%. Despitethis rapid rate of growth the rate of penetration is still not impressive. This paper seeks to find the reasons for this relatively low penetration rate of the Takāful industry among Malaysians from the perspective of Malaysians who do not participate in the Takāful industry. The method employed to achieve the objective of this paper was the survey method; Data analysed using Logistic Regression Model (LR). This research finds that marketing, is a robust predictor of Takāful demand, as 50% of the respondents have not been approached by any Takāful agents, while religion has a significant relationship with Takāful consumption as majority of the respondents do not plan to have Takāful policies as they opine that Takāful is not permissible being similar to conventional insurance (Haram). Also age was a significant factor among the young respondents not planning to participate in Takāful policies.

Key words-Customer, Takāful, Penetration, Malaysia

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## 1. Introduction

Throughout the development of the  $Tak\bar{a}ful$  industry in Malaysia, the government and regulatory authorities have been very vigilant maintaining the fundamental Islamic principles on which the  $Tak\bar{a}ful$  business is established. With the commitment of regulators and support of practitioners,  $Tak\bar{a}ful$  operators in Malaysia are progressively developing technical knowledge and expertise to support the development of  $Tak\bar{a}ful$  domestically.

Despite the impressive growth rate of *Takāful*, market penetration rate is still considered relatively low although there has been a double digit growth of *Takāful*. Market penetration in 1990 and 1995 was 0.1% and 0.3% respectively which increased after five years to 2.5% then doubled to 5.1% in 2004. Subsequently, the growth of penetration rate from 2004 to 2005 was rather small, as the increase was only a meagre 0.5%, from 5.1% in 2004 to only 5.6% in 2005 (AbdulRahman, 2009). A recent report stated that the *Takāful* penetration in 2010 was slightly around 10% percent in Malaysia compared to conventional insurance which was 40 percent (Razak et al., 2013). To sum up, after 23 years from the commencement of the first *Takāful* operator, the penetration rate is still rather low in Malaysia.

Malaysia is a multi-racial society;  $Tak\bar{a}ful$  products have attracted even the non-Muslim communities, despite the obvious religious and cultural differences. The corporate sector and multinationals also subscribe to  $Tak\bar{a}ful$  products. Nonetheless, the interest shown by non-Muslims and the support of Muslims are not enough to promote the awareness and the growth of  $Tak\bar{a}ful$  and what it has to offer.

# 2. Problem Statement and Objectives of the Study

The *Takāful* market faces several significant challenges. There are many impediments to the market penetration and expansion of the *Takāful* industry that need to be addressed. This paper is expected to answer the following question:

- □ What are the factors that influence market penetration of *Takāful* in Malaysia?
- $\Box$  What are the reasons that some Malaysians do not participate in *Takāful* industry?

The current research has been embarked to identify the factors influencing market penetration of  $Tak\bar{a}ful$  industry and to recognise the reasons why the  $Tak\bar{a}ful$  industry has not been effective to penetrate the Malaysian market. Therefore, this research would provide significant contributions for further enhancement in the  $Tak\bar{a}ful$  industry as well as provide suggestions on how to improve the level of understanding concerning  $Tak\bar{a}ful$  among Malaysians in order to generate a positive response towards  $Tak\bar{a}ful$  as an effective means of protection and investment.  $Tak\bar{a}ful$  operators also could use the findings of this research to expand  $Tak\bar{a}ful$  market. The next section is a review of literature, methods used is presented in Section 3 and Section 4 the finding of the research is elaborated, finally, Section 5 concludes this paper.

## 3. Literature Review

The theories on the factors affecting life insurance demand discussed in this paper will shape the basis for the theoretical framework of this research. Most empirical work on the demand for life insurance considers Yaari's work (Yaari, 1965). Yaari indicated that a demand function for life insurance derived from the maximisation of utility function of the consumer would depend on wealth, income stream, product prices including insurance premium and interest rates. (Wasow and Hill, 1991) considered religion and life expectancy as influencing factors of demand for insurance while (Truett and Truett, 1990) and (Hwang and Greenford, 2005) add more variables as age and educational levels.

(Pissarides, 1980) in extending on (Yaari, 1965) asserted that life insurance was theoretically capable of absorbing all fluctuations in lifetime income. (Lewis, 1989) found more variables, namely, number of dependents has an influence on the demand for life insurance.

(Ward and Zurbruegg, 2002) studied the effect of the political environment in Organisation for Economic Co-operation and Development (OECD) countries on life insurance demand and found a positive significant relationship between political stability and the demand for insurance. They added that banking development is also crucial to the development of the life insurance industry. This is in tandem with the findings of (Outreville, 1996) that showed a positive correlation between financial development and life insurance penetration. An efficient and effective bank service increases consumers' confidence in financial institutions.

Religion from a historical perspective according to (Zelizer, 1979) has provided a strong source of cultural opposition to life insurance. Many religious people believe that a dependence on life insurance comes as a result of disbelief in God's protecting care. (Wasow and Hill, 1991) tested the effects of Islam on life insurance consumption and found that consumers in Islamic nations purchase less life insurance than those in non-Islamic nations.

(Simonson and Nowlis, 2000) asserted that there are several difficulties in identifying people's perceptions towards deciding options as it relates to a number of considerations and potential perceptions from a marketing point of view. Normally, people have different underlying intentions while considering their choices. As the underlying factors for buying behaviour are quite similar to the concept of perception in the process of choosing a product, consumer values can be taken into account in identifying people's perceptions towards Takāful.

According to (Aris et al., 2009) although Malays are aware of *Takāful*, they are not convinced that it is what they require for financial planning compared to other wealth planning instruments such as unit trusts. They added, that in the future, Takāful operators may need to look at creative products for protection, education and investment purposes. They listed in their paper the factors influencing the Malays' purchasing decision of Takāful which include scope of policy, claims paying ability, customer service, convenience and product pricing.

They emphasised that sales of insurance policies are highly dependent on the services provided by the insurance agents, as the agents are the vanguards of the insurance companies they represent.

(Abdi, 2007) stated that there are many factors limiting *Takāful* growth including the demographic characteristics of the Muslim population in terms of education and awareness of *Takāful* and how it differs from its conventional counterpart. He added that educational level, product understanding and the role of social and family welfare systems are some of the factors that influence the demand for *Takāful* as well as life insurance.

(Mohamed et al., 2013) examined various variables in order to find the factors influencing  $Tak\bar{a}ful$  market penetration in Malaysia, the focus was on customers who are participating in  $Tak\bar{a}ful$ . Results indicated that age, gender, marital status, education, religion, income,  $Tak\bar{a}ful$  awareness, product varieties and staff and  $Tak\bar{a}ful$  agents' knowledge show a significant relationship with the decision to participate in  $Tak\bar{a}ful$  plans or otherwise. Other variables examined were found insignificant relationship to respondents' decision on participating in  $Tak\bar{a}ful$  such as product prices, services and mudharabah return, although various prior studies indicated that the relationship between demand for life insurance and insurance price and services rendered is highly significant.

The above studies highlighted a multitude of factors which have effects on the demand for life insurance, such as income, political stability, financial development and life insurance penetration, successful economic development, education, creative products for protection, as well as demographic characteristics such as age, education and awareness.

# 4. Data and Methodology

Data collection method used for the purpose of this paper was a structured questionnaire containing a list of questions seeking the reasons behind abstaining from *Takāful* products. In essence, the objective of the questionnaires was to extract information from Malaysians to unearth the factors influencing *Takāful market* penetration in Malaysia. A total of 500 sets of questionnaire were distributed to the respondents, response rate 51.6%.

The questionnaire was a brief survey consisting of two sections (see Appendix A). The first section covers socio-demographic characteristics of the respondents which included age, gender, race, religion, monthly income, marital status, educational levels and occupation. The second section consisted of 11 questions of various types. Investment is part and parcel of family  $Tak\bar{a}ful$  plans. Therefore, respondents were asked whether they were engaged in any form of investment. In order to know whether respondents will plan to participate in  $Tak\bar{a}ful$  or otherwise, the researcher measured their level of understanding of the  $Tak\bar{a}ful$  concept and their capability in differentiating between insurance and  $Tak\bar{a}ful$ . In the second section, variables such as income, awareness of  $Tak\bar{a}ful$  existence, awareness of  $Mudh\bar{a}rabah$  return and marketing strategies are included.

The initial questionnaire was first pre-tested with eighteen (18) officers and executives from different fields where their comments were considered. The amended version of the survey was sent to the mentioned groups for their feedback as the survey was prepared in a Google document in a web page. The same set was also emailed to the members of ibfnet@yahoogroups.com as well as International Center for Education in Islamic Finance (INCEIF) staff members. The Response rate was 51.6% or 258 out of 500 questionnaires were completed and returned.

Based on theoretical aspects, this research hypothesises that varying factors influence demand for Takāful products. The factors that influence penetration rate of Takāful industry can be explained by independent variables including socio-demographic factors and other factors namely income, awareness, marketing strategies and religion of participants.

The theoretical framework for this research can be described using the Logistic Regression (LR) Model which is a type of predictive model that can be used when the target variable is a categorical variable with two categories - for example 'Yes'/No planning / not planning to participate in Takāful schemes. The model is used to examine hypothesised independent variables, to test each variable independently, to find if there is any relationship between the variables, and if these factors affect the penetration of *Takāful* industry in Malaysia. The logistic model formula computes the probability of the selected response as a function of the values of the predictor variables.

LR model is designed to test the relationships between binary data: plan/not plan to participate in Takāful schemes as the dependent variable for those who are not participating during the survey period. The independent variables are age, gender, marital status, religion, education, income, awareness and marketing. The regression model is expressed as follows:

Ln 
$$P/I-P = B_0 + b_1X_1 + b_2 X_2 + b_3 X_3 + b_4 X_4 + b_5 X_5 + b_6 X_6 + b_7 X_7$$
  
+  $b_8 X_8 + b_9 X_9 + b_{10} X_{10}b +_{11} X_{11} + b_{12} X_{12}$ 

#### Where:

## Ln P/(1-P) is the log odds of the dependent variable:

Holding  $Tak\bar{a}ful$  policy =1 and Not holding  $Tak\bar{a}ful$  policy =0

The "b" terms are the logistic regression coefficients, b0 is the constant,  $b_1$  coefficients for  $x_{1=}$  Age;

b<sub>2</sub> coefficients for  $x_2$  Gender:

 $b_3$  coefficients for  $x_{3}$ = Marital;

b<sub>4</sub> coefficients for x<sub>4=</sub> Religion;

 $b_5$  coefficients for  $x_{5=}$  Education;

 $b_6$  coefficients for  $x_{6=}$  Income;

 $b_7$  coefficients for  $x_7$ = Awareness on  $Tak\bar{a}ful$ ;

 $b_8$  coefficients for  $x_{8=}$  Awareness on *Mudhārabah*;

b<sub>9</sub> coefficients for x<sub>9=</sub> Services;

 $b_{10}$  coefficients for  $x_{10}$ = Products;

 $b_{11}$  coefficients for  $x_{11}$ = Prices; and

 $b_{12}$  coefficients for  $x_{12}$ = Knowledge Score.

The first step was to assess the overall fit of the model to the data. A number of statistical tests will be presented in Table 1. The statistical tests are Chi-Square test, Nagelkerke R-Square, Cox & Snell R-Square, Hosmer and Lemeshow test and Overall Percentage Prediction (%).

Table 1: Test of Model Coefficient

Test	Value
P-value of Chi-Square test (Model)	0.000
Nagelkerke R-Square	0.291
Cox & Snell R- Square	0.217
Hosmer and Lemeshow Test	0.409
Overall Percentage Prediction (%)	71.30

Table 1 presents the Chi-Square statistics with p-value less than 0.05 which indicates that the model is significant. Cox & Snell R-Square and Nagelkerke R-Square indicate the proportion of variation in the dependent variable which is explained by the independent variables. Both values must vary from 0 to 1. The Cox & Snell R-Square and Nagelkerke R-Square are 0.291 and 0.217 respectively. Usually Nagelkerke R-Square value is higher than Cox & Snell R Square.

To assess the goodness-fit of the model, Hosmer and Lemeshow test is calculated whose Chi-Square value is 0.409 higher than the p-value 0.05 and thus it can be concluded that this LR model fits the data. The predictive accuracy of the model is 71.30% and the error rate is merely 28.7%. From these results, a conclusion can be drawn that the LR model can possibly

predict the reasons why non-participants do not plan to participate in the *Takāful* industry in Malaysia.

## 5. Findings

The Logistic Model formula computes the probability of the selected response as a function of the values of the predictor variables

The Logistic Model is then expressed as follows:

Ln  $P/1-P = \beta_0 + b_1 age_1 + b_2 gender_2 + b_3 maritul_3 + b_4 religion_4 + b_5 education_5 + b_6 income_6$ +b<sub>7</sub>existanceawarness<sub>7</sub>+b<sub>8</sub>marketing<sub>8</sub>+b<sub>9</sub>awareofmudarabah<sub>9</sub>

#### Where:

Ln P/1-P: is the dependent variable for plan/not plan to participate in Takāful policies.

 $\beta_0$ : is an intercept,

The partial regression coefficients  $\beta$ 1,  $\beta$ 2,  $\beta$ 3,  $\beta$ 4,  $\beta$ 5, are unknown parameters.

The independent variables:  $X_{1}$  age,  $X_{2}$  gender,  $X_{3}$  marital status,  $X_{4}$  = religion,  $X_{5}$  = education,  $X_6$  = income,  $X_7$  = takaful awareness,  $X_8$  = marketing,  $X_9$  = awareness of *Mudhārabah* profit.

From the LR output, the first table to be considered is the classification Table 2 which presents the results without including the independent variables into the equation this is compared to output where all the independent variables are included into the equation in Table 3 to determine whether the latter is appropriate for the data set.

Table 2 presents the classification table for variables not in the model. 100% refers to those who are planning to have a *Takāful* policy while 0% for those who are not planning to have *Takāful* policy. The overall percentage of predictions was 56.3% accurate.

When explanatory variables were included in the model, Table 3 shows the columns with the two predicted values of the dependent variables, while the rows are the two actual values of the dependent variables. In a perfect model, all cases will be on the diagonal and the overall percent correct will be 100%.

In this research, 77% were correctly classified for planning to participate in Takāful and 63.9% not planning to participate in *Takāful*. Overall 71.3% were correctly classified. This is a considerable improvement on the 56.3% correct classification with the constant model, so we know that the model with the independent variables is significantly a better model. The classification error rate has changed from the original 56.3% by adding the variables which could then predict with 71.3% accuracy. The model appears good after evaluating with the tests presented earlier.

The Variables in the equation (see Table 4) have important elements to be analysed. The Wald statistic and associated probabilities provide an index of the significance of each predictor in the equation. The Wald statistic has a Chi-Square distribution.

The simplest way to assess Wald is to take the significant values and if the value is less than 0.05, then the variable does make a significant contribution. In this case, it is clear that age (p=0.045), religion (p=0.000), and marketing (p=0.005) contributed significantly to the prediction of the respondents not planning to participate in  $Tak\bar{a}ful$  plans. While the other variables namely marital status, gender, education, income, awareness of existence of  $Tak\bar{a}ful$ , awareness of  $Mudh\bar{a}rabah$  profits were insignificant variables with p-value more than 0.05 in relation to the decision of "planning to have a  $Tak\bar{a}ful$  policy".

Table 2 Classification Table When Variables are not in the Model

		Predicted		
		Planning to have a Takāful policy	Not Planning to have a <i>Takāful</i> policy	Percentage Correct
Dependent Variable	Planning to have a Takāful policy	0	139	0
	Not Planning to have any Takāful policy	0	108	100
	Overall Percentage			56.3

Table 3 Classification Table When Variables are in the Model

		Predicted		
		Planning to have a Takāful policy	Not Planning to have a <i>Takāful</i> policy	Percentage Correct
Dependent Variable	Planning to have a <i>Takāful</i> policy	107	32	77.0
	Not Planning to have any	39	69	63.9

Takāful policy		
Overall Percentage		71.3

Table 4 Logistic Regression for non-Participants' Survey

			Sig.				95.0% C.	I.for OR
	В	S.E.	P<0.05	Wald	df	Exp(B)	Lower	Upper
Age			7.377	5	.194			
Age (1)	1.882	1.329	2.006	1	.157	6.568	.485	88.856
Age (2)	.880	.817	1.162	1	.281	2.412	.487	11.954
Age* (3)	1.591	.794	4.012	1	.045	4.909	1.035	23.292
Age (4)	.525	.740	.504	1	.478	1.690	.397	7.206
Age (5)	.743	.784	.898	1	.343	2.102	.452	9.762
Gender (1)	299	.312	.922	1	.337	.741	.402	1.366
Race			2.473	3	.523			
Race (1)	.634	.762	.701	1	.411	1.896	.425	8.484
Race (2)	.578	.652	.697	1	.378	.983	.346	6.984
Race (3)	.215	.301	.546	1	.126	.783	.154	4.956
Marital (1)	.061	.391	.024	1	.877	1.062	.494	2.284
Religion* (1)	-1.412	.353	15.965	1	.000	.244	.122	.487
Education			1.374	3	.712			
Education (1)	.243	.505	.232	1	.630	1.275	.474	3.433
Education (2)	.549	1.169	.221	1	.639	1.731	.175	17.110
Education (3)	.379	.336	1.269	1	.260	1.461	.755	2.825
Income			4.812	7	.683			
Income (1)	128	.878	.021	1	.884	.880	.157	4.921
Income (2)	.084	.614	.019	1	.891	1.088	.327	3.624
Income (3)	.262	.612	.184	1	.668	1.300	.392	4.310
Income (4)	.058	.598	.009	1	.923	1.060	.328	3.418
Income (5)	.476	.708	.453	1	.501	1.610	.402	6.443
Income (6)	-2.041	1.177	3.006	1	.083	.130	.013	1.305
Income (7)	.024	1.105	.000	1	.982	1.025	.117	8.944
<i>Takāful</i> Existence Awareness	711	.526	1.822	1	.177	.491	.175	1.379

Marketing*		.347						
Constant	695	1.450	.230	1	.632	.499	.187	1.524

The coefficient estimate from the LR model:

Ln P/1-P = -.695+ 1.882 [Age (1)] +0.880 [Age (2)] +1.591 [Age (3)] +0.525 [Age (4)] +0.743 [Age (5)] -0.299 [Gender (1)] +.634 [Race (1)] +.578 [Race (2) +.215 [Race (3]) +0.061 [marital (1)] -1.412 [Religion (1)] +0.243 [Education (1)]+ 0.549 [Education (2)]+ 0.379 [Education (3)] -0.128 [Income (1)] +0.084 [Income (2)] + 0.262 [Income (3)]+ 0.058 [Income (4)] + 0.476 [Income (5)] -2.041 [Income (6)] + 0.024 [Income (7)] -0.711 [Takāful awareness] + 0.964 [Marketing] -0.628 [Awareness of Mudhārabah profit]

The estimated parameters of the regression equation are reported in Table 4 using binary data plan/not plan to participate in *Takāful* industry as the dependent variable. Other than sociodemographic factors, marketing, religion, education levels, awareness as well as income variable were included to measure the effects of affordability to participate in *Takāful* plans.

Summary statistics of the variables used in this research included three independent variables namely **age, religion and marketing strategies** which were statistically significant at p-value less than 0.05. While the other variables; marital status, gender, education, income, awareness of existence of *Takāful*, awareness of *Mudhārabah* Return were insignificant with p-value more than 0.05 in relation to the decision of planning to have a *Takāful* policy. The insignificant independent variables from the model with positive coefficients were marital status, education and awareness of *Mudhārabah* profit. Variables with negative coefficients were gender, awareness of *Takāful* existence and income which showed inconsistent results, having both negative and positive values for the different levels of income.

In general, the **age** variable is positively related to the dependent variable but has p-value more than 0.05 hence it is insignificant; but sub-group (3) shows p-value 0.45 which is <0.05. Therefore, age may be considered to be a significant factor that influences the public to participate in  $Tak\bar{a}ful$ . There are contradictory conclusions concerning the effect of age on the demand for life insurance. (Showers and Shotick, 1994, Baek and DeVaney, 2005) found that the effect of age was positive and significant, but (Ferber and Lee, 1980, Chen et al., 2001) found a negative significant relationship between age and life insurance demand.

**Religion** is a significant variable (showing negative sign) related to planning to have a *Takāful* policy, based on the coding of variables where (1) is for Muslim respondents. This means that Muslims are more likely to participate in *Takāful* policies in comparison to non-Muslims. The finding of religion is in tandem with prior studies on demand for life insurance. According to (Chui and Kwok, 2009, Browne and Kim, 1993, Beck and Webb, 2003) historically, religion has provided a strong source of cultural opposition to life insurance in Europe before the 19<sup>th</sup> century, and nowadays in several Muslim countries. The belief

generally is that reliance on a life policy implies distrust in God's protective care (Zelizer, 1979). The religion variable is the percentage of individuals with Christian and Islamic beliefs; a negative relationship is expected. From the finding of the current research, a large portion of the respondents are not able to differentiate between insurance and Takāful and believe both are the same. Some of the respondents believe both are in contradiction with Shariah rules.

Marketing strategies shows statistically significant and positively related to plan to have Takāful policy. Good marketing strategies and better marketing skills of staff and agents of Takāful operators will attract more people to plan to have Takāful policies. The more the Takāful staff and Takāful agents approach and provide information on Takāful products, the more people will plan to have *Takāful* policies. This is in tandem with a recent study by (Aris et al., 2009) who revealed ignorance of *Takāful*, its products, benefits and operations were attributed to the poor marketing strategies that were carried out by the Takāful operators over the years.

Awareness of Takāful unexpectedly shows negatively insignificant influence on planning to have Takāful policies. According to the data collected majority of non-Takāful participants are aware of the existence of Takāful. But to what level they understand and are able to differentiate between insurance and *Takāful* concepts is questionable. According to (Aris et al., 2009) non-Takāful consumers are aware of existence of Takāful products offered by Takāful operators but not necessarily in detail about Takāful benefits.

Education Level shows a positive relationship with planning to have Takāful but insignificant p-value of 0.05 which is unexpected since more well educated people are expected to be well-versed with the advantages of insurance as well as *Takāful*. However this was not indicated in the data of this research. Several studies in demand for insurance such as, and (Baek and DeVaney, 2005, Burnett and Palmer, 1984, Ferber and Lee, 1980, Gandolfi and Miners, 1996, Hammond et al., 1967) showed that there is a positive relationship between education and life insurance demand. They recognised that those who have better education will purchase more life insurance, potentially due to the fact that households with greater education can expect their income to continue to increase at a faster rate and for a longer period of time.

**Gender** showed a negative sign for  $\beta$  coefficient and also showed an insignificant p-value of 0.05. While marital status shows positive relation with married respondents in comparison to singles but statistically is insignificant at p-value of 0.05. The results are in concurrence with (Hammond et al., 1967); (Mantis and Farmer, 1968) were among the first to examine how marital status influences life insurance demand of households, whereby demand for life insurance and marital status have been found to strongly affect both household and individual life insurance demand.

**Income** shows an insignificant relationship with the dependent variable at p-value 0.05 level and coefficient shows inconsistent results that have both negative and positive signs for the different levels of income. Perhaps the type of data collected has an impact on this result as the data does not distinguish between family and general  $Tak\bar{a}ful$ . Many other studies confirmed there is a positive relationship between demand for life insurance and income, such as(Beck and Webb, 2003, Beenstock et al., 1986, Browne and Kim, 1993, Burnett and Palmer, 1984, Chui and Kwok, 2009, Li et al., 2007, Outreville, 1996) which affirmed that increasing in income makes insurance more affordable and creates a greater demand for life insurance to safeguard the potential income of the insured and the well-being of dependents. This is also confirmed by a large number of respondents who participated in the current research when asked for the reasons why they do not plan to participate in  $Tak\bar{a}ful$  industry. It was found that (39%) although they are willing they do not have sufficient income (see Table 5).

**Table 5:** The Reasons for not Planning to have a *Takāful* Policy

Reason	Frequency	Percent
Beliefs	26	16.9
Insufficient income	60	39.0
Not aware of <i>Takāful</i>	12	7.8
Depend on social security/Government support	10	6.5
Others	46	29.9

Other independent variables were statistically insignificant but positively related to planning to have a *Takāful* policy. These were awareness of *Mudhārabah* profit, belief and social security. Many studies reached conflicting conclusions. The contradictory conclusions may result from different data sets, variable measurement and methodology used. Thus, the relationships between comprehensive list of factors and the demand for *Takāful* still needs to be examined further to find the most important factors influencing non-*Takāful* participants' decision on planning to participate on *Takāful*.

LR coefficients can also be reported as Exp (B) which is also known as Odd Ratio (OR). OR is the difference in the log of odds of the dependent variables for one value of categorical variable (plan to have a *Takāful policy*) vs. group (Not plan to have a *Takāful policy*), after controlling the confounding effects of the covariates in the model.

The odd ratio for religion was 0.244; which indicated that around 24% of Muslims more interested to have  $Tak\bar{a}ful$  policies than the non-Muslims. Marketing odd ratio was 2.621, thus

with increased marketing activities by staff and agents of *Takāful* it will influence the people planning to have *Takāful* policies by two times.

In sum, the following variables were found to be significant: Age, religion and marketing. This means the mentioned variables are important variables to be considered by Takāful operators in approaching non-participants in order to participate in Takāful plans. Besides age, gender, education, income, marital status, knowing about the existence of Takāful, awareness of Mudhārabah profits, were found not to be significant.

The objective of this research was to investigate the reasons why some Malaysians did not plan to participate in the *Takāful* industry. From the results in the LR (see Table 4) among the variables that measured the reasons why the respondents do not plan to have any Takāful policies are age, religion and marketing, which were the significant variables compared to other variables.

The other variables were not significant and some had negative values. More detailed information on why the respondents do not plan to participate in Takāful industry is presented in Table 5. 17% of respondents stated that the reasons they did not participate in the Takāful was that they suspect Takāful funds are not invested in Shariah compliant investments. According to (Othman and Abdul Hamid, 2009) people still misunderstand and some of them do not have any trust in *Takāful* funds that are invested according to *Shariah* principles.

## 6. Conclusion

In this research, dependent variable planning/not planning to participate in *Takāful* industry was used as binary data via binary LR model. Results of this research indicated that 140 (56.2%) were planning to participate in the *Takāful* industry while 109 (43.8%) did not plan to participate based on the reasons stated in Table 5. 60 (39%) who do not have sufficient income, 26 (16.9%) stated that their religious belief being the reason for their nonparticipation and 12 (7.8%) are not aware of the existence of Takāful. Age, religion and marketing strategies show a significant relationship with planning to participate in Takāful plans. Marital status, educational levels and awareness of Mudhārabah returns show a positive relationship, while income shows an insignificant relationship statistically as well due to the inconsistency in the positive and negative values of income levels, although various prior studies indicated that the relationship between demand for life insurance and people with high levels of income is highly significant. In sum, better marketing strategies, more awareness of the advantages of Takāful and better understanding of Takāful products may increase the demand for Takāful and these aspects will consequently improve the Takāful penetration rate among Malaysians in general.

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# **Appendix A: Non- Participants Survey**

Survey on "Factors Influencing the Market penetration of *Takāful* industry in Malaysia For the period 1985-2008"

# Dear Respondent,

The purpose of this study is to identify the factors that influencing the market penetration of  $Tak\bar{a}ful$  industry as compared to the conventional insurance in Malaysia. This research under the expert guidance of:

## Prof. Datuk Dr. Syed Othman Alhabshi

E-mail: soalhabshi@inceif.org

Tel: +603-76514013

Please take 5-10 minutes of your time to fill up this survey questionnaire.

Thank You for your cooperation.

Yours sincerely

# Omaima Eltahir BabikirMohamed (PhD candidate)

Email: omymakh@gmail.com

TEL: +60163430273

## Instructions

The success of this study depends on your responses to the following questions. I hope you will give honest answers to ensure that the information provided truly reflect the reality.

# Section 1: Socio- demographic characteristics:

Please tick (/) beside the suitable information about your background

Age	[ ] Below 20	[ ] 20-30
	[ ] 31-40	[ ] 41-50
	[ ] 51-60	[ ] Above 60
Gender	[ ] Male	[ ] Female
<b>Marital Status</b>	[ ] Single	[ ] Married

Religi	on [ ] Muslim [ ] Non-Muslim
Race	[ ] Malay [ ] Chinese [ ] Indian [ ] Others
Level	of Education
	[ ] Primary school [ ] STPM
	[ ] SPM [ ] Undergraduates
	[ ] Graduate [ ] Postgraduate
Mont	hly income
	[ ] below RM 2,000 [ ] RM 2,000 – RM 4,000
	[ ] RM 4,001 – RM 6,000 [ ] RM 6,001 – RM8, 000
	[ ] RM 8,001 – RM 10,000 [ ] RM 10,001 – RM 12,000
	[ ] RM 12,001 – RM 15,000 [ ] Above RM 15,000
Positi	on
Occup	pation
Name	(optional):
Conta	ct (optional):
Addre	ss (optional):
Section	on 2: Respondent's awareness of Takāful
Please	tick ( / ) beside the suitable answer
1.	Do you have any investment?
	[ ] Yes [ ] No (skip to q5)
2.	Your investment in:
	[ ] Unit trust [ ] Property [ ] Stocks and shares [ ] [ ] Insurance
	Others please specify
3.	Do you have any insurance policy?
	[ ] Yes [ ] No (skip to q5)
4.	What type of insurance do you have?
	[ ] Motor Insurance [ ] Fire Insurance [ ] Miscellaneous Insurance
	[ ] Endowment Insurance [ ] Whole life insurance [ ] Annuities
5.	Do you know anything about the Islamic version of insurance i.e. "Takāful"?
	[ ] Yes [ ] No
6.	Have you been approached by any <i>Takāful</i> agent to participate in <i>Takāful</i> ?

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	[ ] Yes [ ] No
7.	Do you know that there are differences between insurance and Takāful?
	[ ] Yes [ ] No
8.	Do you plan to have any <i>Takāful</i> policy?
	[ ] Yes [ ] No (skip to q10)
9.	Which Takāful policy do you plan to have?
	[ ] General insurance [ ] General Takāful [ ] Life insurance
	[ ] Family <i>Takāful</i> Skip q10)
10.	Why do you not plan to have <i>Takāful</i> policy?
	[ ] Beliefs
	[ ] Insufficient income
	[ ] Not aware of the existence of insurance/Takāful
	[ ] Depend on social security/Government support
	[ ] Others please specify
11.	If you have child/children, do you have any plan for your children's education?
	[ ] Yes [ ] No
	If yes, please specify

Your cooperation and time is highly appreciated Thank you