

Effects of food safety and perceived social support on mediating consumers' attitude toward organic food purchase

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Article history:

Received: 30 November

2020

Received in revised form: 3

January 2021

Accepted: 22 February 2021

Available Online: 22 August

2021

Keywords:

Attitude,

Health safety norms,

Perceived social support,

Organic food purchase,

Theory of bounded rationality

Abstract

The purpose of this paper is to examine the determinants of organic food purchase (O-FP). Specifically, how do consumers' attitudes toward O-FP mediate in the links between health safety norms, perceived self-efficacy and perceived social support, and O-FP? To answer this question, a research framework using the theory of bounded rationality as its basis was formulated. Data were collected from the residents of Dhaka city during the 2019 holiday season. Structural equation modelling was used to analyse the data to answer the questions about the relationships of the aforementioned constructs toward organic food purchase behaviour. Findings suggested that perceived self-efficacy has no association between attitude and O-FP. However, other hypotheses are found to be supported implying attitude has both direct and mediated influence on O-FP.

DOI:

[https://doi.org/10.26656/fr.2017.5\(4\).646](https://doi.org/10.26656/fr.2017.5(4).646)

1. Introduction

In 2012, Jeff Keller wrote a book entitled, "*Attitude is Everything*." In his book, Keller (2012) maintains that human attitude is just a looking glass that helps reflect everything through it. According to Winston Churchill, attitude is a little thing that makes a big difference. However, William Shakespeare combines those two concepts and says that nothing is good or bad, but attitudinal thinking brands it subsequently. In this regard, in recent research, Ajzen and Kruglanski (2019) reasonably mention that human intention toward actual behaviour is directly or indirectly influenced by a human attitude which is formed as a result of accumulative knowledge gathered by an individual from all sources of information such as formal education, social norms, safety measures and external and internal factors of perceived self-efficacy. Nonetheless, empirical studies on this pervasive role of attitude are scarcely observed. The present study is, thus, an effort to examine the direct and indirect effects of human attitude toward consumers' organic food purchase behaviour in one of the fastest-growing economies in South Asia.

By and large, there are several arguments for and against organic food purchase (Yazdanpanah *et al.*,

2015). Some issues are related to economic, environmental and health benefits that are prioritized by organic food advocates (Anusha *et al.*, 2020; Ellinda-Patra *et al.*, 2020). Sustainability of functional food versus productivity of organic food is the subject matter of those arguments. On the one hand, advocates of organic food argue that organic agriculture utilizes manures and compost instead of chemical fertilizers that retain soil quality preserving its fertility, environmental biodiversity and natural biological cycles (Wheeler, 2008). These organic methods of producing organic food do not have health hazards, as they do not apply chemical fertilizers, pesticides or herbicides (Huber *et al.*, 2012). Empirical evidence suggests that natural sugar contents are higher in organic fruits and vegetables that supply additional sensual excellence of delicious taste (Rembalkowska, 2007; Hallmann, 2012). Notably, sustainable development goals prescribe organic farming as a rich measure of potential adaptation of the malaise of climate change (Scialabba and Müller-Lindenlauf, 2010).

On the other hand, there are also several views against organic farming: firstly, organic farming is not a potential measure to ameliorate environmental disorders and health risks. Secondly, the arguments for organic

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farming have no scientific proofs based on empirical evidence (Velimirov *et al.*, 2010; Søltøft *et al.*, 2011; Huber *et al.*, 2012). Thirdly, environmental credibility cannot outperform the overall efficiency and productivity of foods that feed a large number of individuals of heavily populated countries. Hence, organic agriculture cannot be a potential and viable substitute for a newly introduced functional or inorganic way of cultivation of crops and foods (Wheeler, 2008), because its yield is lower and costs are higher in comparison to the inorganic farming system (Rembalkowska, 2007). Lastly, organic farming is not suitable for low-income developing countries of the world rather than it is fit for high-income developed countries. Based on these vital economic and social perspectives, organic farming is viewed for retaining paucity and lack of adequate nutrition in developing nations (Pacnoski, 2009).

Reliable statistics are sparse in Bangladesh regarding the organic food market and the proportion of organic food consumers in comparison to inorganic foods. Yet, a number of reports made by the NGOs reveal that organic farming is being operated in Bangladesh under their supervisions. A recent report on organic farming in Bangladesh demonstrates that about 0.177 million hectares of land are engaged in organic farming which represents merely 2 per cent of the total cultivable land available in the country (Mohiuddin, 2020). Another report shows that a small percentage of urban consumers are interested to buy organic foods which constitute about one per cent of the total agricultural production. However, it is apparent that most of the reports in Bangladesh concentrate on the number of farmers rather than the extent of market demand.

So far, the author's knowledge goes; the current study is among the few that conducted empirical research on consumers' purchase behaviour of organic food produced in Bangladesh employing this relatively new theory of retail marketing. The principal goal of the present research is to explore the dynamics of consumers' behaviour in the purchase of organic food in Bangladesh. Specifically, the authors are particularly interested in studying the direct effects of consumers' food safety, self-efficacy and social support on attitude and the mediating effects of attitude in the nexus between those variables and their organic food purchase behaviour.

2. Materials and methods

2.1 Participants

This study is based on a cross-sectional survey method. The respondents selected for the study are the residents living in the metropolitan areas of Dhaka city.

The rationale for selecting these people as respondents is that they are more conscious and familiar with organic foods and their health effects in comparison to inorganic foods. These people are also more knowledgeable about the positive benefits of organic foods acquired through their education, surfing the Internet and the lessons obtained from their teachers, colleagues and friends.

The sample size has been selected following the formula provided by Cochran (1977). According to Cochran (1977), a total of 384 responses are sufficient for an infinite population. Based on this formula, the study finally decided to select 385 responses to employ in its analysis. Data were gathered through a face-to-face interview. It took about 30 mins to complete an individual interview. All questionnaires were rechecked to ensure whether they were complete. The interviewers provided the respondents with the right to refuse to provide information in data collection. No token money or supplemental prizes were presented to the respondents. Those who decline to participate in the interview were switched to the next available and willing respondent. Just one member from each family was interviewed. The majority of the data were collected from the respondents when they were accessible at home.

2.2 Survey

The research is empirically verified by way of survey methods to comprehend consumer behaviour in the O-FP market domain. A rigorous review of the literature was accomplished to formulate the data set for the present study. Prior to formulating the survey tools, the study followed up a brief review of other questionnaires (Kesse-Guyot *et al.*, 2013; Henryks *et al.*, 2014; Anisimova, 2016; Bryla, 2016; Hemmerling *et al.*, 2016; Hsu *et al.*, 2016; Lee, 2016; Lee and Hwang, 2016; Aschemann-Witzel and Zielke, 2017; Petrescu *et al.*, 2017; Ashraf *et al.*, 2019). Each questionnaire consisted of a 1-7 points Likert scale (strongly disagree, disagree, somewhat disagree, neutral, somewhat agree, agree and strongly agree) to minimize measurement errors. A total of six different psychological constructs such as attitude, food safety norms, perceived self-efficacy, perceived social support and O-FP were assessed containing a multitude of items in the constructs. It is notable here that only the bounded rationality construct was formulated based on Ashraf (2018). The same 7-point Likert-type scales approach was also employed for this construct as well.

The research model was assessed following the procedure prescribed by Ashraf's (2018) bounded rationality theory and Hockerts' (2017) social entrepreneurial intention model which contains

decomposed belief structures in their models. Measures of attitude (four items), food safety norms (two) and O-FP behaviour (two) were adapted following Ashraf (2018). Measures of perceived self-efficacy (three), perceived social support (six) were adapted from Hockerts (2017). The parents, relatives, and friends were considered for having perceived social supports. All the items of measuring constructs were presented in Table 4.

2.3 Statistical analyses

Data were analysed by the SPSS (version 16) and AMOS software (version 20). Following Hair *et al.* (2010) four measures such as standard deviation, mean, skewness and kurtosis were utilized for assessing the normality of data. These measures were demonstrated in Table 1. It is evident in this table that all the assessed measures of skewness and kurtosis were in satisfactory intervals. A pilot test was done with a small number of data.

The research mode (represented in Figure 1) was run for both exploratory and confirmatory factor analyses. Then, all the item loadings were checked whether they were above the minimum level of 0.60 as suggested by Hair *et al.* (2010). The results of average variance extracted (AVE) were also checked to see whether they are above the threshold level of 0.50 (Hair *et al.*, 2010) and represented in Table 2. Measures of composite reliability (CR) were also worked out and enlisted in Table 2. The Cronbach alpha coefficients were calculated for the constructs of organic food purchased and subjective norms because they are composed of only two items of measurement. Table 3 presents the discriminant validity following Fornell and Larcker method. Table 4 demonstrates the factor loadings along with their items and Cronbach's alpha values. Using two-tailed tests, five of seven direct paths were found to be statistically significant providing support for H1 and H7 ($p < 0.10$) and H2, H3 and H6 ($p < 0.01$). These results were presented in Table 5. The results of mediating

effects were presented in Table 6 considering the model of CFA with the statistics of the standard estimate, standard error (SE), critical ratio (CR), p -values and square multiple correlations (SMC). These analyses supported partial mediations for mediating hypothesis H8, no mediation for H9 and full mediation for H10 were found (Table 6).

3. Results and discussion

3.1 Demographic profiles of the respondents

Of the 385 respondents, 227 were female (59%) and 158 were male (41%). The majority of the respondents were female because the male persons were not at home during the day when the survey was conducted. The largest age group of the respondents were 31-35 years old (35%), followed by 26-30 years old (23%) and 36-45 years old (18%). The majority of respondents were married accounting for 59% and 38% were single. As Bangladesh is the abode of about 90% Muslim population, most of the respondents were Muslim (87%) and others were 13% (Hindu- 9%, Christian- 2% and others-2%). In terms of education, the largest group of respondents was graduate (56%) followed by higher secondary degree holders (27%) and secondary (13%). Only 4% of respondents were PhD degree holders. The majority of monthly income earners were 36% earning income range of BDT 15000-25000 followed by income earners of 30% ranging from BDT 25001 to BDT 40000, 15% ranging from BDT 40001 to BDT 60000 and 10% earning BDT 15000. Only 9% of income earners were earning more than BDT 60000.

Several empirical research papers were conducted which probed the determinants of organic food purchase intention and actual purchase as well (Mukul *et al.*, 2013; Hsu *et al.*, 2015; Rahman *et al.*, 2015; Rahman and Noor, 2016; Ali *et al.*, 2017; Rahman, 2017). However, so far, the authors' knowledge goes, there is no such research that explored the mediating effect of attitude in the various links between food safety norms, perceived self-efficacy, perceived social support and O-FP behaviour. The present research showed that respondents are cautious about the benefits of organic food. This evidence is reflected in the respondents' opinion in providing support for H1. There are also supports for H2 and H3 which indicate that food safety norms significantly influence attitude and O-FP behaviour. There is no support for H4 and H5 indicating that perceived self-efficacy has no significant impact on attitude and O-FP behaviour. Finally, there are also supports for H6 and H7 implying the significant effects of perceived social support on attitude and O-FP behaviour.

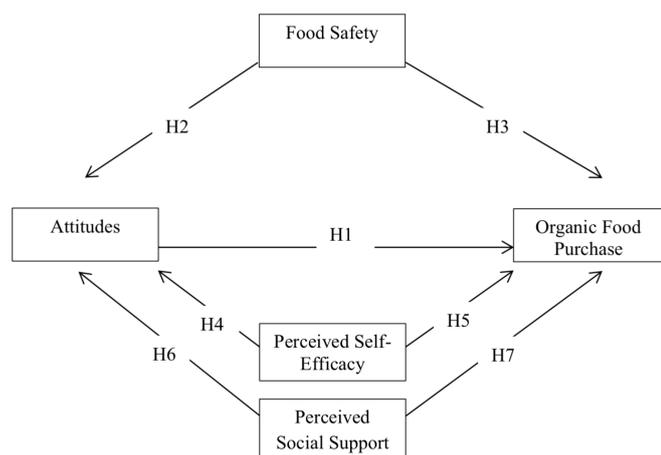


Figure 1. Research framework

Table 1. Descriptive Statistics

Factors	n	Min.	Max.	Mean	St. Dev.	Skewness	Kurtosis
Attitudes	385	1	7	5.21	1.64	-0.41	-1.42
Food Safety Normative	385	1	7	4.61	1.64	-0.27	-0.98
Perceived Self-Efficacy	385	1	7	4.32	1.42	-0.42	-0.65
Perceived Social Support	385	1	7	4.83	1.26	-0.44	-0.09
Organic Food Purchase	385	1	7	4.88	1.45	0.82	0.01

3.2 Descriptive statistics, correlations, reliabilities and convergent validities

Table 1 represents the descriptive statistics including the values of skewness and kurtosis for the respective constructs. The mean values of the constructs were all above 4 which indicates that their scores are above neutral level, while attitudes score the highest mean values. The values for skewness and kurtosis between -2 and +2 are regarded in an acceptable range in order to show normal univariate distribution (George and Mallery, 2010). According to Hair *et al.* (2010) and Byrne (2010), data are taken as normal if skewness ranges between -2 to +2 and kurtosis between -7 to +7. Hence, it was suggested that the absolute value of skewness and kurtosis should not be greater than 3 and 7. Based on these suggestions the absolute values of the skewness and kurtosis of all the constructs in this study (Table 1) are observed within the acceptable range of less than 3 and less than 7 respectively implying the normality of the distribution of the gathered data in the sample. This implies that the data which were employed in the analysis of the study is sufficiently a representative sample of the population. Table 2 presents correlation coefficients, composite reliability and average variance extracted. The correlations between different constructs of the model were observed to be highly significant ($p < .01$). The indices of composite reliability are much higher than the acceptable value of 0.60 (Hair *et al.*, 2010). The values of the average variance extracted are also much higher than the acceptable value of 0.50 (Hair

et al., 2010).

3.3 Discriminant validity

Table 3 illustrates the discriminant validity. In this Table, the correlated values are notably below the square root of AVE values in the sample. Hence, the discrimination between the constructs is established according to the suggestion recommended by Fornell and Larcker (1981). Thus, discrimination is established between the study constructs for the sample collected from the private households of Dhaka city in Bangladesh.

3.4 Path analysis and evaluated model

Figure 2 and Table 4 represent the results of CFA obtained by SEM. The evaluated model of CFA has been presented in Figure 3. Measurement items, factor loadings and the coefficients of Cronbach alpha are enlisted in Table 4. From Table 4, it is evident that all items' factor loadings are above the threshold level of 0.60 which is suggested by Hair *et al.* (2010).

A total of ten hypotheses were tested in the present study. Of them, seven hypotheses such as H1, H2, H3, H4, H5, H6 and H7 were tested to explore the direct effects (Table 5) and three hypotheses such as H8, H9 and H10 were tested to obtain mediating effects of attitude (Table 6). Among the direct effects, three hypotheses such as H2, H3 and H4 have strong positive statistical significance at the $p < 0.01$ level and two

Table 2. Correlations, Composite Reliability and Average Variance Extracted (on diagonal in italic)

Factors	C.R.	1	2	3	4	5
Attitudes (1)	0.92	<i>0.75</i>				
Food Safety Normative (2)*	0.91	0.786**	<i>0.82</i>			
Perceived Self-Efficacy (3)	0.84	0.793**	0.710**	<i>0.71</i>		
Perceived Social Support (4)	0.81	0.426**	0.422**	0.477**	<i>0.65</i>	
Organic Food Purchase* (5)	0.65	0.458**	0.469**	0.416**	0.270**	<i>0.66</i>

*The Cronbach's Alpha values are calculated for purchase and subjective norm which possess two items in the questionnaire and the rests have C.R. **Correlation is significant at the 0.01 level (2-tailed).

Table 3. Discriminant Validity (Fornell and Larcker method)

Factors	1	2	3	4	5
Attitudes (1)	0.866				
Food Safety Normative (2)	0.786	0.905			
Perceived Self-Efficacy (3)	0.793	0.710	0.842		
Perceived Social Support (4)	0.426	0.422	0.477	0.806	
Organic Food Purchase* (5)	0.458	0.469	0.416	0.270	0.812

hypotheses such as H1 and H7 are found to be significant at the $p < 0.10$ level.

behaviour ($\beta = 0.28, p < 0.01$). This evidence might be the indication of public support for encouraging more to buy organic foods. The reason might be the same as mentioned in the earlier section. People do not want to buy inorganic foods anymore because of their perceived beliefs of chemical contamination and potential health hazards.

The results also indicate that perceived self-efficacy has no significant relationship with consumers' attitude ($\beta = 0.05, p < 0.223$) and O-FP behaviour ($\beta = 0.09, p < 0.240$). This might be due to the financial inability of the general consumers in Bangladesh to purchase relatively costlier organic foods than that of the inorganic food-stuff. The respondents' demographic profiles also support this perspective, because about 76% of the respondents of the present study belong to the middle and lower-income groups.

Perceived social support has been found to have a strong influence ($\beta = 0.54, p < 0.01$) on consumers' attitude, but it has a weak relationship with O-FP behaviour. In terms of mediating effects (see Table 6), it was observed that consumer attitude has a mediating influence between perceived social support and O-FP behaviour providing full support for H10. Consumers' attitude also mediates between SNs and O-FP behaviour providing partial support for H8.

As mentioned earlier, there is a dearth of empirical studies that explored factors affecting organic food purchase intention or actual purchase behaviour in Bangladesh employing bounded rationality theory. So, the present study compares its findings which utilized theory of planned behaviour (TPB) as their theoretical foundations in exploring other filed of studies: for example, fast-food consumption (Ghoochani *et al.*, 2018), e-commerce or online purchase (George, 2002) and social entrepreneurship (Mair and Noboa, 2006; Hockerts, 2017).

Similar to Hsu *et al.* (2016), Ham *et al.* (2018), Ali *et al.* (2018), Woo and Kim (2019), consumers' attitude is positively significant in association with organic food purchase behaviour (H1). Similar to the findings of Ellinda-Patra *et al.* (2020) and Anusha *et al.* (2020), there are strong relationships between food safety knowledge and consumers' attitude (H2) as well as food safety knowledge and O-FP behaviour (H2 and H3). Like Ali *et al.* (2018), Yarimoglu *et al.* (2019), there are robust links between perceived social support, and consumers' attitude (H6) as well as perceived social support and O-FP behaviour (H7). Yet, like Song and Zahedi (2001), perceived self-efficacy is not significantly associated with consumers' attitude as well as with O-FP behaviour (i.e., no support for H4 and H5)

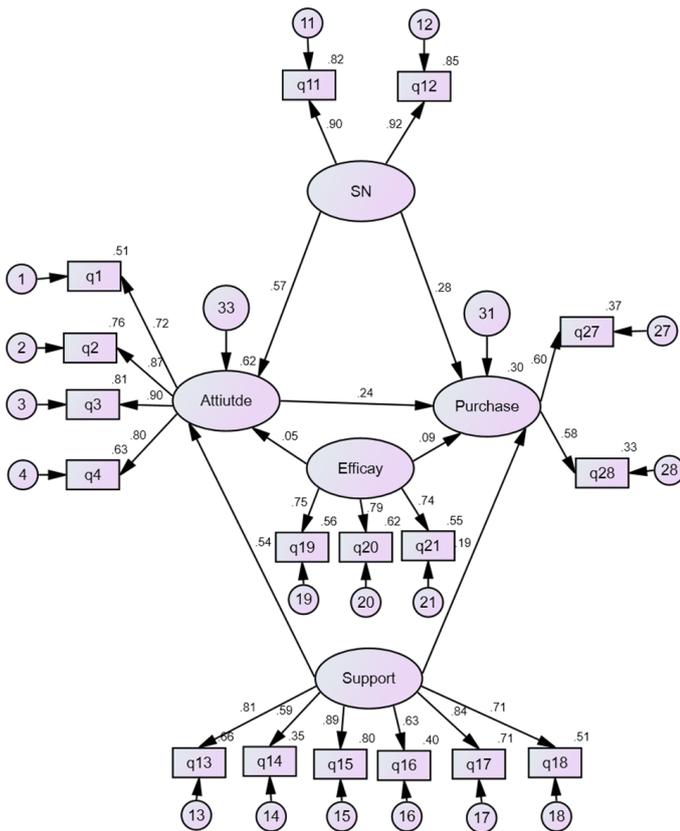


Figure 2. Path analysis (CFA)

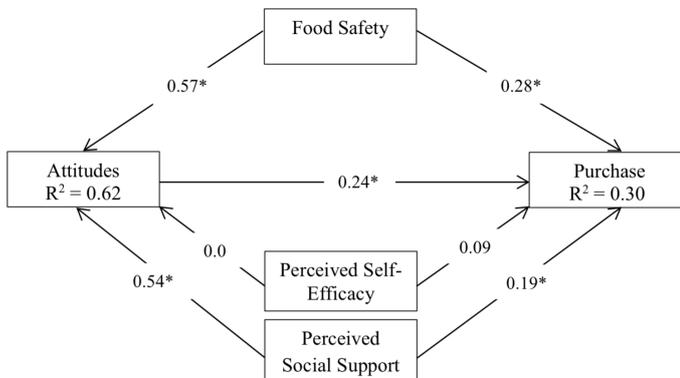


Figure 3. Evaluated model. *Significant at the $p < 0.10$ level, **Significant at the $p < 0.01$ level

The results of path analysis (Figure 2, Figure 3 and Table 5) indicate that consumer attitude has a significant positive influence on O-FP behaviour ($\beta = 0.24, p < 0.10$). This result implies that the general attitude of the consumer in Bangladesh is in favour of buying organic food for their consumption. This type of consumers' attitude may be the result of their disliking buying inorganic foods which are produced by applying synthetic fertilizers and chemical pesticides in their production system.

In the analysis, the food safety norm has been observed to exhibit a positive significant effect on consumers' attitude ($\beta = 0.57, p < 0.01$) and O-FP

Table 4. Items, Factor Loadings and Chronbach's α

	Loading
Attitudes	$\alpha = 0.92$
Q1 I like to purchase organic food	0.72
Q2 Purchasing organic food is a good idea	0.87
Q3 Purchasing organic food is a wise idea	0.90
Q4 Purchasing organic food would be pleasant for me	0.80
Health Safety Norms	$\alpha = 0.90$
Q11 People who influence my behaviour would think that I should purchase organic food	0.90
Q12 People who are important to me would think that I should purchase organic food	0.92
Perceived Self-Efficacy (Internal Control)	$\alpha = 0.80$
Q19 I am capable of purchasing organic food	0.75
Q20 Purchasing organic food is entirely within my control	0.79
Q21 I have resources and knowledge to purchase organic food	0.74
Perceived Social Support (External Control)	$\alpha = 0.89$
Q13 My parents would think that I should purchase organic food	0.81
Q14 My relatives would think that I should purchase organic food	0.59
Q15 My friends would think that I should purchase organic food	0.89
Q16 My colleagues would think that I should purchase organic food	0.63
Q17 My teachers would think that I should purchase organic food	0.84
Q18 My leaders would think that I should purchase organic food	0.71
Organic Food Purchase	$\alpha = 0.65$
Q27 How many times do you purchase organic food	0.60
Q28 How long have been involved in organic food purchase	0.58

Table 5. Direct path analysis based on standardized regression weights

Hypothesis	Variable		Std. Estimate	S.E.	C.R.	p-value	Status
	Endogenous	Exogenous					
H1	Organic Food Purchase	← Attitudes	0.24	0.104	1.728	*	Significant
H2	Attitudes	← SNs	0.57	0.039	11.302	**	Significant
H3	Organic Food Purchase	← SNs	0.28	0.067	2.474	**	Significant
H4	Attitudes	← Self-Efficacy	0.05	0.048	1.192	0.223	Not Significant
H5	Organic Food Purchase	← Self-Efficacy	0.09	0.065	1.175	0.240	Not Significant
H6	Attitudes	← Perceived Social support	0.54	0.055	9.762	**	Significant
H7	Organic Food Purchase	← Perceived Social support	0.19	0.081	1.701	*	Significant

*Significant at the $p < 0.10$ level, **Significant at the $p < 0.01$ level.

Table 6. Mediating path analysis based on standardized regression weights

H	Exogenous	Mediating	Endogenous	Indirect Effect	Direct Effect	Status
H8	SNs	→ Attitudes (A)	→ Purchase (P)	SNs→A, $\beta=0.57$, Sig>** A→P, $\beta=0.24$ Sig*	SNs→P, $\beta=0.28$, Not sig.	Partially mediating
H9	Perceived Self-Efficacy (PSE)	→ Attitudes (A)	→ Purchase (P)	PSE→A, $\beta=0.05$, Not sig. A→P, $\beta=0.24$ Sig.*	PSE→P, $\beta=0.09$, Not sig.	Not mediating
H10	Perceived Social Support (PSS)	→ Attitudes (A)	→ Purchase (P)	PSS→A, $\beta=0.54$, Sig.** A→P, $\beta=0.24$, Sig*	PSS→P, $\beta=0.19$, Sig.*	Fully mediating

*Significant at the $p < 0.10$ level, **Significant at the $p < 0.01$ level.

which are contrary to the results obtained by Ghoochani *et al.* (2018), Hockerts (2017), Kashif *et al.* (2015), George (2002), Pavlou (2002), and Suh and Han (2003). In addition, the mediation of consumers' attitude (H8) was observed to be similar to research conducted by Ashraf *et al.* (2019). Similar to Mair and Noboa (2006) and Hockerts (2017), there was a mediation of consumers' attitude between perceived social support and O-FP behaviour (H10). However, the findings of

Mair and Noboa (2006) and Hockerts (2017) did not provide any support for H9.

This study has also examined the common method bias test based on Herman's single factor variance through SPSS and common latent factor bias through AMOS. The results of these tests have been observed to be within acceptable levels, because Herman's single factor variance score is obtained as 0.23 which is much

less than the prescribed level of 0.50 and the common latent factor score is 7%, which is also within a satisfactory range, according to Podsakoff *et al.* (2012).

There has been ample evidence that the general people of Bangladesh are aware and conscious of the health risks of conventional food items. For this reason, the people who are important to an individual person prescribe to purchase and consume organic foods (Ashraf *et al.*, 2019). It is also evident in the present study that the majority of people cannot afford to buy organic foods because of their cost-concerns (Kashif *et al.*, 2015) for which the public mass has been deprived of purchasing and consuming healthy foods and their social well-being is getting hampered (Ashraf *et al.*, 2019). This evidence of anti-consumption behaviour is also apparent in Risthaus (2015) and for which the government's role is critically minimum. Thus, the middle-class people of Bangladesh might feel rejected by the entire society in this dire situation. As mentioned earlier, O-FP and its consumption can be regarded as pro-social behaviour, because it can enhance sustainability and conserve the environment that is vital for the general social well-being and prosperity in the long run (Risthaus, 2015).

The present study surveyed only the residents of Dhaka metropolitan city. Future studies could include the respondents from other parts of Bangladesh by which more explaining and predicting information may come out. Furthermore, this study included only a few antecedents of organic food purchase behaviour. There may well be others that should be considered in future research, such as other aspects of trusts, such as chemical-free foods and Byford's (1998) social relationship and other views of trust. Beliefs about security and safety mainly in terms of contamination, distinguished from beliefs about trust, could also be included, given the current media focus on food adulteration and security.

4. Conclusion

In this study, the one area of findings that may help the organic food business is that the most concern the idea of health benefits which has a robust influence on attitude and perceived social support toward organic food purchase. Consumption of inorganic, as well as adulterated food items, severely affects human health by producing many acute and chronic diseases. It is important to introduce organic food consumption practice massively to stop food adulteration. Checking at the retail level only will not bring enough positive impacts. The whole supply chain from the producers and importers through wholesalers to retailers will have to be checked and cleaned. More importantly, government

authorities ought to formulate an immediate plan by making laws and implementing strict regulations against any malpractice associated with the food market particularly food adulteration. At the same time, they can promote producing and consuming organic food which is critically important for our sustained eco-system and also for increasing social well-being for each individual in society.

Simultaneously, consumer awareness is also an essential object in this respect. Thus, government authorities, practitioners as well as academia ought to increase wider public regarding the positive health benefits of organic foods across the country in the news and social media including TV, the Internet, newspapers, magazines and research journals. The vendors or producers should also be included in the government measurement to make more awareness among them in order to increase sustained social well-being through producing and distributing safe and unadulterated organic food items for the general consumers of the society.

Conflict of interest

The authors declare no conflict of interest.

Acknowledgements

The authors would like to express their gratitude to the United International University which supported this research project by disbursing funds through the UIU-Research Grants. The authors are also grateful to the respondents who participated in the survey.

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