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Title	Determinants of halal-food consumption in Indonesia
Туре	Article
URL	https://clok.uclan.ac.uk/27730/
DOI	https://doi.org/10.1108/JIMA-09-2018-0177
Date	2019
Citation	Vanany, Iwan, Soon, Jan Mei, Maryani, Anny and Wibawa, Berto Mulia (2019) Determinants of halal-food consumption in Indonesia. Journal of Islamic Marketing. ISSN 1759-0833
Creators	Vanany, Iwan, Soon, Jan Mei, Maryani, Anny and Wibawa, Berto Mulia

It is advisable to refer to the publisher's version if you intend to cite from the work. https://doi.org/10.1108/JIMA-09-2018-0177

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Journal of Islamic Marketing



Determinants of halal food consumption in Indonesia

Journal:	Journal of Islamic Marketing
Manuscript ID	JIMA-09-2018-0177.R1
Manuscript Type:	Research Article
Keywords:	attitude, halal, moral obligations, religious self-identity, Theory of Planned Behaviour



1 2		
3	1	Determinants of halal food consumption in Indonesia
4 5	2	·
6 7	3	
8	4	Abstract
9 10	5	
11 12	6	Purpose: Indonesia has the largest Muslim population in the world and represents a
13	7	significant global market opportunity for halal food producers. Surprisingly, halal food
14 15	8	consumption in Indonesia remain under-researched. Thus, this study aims to investigate the
16 17	9	factors influencing consumers' halal food consumption using an extended Theory of Planned
18	10	Behaviour model.
19 20	11	
21 22	12	Methodology: Data were collected through a self-administered questionnaire consisting of
23	13	418 consumers in Surabaya, Indonesia. Multiple regression analyses were used to describe
24 25	14	the Theory of Planned Behaviour (TPB) relationship and halal food consumption.
26 27	15	
28	16	Findings: This study successfully extended the TPB to include additional predictors:
29 30	17	perceived awareness, habit, religious self-identity (RSI), moral obligations and trust to
31 32	18	determine consumers' intention in halal food consumption. Attitudes, RSI and moral
33	19	obligations were significant predictors of intention to consume halal food.
34 35	20	
36 37	21	Practical implications: The findings can be used by the government and food producers to
38	22	target specific factors especially positive attitudes, RSI and moral obligations. Indonesia
39 40	23	Ul <u>a</u> ma Council (Majelis Ulama Indonesia), food industry and the media play a critical role in
41 42	24	sustaining consumers' positive attitude towards halal food consumption. It is critical for food
43	25	manufacturers to tailor their marketing strategies and consider promoting Islamic dietary
44 45	26	rules when promoting their food products.
46 47	27	
48	28	Originality/value: This study is one of the first attempts to investigate the determinants of
49 50	29	halal food consumption using an extended TPB in Indonesia.
51 52	30	
53	31	Keywords: attitude; halal; moral obligations; religious self-identity; Theory of Planned
54 55	32	Behaviour
56 57	33	
58 59 60	34	Introduction

Halal industry is the fastest growing global business (Yusuf and Ab Yajid, 2016) fuelled by the growing Muslim population. The growing market for "meat and money" (Halal meat and Islamic finance) suggests its significance to both Muslims and non-Muslims (Wilson and Liu, 2010, Wilson, 2012). Halal food represents food that are pure and wholesome and free from *haram* (forbidden) products such as porcine, blood, carrion, dead animals, predatory animals and birds, and amphibious animals (Adam, 2016). Worldwide Muslim population, which equates to 1.8 billion or 23% of the global population (Desilver and Masci, 2017) drives the demand for halal food and services. More than 60% of the Muslim population is in Asia and 20% in the Middle East and North Africa (Pew Research Center, 2009). For example, 4 out of 5 countries with the largest Muslim populations are based in Asia i.e. Indonesia, Pakistan, India and Bangladesh. Halal has always been associated with food free from pork and alcohol (Alzeer et al., 2018). However, one should understand that halal is driven by values, integrity and trust and affects all aspects of a Muslim's life. Today, it encompasses service or process such as finance, logistics, standards, auditing and tourism. Halal tourism is worth about 11% of the total global travel expenditure and is projected to reach USD 233 billion by 2020 (Salam Standard, 2016). Halal tourism adheres to the values of Islam where the goods and services are halal compliant (Mohsin et al., 2016). This obviously includes meeting the dietary requirements of the tourists. The availability of halal food will influence the selection of destination (Bon and Hussain, 2010) and underscores the importance of halal food trade. Besides food, other consumption items include cosmetics, fashion and pharmaceutical products. Apart from finance, which is worth \$2 trillion, halal food industry contributes one third or \$1.2 trillion to the global halal economy (Figure 1). This highlights the demand for halal food in the Islamic economy. Farm and food manufacturers, food service providers, logistics and transportation, standards and food safety and quality certification bodies can potentially tap into the booming halal industry. **Insert Figure 1 here** Figure 1. % spent on halal industry (total = \$3.89 trillion) (Adapted from: Thomson Reuters, 2017) The Theory of Planned Behaviour (TPB) identifies factors that predict and modify behaviours (Ajzen, 1985). The factors are measured based on a person's attitudes, subjective norms (i.e. influence from other individuals) and perceived behavioural control (PBC). Attitude refers to the degree of favourable or unfavourable evaluation towards a

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behaviour. Subjective norm refers to perceived social pressure to comply with expectations from other individuals and perceived behavioural control is the feeling of being in control or the confidence in performing a behaviour (Syed and Nazura, 2011). TPB has been used to determine consumers' intention to purchase and consume halal food products. Sherwani et al. (2018) investigated the factors influencing halal meat consumption among Muslims minority in Germany while Bonne et al. (2007) explored the ethnic minority of Muslims population in France. Bonne et al. (2007) further explored the role of self-identity and dietary acculturation in the host country. Ali et al. (2018) identified positive attitude, personal conviction, motivation to comply and perceived control and availability of halal meat predict the intention to eat halal meat among Chinese Muslims in China. Meanwhile nor Sara et al. (2014) revealed that factors such as trust, confidence and lack of halal awareness may affect Muslim consumer's purchasing intention of halal labelled food products such by non-Muslims. Structural equation modelling was also used to determine influential purchasing behaviour of halal food such as those conducted by Aziz and Chok (2013), Bashir et al. (20198) and Haque et al. (2015).

Consumers' awareness and perceptions towards halal food had been carried out in a number Muslim majority countries including Pakistan (Awan et al., 2015; Salman and Siddigui, 2011), United Arab Emirates (Ireland and Rajabzadeh, 2011) and Malaysia (Khalek, 2014; Mathew et al., 2014; Nor Sara et al., 2014; Rezai et al., 2009, 2012; Said et al., 2014; Syed et al., 2011; Wibowo and Ahmad, 2016). Several halal-based studies conducted in Indonesia relates to halal certifications and exporters' views of the Indonesian market (Prabowo et al., 2015; Ratanamaneichat and Rakkarn, 2013), business opportunities (Soesilowati, 2011), halal labelling (Luthi and Salehudin, 2011) but limited studies on consumers' perception of halal food (Ismoyowatu, 2015). Indonesia has the largest Muslim population in the world and represents a significant proportion of market opportunity for local and international food producers and exporters. However, there is still a paucity of research looking into the factors that drive halal food consumption among the population. How does religion shape and influence the people's values and behaviours in Indonesia? Can one determine consumers' food habits based on their attitude, social norms and perceived control?

Sherwani et al. (2018) proposed a theoretical model using the TPB and further explained how the predictive power of TPB was influenced by other factors i.e. religious self-identity (RSI), dietary acculturation, trust and moral obligations. Bonne et al. (2008) added RSI into their TPB framework to predict halal meat consumption among Muslims in Belgium. Self-identity influences one's behaviour as individuals seek to perform behaviours that best

reflect their sense of self. Religious self-identity is influenced by the extent to which one
believes and engages in the teachings and identifies as being affiliated with a religion
(Minton et al., <u>2019in press</u>). For example, the influence of self-identity as a Muslim
encourages one to eat halal food if one sees oneself as religious-conscious (Biddle et al.,
1987; Conner and Armitage, 2006). <u>Halal-conscious customers tend to be more selective</u>
and have high-involvement behaviour in selection and purchasing of food and materials as
they are also more risk averse (Wilson and Liu, 2011)

Religion is at the heart of Indonesian people's lives. There is also an obligation for Indonesians to choose and embrace one of the six official religions - Islam, Christianity, Catholic, Hinduism, Buddhism and Confucianism (Briliana and Mursito, 2017). Religious self-identity and its' effects had been studied by various researchers (Ali et al., 2018; Bonne et al., 2007; Ireland and Rajabzadeh, 2011; Sherwani et al., 2018). The studies revealed how religion shape and impact upon consumers' food choices. Religion also impacts on consumers' likes and dislikes (Briliana and Mursito, 2017) and is reflected in the individuals' attitudes and behaviour. Hence, factors such as RSI, moral obligation and trust were investigated in this study and is predicted to significantly affect halal food consumption. Habits are routines repeated regularly and tend to occur subconsciously. Habits had been successfully incorporated into TPB models to predict food-related behaviour (Ahmed et al., 2014; Verbeke, 2005). Awareness represents the perception and cognitive reaction to events and objects (Ambali and Bakar, 2014) and has an influence on intention. It can also be defined as knowledge, consciousness and familiarity gained by experience or learning (Hamdan et I., 2013). Previous studies reported awareness as a significant factor in halal purchase intention (Ambali and Bakar, 2014; Aziz and Chok, 2013). Habits and perceived awareness were also measured to improve the predictive power of the model.

Considerable evidence had been reported on halal food purchasing and/or consumption among Muslim consumers in non-Muslim countries (Bonne et al., 2007; Elseidi, 2018; Verbeke et al., 2013). Surprisingly, there were very few studies (apart from Malaysia) investigating the factors of halal food consumption among Muslims in developing countries. Thus, this study aims to investigate the factors influencing consumers' halal food consumption using an extended TPB model. Using the TPB and Sherwani et al. (2018) as a guide, the authors predicted that positive attitudes, strong subjective norms and greater perceived control directly affects halal food consumption. Similarly, the authors predicted that positive relationships between perceived awareness, religious self-identity, habit, moral obligations and trust significantly affect their intention to consume halal food.

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1 2		
3	140	Methodology
4 5	141	Questionnaire development
6 7	142	The questionnaire was developed and consist of four sections: i) demographics (5
8 9	143	questions); (ii) Theory of Planned Behaviour factors i.e. attitude, subjective norms,
9 10	144	perceived behavioural control and behavioural intention (15 questions) (Armitage and
11 12	145	Conner 1999; Han et al., 2010; Hoeksma et al., 2017; Kim and Han 2010); (iii) perceived
13 14	146	awareness (3 questions) and (iv) additional factors (13 questions). Additional factors such as
15	147	perceived awareness, habit (Honkanen et al., 2005), moral obligations (Haines et al. 2007),
16 17	148	religious self-identity (Terry et al., 1999) and trust (Teng and Wang, 2015) were also
18 19	149	explored after reviewing current literature. Questions were measured on a 5-point Likert
20	150	scale of strongly disagree / extremely unimportant (1) to strongly agree / extremely
21 22	151	important (5). The questions were translated into Indonesia/Melayu-Malay and back-
23 24	152	translated into English by the first and second authors. A pilot study was conducted among
25	153	15 participants not included in the actual survey to determine the suitability and clarity of
26 27	154	the questions.
28 29	155	the questions.
30	156	Data collection
31 32	157	The survey was conducted among consumers in Surabaya, Indonesia from March – May
33 34	158	2018. Surabaya is the second largest city in Indonesia and has a population of 2,948,000 of
35	159	which 85% are Muslims (World Population Review, 2018). Consumers that crossed a
36 37	160	designated spot were approached to participate in the survey. The purpose of the study was
38 39	161	explained to them. For those who were interested to participate, consent was obtained and
40	162	a paper-based questionnaire was distributed. A total of 418 questionnaires were returned.
41 42	163	
43 44	164	Statistical analysis
45	165	Descriptive statistics were used to determine the frequency of distribution of all
46 47	166	sociodemographic characteristics. The internal consistency of the questionnaire was
48 49	167	evaluated using Cronbach's alpha. Independent t-tests and one-way analysis of variance
50	168	were conducted using SPSS 24.0 (IBM SPSS). To test the hypotheses, multiple regressions
51 52	169	were conducted to predict the intent to consume halal food and confidence level was set at
53 54	170	95%.
55	171	
56 57	172	Results and Discussion
58 59	173	Male makes up more than half of the respondents (55.30%). Most respondents were
60	174	graduates (54.10%) and 27.00% earned between 3,500,001 – 5,000,000 Indonesian Rupiah

(IDR) (US \$ 245 – 350). The minimum salary in Surabaya is 3,583,312 IDR (Faizal, 2017). The high number of respondents from the graduates coincide with the local demographics. There are 35 major universities and institutions in the city and the population is relatively well-educated. The age demographics were divided equally between the millennials (18 - 35)years) (40.20%) and Generation X (36 – 55 years) groups (44.30%). The last age group – the baby boomers (56 years and above) made up the rest of the 15.60%. Homemakers (19.60%), students (15.10%) and private employees (15.10%) made up the top three occupations among the respondents.

The respondents mostly agreed with the factors for consuming halal food with desirable attitude averaging the highest score (4.64±0.62). The study also revealed that respondents did not feel under pressure to eat halal food (2.22±1.24). One-way ANOVA revealed significant difference between millennials and Gen-X respondents in their attitude towards halal food consumption. Millennials strongly agreed that consuming halal food is extremely important (F(2,415) = 5.09, p=0.006) and desirable (F(2,415) = 5.36, p=0.003). The attribute measuring subjective norms revealed that both millennials and baby boomers strongly agreed that people who matters to them would approve them eating halal food (F (2,415) = 4.71, p=0.02). The different age groups did not differ significantly in their habits except that the youngest and oldest groups do not have to consciously remember that they should be consuming halal food (F(2,415) = 4.06, p=0.02). Although all age groups agreed that they will feel morally wrong if they do not consume halal food, however baby boomers felt sless strongly compared to the younger generations (F (2,415) = 3.54, p=0.03) (Table 1). Having a university or college degree did not make any significant differences in the respondents' attitudes or social norm. However, the group with higher education (i.e. degree or postgraduate studies) felt that they have more control over consumption of halal food (t(416) = 2.30, p=0.02) and felt very weird for not consuming halal food (t(416) = 2.56), p=0.01). The highly educated group also scored significantly higher in their intention to purchase halal food in future (t (416) =3.63, p<0.0001). This contradicts Soesilowati (2010) where the author found no relation between an individual's level of education and concerns about halal food consumption. There was no significant difference between male and female in all attributes.

Please insert Table 1 here

Table 1 Factors influencing consumption of halal food (n=418)

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2								
3 4	209	Multiple linear regressions were performed to evaluate the TPB model for halal food						
5	210	consumption. Cronbach alpha scores for attitudes, PBC, RSI and moral obligations were						
6 7	211	excellent, demonstrating consistency between subjects when answering the questions. The						
8 9	212	Cronbach alpha for subjective norms, perceived awareness and trust ranged from $0.51 -$						
10 11 12	213	0.59 but were still acceptable (Table 2). The ICC values range between 0 and 1, with values						
	214	above 0.8 considered excellent reliability, 0.6 – 0.8 good, 0.4 – 0.6 moderate, and less than						
13 14	215	0.4 as low reliability (Landis and Koch 1977).						
15	216							
16 17	217	Please insert Table 2 here						
18 19	218	Table 2 Mean composition of items and reliability analysis of TPB components						
20	219							
21 22	220	Intention to perform the behaviour was predicted from the first model consisting of attitude,						
23 24	221	subjective norms and PBC (Figure 1). The regression model explained about 24% of the						
25	222	variance of the intent to consume halal food where $R^2 = 0.24$, (Adjusted $R^2 = 0.23$). This						
26 27	223	was significantly different where $F(3, 386) = 40.47$, $p < 0.001$. All predictors (attitude, SN,						
28 29	224	PBC) contributed significantly to the prediction of halal food consumption (Figure 12). This						
30 31 32 33 34 35 36 37	225	supports the first hypothesis that consumers with positive attitudes, strong social pressure						
	226	and increased perceived control were more likely to consume halal food. Other studies had						
	227	successfully used TPB as a theoretical framework to explain behavioural intention. Alam and						
	228	Sayuti (2011)'s TPB model explained 29.1% of the variance in halal food purchasing						
	229	intention. Additional predictors must be sought as more than 70% of the variance remain						
38 39	230	unexplained.						
40	231							
41 42	232	Please insert Figure 1-2 here						
43 44	233	Figure 1-2 Theory of Planned Behaviour model (attitude, subjective norms and PBC) of halal						
45	234	food consumption among consumers in Indonesia						
46 47	235							
48 49	236	Hence, additional factors (perceived awareness, habit, RSI, moral obligations and trust)						
50	237	were regressed against intention to consume halal food. The second regression model						
51 52	238	(Figure 23) accounted an additional 19% of the variance where R ² =0.43, (adjusted						
53 54	239	R^2 =0.42). The model was significantly different from zero where $F(8, 381) = 36.37$,						
55	240	$p\!\!<\!\!0.001$. In the second model, attitude, RSI and moral obligations were significant						
56 57	241	predictors of the intention to consume halal food.						
58	242							
59 60	243	Please insert Figure 2-3 here						

Figure 2-<u>3</u> Extended Theory of Planned Behaviour model on halal food consumption among consumers in Indonesia

Attitude towards halal food consumption consistently ranked the highest among all factors. It significantly predicts halal food consumption (β =0.12, p <0.05). This corroborates with other studies that reported attitude has a significant and positive effect on halal food purchasing intention (Ahmed et al., 2014; Alam and Sayuti, 2011; Bonne et al., 2007; Lada et al., 2009). Consumers who reported high positive attitudes demonstrated greater intentions to consume halal food. Subjective norms did not significantly predict intention to consume halal food. Consumers agreed that social norms play a role in determining their food choices. Although respondents do not feel under social pressure to eat halal food, however they agreed that people who are important to them would disapprove if they do not consume halal food. Similarly, Salman and Siddigui (2011) reported that consuming non-halal food can affect one's social relations and lead to isolation from the Muslim community. Subjective norms can also be explained by the type of cultures ingrained in a country. Muslim culture is a collectivistic culture where people perceived themselves to be interdependent with each other and value in-group recommendations (Jamal, 2003). This is unlike individualistic cultures where people perceived themselves to be autonomous and independent of the group (Bonne et al., 2007).

There is a negative and insignificant relationship $(\beta = -0.01)$ between PBC and intent to consume halal food meaning that perceived control and availability does not influence halal food consumption. In other words, availability is not a barrier to consuming halal food. Similarly, Bonne et al. (2006) reported a negative and insignificant relationship between perceived availability and halal meat consumption. This is in contrast to Verbeke and Lopez (2005) who found that lack of ingredients in markets and high cost deterred Hispanics in Belgium from retaining their native food habits. The findings in this study suggests that consumers are very confident about the availability of halal food. In other Muslim majority country such as Pakistan, it was noted that the government and local authorities are responsible for the availability of halal food (Awan et al., 2015).

There is no significant impact of perceived awareness on halal food consumption. This suggests that increased level of knowledge does not influence intention and corroborates with Awan et al. (2015) findings. However, this contradicts Aziz and Chok (2013), Azam (2016) and Hamdan et al. (2013), who found that halal awareness was an influential factor in determining halal food purchasing intention. As awareness can be a relative concept, it is worth exploring the level of awareness (i.e. partially, subconsciously

and acutely) and its influence on halal food consumption. Eating halal food is a habituated process as indicated by the high scores on the habit items. This aligns with Ahmed et al. (2014) where the consumers consider halal food consumption as an automated process. However, habit did not significantly predict halal food consumption and this may have been caused by consumers' uncertainty about one of the items i.e. 'I don't have to think about doing it'. It is common for Muslim consumers to read food labels or to look for halal indicators such as halal guarantee status, country of origin and product ingredients when purchasing and prior to consuming (Ishak et al., 2016).

The attributes for religious self-identity were ranked highly by respondents. Religious self-identity significantly predicts halal food consumption among consumers in Indonesia $(\beta=0.24, p<0.0001)$. This value indicates that as RSI increases by one unit, halal food consumption intent increases by 0.24 unit. Religion remains an important universal and personal marker of identity. Bonne and Verbeke (2006) revealed that Muslim consumers eat halal food to follow and express their religious teachings. However, the impact of religion on food consumption depends on the religion itself, the extent of the individuals' interpretation and following of teachings (McWilliams et al., 2016). Indonesia is a Muslim-majority country and observes strong religious socialisation. Muslims are obligated to follow the teachings in Qur'an and consume halal food and avoid haram (non-permissible) food such as porcine, alcohol, blood, carnivorous animals, birds of prey and any food contaminated with these products (Soon et al., 2017). This helps to cement the consumers' religious self-identity and motivation to follow the Islamic dietary laws. Previous studies also showed that RSI influenced the decision-making process in halal food consumption. Individuals with strong religion identification were more motivated to follow halal dietary rules (Bonne and Verbeke, 2006; Bonne et al., 2008; Heiman et al., 2004; Johnson et al., 2011). A similar study by Soesilowati (2010) revealed that the higher the degree of an individual's religiosity, the greater their concern are to consume halal food. The degree of an individual's religiosity is also influenced by religious experience and education background especially if the respondents were educated in Islamic boarding schools in Indonesia (Soesilowati, 2010)

Prior studies identified religion as a source of core values including moral principles that influence consumption habits (Mathras et al., 2016; Vitell, 2009). This study corroborates with previous findings and moral obligations were shown to be a significant predictor in halal food consumption (β =0.32, *p* < 0.0001). Respondents are convinced that food products with halal logos are indeed halal. Provision of false information of halal food products can cause mistrust and loss of confidence among consumers (Mohamed et al., 2013).

1 2								
3 4	314							
5	315	Practical implications						
6 7 8 9 10 11 12 13 14 15	316	Indonesia is currently the leading country with the highest Muslim population and makes up						
	317	12.7% of the global Muslim population in 2010 (Pew Research Center, 2011). Indonesia						
	318	contributes to the food and agricultural economy by importing more than US\$12 billion						
	319	worth of agricultural products (FAOSTAT, 2016). The findings provided in this study can be						
	320	used by the government and food producers to target specific factors especially positive						
	321	attitudes, RSI and moral obligations. Indonesian Ul <u>a</u> ema Council (Majelis Ulama Indonesia –						
16 17	322	a Muslim clerical body), food industry and the media play critical roles in sustaining						
18 19	323	consumers' positive attitude towards halal food consumption. Halal is an opportunity for the						
20	324	expansion of products and brands, making it as it a niche marketing approach (Wilson, 2014)						
21 22	325	and also need to ensure the integrity of the supply chain (Soon et al., 2017). Ensuring the						
23 24	326	integrity of the halal food supply chain will ensure the success of halal market. If consumers'						
25	327	trust towards halal food are breached (e.g. contamination of food products with haram						
26 27 28 29 30 31 32 33 34 35 36 37	328	sources), this may create negative feelings among consumers and reduced confidence in the						
	329	market. Secondly, the findings revealed that RSI and moral obligations are significant						
	330	predictors in their intent to consume halal food. This provides clear implication to halal food						
	331	manufacturers. It is critical for food manufacturers to tailor their marketing strategies and						
	332	consider promoting Islamic dietary rules when featuring their food products. With assistance						
	333	<u>from Indonesian Ulama Council – a trusted halal certifier, local manufacturers can set up</u>						
	334	their halal assurance system (HAS) to achieve halal certification Ratanamaneichat and						
38 39	335	Rakkarn (2013). Similarly, local food services could prioritise halal certification. Prabowo et						
40	336	et al. (2015) revealed that food services places less concern in achieving halal certification						
41 42	337	due to lack of socialisation and information leading to lack of knowledge and awareness. To						
43 44	338	participate in the global halal market, companies can incorporate halal certification and						
45	339	labelling. With the surge in halal economy and demand for halal goods, halal certification						
46 47	340	bodies play an important role in ensuring the integrity of the supply chain. As Indonesia is						
48 49	341	one of the fastest growing halal economy globally, Indonesia can emulate other						
50	342	Organisation of Islamic Cooperation (OIC) countries to market and certify their food						
51 52	343	products.						
53 54	344							
55	345	Conclusion						
56								

This study extended the Theory of Planned Behaviour to incorporate additional factors to
 predict the intent to consume halal food. This study also answered the call from previous
 literature regarding the lack of research in halal food in other Muslim majority countries.

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3 4	349	Findings from this study provided evidence of significant relationships between attitude, RSI
5	350	and moral obligations with halal food consumption among consumers in Indonesia. These
6 7	351	factors can be targeted in marketing-related strategies by food manufacturers and
8 9	352	exporters. Additionally, the results can be used by the Surabayan authorities, policymakers
10	353	and academia in managing the direction of halal food production and development. Future
11 12	354	studies should be carried out to further explore each predictor in detail.
13	355	
14	356	References
15	357	
16	358	Ajzen, I. (1985), "From intentions to actions: A Theory of Planned Behaviour", in, J. Kuhl and
17	359	J. Beckmann (eds.). Action Control: From Cognition to Behaviour. Springer Berlin
18 19	360	Heidelberg, pp. 11-39.
20	361	
20	362	Ahmed, Z. U., Al-Kwifi, O. S., Saiti, B. and Othman, N. (2014), "Consumer behaviour
22	363	dynamics of Chinese minorities", Journal of Technology Management in China, Vol. 9 No. 1,
23	364	pp. 6-23.
24	365	
25	366	Alam, S. S. and Sayuti, N. M. (2011), "Applying the Theory of Planned Behavior (TPB) in
26	367	halal food purchasing", <i>International Journal of Commerce and Management</i> , Vol. 21 No. 1,
27	368	pp. 8-20.
28		pp. 6-20.
29	369	Ali A Ali A Viseling C Cheruspi M and Hussein C (2018) "Expanding the theory of
30	370	Ali, A., Ali, A., Xiaoling, G., Sherwani, M. and Hussain, S. (2018), "Expanding the theory of
31	371	planned behaviour to predict Chinese Muslims halal meat purchase intention", British Food
32	372	<i>Journal</i> , Vol. 120 No. 1, pp. 2-17.
33	373	
34 35	374	Alzeer, J., Riefer, U. and Hadeed, K. A. (2018), "Rational and practical aspects of halal ad
36	375	tayyib in the context of food safety", <i>Trends in Food Science and Technology</i> , Vol. 71, pp.
37	376	264-267.
38	377	
39	378	Ambali, A. R. and Bakar, A. N. (2014), "People's awareness on halal foods and products:
40	379	Potential issues for policy-makers", <i>Procedia – Social and Behavioural Sciences</i> , Vo. 121, pp.
41	380	3-25.
42	381	
43	382	Armitage, C. J. and Conner, M. (1999), "The theory of planned behaviour: Assessment of
44	383	predictive validity and 'perceived control", <i>British Journal of Social Psychology</i> , Vol. 38, pp.
45	384	35-54.
46	385	
47	386	Awan, H., Siddiquei, A. N. and Haider, Z. (2015), "Factors affecting halal purchase intention
48	387	- evidence from Pakistan's halal food sector", <i>Management Research Review</i> , Vol. 38 No. 6,
49 50	388	pp. 640-660.
51	389	
52	390	Azam, A. (2016), "An empirical study on non-Muslim's packaged halal food manufacturers:
53	391	Saudi Arabian consumers' purchase intention", Journal of Islamic Marketing, Vol. 7 No. 4,
54	392	441-460.
55	393	
56	394	Aziz, Y. A. and Chok, N. V. (2013), "The role of halal awareness, halal certification, and
57	395	marketing components in determining halal purchase intention among non-Muslims in
58	396	Malaysia: A structural equation modeling approach", <i>Journal of International Food &</i>
59	397	Agribusiness Marketing, Vol. 25 No. 1, pp. 1-23.
60		

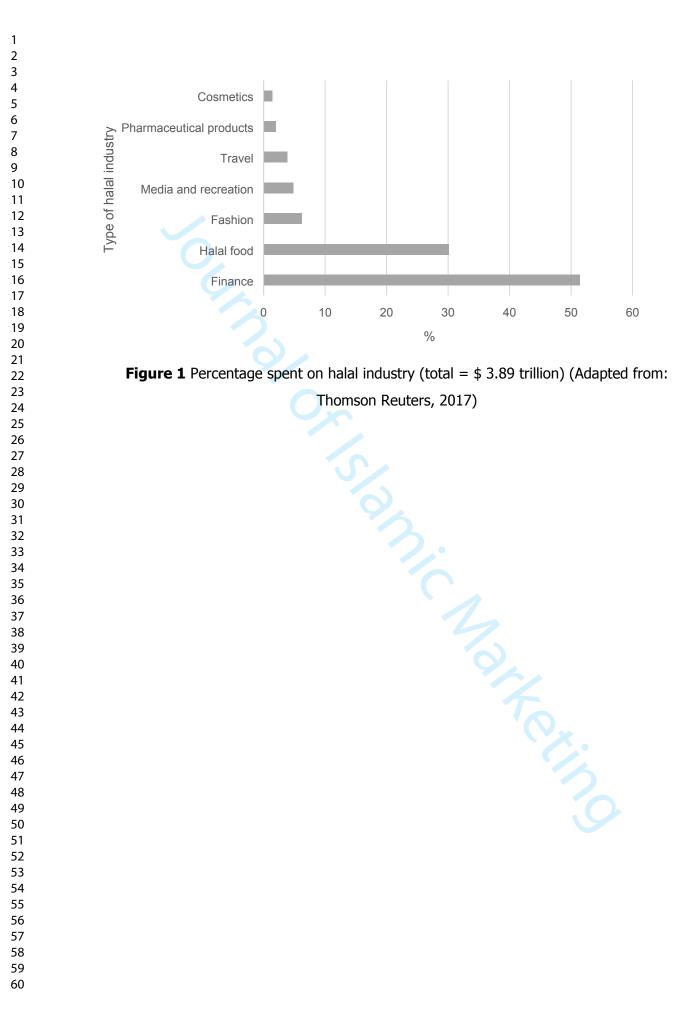
2		
3	398	
4	399	Bashir, A. M., Bayat, A., Olutuase, S. O. and Abdul Latiff, Z. A. (2019), "Factors affecting
5	400	consumers' intention towards purchasing halal food in South Africa: a structural equation
6	401	modelling", Journal of Food Products Marketing, Vol. 25 No. 1, pp. 26-48. doi:
7		10.1080/10454446.2018.1452813
8	402	10.1000/10434440.2010.1432013
9	403	Riddle R. J. Reals R. J. and Clavings R. J. (1007) "Neuros professores identifies and
10	404	Biddle, B. J., Bank, B. J. and Slavings, R. L. (1987), "Norms, preferences, identities and
11	405	retention decisions", Social Psychology Quarterly, Vol. 50 No. 4, pp. 322-337.
12	406	
13 14	407	Bon, M. and Hussain, M. (2010), "Halal food and tourism: Prospects and challenges",
14	408	Bridging Tourism Theory and Practice, Vol. 2, pp. 47-59.
16	409	
17	410	Bonne, K. and Verbeke, W. (2006), "Muslim consumer's motivations towards meat
18	411	consumption in Belgium: qualitative exploratory insights from means-end chain analysis",
19	412	Anthropology of Food, Vol. 5, pp. 2-24.
20	413	
21	414	Bonne, K., Vermeir, I., Bergeaud-Blackler, F. and Verbeke, W. (2007), "Determinants of
22	415	halal meat consumption in France", British Food Journal, Vol. 109 No. 5, pp. 367-386.
23	416	
24	417	Bonne, K., Vermeir, I. and Verbeke, W. (2008), "Impact of religion on halal meat
25	418	consumption decision making in Belgium", <i>Journal of International Food & Agribusiness</i>
26	419	Marketing, Vol. 21 No. 1, pp. 5-26.
27	419	
28		Briliana, V. and Mursito, N. (2017), "Exploring antecedents and consequences of Indonesian
29	421	
30	422	Muslim youths' attitude towards halal cosmetic products: A case study in Jakarta", Asia
31	423	Pacific Management Review, Vol. 22 No. 4, pp. 176-184.
32	424	
33 34	425	Conner, M. T. and Armitage, C. J. (1998), "Extending the theory of planned behaviour: A
34 35	426	review and avenues for further research", Journal of Applied Social Psychology, Vol. 28, pp.
36	427	1429-1464.
37	428	
38	429	DeSilver, D. and Masci, D. (2017), "World's Muslim population more widespread than you
39	430	might think. Pew Research Center", available at: http://www.pewresearch.org/fact-
40	431	tank/2017/01/31/worlds-muslim-population-more-widespread-than-you-might-think/
41	432	[Accessed 27 January 2018].
42	433	
43	434	Elseidi, R. I. (2018), "Determinants of halal purchasing intentions: evidences from UK",
44	435	Journal of Islamic Marketing, Vol. 9 No. 1, pp. 167-190.
45	436	
46	437	Faizal, A. (2017), "UMK Surabaya 2018 sebesar Rp 3,58 juta jadi tertinggi di jatim",
47	438	Available at: https://regional.kompas.com/read/2017/11/21/17284231/umk-surabaya-2018-
48	439	sebesar-rp-358-juta-jadi-tertinggi-di-jatim [Accessed 17 August 2018]
49	440	Sebesar ip 550 jata jaar tertinggi ar jatim [Accessed 17 August 2010]
50		FAOSTAT (2016), "Crops and livestock products", available at:
51	441	
52	442	http://www.fao.org/faostat/en/#data/TP [Accessed 16 August 2018]
53 54	443	Unines D. Chroth M. D. and Unines, D. (2000). With a fuffy start of start of the st
54 55	444	Haines, R., Street, M. D. and Haines, D. (2008), "The influence of perceived importance of
55 56	445	an ethical issue on moral judgment, moral obligation and moral intent", <i>Journal of Business</i>
50 57	446	<i>Ethics</i> , Vol. 81, pp. 387-399
58	447	
59		
60		

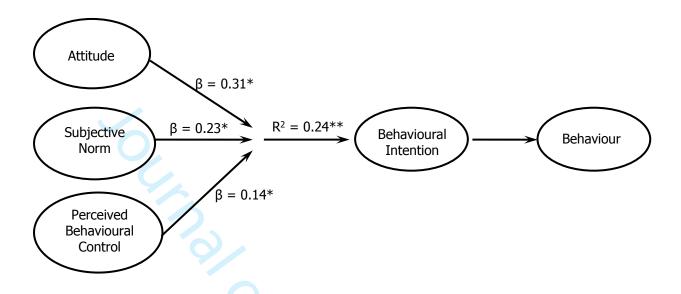
Hamdan, H., Mat Issa, Z., Abu, N. and Jusoff, K. (2013), "Purchasing decision among Muslim consumers of processed halal food products", Journal of Food Products Marketing, Vol. 19 No. 1, pp. 54-61. Han, H., Hsu, L.-T. and Sheu, C. (2010), "Application of the Theory of Planned Behavior to green hotel choice: Testing the effect of environmental friendly activities", Tourism Management, Vol. 31 No. 3, pp. 325-334. Haque, A., Sarwar, A., Yasmin, F., Tarofder, A. K. and Hossain, M. A. (2015), "Non-Muslim consumers' perception toward purchasing halal food products in Malaysia", Journal of *Islamic Marketing*, Vol. 6 No. 1, pp. 133-147. Heiman, A., Just, D., McWilliams, B. and Zilberman, D. (2004), "Religion, religiosity, lifestyles and food consumption", Agriculture Resource Economics, Vol. 8 No. 2, pp. 9-11. Hoeksma, D. L., Gerritzen, M. A., Lokhorst, A. M. and Poortvliet, P. M. (2017), "An extended theory of planned behaviour to predict consumers' willingness to buy mobile slaughter unit meat", Meat Science, Vol. 128, pp. 15-23. Honkanen, P., Olsen, S. O. and Verplanken, B. (2005), "Intention to consume seafood – the importance of habit", Appetite, Vol. 45 No. 2, pp. 161-168. Ireland, J. and Rajabzadeh, S. A. (2011), "UAE consumer concerns about halal products", Journal of Islamic Marketing, Vol. 2 No. 3, 274-283. Ishak, S., Awang, A. H., Hussain, M.Y., Ramli, Z., Md Sum, S., Saad, S. and Manaf, A. A. (2016), "A study on the mediating role of halal perception: determinants and consequence reflections", Journal of Islamic Marketing, Vol. 7 No. 3, pp. 288-302. Ismoyowati, D. (2015), "Halal food marketing: A case study on consumer behavior of chicken-based processed food consumption in Central Part of Java, Indonesia", Agriculture and Agricultural Science Procedia, Vol. 3, pp. 169-175. Jamal, A. (2003), "Marketing in a multicultural world: The interplay of marketing, ethnicity and consumption", European Journal of Marketing, Vol. 7, pp. 70-78. Johnson, K. A., White, A. E., Boyd, B. M. and Cohen, A. B. (2011), "Matzah, meat, milk, and mana: Psychological influences on religious food practices", Journal of Cross-Cultural *Psychology*, Vol. 42 No. 8, pp. 1421-1436. Kim, Y. and Han, H. (2010), "Intention to pay conventional-hotel prices at a green hotel: A modification of the theory of planned behaviour", Journal of Sustainable Tourism, Vol. 18, pp. 997-1014. Lada, S., Tanakinjal, G. H. and Amin, H. (2009), "Predicting intention to choose halal products using theory of reasoned action", International Journal of Islamic and Middle Eastern Finance and Management, Vol. 2 No. 1, pp. 66-76. Luthfi, B. A. and Salehudin, I. (2011), "Marketing impact of halal labeling toward Indonesiamn Muslim consumer's behavioural intention based on Ajzen's planned behaviour theory: Policy capturing studies on five different product categories", ASEAN Marketing Journal, Vol. 3 No. 1, pp. 35-43.

2		
3	500	
4	500	Mathras, D., Cohen, A. B., Mandel, N. and Mick, D. G. (2016), "The effects of religion on
5	501	consumer behaviour: A conceptual framework and research agenda", <i>Journal of Consumer</i>
6		
7	503	<i>Psychology</i> , Vol. 26 No. 2, pp. 298-311.
8	504	MUNUTER DE LISTER A STATUTE DE (2010) NDISERSION DES NE E1C DEVISION
9	505	McWilliams, B., Heiman, A., and Zilberman, D. (2016), "Discussion Paper No. 516. Religion,
10	506	religiosity, and the consumption of timesaving foods", available at:
11	507	http://departments.agri.huji.ac.il/economics/en/publications/discussion_papers/2016/5.16Mc
12	508	WilliamsHeimanZilberman-Religion-Religiosity.pdf [Accessed 16 August 2018].
13 14	509	
14	510	Minton, E. A., Johnson, K. A and Liu, R. L. (<u>2019in press</u>), "Religiosity and special food
16	511	consumption: The explanatory effects of moral priorities", Journal of Business Research, Vol.
17	512	<u>95, pp. 442-454. doi: doi.org/10.1016/j.jbusres.2018.07.041</u>
18	513	
19	514	Mohamed, Z., Shamsudin, M. N. and Rezai, G. (2013), "The effect of possessing information
20	515	about halal logo on consumer confidence in Malaysia", Journal of International Food and
21	516	Agribusiness Marketing, Vol. 25 No. Supp. 1, pp. 73-86.
22	517	
23	518	Mohsin, A., Ramli, N. and Alkhulayfi, B. A. (2016), "Halal tourism: Emerging opportunities",
24	519	<i>Tourism Management Perspectives,</i> Vol. 19 (Part B), pp. 137-143.
25	520	<u>rounsminialagement religiedation (rait b), pp. 157-115.</u>
26	520	Nor Sara, N. M. Y., Wan Edura, W. R., Noradifia, M. A. and Norhidayah, M. R. (2014),
27	521	"Muslim's purchase intention towards non-Muslim's halal packaged food manufacturer",
28		
29	523	Procedia – Social and Behavioural Sciences, Vol. 130, pp. 145-154.
30	524	Deve Descende Contex (2000) When size the slabel Muslim negative "The Deve Ferries on
31	525	Pew Research Center (2009), "Mapping the global Muslim population", The Pew Forum on
32	526	Religion and Public Life, Washington, D.C.
33 34	527	
35	528	Pew Research Center (2011), "The future of the global Muslim population", available at:
36	529	http://www.pewforum.org/2011/01/27/the-future-of-the-global-muslim-population/
37	530	[Accessed 16 August 2018]
38	531	
39	532	Prabowo, S., Abd Rahman, A., Ab Rahman, S. and Abu Samah, A. (2015), "Revealing factors
40	533	hindering halal certification in East Kalimantan Indonesia", <i>Journal of Islamic Marketing</i> , Vol.
41	534	6 No. 2, pp. 268-291.
42	535	
43	536	Ratanamaneichat, C. and Rakkarn, S. (2013), "Quality assurance development of halal food
44	537	products for export to Indonesia", Procedia – Social and Behavioral Sciences, Vol. 88, pp.
45	538	134-141.
46	539	
47	540	Salam Standard (2016), "The global economic impact of Muslim tourism, 2015/2016",
48	541	Available at: http://www.webintravel.com/wp-content/uploads/2016/12/Salam-Standard-
49	542	Global-Economic-Impact-of-Muslim-Tourism-2015.pdf [Accessed 12 March 2019]
50	543	Global Economic Impact of Hasimi Tourism 2015.pdf [Accessed 12 Harch 2015]
51 52	543 544	Salman, F. and Siddiqui, K. (2011), "An exploratory study for measuring consumers
53	544 545	awareness and perceptions towards halal food in Pakistan", <i>Interdisciplinary Journal of</i>
54		
55	546	Contemporary Research in Business, Vol. 3 No. 2, pp. 639-651.
56	547	Championi M. Ali A. Ali A. Hussein C. and Zadman H. C. (2010) "Determinants (M. H
57	548	Sherwani, M., Ali, A., Ali, A., Hussain, S. and Zadran, H. G. (2018), "Determinants of Muslim
58	549	consumers' Halal meat consumption: Applying and extending the theory of planned
59	550	behaviour", Journal of Food Products Marketing, Vol. 24 No. 8, pp.960-981
60	551	-doi: 10.1080/10454446.2018.1450173

1		
2		
3 4	552	
5	553	Soesilowati, E. S. (2010), "Business opportunities for halal products in the global market:
6	554	Muslim consumer behaviour and halal food consumption", Journal of Indonesian Social
7	555	Sciences and Humanities, Vol. 3, pp. 151-160.
8	556	
9	557	Soon, J. M., Chandia, M. and Regenstein, J. M. (2017), "Halal integrity in the food supply chain", <i>British Food Journal</i> , Vol. 119 No. 1, pp. 39-51.
10 11	558 559	Chain , <i>Bhush Food Journal</i> , Vol. 119 No. 1, pp. 59-51.
12	559 560	Syed, S. A. and Nazura, M. S. (2011), "Applying the Theory of Planned Behaviour (TPB) in
13	561	halal food purchasing", International Journal of Commerce and Management, Vol. 21 No. 1,
14	562	pp. 8-20.
15	563	pp. c = c.
16 17	564	Teng, CC. and Wang, YM. (2015), "Decisional factors driving organic food consumption:
17	565	Generation of consumer purchase intentions", British Food Journal, Vol. 117 No. 3, pp.
19	566	1066-1081.
20	567	
21	568	Terry, D. J., Gogg, M. A. and White, K. M. (1999), "The theory of planned behaviour: Self-
22	569	identity, social identity and group norms", <i>British Journal of Social Psychology</i> , Vol. 36, pp.
23 24	570	225-244.
25	571	Themeen Deuteur (2017) "State of the clobal Jalamia according 2016/17" Augilable at
26	572	Thomson Reuters (2017), "State of the global Islamic economy 2016/17", Available at: https://ceif.iba.edu.pk/pdf/ThomsonReuters-
27	573 574	stateoftheGlobalIslamicEconomyReport201617.pdf [Accessed 12 March 2019]
28	575	StateortheGlobalislamicLeonomyReport201017.pdf [Accessed 12 March 2013]
29 30	576	Verbeke, W. (2005), "Agriculture and the food industry in the information age", <i>European</i>
31	577	Journal of Agricultural Economics, Vol. 32 No. 3, pp. 347-368.
32	578	5
33	579	Verbeke, W. (2013), "Credence quality coordination and consumers' willingness-to-pay for
34 25	580	certified halal labelled meat", <i>Meat Science</i> , Vol. 95 No. 4, pp. 790-797.
35 36	581	
37	582	Verbeke, W. and Lopez, G. P. (2005), "Ethnic food attitudes and behaviour among Belgians
38	583	and Hispanics living in Belgium", <i>British Food Journal</i> , Vol. 107 No. 11, pp. 823-840.
39	584 585	Vitell, S. J. (2009), "The role of religiosity in business and consumer ethics: A review of the
40 41	585 586	literature", <i>Journal of Business Ethics</i> , Vol. 90 No. 2, pp. 155-167.
41	587	
43	588	Wilson, J. A. J. (2012), "Charting the rise of the halal market – tales from the field and
44	589	looking forward", Journal of Islamic Marketing, Vol. 3 No. 3, pp. 18-27.
45		
46 47	590	Wilson, J. A. (2014), "The halal phenomenon: an extension or a new paradigm?" Social
48	591	Business, Vol. 4 No. 3, pp. 255-271.
49	592 593	Wilson, J. A. J. and, & Liu, J. (2010), "Shaping the Halal into a brand?" Journal of Islamic
50	595 594	Mison, J. A. J. and, & Eld, J. (2010), Shaping the Halarinto a brande. Journal of Islamic Marketing, Vol. 1 No. 2, pp. 107-123.
51 52	554	<u>Plaineurily, vol. 1 No. 2, pp. 107 125.</u>
52 53	595	Wilson, J. A. and, & Liu, J. (2011), "- The challenges of Islamic branding: navigating
54	596	emotions and halal", Journal of Islamic Marketing, Vol. 2 No. 1, pp. 28-42.
55	597	
56	598	World Population Review (2018), "Surabaya population 2018", available at:
57 58	599 600	http://worldpopulationreview.com/world-cities/surabaya-population/ [Accessed 2 July 2018]
58 59	600	
60		

> Yusuf, E. and Ab Yajid, M. S. (2016), "Halal pharmaceuticals and cosmeceuticals from the perspective of higher education", Asian Journal of Pharmaceutical Sciences, Vol. 11 No. 1, Journal of Islamic Marketing pp. 18-19.





Jel (attit, nong consum, Figure 2 Theory of Planned Behaviour model (attitude, subjective norms and PBC) of halal food consumption among consumers in Indonesia

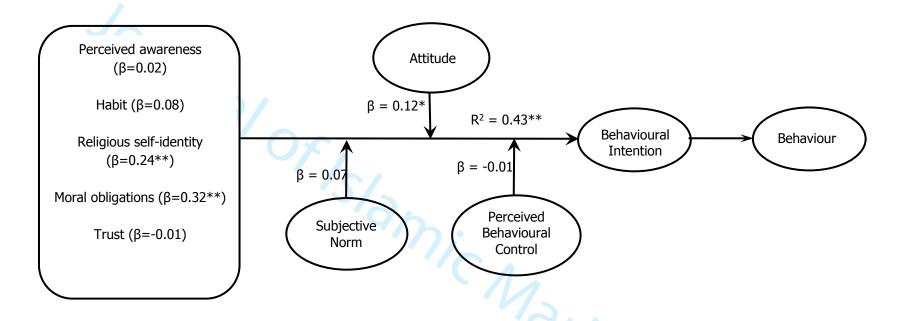


Figure 3 Extended Theory of Planned Behaviour model on halal food consumption among consumers in Indonesia

Table 1 Factors influencing consumption of halal food (n=418)

Factors	Age Education						Overall mean ±	
4rb	Millennials (n=168)	Gen X (n=185)	Baby boomers (n=65)	F	Diploma and below	Degree and above	t	SD
Attitude (For me, consuming halal food is)								
Extremely unimportant – extremely important	4.73 ^ª ±0.52	4.51 ^b ±0.78	4.56 ^{ab} ±0.6 6	5.09*	4.57±0.7 2	4.64±0.6 3	-1.12	4.61±0.67
Extremely undesirable – extremely desirable	4.75 ^a ±0.46	4.53 ^b ±0.77	4.63 ^{ab} ±0.4 9	5.36*	4.60±0.6 5	4.66±0.6 1	-0.97	4.64±0.62
Extremely negative – extremely positive	4.65±0.55	4.50±0.72	4.63±0.65	2.80	4.53±0.7 1	4.62±0.6 0	-1.39	4.58±0.65
Extremely unenjoyable – extremely enjoyable	4.60±0.59	4.46±0.71	4.49±0.71	2.04	4.49±0.7 1	4.54±0.6 3	-0.84	4.52±0.66
Subjective norms								
People who are important to me think I should eat halal food	4.42±0.75	4.35±0.76	4.48±0.81	0.73	4.33±0.7 9	4.45±0.7 3	-1.58	4.40±0.76
People who are important to me would approve that I eat halal food	4.60 ^a ±0.58	4.43 ^b ±0.63	4.63 ^ª ±.0.5 2	4.71*	4.48±0.6 0	4.57±0.5 9	-1.57	4.53±.060
My community / village think I should eat halal food	4.28±0.72	4.10±0.86	4.20±0.87	2.24	4.21±0.7 5	4.17±0.8 6	0.57	4.19±0.81
I feel under social pressure to eat halal food	2.20±1.17	2.20±1.25	2.34±1.41	0.32	2.24±1.1 8	2.21±1.2 9	0.22	2.22±1.24
Perceived Behavioural Control								
Whether or not I consume halal food is completely up to me	4.25±0.78	4.16±0.97	4.25±0.83	0.55	4.10±0.8 8	4.30±0.8 6	- 2.30 *	4.21±0.88
I am confident that I can find and consume halal food whenever I want	4.15±0.82	4.00±0.97	4.14±0.92	1.39	4.07±0.8 6	4.10±0.9 4	-0.33	4.08±0.91

Factors	Age				E	Overall mean ±		
	Millennials (n=168)	Gen X (n=185)	Baby boomers (n=65)	F	Diploma and below	Degree and above	t	SD
I have resources, time and opportunities to consume halal food	4.37±0.64	4.25±0.71	4.29±0.82	1.21	4.24±0.7 4	4.36±0.6 7	-1.65	4.31±0.7
I am confident I can find and consume halal food easily	4.23±0.81	4.04±0.97	4.05±0.87	2.39	4.08±0.8 5	4.15±0.9 3	-0.77	4.12±0.8
Intention								
I am willing to pay more to consume halal food	4.16±0.83	4.23±0.90	4.35±0.54	1.26	4.08±0.8 4	4.34±0.8 0	-3.16	4.22±0.8
I am willing to shop around to find and consume halal food	4.43±0.58	4.48±0.57	4.41±0.53	0.42	4.38±0.5 8	4.51±0.5 5	-2.33	4.45±0.5
I intend to purchase halal food in future	4.49±0.60	4.45±0.72	4.49±0.50	0.21	4.35±0.7 2	4.58±0.5 5	- 3.63 *	4.47±0.0
Perceived awareness								
I am personally very knowledgeable about halal food	3.91±1.00	3.75±1.24	3.83±1.19	0.87	3.85±.1. 04	3.80±1.2 1	0.48	3.83±1.
The average person in East Java is very knowledgeable about halal food	3.94±0.82	3.80±0.91	3.69±1.03	2.08	3.82±0.8 9	3.85±0.9 1	-0.30	3.84±0.9
The local food industry is very knowledgeable about halal food	4.09±0.86	3.99±0.90	4.09±0.93	0.66	4.00±0.9 0	4.08±0.8 7	-0.97	4.05±0.8
Habit (Eating halal food is something)								
I do regularly	4.58±0.56	4.52±0.62	4.51±0.60	0.71	4.49±0.6 5	4.58±0.5	-1.52	4.54±0.0
I do without having to consciously remember	4.39 ^ª ±0.84	4.12 ^b ±0.98	4.32 ^{ab} ±0.7 7	4.06*	4.27±0.8	4.26±0.9	0.10	4.26±0.
I feel weird if I don't do it	4.41±0.72	4.40±0.69	4.46±0.69	0.21	4.32±0.7 8	4.50±0.6 1	- 2.56 *	4.41±0.

Factors	Age				Education			Overall mean ±
	Millennials (n=168)	Gen X (n=185)	Baby boomers (n=65)	F	Diploma and below	Degree and above	t	SD
I don't have to think about doing it	3.70±1.30	3.77±1.26	3.98±1.21	1.17	3.74±1.2 5	3.81±1.2 9	-0.49	3.78±1.2
Religious self-identity								
Eating halal food is an important part of who I am	4.35±0.72	4.34±0.77	4.45±0.71	0.50	4.32±0.7 7	4.40±0.7 1	-1.17	4.36±0.74
I would feel at a loss if I can't consume halal food	4.27±0.80	4.33±0.78	4.40±0.58	0.83	, 4.18±0.7 8	4.43±0.7 3	-3.42	4.31±0.7
I follow strict Islamic rules and will only eat halal food	4.36±0.80	4.33±0.84	4.46±0.73	0.65	4.28±0.9 1	4.43±0.6 9	-1.90	4.36±0.8
Moral Obligations								
I feel guilty if I do not consume halal food	4.45±0.78	4.48±0.67	4.34±0.89	0.89	4.38±0.8 2	4.50±0.6 9	-1.68	4.45±0.7
I feel morally wrong if I do not consume halal food	4.44 ^a ±0.74	4.41 ^{ab} ±0.6 6	4.15 ^b ±0.99	3.54*	4.30±0.7 8	4.45±0.7 4	-1.95	4.38±0.7
It goes against my principles if I do not consume halal food	4.32±0.84	4.32±0.73	4.26±0.87	0.15	4.26±0.8 2	4.35±0.7 8	-1.20	4.31±0.8
Trust								
I do not trust that food with international or other halal logos are halal	2.90±1.09	2.75±1.11	2.88±1.27	0.81	2.88±1.1 1	2.79±1.1 5	0.78	2.83±1.1
I trust local Muslim sellers who sell halal food even if it's	3.49 ^ª ±1.04	3.23±1.15	3.21±1.30	2.89	3.41±1.0 6	3.27±1.1 9	1.23	3.33±1.1

Table 2 Mean composition of items and reliability analysis of TPB components

TPB components	Composition of items	Mean	SD	Cronbach's alpha
Attitude	Mean of 4 items	4.59	0.59	0.91
Subjective norms	Mean of 4 items	3.84	0.59	0.51
Perceived behavioural	Mean of 4 items	4.16	0.70	0.82
control				
Perceived awareness	Mean of 3 items	3.90	0.71	0.52
Habit	Mean of 4 items	4.26	0.63	0.63
Religious self-identity	Mean of 3 items	4.34	0.64	0.74
Moral obligations	Mean of 3 items	4.41	0.66	0.85
Trust	Mean of 2 items	3.49	0.69	0.59
Intention	Mean of 3 items	4.38	0.59	0.81