| Volume-1 | Issue-2| Aug-Sep -2019 |

DOI: 10.36346/sarjbm.2019.v01i02.003

Original Research Article

Tourists' Satisfaction on Penang Hawker Centres, Malaysia

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Article History Received: 06.08.2019 Accepted: 27.08.2019 Published: 30.08.2019

Abstract: The objective of this study is to identify the factors that affect satisfaction of Penang tourists who patronize Penang hawker centres by combining SERVQUAL model with food quality. The collected data from 259 tourists was analyzed and hypotheses were tested by using Multiple Linear Regression (MLR) analysis. Result of this study shows that food quality and service qualities (reliability and assurance) have a significant positive relationship with customer satisfaction. In terms of theoretical significance, this study proved that food quality has greater significant positive relationship with customer satisfaction than service quality. The combination of SERVQUAL model and food quality in testing the customer satisfaction has been validated in this study. The Penang State Government should emphasize on improving the quality of Penang street foods during policy setting process. The findings of this study are applicable to any hawker centre globally to improve the quality of the food.

Keywords: Customer Satisfaction, Service Quality, Food Quality, Hawker Centre, Tourist, Culinary Tourism.

INTRODUCTION

Out of the whole Malaysia, Penang is the best culinary destination to travel as it was recognized by the CNN as one of the top ten street food cities in Asia [1]. Penang was recognized by the Time Magazine as having the best street foods in Asia [2]. The number of international visitors of Penang had grown dramatically by 60.2% from 448,000 arrivals in 2007 to 718,000 arrivals in 2014 [3]. As the street foods are playing an essential role towards Penang tourism sector, this research has been conducted with the general objective of identifying the attributes influencing the satisfaction level of Penang tourists. Specifically, this research aims to investigate whether the SERVQUAL variables (tangibles, reliability, responsiveness and assurance) and food quality affect the customer satisfaction. Service quality is taken into consideration to test the customer satisfaction because it is the main factor affecting customer satisfaction [4, 5]. Food quality also plays an important role in influencing customers' dining experience and their satisfaction [6, 7]. Thus, food quality has also been taken as one of the influencing factors that affect customer satisfaction.

Problem Statement and Research Gap

Malaysia is facing an intense competition in the tourism sector with other Asian countries such as China, Thailand and Taiwan [8, 9]. Moreover, there is a substantial increase in the number of street food vendors in the major Asian cities [10]. Thus, Penang gastronomy tourism sector has to strive for improvement by providing better food and service quality that can enhance the satisfaction level of tourists. However, there are only a few researches on Penang food services sector to be referred to [11, 12].

Various past studies had studied on how service quality affects customer satisfaction by applying SERVQUAL model [13, 14]. However, those past studies which studied on the food service sector rarely focused on hawker centres, but on restaurants [15, 12, 16]. Moreover, limited studies have addressed customer satisfaction by taking into consideration of the food quality, even though food quality is an essential variable that contributes to customer satisfaction [17, 7]. Therefore, hawker centre is chosen as the area to conduct this study by combining SERVQUAL model with food quality in order to fill in the gap of attributes that affect the customer satisfaction in food service sector.

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In the past, there are many researches applied different models in investigating how service qualities influence customer satisfaction such as ACSI Model [4]; DINESERV model [18-20]; SERVPERF model [21, 22] and Restaurant Quality Attribute model [23].

Various past studies had also studied on how service quality affects customer satisfaction by applying SERVQUAL model [13, 14, 24, 25]. However, some of the studies were not focusing on food service sector but other sectors such as mobile telecommunication sector [26, 5]; public transport sector [27, 28] and maritime sector [29].

Furthermore, the past studies conducted on the food service sector were rarely focused on hawker centres. They focused on restaurants such as chain restaurants [15]; cafes [12]; limited service restaurant [30] and quick-casual restaurants [16]. Therefore, hawker centre is chosen as the area to conduct this study in order to fill in the gap of how SERVQUAL attributes affect the customer satisfaction in food service sector.

On top of service quality, from the review of past studies, it has been found that food quality is also an essential factor that contributes to customer satisfaction [17, 31-33, 7]. However, no study has addressed customer satisfaction by taking into consideration of the SERVQUAL dimensions together with food quality. Thus, in this study, SERVQUAL dimensions are adapted to combine with food quality.

Review of Relevant Theoretical Model

SERVQUAL model was introduced in 1985 which explained how the service qualities affect customer satisfaction. Initially it contained 10 dimensions [34, 35]. However, this 10-dimensions SERVQUAL model was criticized by various researchers [36-38]. As some of the dimensions of SERVQUAL were auto-correlated, and the founders of SERVQUAL model had refined the model to consist of only 5 dimensions with 22 items [39, 40].

Subsequently, various studies have confirmed the 5-dimensions SERVQUAL model in different nations and different sectors [41, 42]. In addition, numerous studies have adapted SERVQUAL model as a base to develop different models to measure services rendered in different areas as shown in Table-1 below.

	Table-1: Models Developed Dased on OLIVAGOAL						
Model	Area of Service Provided	Source					
HISTOQUAL	Historic houses for tourism industry	Frochot and Hughes (2000) [43]					
SITEQUAL	Online shopping	Yoo and Donthu (2001) [44]					
WebQual	Cyber bookshop business	Barnes and Vidgen (2001) [45]					
LibQUAL	Library	Cook, Heath, and Thompson (2001) [46]					
ECOSERV	Ecotourism	Khan (2003) [47]					
E-S-QUAL	Electronic service business	Parasuraman, Zeithaml, and Malhotra (2005) [48]					
LODGSERV	Hotel Services	Keith and Simmers (2013) [49]					
AIRQUAL	Airlines services	Ali, Dey, and Filieri (2015) [50]					

Table-1: Models Developed Based on SERVQUAL

Review of Literature

Customer Satisfaction

Customer satisfaction is defined by Parasuraman *et al.*, [34] as an evaluative judgment made after the transaction. It was proved to have significant positive effect upon customer loyalty and customer retention [51, 52]. Not only that, various research results showed that satisfied customers tend to give positive word of mouth (WOM) in regard to the service provided [53]. According to Ara [54], customer satisfaction is significantly affected by service quality. Besides, food quality was also being proved as a fundamental variable affecting customer satisfaction in various literatures [55, 56].

Tangibles and Customer Satisfaction

According to Parasuraman *et al.*, [35], tangibles are the physical appearance of the material, equipment or staff used in serving the customers. Even though the study of Kaura, Durga, and Sharma [57] showed that tangibles do not significantly impact customer satisfaction, many researches have concluded contrary [58, 59]. In the context of hawker centres, the tangibles dimension refers to the cleanliness and appearance of the hawkers and hawker centre. If tangibles are in poor condition, tourists will definitely feel dissatisfied. Therefore, following hypothesis is proposed in this research.

H₁: There is a significant positive relationship between tangibles and customer satisfaction of Penang tourists who patronize Penang hawker centres.

Reliability and Customer Satisfaction

Reliability is defined by Parasuraman *et al.*, [35] as the promised services are able to be performed accurately and dependably. According to the research conducted by Yuen and Thai [29], reliability was proved as having the most significant impact on customer satisfaction among with other dimensions of SERVQUAL model. In addition, Dauda and Lee [60] and Teshome and Seyoum [61] found that reliability possess a positive and significant relationship with customer satisfaction. In terms of hawker centre, reliability is related to the hawkers' ability to serve customers in accordance with what have been requested and ordered. If the level of reliability is low, tourists will definitely feel dissatisfied with the service provided. Hence, the following hypothesis is formulated to analyze the impact of reliability on the satisfaction level of Penang tourists.

H₂: There is a significant positive relationship between reliability and customer satisfaction of Penang tourists who patronize Penang hawker centres.

Responsiveness and Customer Satisfaction

Responsiveness is referring to the willingness to provide quick service as well as help customers [35]. In the study of Shanka [62], responsiveness was proved as the dimension of SERVQUAL which has the most essential role in affecting customer satisfaction. Many past studies found that responsiveness is a variable that significantly and positively affects customer satisfaction [63-65, 14]. In the context of hawker centre, responsiveness is about how fast and how good the hawkers deliver their service and food. If the hawkers are highly responsive to the customer requests, then the service provided is deemed to be satisfactory. Therefore, the following hypothesis is proposed.

H₃: There is a significant positive relationship between responsiveness and customer satisfaction of Penang tourists who patronize Penang hawker centres.

Assurance and Customer Satisfaction

Assurance is defined as the courtesy and knowledge of employees and their ability to inspire confidence and trust [35]. Based on the research of Omar, Ariffin, and Ahmad [66], assurance dimension of SERVQUAL has the most significant positive influence on the customer satisfaction. Moreover, the significant positive relationship between assurance and customer satisfaction is also confirmed by the study by Anjum, Aftab, Sultan and Ahmed [67]. In the context of hawker centre, if the hawkers are courteous, polite and friendly, the level of assurance can be concluded as high and it will delight the customers. Therefore, this study will put forward the following hypothesis to determine the effect of assurance on the satisfaction level of Penang tourists.

H₄: There is a significant positive relationship between assurance and customer satisfaction of Penang tourists who patronize Penang hawker centres.

Food Quality and Customer Satisfaction

According to Koo, Tao, and Yeung [68], taste is an essential element that constitutes food quality. Other than taste, food quality includes food cleanliness, food texture, food freshness and food temperature [69]. Additionally, Raajpoot [70] had conducted a study which stated that food quality can be measured by menu design, food presentation, variety of food and serving size. In the research of Ramanathan, Di, and Ramanathan [71], food quality is proved as the factor correlated mostly with customer satisfaction. In addition, Hanaysha [72] found out that customer satisfaction is strongly influenced by the food quality. In the context of hawker centre, the tastiness and freshness of foods will definitely affect the customer dining experience and satisfaction. Jeong and Seo [73] suggested that foodservice managers should try to maximize food and service qualities for residents because improving food and service quality improves their quality of life. Customer well-being or happiness was driven by service quality [74]. Thus, in order to analyze the effect of hawker's food quality on the satisfaction level of Penang tourists, following hypothesis is formulated.

H₅: There is a significant positive relationship between food quality and customer satisfaction of Penang tourists who patronize Penang hawker centres.

Based on the above discussions, the following research model is proposed.

Proposed Research Model

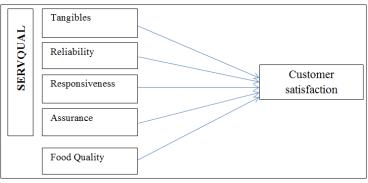


Fig-1: Proposed Research Model Source: Parasuraman *et al.*, (1991) [39] and Ryu, Lee, and Kim (2012) [75]

Research Design

A questionnaire survey was conducted in the form of quantitative, cross sectional study in order to investigate the tourists' perception towards their satisfaction level on food and service provided by Penang street food hawkers. This research utilized cross sectional approach instead of longitudinal survey because it enables complete information to be collected without waiting for a longer time period [76]. Besides, no follow-up is needed in cross-sectional research and therefore it consumes less resources, quicker and cheaper [77].

Data Collection Method

This research applied two types of data collection method, which are primary data and secondary data [78]. In this research, primary data was collected through questionnaire survey while secondary data was collected through journals, news articles and books from different sources [79].

Research Instrument

A self-administered questionnaire was used as an instrument to collect empirical data in several hawker centres located at Georgetown, Penang. This is because this data collection method could reach more target respondents in short time, assure high response rate, minimize biases and obtain honest answer because target respondents were allowed to be anonymous [80-82]. A pretest was conducted by consulting various experts in the area of TQM and the validity of the questionnaire was confirmed. Moreover, a pilot test had been conducted with 30 respondents to confirm the reliability of the questionnaire [83].

Variables	Cronbach's Alpha Value				
Tangibles (T)	0.7703				
Reliability (R)	0.8440				
Responsiveness (RP)	0.7956				
Assurance (A)	0.7904				
Food Quality (FQ)	0.8256				
Customer Satisfaction (CS)	0.8920				

Table-2: Pilot Test for Questionnaire Reliability

Table-2 illustrates the result of the pilot test in which the Cronbach's alpha values for each of the variable ranged from 0.7703 to 0.8920. Hence, the researchers concluded that this survey questionnaire is reliable as all the variables have exceeded the threshold Cronbach's alpha value 0.7 [84].

Sampling Design

Sampling instead of census was preferred in this study because it is impractical to survey the whole population of Penang tourists; thus sampling technique was applied, as it is able to represent the entire population [85]. Besides, sampling is less costly, less time-consuming and able to provide timely information as the data can be collected quicker [86].

Target Population

The population in this research is the tourists who patronize Penang hawker centres as they are the one who are able to give more accurate information regarding tourists' needs and wants.

Sampling Frame

No sampling frame is available as the number of Penang tourists is huge and it is impossible to obtain the details of every Penang tourists, probability sampling technique is unfeasible in this research [87]. Due to this feasibility constraint, non-probability sampling is the most appropriate technique applied in this research [88].

Sampling Technique

Judgmental sampling technique was applied in this study by obtaining data from specific target respondents (Penang's tourists) as this technique is more efficient [89]. Furthermore, specific target respondents are able to provide more unique, relevant and valuable information to the research [90, 91].

Sampling Size

According to Hinkin [92], the recommended sample size should range from item-to-response ratio of 1:4 and to 1:10. Hence, the recommended sample size for this study ranged from 128 to 320 respondents. A total of 303 survey questionnaires were administered to the Penang's tourists who have consented to take part in this survey. However, only 259 sets of questionnaires are usable and had been employed in the analysis of this research. This sample size is considered to be appropriate and representative for the population in this study [92].

Variable Measurement

A total number of 32 items were used in this research to measure the variables. All of the variables were measured by - five point Likert scale (i.e. 1 = Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree & 5 = Strongly Agree) which were able to assist the researchers to perform arithmetical operations on the data collected from the respondents [84]. Besides, it is less confusing and able to result in a higher response rate and better quality of the collected data [93, 94].

RESULTS

Demographic Profile of the Respondents

Profile	Profile Category Frequency					
Gender	Female	126	Percentage (%) 48.65			
	Male	133	51.35			
Age Group	25 or less	77	29.73			
	26-30	53	20.46			
	31-35	36	13.90			
	36-40	26	10.04			
	41-45	25	9.65			
	45 and above	42	16.22			
Marital Status	Single	145	55.98			
	Married	114	44.02			
Visitation Pattern	First time	158	61.00			
	Repeat	101	39.00			
Length of Stay	1-6	186	71.81			
• •	7-12	51	19.69			
	13-18	7	2.70			
	More than 19	15	5.79			
Purpose of Visit	Business	37	14.29			
	Leisure/Holiday	199	76.83			
	Education	23	8.88			
	Others	0	0.00			
Geographical Origin	Malaysia but other than Penang state	129	49.81			
	Asia (Exclude Malaysia)	62	23.94			
	Europe	28	10.81			
	Africa	6	2.32			
	South America	8	3.09			
	North America	15	5.79			
	Oceanic	11	4.25			
	Antarctic	0	0.00			
Who do you come with	Family	50	19.31			
	Friends	82	31.66			
	Lover/Couple	44	16.99			
	Alone	24	9.27			
	Tour group	58	22.39			
	Others	1	0.39			

Table-3: Summarized Information of Demographic Profile

The demographic profile of 259 valid respondents is presented in Table-3 above.

Table-4: Statistics of Variables' Central Tendencies Measurement							
Variables	Items	Ν	Mean Standard Deviation				
Tangibles (T)	T1	259	3.5521	1.2137			
	T2		3.6139	0.9792			
	Т3		3.7954	0.9445			
	T4		3.7799	0.9075			
	T5		3.7529	0.9887			
	T6		3.6023	0.9845			
Reliability (R)	R1	259	3.6564	0.8945			
	R2		3.7027	0.9727			
	R3		3.8185	0.9694			
	R4		3.6178	0.9174			
	R5		3.7104	0.9219			
Responsiveness (RP)	RP1	259	3.6216	0.9461			
	RP2		3.6834	0.8627			
	RP3		3.6795	0.9930			
	RP4		3.6564	1.0276			
	RP5		3.7027	0.8894			
Assurance (A)	A1	259	3.7645	0.8227			
	A2		3.8069	0.9072			
	A3		3.7915	0.8732			
	A4		3.7297	0.9130			
	A5		3.9266	0.9184			
Food Quality (FQ)	FQ1	259	4.0695	0.8508			
	FQ2		3.9537	0.8792			
	FQ3		3.9923	0.8848			
	FQ4		3.9151	0.8982			
	FQ5		3.8340	0.9722			
Customer Satisfaction (CS)	CS1	259	3.7297	0.9002			
	CS2		3.6911	0.9509			
	CS3		3.7683	0.8629			
	CS4		3.7683	0.9152			
	CS5		3.8069	0.9692			
	CS6		3.7992	0.8435			

The means and standard deviations for all the items in this research are depicted in Table-4 above. This indicates that majority of the items were answered by the respondents with the answers of "neutral" or "agree" except for FQ 1 which the respondents responded in the questionnaire with the answer of "agree" or "strongly agree".

On the other hand, the result of the analysis demonstrates that the standard deviations of all variables are ranged between 0.8227 to 1.2137, which are represented by the variable of assurance (A1) and tangibles (T1) respectively. Both of them are the subvariables of service quality.

Testing the Assumptions of Multivariate Analysis **Reliability Test**

Table-5. The Summary of Renability Test						
Variables	Number of Items	Cronbach's alpha value				
Tangibles (T)	6	0.8892				
Reliability (R)	5	0.8449				
Responsiveness (RP)	5	0.8547				
Assurance (A)	5	0.8447				
Food Quality (FQ)	5	0.8443				
Customer Satisfaction (CS)	6	0.9083				

Table-5: The Summary of Reliability Test

According to Sekaran [84], the Cronbach's alpha value of 0.7 and above is deemed to be reliable. Based on Table-5, all of the items in the variables have met the reliability test, as all the variables have the Cronbach's alpha value between 0.8443 to 0.9083. This indicates that all items for each variable are reliable because Cronbach's alpha value for all items had exceeded 0.8 [84].

Normality Test

Table-6: Summarized Information of Normality Test								
Variables	Items	Skewness	Kurtosis					
	T1	-0.5551	-0.6420					
	T2	-0.3850	-0.4461					
Tangibles (T)	Т3	-0.6930	0.2568					
	T4	-0.8048	0.6336					
	T5	-0.5786	-0.2567					
	T6	-0.3865	-0.3780					
	R1	-0.5442	-0.1464					
	R2	-0.5453	-0.0273					
Reliability (R)	R3	-0.6322	-0.0361					
	R4	-0.6248	0.2700					
	R5	-0.4398	-0.1868					
	RP1	-0.5344	0.0401					
	RP2	-0.4342	0.2980					
Responsiveness (RP)	RP3	-0.6379	0.0027					
	RP4	-0.5244	-0.2946					
	RP5	-0.2784	-0.3153					
	A1	-0.5487	-0.0532					
	A2	-0.5187	-0.1446					
Assurance (A)	A3	-0.6018	0.3120					
	A4	-0.5773	0.2799					
	A5	-0.7312	0.2518					
	FQ1	-0.8945	0.6431					
	FQ2	-0.4957	-0.3171					
Food Quality (FQ)	FQ3	-0.7969	0.4184					
	FQ4	-0.7052	0.1867					
	FQ5	-0.6051	-0.0159					
	CS1	-0.6605	0.3091					
	CS2	-0.6278	0.0476					
Customer Catiofastics (CC)	CS3	-0.4455	-0.0047					
Customer Satisfaction (CS)	CS4	-0.5941	0.1746					
	CS5	-0.6341	-0.0707					
	CS6	-0.4644	-0.2460					
	•							

Table-6: Summarized Information of Normality Test

Table-6 demonstrates the results of normality test for every item of each variable. Since every item has the value of skewness within the range of ± 3 and the value of kurtosis falls within the range of ± 10 , all items for each variable are normally distributed [95].

Pearson's Correlation Analysis of Multicollinearity Problem

Variables	Т	R	RP	A	FQ
Tangibles (T)	1.0000				
Reliability (R)	0.5630	1.0000			
	Sig.<0.0001				
Responsiveness (RP)	0.4846	0.6793	1.0000		
	Sig.<0.0001	Sig.<0.0001			
Assurance (A)	0.5358	0.6797	0.6725	1.0000	
	Sig.<0.0001	Sig.<0.0001	Sig.<0.0001		
Food Quality (FQ)	0.4548	0.4716	0.4460	0.5156	1.0000
	Sig.<0.0001	Sig.<0.0001	Sig.<0.0001	Sig.<0.0001	

Table-7: Coefficient Value of Pearson's Correlation Analysis

Based on Hair, Anderson, Tatham & Blank [96], multicollinearity problem exists if the coefficient values among the independent variables exceed 0.9. From Table-7, the result of Pearson's correlation analysis depicts that the coefficient values among the independent variables ranges from 0.4460 to 0.6797. Hence, it can be concluded that multicollinearity problem does not exist in this study as the highest coefficient value is merely 0.6797, which is lower than the threshold level of 0.9. Thus, the assumption of parametric test was fulfilled [97].

Multiple Linear Regression (MLR) Analysis

Table-8: Model Summary				
Root MSE	Dependent Mean	Coefficient Variation	R-square	Adjusted R-square
0.4418	3.7606	11.7483	0.6615	0.6548

By referring to Table-8 above, value of R-square scores at 0.6615. This means that 66.15% of the variation of the dependent variable (customer satisfaction) can be explained by the independent variables consisting of food quality, reliability, tangibles, assurance and responsiveness.

Table-9: Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr>F		
Model	5	96.4963	19.2993	98.87	< 0.0001		
Error	253	49.3843	0.1952				
Corrected Total	258	145.8805					

It can be seen from the Table-9, that the F-value (98.87) is large and the p-value (<0.0001) is less than 0.05. These indicate that at least one of the five independent variables can be used in modeling the dependent variable. Hence, model fit is achieved.

Variable	Parameter Estimate	Pr > t	Standard Estimate	Tolerance	Variance Inflation	Hypotheses testing
Intercept	-0.1396	0.4451	0		0	
Tangibles	-0.0681	0.1186	-0.0732	0.6118	1.6347	Not Supported
Reliability	0.3422	<.0001	0.3345	0.4125	2.4243	Supported
Responsiveness	0.0425	0.4363	0.0425	0.4508	2.2181	Not Supported
Assurance	0.2359	0.0001	0.2187	0.4166	2.4002	Supported
Food Quality	0.4633	<.0001	0.4343	0.6753	1.4808	Supported

Table-10: Multiple Linear Regressions

According to Hair, Babin, Money & Samouel [98], the relationship between the independent variables and the dependent variable will be significant and alternative hypothesis will be supported if the p-value of the independent variable is smaller than 0.05. By referring to the Table 10, the hypotheses of H₂ (R), H₄ (A) and H₅ (FQ) are supported as their p-values are less than 0.05. On the contrary, the hypotheses of H₁ (T) and H₃ (RP) are not supported as their p-values are larger than 0.05. Therefore, it can be concluded that reliability, assurance and food quality are significantly related to customer satisfaction, while tangibles and responsiveness are insignificantly related to customer satisfaction in this study. Therefore, the regression equation is formulated as: CS = -0.1396 - 0.0681 (T) + 0.3422 (R) + 0.0425 (RP) + 0.2359 (A) + 0.4633 (FQ)

This equation implies that all the independent variables possess a positive relationship with the customer satisfaction excluding tangibles (T). From the equation, we can conclude that customer satisfaction will decrease by 0.0681, if tangibles increases by 1 provided other independent variables remain unchanged. Besides, if reliability, responsiveness, assurance and food quality increase by 1 respectively, the customer satisfaction will increase by 0.3422, 0.0425, 0.2359 and 0.4633 respectively. In short, food quality was proved to be the dominant independent variable which has the strongest influence on customer satisfaction.

DISCUSSIONS OF MAJOR FINDINGS

Tangibles

Table-11: Finding on Tangibles

Hypothesis	Result
H ₁ : There is a significant positive relationship between tangibles and customer	Not
satisfaction of Penang tourists who patronizes Penang hawker centres.	Supported

Table-11 depicts that tangibles do not have significant positive relationship with the customer satisfaction of Penang tourists.

This result is not in line with the past researches conducted by Allan [99] and Bostanji [58] but consistent with the result of the study by Kaura *et al.*, [57] which was not conducted in food service sector. Hence, this result can be considered as a new finding for the application of SERVQUAL model in food service sector context. In fact, the result of tangibles not significantly related to customer satisfaction in this study is justifiable, as this study was focusing on hawker centres rather than the fine dining restaurants. Thus, as compared to the fine dining, the customers of hawker centres may not expect to have a highly comfortable dining area and may not emphasize too much on the tangibles dimensions.

Reliability

Table-12: Finding on Reliability

Hypothesis	Result
H ₂ : There is a significant positive relationship between reliability and customer	Supported
satisfaction of Penang tourists who patronizes Penang hawker centres.	Supported

Table-12 displays that reliability is significantly and positively related with the customer satisfaction of Penang tourists. This result is in agreement with the past studies carried out in the food service sector by Teshome and Seyoum [61] and Namin [63]. Besides, this result is also consistent with the research results conducted in non-food service sectors such as banking sector [60], shipping sector [100], retail sector [101] and so on. This finding shows that the hawkers who serve customer precisely will be able to please the tourists who order food from them.

Responsiveness

Table-13: Finding on Responsiveness

Hypothesis	Result
H ₃ : There is a significant positive relationship between responsiveness and	Not Supported
customer satisfaction of Penang tourists who patronizes Penang hawker centres.	Not Supported

The satisfaction level of Penang tourists cannot be predicted by the level of responsiveness as shown by the research result presented in Table-13. This outcome is in conformity with the study by Munusamy, Chelliah, and Hor [102] but inconsistent with the result the study conducted by Shanka [62], Ismail *et al.*, [64] and Aghdaie and Faghani [14]. Responsiveness dimension does not have a significant positive relationship with the customer satisfaction probably because the target respondents are tourists. Majority of them may visit Penang only once in their life time. Hence, it is less likely that they will make complaints if they felt dissatisfied. Moreover, tourists might have expected that the hawkers will be busy and unable to provide prompt service as the hawker centres are perceived as a crowded dining area.

Assurance

Table-14: Finding on Assurance

Hypothesis	Result
H ₄ : There is a significant positive relationship between assurance and customer	Supported
satisfaction of Penang tourists who patronizes Penang hawker centres.	Supported

Assurance significantly and positively affects the satisfaction level of Penang tourists as depicted in Table-14. This result is conflicting with the study conducted by Zhang, Xie, Huang, and He [103] but is congruent with the research results concluded by Omar *et al.*, [66]. The finding indicates that courteous, friendly and polite hawkers are able to delight the tourists who patronize their stalls.

Food Quality

Table-15: Finding on Food Quality

Hypothesis	Result
H ₅ : There is a significant positive relationship between food quality and customer	Supported
satisfaction of Penang tourists who patronizes Penang hawker centres.	

Food quality has a positive and significant relationship with customer satisfaction of Penang tourists according to the research result presented in Table-15. Besides, food quality is found to be the most influential variable in affecting customer satisfaction in this study. This result is conforming to the past researches conducted by Ma, Qu, Njite, and Chen [104] and Ryu *et al.*, [16]. Besides, there are also various past studies confirming the significance of food quality in affecting customer satisfaction [72, 71]. This finding shows that the tasty foods are the main antecedent of Penang tourists' satisfaction.

Implications of the Study Managerial Implications

This study concludes that Food quality has the largest impact in influencing the satisfaction level of Penang tourists. Therefore, Penang State Government should emphasize on improving the quality of Penang street foods during the policy setting process. More policies that assist in improving deliciousness, freshness, smell and unique taste of Penang street food should be framed. Besides that, the second and third most significant predictors of customer satisfaction are proved to be the reliability and assurance. Thus, Penang State Government may conduct workshops to train the hawkers to be able to serve their customers timely, accurately, politely, courteous and friendly. Last but not the least, as tangibles and responsiveness do not have significant relationship

with customer satisfaction of Penang tourists, Penang State Government should prioritize in considering other significant variables during policy setting due to the scarce time and resources.

Theoretical Implications

This research has confirmed the positive relationship between the food and service quality with satisfaction of customers particularly diners. This study has adopted and refined SERVQUAL model developed by Parasuraman *et al.*, [35] which has been criticized as failed to take into consideration of food quality when this model is applied in food service sector [6, 7]. However, the outcome of this study has shown that food quality has more significant influence on customer satisfaction than service quality. Hence, in the future, other academicians or researchers may apply this research framework in their research on the food service area. Besides, there are many past studies conducted to investigate customer satisfaction in various sectors. However, for food service sector, similar researches were conducted by focusing on restaurants instead of hawker centres [15, 16]. Hence, there has been a doubt of whether SERVQUAL model is applicable in hawker centres. However, the result of this study has shown that the R-square value is 0.6615 and the p-value of the model is less than 0.05; thus the SERVQUAL model in addressing customer satisfaction level in hawker centres has been validated. Furthermore, in terms of geographical location, there are only a few studies conducted on Penang, Malaysia food service sector [11, 12]. Thus this study is contributable as it proved that SERVQUAL model is workable in Malaysia food service sector. As there are limited literatures on the Penang hawker centers and street food, this study also enriches the foresaid literatures.

Limitations of the Study and Recommendations for Future Research

Due to time and budget constraints, cross-sectional approach was applied to conduct this research. Hence, the data was collected in one time [77]. The collected data and analyzed results may be only applicable for current situation and become plausible and irrelevant in the future [105]. Hence, the future researchers are suggested to conduct longitudinal study in the similar context which will take into consideration of changes of the perception of the target respondents over time [106].

Apart from this, due to cost effective reason, survey questionnaire has been utilized in this research for data collection [107]. Hence, data collected might have bias due to the possibility of none of the questionnaire items fit with respondent's perceptions and thought. Thus, future researchers are recommended to apply interview as the data collection method. This will enable the researchers to prevent the respondents felt irritated when answering the questions by allowing them to "speak in their own voice and express their own thoughts and feelings" [108]. Moreover, open-ended questions asked during the interview will be able to minimize bias that arise from fixed alternatives given which do not fit with respondent's thought [109].

Last but not least, based on the result of MLR analysis, the value of R-square 0.6615 indicates that 33.85% of the variation of the customer satisfaction is affected by other antecedents that are not tested in this study such as perceived quality, price fairness and others which were proved by various literatures as having significant positive relationship with customer satisfaction [110, 12]. Future researchers are recommended to develop a new conceptual model which takes into consideration of SERVQUAL, food quality, perceived value, price fairness and other variables to further investigate the antecedents of customer satisfaction. Hence, model with a higher R-square value might be produced to better address the customer satisfaction of hawker centres as well as other segments of food service sector.

CONCLUSION

In a nutshell, all variables except tangibles and responsiveness played their significant roles in positively affecting the customer satisfaction of Penang tourists who patronize the Penang hawker centres. Based on the result of this study, food quality was proved to be the most influential variable affecting customer satisfaction in food service sector followed by reliability and assurance. Few justifications were given to explain why hypotheses of tangibles and responsiveness were not supported. In other words, the objectives of this study have been achieved which is to examine the influence of service and food quality on customer satisfaction in the context of food service industry in Penang, particularly in the Penang hawker centres.

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