The Roles of Health Awareness and Knowledge in Medical Takaful Purchase Intention

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ABSTRACT

The present study aims to examine the factors of health awareness and knowledge that influence customers’ intention to use medical takaful coverage among the public sector officers in northern Malaysia. A quantitative research methodology was adopted to answer the objectives progressively. In the current research, data from 313 respondents were collected via questionnaires from three different organisations, namely the police department, the fire and rescue firefighter department, and the education department. Moreover, the data analysis was performed using SPSS version 22. The analysis revealed a significant and positive relationship between health awareness and knowledge and the customers’ intention to purchase medical takaful. Apart from that, the results also indicated that only health awareness has a significant influence on the intention with the strongest impact. On the other hand, the knowledge variable had no significant influence on customers’ intention to use medical
takaful coverage among the respondents. A number of important limitations need to be considered in the present study which will be further explained in the conclusion section. Furthermore, the current research provides some major implications. First, on behalf of the takaful industry, the findings of the present study encourage the takaful operators, marketing teams, staffs, and agents to improve their performance by increasing their efficiency, creativity, innovation, and knowledge of product features in developing a good impression among potential customers. Second, on behalf of the public sector officers, the results of the study show the important need to enhance the customers’ intention to use medical takaful coverage. Third, the suitability of factors such as health awareness, knowledge and customers’ intention in the previous theory and literature on takaful industry has been proven in the current research. This study helps the marketing team of the takaful operators to formulate marketing strategies that can attract potential customers to participate in the medical takaful coverage, especially among the public sector officers.

1. Introduction

The basic concept of takaful is to protect humans from risks, while also promoting the element of brotherhood, solidarity, and mutual assistance among the members of a society (Marhanum et al., 2013). The application of takaful is based on the Shari’ah-compliant product which is in line with the Al-Quran and As-Sunnah. More importantly, several verses from the Quran such as verse 2 of Surah al-Ma‘idah and verse 201 of Surah al-Baqarah acknowledge the validity of the elements applied in takaful.
According to Hamid et al. (2011) the concepts of takaful and conventional insurance are different. Takaful is a concept developed based on three principles, namely mutual responsibility, cooperation with each other, and protecting one another from any kind of difficulties, disasters, and other misfortunes. Regarding this matter, it should be understood that the contribution fund is based on the concept of tabarru’. Most Islamic jurists agree that the operation of the conventional insurance contradicts the rules and requirements of the shari’ah. A clear explanation for this matter is that the operational activities of conventional insurance evidently involve the elements of uncertainty (gharar), gambling (maysir), and interests (riba) (Hamid et al., 2011; Munawar, 2013).

In the takaful industry, the assessment of the customers’ intention is important for the purpose of enticing them to participate in takaful products. Accordingly, it is necessary to examine customers’ purchasing attitude and behavior in order to fulfil customers’ intention and satisfaction. Regarding this matter, Gillmore et al. (2002) and Abubakar et al. (2017) define intention as a relationship between behaviors and attitudes within a human action. Hence, intention can be utilized to predict how individuals behave based on their pre-existing attitudes and behavioral intentions in purchasing an item. As a result, customers’ satisfaction can be achieved if the decision is accurately made within their intention.

A factor that influences customers’ intention is health awareness. A study by Benjamin et al. (2014) highlighted the importance of health protection for individuals who have to bear the high cost of medical expenses in the future. Indeed, Kumanyika et al. (2000) found that only a few succeeded in maintaining a healthy lifestyle even though they initially had the intention of doing so. Webb and Sheeran (2006) indicated that good intentions influence the actual behavior to pursue healthy behavior in an attempt to ensure the best actual goal-oriented behavior for public health awareness.

In Malaysia, public health care services have been experiencing establishment pressures due to the increasing demand and limited available resources. Current services have almost provided full insurance to the overall population and all civil servants. Subsequently, this causes health care services and patients to suffer from overcrowding, understaffing, lack of quality and waste of time. Meanwhile, a study by Dyah and Rizal (2006) stated that nearly 60% of Malaysians intended to seek private primary care but 73.2% could not afford the cost. Therefore, the findings of the study revealed the strong influence of health awareness towards the intention of seeking private healthcare among Malaysians.

The second factor refers to the knowledge of the public sector officers on takaful as well as how it affects their intention to use medical takaful coverage. Past research by Rahman et al. (2008) was offered by the industry to fulfil the customers’ needs in managing the risk which is in line with the shari’ah ways. The study examined the purchasing behavior and knowledge of Malaysian undergraduate students with regard to the differences between takaful and insurance products. In particular, the study emphasized the following four
main factors that reflect how knowledge can affect customers’ intention: services
delivery, services provision reputation, electronic services, and convenience. The
findings showed that undergraduate students have the intention to use insurance
products because they perceived them to be better than the takaful products in
all the aforementioned factors.

As previously mentioned, takaful products are different from conventional
insurance. The knowledge of the differences of both products is important
because it allows customers to compare the better alternative prior to opting
for a protection policy. Research by Saif (2012) stated that around 80% of the
existing customers changed to takaful when a Yemeni conventional insurance
company introduced takaful products in 2008. However, it was also argued
that the insurance sector realized the importance of takaful products in terms of
attracting the intention of Yemeni customers and investors because the content
and policy of takaful products are transparent compared to any non-shari’ah
elements.

Furthermore, Aziz et al. (2011) conducted a research to study government
servants based on four main explanatory variables, namely product knowledge,
awareness, advertising, and benefit of the product. The results indicated that the
variables have a significant influence on the intention of Malaysian government
employees towards the level of acceptance of motor takaful products.
Subsequently, this showed that knowledge about the products is important to
influence customers’ intention. Moreover, Sarwar and Qureshi (2013) stated that
the lack of insurance knowledge is one of the major barriers in the intention of
purchasing health and life insurance.

In the case of the present study, it is crucial to note that public sector
officers may not be aware of their health condition due to their work pressure. As
a result, they may suffer from an illness in the future without having the chance
to take any prevention. A study by Ellis (1995) reported that occupational stress
can be inferred from the problems faced by the employees or from environmental
interaction. More importantly, it should be noted that the consequences of
this stress may manifest in terms of health problems, emotional reactions and
organizational outcomes.

Apart from that, another issue of health awareness is the reduction of
healthcare subsidies for public sector officers. The Economist (2014) stated that
healthcare subsidization by the government is no longer sustainable. According
to the World Health Organization (WHO), the Malaysian government continues
with the subsidy-rationalization program in order to reduce the overall government
expenditure whereby an outlay as large as healthcare tends to look increasingly
unsustainable (11th April 2014). In other words, the healthcare provision for
public sector officers is in a precarious situation due to the reduction of subsidies
by the government from year to year. Therefore, it will be unfortunate for the
public sector officers in the future because they need to pay using their own
money to receive healthcare services.

The present study focuses on three groups of public sector officers,
namely the police, firefighters, and teachers due to their risky and uncertain
job conditions. In this regard, the Organization for Economic Co-operation and Development (OECD) pointed out that some countries have repeatedly cut the fees for hospitals as well as the subsidies for medication and equipment (OECD, 2009). Moreover, it should be noted that cutting the subsidies will increase the cost of healthcare; hence, the advent of sophisticated treatment will burden the people in covering the rest of the medical cost (Eiji & Jun, 2012). Therefore, it is important for the public sector officers to obtain sufficient knowledge about the healthcare services provided by the takaful industry such as the medical takaful to prevent themselves from bearing high medical costs due to any uncertainty in the future.

A search of the literature showed that previous studies focused more on customer intention to participate in takaful from various factors which included mass media, word of mouth, and subjective norms (Maizaitulaidawati et al., 2016; Farhat et al., 2019), attitude, subjective norm, and perceived behavior (Maizaitulaidawati & Asmak, 2013), perception of takaful operators’ performance (Haji Wahab, 2018), and customer beliefs (Bhatti & Md Husin, 2019).

However, a limited number of available studies focused on the influence of health awareness and knowledge factors on customers’ intention. Apart from that, the literature also showed that none of the studies focused on Medical takaful coverage, especially among public sector officers in Malaysia. Therefore, this paper attempted to examine the relationship between health awareness and knowledge towards the intention to choose medical takaful coverage among public sector officers in the northern region of Malaysia. Other than that, this paper also aimed to fill the gaps in understanding the concept of Medical Takaful as well as the factors that influence its demand.

The organization of this paper is as follows: Section 1 begins with a brief introduction of takaful, followed by Section 2 which presents the literature. Next, Section 3 provides the methodology of this research, while Section 4 details the results and discussion of the study. Finally, Section 5 focuses on the conclusion and limitations of the research.

2. Literature Review

2.1 Health Awareness

Health is described as the level of functional or metabolic efficiency of a living organism. In humans, health is the ability of individuals or communities to adapt and self-manage when they are faced with physical, mental, or social challenges (Huber et al., 2011). In 1948 the WHO constitution, defined health in a broader sense as a state of complete physical, mental and social well-being rather than merely the absence of disease or infirmity.

On another note, awareness can be defined in several ways. Kjeldskov and Skov (2004) defined awareness as the ability to adapt to the changing
circumstances as well as respond according to the context of use. Meanwhile, Neaton et al. (1993) defined awareness as the knowledge of being hypertensive which is often obtained through a healthy worker. Gregory et al. (1996) described awareness as a factor that influences a healthy lifestyle, including the effect of publicity on diet-related health subjects. According to the study, Asians are described as individuals who are less likely to be aware of the importance of beneficial change in health awareness, especially with regard to the diet content provided by public health campaigns, media publicity and advertising program.

More importantly, this health awareness contributes to the intention of enrolling in medical takaful scheme. Zuriah and Rosylin (2008) mentioned that intention enables people to be aware of medical takaful in the attempt to compensate one another after sustaining an accidental loss. A person in distress or experiencing loss may not be brought about by animosity between humans which is usually observed during unexpected events such as natural death, health adversity, unemployment and sickness. A possible explanation for this matter may be because insurance in its essence is an important device created to solve many social obligations. Mohamed (2008) mentioned that the intention of takaful is to obligate funds to be distributed for the purpose of strengthening the health care system by aggressively targeting the poorest population and rural areas.

On another note, it should be understood that the general community health is imperative. A study by Piviki (2002) encouraged community participation in health planning which includes the effort to enhance community awareness on health issues as well as the opportunity to increase networking between health care service providers and community members. The study showed that health awareness influences the intention of the community to join and obtain incentive values from the health planning program. Naail and Norsham (2014) also highlighted that the awareness of shari’ah compliance product is important in Muslims’ daily life. Moreover, this awareness may act as a response towards individuals’ intention in preparing for unexpected events in future.

Nevertheless, a high number of individuals are still not taking any steps towards the preparation despite its importance. Drechsler and Jütting (2007) through WHO (2006) determined the urgent need for public health awareness as a sustainable tool for health financing in order to reduce the high amount of the out-of-pocket payments as well as the incidence of catastrophic health shocks in the developing world. On the contrary, studies by Fletcher and Hastings (1984), Kunreuther and Pauly (2005) and Oluyemi (1995) highlighted that budget constraint is one of the reasons that affect customers’ intention to not participate in an insurance scheme. Overall, the public provided the reason that they are confronted with various expenses which leave them with no expendable income to pay for the insurance premium.

The literature discussed in this study has concluded that many disadvantages may occur due to the lack of awareness regarding the importance
of practicing good health care. Referring to the public sector officers, the Berita Harian newspaper in 2012 showed the statement of the Ministry of Health where the increasing number in claims for takaful coverage was a result of the recent increase in the number of people who suffered from several diseases. Therefore, this study aimed to measure whether health awareness influences the intention of the public sector officers to participate in medical takaful coverage. Thus, the first hypothesis as follows:

**Hypothesis 1:** There is a significant relationship between health awareness and customers’ intention in using medical takaful coverage among public sector officers in northern Malaysia.

### 2.2 Knowledge

Knowledge can be interpreted in several ways. Ackoff (1999) defines knowledge as conveying instructions and answering how-to questions. In addition, he describes knowledge as a combination of information and understanding with the aim of increasing efficiency. However, Brucks (1985) explains knowledge in the context of a product by defining it as customers’ intention towards specific information which concerns the primary source of the product knowledge of a given product. Other than that, it also includes customers’ experience with the actual product and advertisement with the aim of influencing the customer’s decision to select a product (Rao & Monroe, 1988). Furthermore, Burton et al. (2009) determine the consistent ranking of product knowledge as the most important factor that influences the intention of a customer with regard to their purchase behavior.

Nevertheless, Alnemer (2015) states that the lack of knowledge and intention about the basics and technicality of the products and services can lead to an obvious deficiency in the customer-motivated reasons to have insurance products and services. Regarding the level of knowledge, most researches seem to agree that customers with a higher level of education tend to have higher intention to own insurance coverage (Beck & Webb, 2003; Browne & Kim, 1993; Li et al., 2007). More importantly, empirical evidence reveals that knowledge of conventional and Islamic finance is higher for the highly educated customer (Bley & Kuehn, 2004).

A considerable number of studies indicates that the intention to purchase is slightly affected by knowledge (Yin et al., 2010). Jeddi and Zaiem (2010) found that the level of knowledge provides some impact on customers’ intention. Hence, it can be concluded that a high level of knowledge is related to the ability to understand the benefits of risk management and long-term saving. Consequently, this leads to high precision in risk assessments that are positively correlated to the intention to demand any product (Beck & Webb, 2003; Lo et al., 2011; Sherrick et al., 2004).
On a similar note, other researchers have also highlighted the importance of knowledge. Hamid and Othman (2009) emphasized that the level of knowledge and understanding among Muslims in Malaysia may contribute to enhancing the intention of customers to purchase *takaful* products. Furthermore, Naail and Norsham (2014) mentioned that customers’ buying intention is based on knowledge of *takaful* that can be obtained through reading, the Internet, and promotions given by *takaful* agents. A study by Lin and Chen (2006) indicated that customers are easily influenced by the product and service knowledge during the buying intention and buying decision. Accordingly, the study implied that customers’ purchase intention and purchase decision under different product involvement tend to have a positive effect on product knowledge.

Moreover, a study by Sharif et al. (2011) revealed that about 47% of the respondents wished to know more about *takaful* terms, followed by 26.9% of the respondents who aimed to know more about the claiming process, 21.6% about the product, and 1.5% about related information. Hence, knowledge of *takaful* is important for customers because it can affect their buying intention. Accordingly, it is crucial to gain relevant insights into the buyer decision process or strategies in buying because it is one of the useful factors in understanding consumer behaviour. In most cases, consumers usually build a certain set of cognition or pieces of information and knowledge about the product offering prior to deciding whether to buy or not to buy the product. In other words, the lack of knowledge on *takaful* may affect customers’ intention and decision to either buy the product or not.

Therefore, Ghazali et al. (2011) and Ahmad et al. (2010) stressed that the poor knowledge and understanding of insurance and *takaful* products in Malaysia, further affect customers’ intention to use the services. Consequently, the present study aimed to investigate the effect of knowledge on customers’ intention among public sector officers. Thus, the second hypothesis is as follows:

**Hypothesis 2:** There is a significant relationship between knowledge and customers’ intention in using medical *takaful* coverage among public sector officers in northern Malaysia.

### 2.3 Customers’ Intention

In the present time, the theory of reasoned action (TRA) model developed by Martin Fishbein and Icek Ajzen in 1975 has been widely and frequently used by classic persuasion models in psychology for the purpose of understanding the relationship between behavior, attitude, intention and belief within human action (Md-Taib et al., 2008). Moreover, Gillmore et al. (2002) explained that this theory has been used to predict and create an assumption on how individuals behave based on their pre-existing attitudes and behavioral intentions. In short, it can be understood that an individual will make the decision to do something if he or she has the intention to perform a certain behavior.
On another note, several reasons have been identified as to why this model was adopted by previous studies. First, the TRA model is useful in determining or predicting individual intention. Apart from that, this theory is also flexible and can be easily adjusted in different contexts of research fields. Moreover, this fact is supported by published studies that investigated Islamic credit coverage (Muhammad Ali et al., 2017; Hanudin Amin, 2013), Islamic bank adoption (Sulaiman et al., 2016), and zakah (Islamic tax) compliance (Ram & Roszaini, 2014). Therefore, this study chose to adopt this model for the purpose of predicting the behavioral intention to use medical takaful coverage.

Data from published studies have shown that there is a positive and significant relationship between health awareness and customers’ intention. Moreover, this statement is supported by various studies including research by Montano et al. (1997) who demonstrated that health awareness is positively correlated to intention, while Elmanan (2005) found that health treatment has a positive correlation with customers’ intention. Therefore, those who are aware of health takaful are likely to have a high intention to get takaful coverage (Zuriah & Rosylin, 2008). Furthermore, Piviki (2002) stated that health planning is an effort to instil health awareness which is positively correlated to customers’ intention.

A number of past studies found a significant positive relationship between knowledge and customers’ intention. This statement is consistent with previous research by Burton et al. (2009) who found that product knowledge is correlated to the intention of customer purchasing behaviour. Meanwhile, Alnemer (2015) identified that a lack of knowledge has a positive correlation with intention because the customers are reluctant to participate in insurance products and services. In addition, Dettmann and Dimitri (2007) reported that there is a positive association between the level of education and intention in regard to customers’ interest. More importantly, a study by Hamid and Othman (2009) managed to find a positive statistical relationship between knowledge and intention to purchase takaful products and services. Therefore, based on the evidence above, the current research adopted the theory of reasoned action (TRA) to determine customers’ intention. Thus, the third hypothesis is as follows:

**Hypothesis 3:** There is a significant influence between health awareness, knowledge and customers’ intention in using medical takaful coverage among public sector officers in northern Malaysia.

### 3. Methodology

#### 3.1 Theoretical Framework

Figure 1 shows the theoretical framework of the present study as well as the variables that need to be examined according to the objective of the study.
The present study adopted a survey-based questionnaire which consisted of 20 questions, including the demographic questions that were designed to answer the proposed hypothesis: the factors that affect customers’ intention to use medical *takaful* coverage among public sector officers in northern Malaysia. The questionnaire was further divided into three parts but excluded demography. Moreover, it should be noted that all items intended to measure the constructs in the present study were adopted the previously validated instruments. First, Cooper and Sutherland’s (1987) questions were adapted to test health awareness, followed by the second part from Amim (2000) which was compiled and added to the questionnaire in order to test knowledge. The third part was adopted from Fishbein and Ajzen (1975) in order to test customers’ intention. More importantly, some of the items were modified to suit the target respondents. The questionnaires employed a six-point Likert scale from ‘extremely disagree’ to ‘extremely agree’ for data collection purposes.

### 3.2 Instrument and Measurement Items

The present study adopted a survey-based questionnaire which consisted of 20 questions, including the demographic questions that were designed to answer the proposed hypothesis: the factors that affect customers’ intention to use medical *takaful* coverage among public sector officers in northern Malaysia. The questionnaire was further divided into three parts but excluded demography. Moreover, it should be noted that all items intended to measure the constructs in the present study were adopted the previously validated instruments. First, Cooper and Sutherland’s (1987) questions were adapted to test health awareness, followed by the second part from Amim (2000) which was compiled and added to the questionnaire in order to test knowledge. The third part was adopted from Fishbein and Ajzen (1975) in order to test customers’ intention to use medical *takaful* coverage. More importantly, some of the items were modified to suit the target respondents. The questionnaires employed a six-point Likert scale from ‘extremely disagree’ to ‘extremely agree’ for data collection purposes.

### 3.3 Sample

The population was drawn using the disproportionate stratified random sampling from three public sector officers in northern Malaysia, namely the Royal Malaysia Police Department, the Fire and Rescue Department, and the State Education Department. Overall, there were 7,304 officers from the three government agencies. Following the suggestion of Krejcie and Morgan (1970), 367 officers were selected as the sample size for the present study (as cited in Sekaran & Bougie, 2012). The allocation of the distributed questionnaires was as follows: 300 questionnaires for teachers, 40 for policemen, and 27 for firefighters. However, only 313 questionnaires were returned and valid for data analysis. The high response rate was attributed to the presence of the researcher at the organisations in ensuring the completeness of the questionnaires.
3.4 Data Analysis

This study used descriptive and inferential analyses. Moreover, several statistical tools and methods were used from the SPSS software version 22.0 for the purpose of data analysis and hypothesis testing. The data analysis included pilot test, descriptive statistic, Pearson correlation, and multiple regression analysis.

3.5 Pilot Test

A total of fifty pre-respondents from the public sector officers were selected to participate in the pilot test prior to the distribution of the final questionnaire. The purpose of the pilot test is to ensure the clarity of the questionnaire’s statements to the respondents as well as to detect other possible weaknesses in the questionnaire. Therefore, the pilot study was aimed to provide some feedback that could help the researcher to improve the questionnaire. In particular, some of the improvements involved the restructuring of the statements in simpler words in order to ensure the ease of comprehension. More importantly, the pilot test was also used to examine the question flow as well as to determine whether or not to remove or improve several questions prior to the large-scale implementation. Moreover, this idea is supported by Bryman and Bell (2007) who stated that it could assist in obtaining extra information and accurate responses from the respondents.

Table 1. Reliability Test

<table>
<thead>
<tr>
<th>Variable</th>
<th>No. of Items</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customers Intention</td>
<td>5</td>
<td>0.977</td>
</tr>
<tr>
<td>Health Awareness</td>
<td>5</td>
<td>0.742</td>
</tr>
<tr>
<td>Knowledge</td>
<td>5</td>
<td>0.760</td>
</tr>
</tbody>
</table>

Table 1 shows the result interpreted using the Cronbach’s Alpha value obtained from the pilot test. The outcome obtained was in the range of 0.742 to 0.977. According to Sekaran and Bougie (2010), the items are considered good if the value is in the range of 0.70 to 0.9, while the items are considered excellent if the value is more than 0.90. In the case of this study, the items were reliable to be tested since the value was more than 0.70 (a > 0.7).

4. Results and Discussions

4.1 Respondent’s Demographic Profile

Frequency distribution was employed in the present study for the purpose of finding the frequency characteristics of the respondent profile. In the case of
The current research, 367 questionnaires were distributed to the respondents. However, only 313 questionnaires were returned and valid for data analysis. Hence, demographic information such as gender, marital status, age, type of public sector and job category was obtained from the respondents. The demographic profile of the respondents for the present study is represented in Table 2.

Table 2. Result of the Demographic Profile

<table>
<thead>
<tr>
<th>Demographic Items</th>
<th>No. of Respondents</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>105</td>
<td>33.5%</td>
</tr>
<tr>
<td>Female</td>
<td>208</td>
<td>66.5%</td>
</tr>
<tr>
<td>Single</td>
<td>47</td>
<td>15%</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Married</td>
<td>254</td>
<td>81.2%</td>
</tr>
<tr>
<td>Divorce</td>
<td>12</td>
<td>3.8%</td>
</tr>
<tr>
<td>Less than 25 years</td>
<td>17</td>
<td>5.4%</td>
</tr>
<tr>
<td>26-35 years</td>
<td>93</td>
<td>29.7%</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36-50 years</td>
<td>166</td>
<td>53%</td>
</tr>
<tr>
<td>51 and above</td>
<td>37</td>
<td>11.8%</td>
</tr>
<tr>
<td>Type of public sector officers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teachers</td>
<td>252</td>
<td>80.5%</td>
</tr>
<tr>
<td>Fire fighters</td>
<td>23</td>
<td>7.3%</td>
</tr>
<tr>
<td>Police</td>
<td>38</td>
<td>12.1%</td>
</tr>
<tr>
<td>Job category</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional and managerial</td>
<td>241</td>
<td>77%</td>
</tr>
<tr>
<td>Supportive groups</td>
<td>72</td>
<td>23%</td>
</tr>
</tbody>
</table>

The majority of the respondents in the study were female with a total of 208 respondents (66.5%), whereas the remaining 33.5% represented 105 male respondents. Regarding the marital status, 47 respondents (15.0%) were single, 254 respondents (81.2%) were married, and 12 respondents (3.8%) were divorced. Meanwhile, most respondents were between the ages of 36 and 50 years old (166 respondents or 53.0%), followed by 93 respondents (29.7%) in the age range of 26 and 35 years old, 37 respondents (11.8%) who were above 51 years old, and only 17 respondents (5.4%) were younger than 25 years old. Table II also shows the type of public sector officers as follows: 252 respondents (80.5%) were teachers, 38 respondents (12.1%) were police, and 23 respondents (7.3%) were fire fighters. Finally, it should be noted that 241 respondents (77.0%) were from professional and managerial groups, while the remaining 72 respondents (23.0%) were from supportive groups.
4.2 Relationship between Customers’ Intention and Its Determinants

The Pearson correlation analysis was utilised in the study for the purpose of determining the relationship between health awareness and knowledge with regard to customers’ intention to use medical takaful coverage among public sector officers. Table 3 illustrates a significant positive relationship (r = 0.256) between health awareness and customers’ intention to use medical takaful coverage. Therefore, hypothesis 1 is accepted.

Table 3. Correlation between Health Awareness and Customers’ Intention

<table>
<thead>
<tr>
<th>Correlations</th>
<th>Customers Intention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Awareness</td>
<td>.256**</td>
</tr>
</tbody>
</table>

** Correlation is significant at the 0.01 level (2-tailed).

Table 4 shows that there is a significant positive relationship (r = 0.151) between knowledge and customers’ intention to use medical takaful coverage. Therefore, hypothesis 2 is accepted.

Table 4. Correlation between Knowledge and Customer’s Intention

<table>
<thead>
<tr>
<th>Correlations</th>
<th>Customers Intention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>.151**</td>
</tr>
</tbody>
</table>

** Correlation is significant at the 0.01 level (2-tailed).

4.3 The Influence of Determinants on Customers’ Intention

Multiple regression analysis was conducted to determine the significant influence of health awareness and knowledge on customers’ intention to use medical takaful coverage.

The result indicated that the R² value was 0.069 or 6.9%. Hence, the present study indicated that 6.9% of the variance in customers’ intention to use medical takaful coverage was significantly explained by the two independent variables of the study, namely health awareness and knowledge. On the other hand, 93% of the variance was explained by other untested factors.

Moreover, the unstandardized β-coefficient for health awareness had a significant value of 0.302, while knowledge it was 0.062 with a significant value of 0.280. Therefore, it is clear that only health awareness significantly influenced customers’ intention to use medical takaful coverage, whereas the knowledge variable was insignificant due to the value exceeding 0.05. Therefore, hypothesis 3 is rejected.
Table 5. Multiple Regression Analysis of the Coefficient

<table>
<thead>
<tr>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>T</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
<td>Beta</td>
</tr>
<tr>
<td>(Constant)</td>
<td>2.836</td>
<td>0.308</td>
<td></td>
</tr>
<tr>
<td>Health awareness</td>
<td>0.302</td>
<td>0.077</td>
<td>0.232</td>
</tr>
<tr>
<td>Knowledge</td>
<td>0.062</td>
<td>0.058</td>
<td>0.064</td>
</tr>
</tbody>
</table>

Dependent Variable = Customers Intention
$R^2 = 0.069$, F–value = 11.512, Significant = 0.000

The following equation represents the multiple regression analysis:

$$\gamma = \alpha + \beta_1 X_1 + \beta_2 X_2$$

where $\gamma = $ Intention to use Medical Takaful coverage

$$\alpha =$$ Intercepts (constant value)

$$\beta =$$ Unstandardized beta coefficient

$X_1 =$ Health Awareness (HA)

$X_2 =$ Knowledge (KN)

Therefore, the equation for the multiple regression analysis is shown below:

$$\gamma = 2.836 + 0.302 HA + 0.062 KN$$

The formula above explains that customers’ intention to use medical takaful coverage will increase by 0.302 units when one unit of health awareness is increased. Meanwhile, an increase of one unit of knowledge reflects an increase in customers’ intention to use medical takaful coverage by 0.062 units.

### 4.4 Discussion

Several published studies by Tsai et al. (2013), Jayawardhena et al. (2009), Munnukka (2007), and Porter and Donthu (2006) found that the socio-demographic variables which include age, education, gender, and others can influence the intention of consumers when making decisions. Moreover, many researchers considered gender and age as important factors that affect customers’ intention (Zhang, 2005; Riquelme & Rios, 2010; Jun et al., 2008; Dewan et al., 2009; Singh, 2014). Meanwhile, a study by Maizaitulaidawati and Asmak (2013) revealed that demographic variables are crucial in determining customers’ intention to participate in a family takaful scheme.
Accordingly, the demographic analysis showed that most of the public sector officers who participated as respondents in the present study were mature people (36-50 years old). Moreover, another large segment of the customers was in the age range of 26 to 35 years old (young people). Furthermore, the results revealed that the majority of the respondents possessed professional and managerial positions (241 respondents). Therefore, it is more relevant for *takaful* operators to provide diverse and unique medical *takaful* schemes that suit the preference and satisfaction of both groups. In other words, *takaful* operators ought to consider tailoring their products and services to suit the characteristics of the customers.

The outcomes revealed that there was a significant positive relationship among all the independent variables (health awareness and knowledge) and the dependent variable (customers’ intention). In the case of the present study, the positive value ($r = 0.256$) signified a weak relationship between health awareness and customers’ intention. The result is in line with previous studies which stated that health awareness has a positive relationship with customers’ intention (Montano et al., 1997; Elmanan, 2005; Zuriah & Rosylin, 2008; Piviki, 2002).

Similarly, the present study revealed a positive relationship between knowledge and customers’ intention with a value of 0.007 ($p < 0.01$, Sig.2-tailed). The value ($r = 0.151$) signified a weak relationship between knowledge and customers’ intention. Moreover, the result is consistent with prior research (Dettmann & Dimitri, 2007; Burton et al., 2009; Hamid & Othman, 2009; Alnemer, 2015).

Regarding the last objective, the result indicated that only health awareness significantly influenced customers’ intention. However, knowledge had no significant influence because the value of 0.280 exceeded the significant value of 0.05. Apart from that, the result showed the β-value of health awareness was 0.302, while for knowledge it was 0.062. Hence, it can be concluded that health awareness provides the strongest impact on the dependent variable as well as influences customers’ intention to use medical *takaful* coverage among public sector officers in the northern region of Malaysia. More importantly, all the measured items can be used to evaluate the practice of relationship marketing, particularly for the *takaful* industry.

5. Implication, Limitation and Conclusion

5.1 Implication

The results of the present study have provided a number of useful implications for certain groups. On behalf of the *takaful* industry, this study acknowledged the important need for *takaful* operators, marketing teams, staffs, and agents to improve their performance by increasing their efficiency, creativity, innovation, and knowledge of product features in developing a good impression among potential customers. Hence, the findings of the present study are hoped to be useful by allowing the marketing teams to formulate marketing strategies.
The results offered several significant methods that can be adopted to pique the intention of potential customers towards the medical *takaful* coverage facility. First, *takaful* operators should keep afloat customers’ needs and preferences to ensure a creative and innovative marketing strategy. More importantly, this will help the customers to have more awareness of *takaful* products, especially medical *takaful* coverage. Accordingly, a survey should be carried out in real-time because the need to wait for a long period of time may limit the precision and usefulness of the information in the decision-making process. Therefore, comparisons should be made amidst the fast adaptation of marketing strategies.

Second, it is very important for *takaful* operators to educate their staffs and agents in ensuring that they have a good understanding of the product features. In other words, it is necessary to enhance staff knowledge for the purpose of providing a clear picture of the *takaful* product to potential customers. Moreover, the knowledge is aimed to attract potential customers who are concerned about the necessity of the medical *takaful* coverage scheme. Accordingly, it is highly suggested that public sector officers have adequate education and awareness regarding the importance of applying for medical *takaful* coverage for their health. Overall, this is to ensure that the customers are covered from unfortunate events. Meanwhile, promotional tools can be a useful approach to explain the benefits of medical *takaful* coverage products, which is likely to result in greater intention among potential customers.

Regarding the enhancement of knowledge and expertise among *takaful* staffs and agents, a series of seminars and workshops should be held to discuss the current knowledge related to principles, practices and product features for the purpose of building competence. On the other hand, the seminars are expected to provide good opportunities for senior managers to improve the concepts and principles of *takaful*. Meanwhile, workshops are believed to be helpful to officers who are directly involved with the structuring and transactions of *takaful* products because they are expected to further develop their competence and expertise.

The results of this study have provided a great amount of useful information to the public sector institutions. More importantly, the findings emphasised the need to increase the intention to use medical *takaful* coverage among public sector officers. In addition, forums and conferences are important avenues to create health awareness, knowledge and intention to participate in *takaful* protection. Therefore, it is important to ensure that the officers are always in good health to enable them to receive productive and efficient services.

Previous theory and literature related to health awareness, knowledge and customers’ intention have proven suitable to be adopted even in the *takaful* industry research. The present study further contributes to the *takaful* industry field by further investigating the possibility of a relationship between health awareness and knowledge among public sector officers in regard to their intention to use *takaful* protection, especially the medical *takaful* coverage. Accordingly, the current research successfully expanded the existing knowledge of *takaful* products and services in Malaysia and other countries.
1.2 Limitation

There are some limitations in this study. First, the location and the target respondents were limited because this study only focused on three public sectors in the northern region of Malaysia. Hence, it is recommended for future research to further investigate various types of public sectors and locations in order to obtain a wide range of responses.

Second, the sample size of the present study is considered small. In terms of directions for future research, further work could increase the sample size by including other segments such as private sectors to obtain a different view on customers’ intention.

Third, the present study only focused on the factors of health awareness and knowledge towards customers’ intention. Therefore, another possible area of future research would be to include other factors that influence customers’ intention.

6. Conclusions

The present study aimed to achieve three main objectives. First, the current research attempted to identify the significant relationship between health awareness and customers’ intention. The results illustrate a significant positive relationship between both factors. Next, the second objective was to examine the significant relationship between knowledge and customer intention. The results revealed that both independent variables, namely health awareness and knowledge had significant positive relationships with the dependent variable (customers’ intention). Finally, the third objective was to determine the significance of health awareness, knowledge and customers’ intention in using medical takaful coverage. The findings revealed that only health awareness significantly influenced the customers’ intention of public sector officers in northern Malaysia.

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