

The influence of special dietary needs on tourist satisfaction and behavioral intention: Satisfiers or Dissatisfiers?

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Abstract

In a globalized world, incoming tourists bring with them a variety of expectations. As destinations are coming to accept the variability of consumer needs, destination managers seek to identify additional factors that can determine tourists' evaluations and intentions. This study promotes the ability to satisfy tourist dietary needs as an antecedent factor influencing the experience outcomes. It is among the first to demonstrate the links between diverse tourist dietary needs, satisfaction, and behavioral intentions. We found that all three groups of dietary needs (religious, medical, lifestyle) have an effect on satisfaction and behavioral intentions. Our results confirm that the relationship between tourist dietary needs and destination evaluation and intentions is not symmetrical. The higher the perceived importance of tourists' dietary needs, the more likely they are to be satisfied with a destination that can cater to their needs. Satisfied tourists are more likely to revisit and recommend the destination to others. However, the effects of dietary needs on dissatisfaction are not significant. The destination's inability to satisfy dietary needs does not necessarily reduce willingness to recommend or revisit. The results of this study support the notion that destination's dietary preparedness is associated with better experience outcomes. The study concludes with important implications for destination managers.

Keywords: destination evaluation, behavioral intention, dietary needs, satisfiers/dissatisfiers, religious/medical/lifestyle diet, Singapore.

1. Introduction

The financial constraints imposed by the recent pandemic require that tourism practitioners seek new ways to increase the effectiveness and sophistication of marketing efforts while utilising existing resources. For many destinations, an important tourism resource is food (Henderson, 2004; Okumus, 2020). The relationship between food and tourism is a subject of increasing attention (Ellis et al., 2018), with food tourism making considerable progress over the past two decades in both academia and the industry (Okumus, 2020). Food consumption is a source of many behavioral adaptations (Rozin, 1999). Perhaps, this explains why despite continuous

39 research efforts, there is still a large gap in our knowledge of how experiencing food shapes
40 tourists' perceptions of a destination and their future behaviors (Choe & Kim, 2018).

41 In tourism literature, the perception of food as an indisputable attraction has been challenged
42 in recent years by stressing the complications and impediments experienced by tourists while
43 traveling (Cohen & Avieli, 2004; Huang et al., 2019). It remains open as to how different aspects of
44 food related experiences affect destination evaluations and future intentions. This research
45 investigates the multifarious nature of food-related experiences, while paying close attention to
46 tourists' needs. Needs in a food tourism context encompass a variety of aspects, including food
47 safety and hygiene issues (Tarulevicz & Ooi, 2019), hedonic food attributes (Mak et al., 2012), as
48 well as authenticity and experiential value (Radomskaya, 2018; Sims, 2009). However, the internal
49 self-regulation practices such as special dietary needs remain relatively understudied in tourism
50 and hospitality research (Huang et al., 2019; Oktadiana et al., 2020). This is surprising, since
51 evidence from the dietary preference literature (Bere & Brug, 2009; Radnitz et al., 2015) suggests
52 that dietary needs are essential to a healthy lifestyle and an important contributor to overall
53 wellbeing.

54 With the tourism industry being increasingly globalized, incoming tourists bring with them a
55 variety of needs and expectations regarding food selection and consumption. These expectations
56 might not necessarily align with the food culture and dietary choices available at the host
57 destination. It has been pointed out (Bakar et al., 2018) that the ability to satisfy diverse needs is
58 increasingly valuable as destinations are coming to accept the variability of consumer
59 expectations. Destination managers need to further develop knowledge about food-related
60 experiences and identify additional factors that can determine tourists' behavior, evaluations, and
61 intentions.

62 This study is set in the context of Singapore. For Singaporeans, food carries strong national
63 connotations and has been promoted as one of several compelling reasons for visiting Singapore
64 (Henderson et al., 2012; Tarulevicz & Ooi, 2019). The addition of Singapore hawker culture to
65 UNESCO's list of the Intangible Cultural Heritage of Humanity further reaffirmed the value of food
66 for Singapore tourism development. Although food is an integral part of the city brand experience,
67 some further challenges still exist (Oktadiana et al., 2020). The present research argues that for
68 Singapore, the ability to understand and cater to diverse dietary needs may be an important
69 element in attracting tourists and securing repeat visitation in a steadily competitive tourism-
70 landscape.

71 The central theoretical lens we apply to study the potential of tourists' behavior and intentions
72 being influenced by tourists' dietary needs is that of motivation theory, specifically Herzberg,
73 Mausner, and Snyderman's (1959) two-factor theory. In tourism literature, Herzberg et al.'s (1959)
74 two-factor theory has been mainly concerned with motivations and attitudes of employees, with
75 limited application to consumer behavior. Considering this gap in the extant literature and the
76 limited body of research available on tourist dietary needs, this paper aims to investigate the
77 potential for dietary needs to be an important determinant of behavioral intentions. Examining

78 tourists' dietary needs and their effect on food destination evaluations and behavioral intentions
79 in the Singapore context contributes to the further development of the food and tourism-related
80 service industry in Singapore.

81 This study takes a closer look at tourists' behavior and post-trip evaluations. It considers three
82 types of dietary needs – religious dietary needs, medical dietary needs, and lifestyle dietary needs,
83 – to bring new insights into understanding the potential effect of tourist needs on the
84 fundamental satisfaction–behavioral intention link. The paper suggests that dietary needs -
85 hypothesized to be determinants of behavioral intentions - are mediated by satisfaction and/or
86 dissatisfaction. The research model is tested on a large data set of international tourists.

87 The next section will be dedicated to the review of the literature on dietary needs and
88 motivation theories. The researchers will then proceed to develop and present a set of
89 hypotheses. Following that, the methods and results will be outlined. Finally, the implications for
90 theory and practice are discussed.

91 **2. Dietary needs and travel eating behavior**

92 Diets, as a more functional attribute of food consumption, participate in the management of
93 food-related behaviors (Kearney, 2010; Lacour et al., 2018). In the broad sense, dietary needs are
94 requirements that need to be fulfilled in order to meet dietary goals that are congruent with
95 cultural and personal motives as well as physiological needs. Behaviors that contribute to diet
96 adherence are nuanced and complex. For many, a diet is an essential aspect of a healthy lifestyle
97 (Ayala et al., 2008) and an important contributor to wellbeing (Ares et al., 2014).

98 Eating habits have an important role to play in disease prevention and health management (De
99 Schutter et al., 2020; Nugent et al., 2018). The desire to eat healthy is often an important
100 consideration in food spending (Henderson et al., 2009). Studies show that tourists' attitudes
101 towards healthy eating have an influence on their travel eating behavior (Chang, 2017).
102 Preliminary evidence suggest that health considerations can be a motivating factor for tourists to
103 consume local food (Chang, 2017; Kim et al., 2009). That being said, health considerations can also
104 limit travel options and be a reason for nonparticipation (Popp et al., 2021). Among the many
105 practices that participate in health management, medical diets need be taken most seriously and
106 enabled properly. For the benefit of health, economy and environment, the option to eat
107 according to one's dietary needs should be made more accessible and be supported in all settings,
108 including travel.

109 Meeting dietary needs entails more than a desire to meet health goals. In the cultural context,
110 the observance of sociocultural practices such as food avoidance and dietary restrictions is related
111 to the perceptions of self-group similarity, group identity, and belonging (Chakona & Shackleton,
112 2019; Meyer-Rochow, 2009). Among cultural dietary practices, religious diets - diets based on
113 religious observances or beliefs - are most prominent (Chakona & Shackleton, 2019). Studies
114 suggest that religious dietary practices impact food purchasing behavior and greatly influence food
115 consumption patterns (Shipman & Durmus, 2017). Given their importance, it is not surprising that

116 religious dietary needs can exert influence on tourists' experiences and intentions (Bakar et al.,
117 2018; Han et al., 2021).

118 In the matter of lifestyle choices, a decision to follow a diet can be intertwined with an
119 individual's sense of identity and ethical responsibility (Radnitz et al., 2015). Increasingly, lifestyle
120 diets such as vegetarianism or sustainable seasonal diets are gaining in popularity (Bere & Brug,
121 2009; Kim & Hall, 2020). Lifestyle choices that encompass sustainability values, animal welfare and
122 other ethic emerging in society have been shown to influence travel behaviors and drive
123 sustainable—responsible tourism discourse (Fennell, 2013; Testa et al., 2019).

124 The special significance of dietary needs for tourism and hospitality lies in the growing global
125 interconnectedness, the sensitivity to multiculturalism, health literacy, and growing responsibility
126 toward sustainability and ethical consumption. The growing number of ethnically diverse travellers
127 requires that destinations embrace the cultural, religious and spiritual needs of diverse tourists
128 (Almerico, 2014). The changing attitudes toward healthy eating increasingly affect health-diet
129 attitudes and corresponding behaviors (Graham & Laska, 2012). The demand for more
130 environmentally sensitive and sustainable practices is changing the way tourists engage with
131 destinations (Kim & Hall, 2020; Testa et al., 2019). The study of dietary needs should be an integral
132 part of the destination development strategy. Better understanding of dietary expectations will
133 offer invaluable insights for practitioners and tourism stakeholders interested in engaging in and
134 maximizing the economic impact and other important benefits of food tourism.

135 **3. Theoretical foundations and hypotheses development**

136 Tourism literature often refers to food experiences as determinants of trip satisfaction
137 (Henderson, 2004, 2009) and behavioral intentions (Rousta & Jamshidi, 2020; Soltani et al., 2020).
138 The general consensus is that the quality of food experiences leads to overall satisfaction and that
139 the effect is linear and symmetrical. Yet at a closer glance, the relationship is not as
140 straightforward.

141 A study by Mannaa (2020) found that the presence of halal food, for example, does not have a
142 significant impact on Muslim travellers' overall satisfaction, even though it affects the travellers'
143 intentions to revisit the destination. In the hospitality settings, the presence of vegetarian dietary
144 options has a significant positive effect on vegetarian customers' satisfaction and revisit intentions
145 (Choi et al., 2021). These examples are plentiful, and suggests that different dietary needs do not
146 necessarily elicit tourists' satisfaction in a constant manner. A possibility of an asymmetrical
147 relationship between dietary needs and satisfaction requires further exploration.

148 Herzberg et al.'s (1959) two-factor theory suggests a possibility of asymmetrical relationship
149 between service attributes and satisfaction. That is, an attribute can be more sensitive to
150 dissatisfaction than to satisfaction, and vice versa. The theory suggests that attributes that behave
151 as motivators have a direct relationship with satisfaction and improve satisfaction if met.
152 Attributes that behave as hygiene factors do not necessarily enhance satisfaction even if they are
153 adequately managed, yet they can cause dissatisfaction when they are not met (Park et al., 2020).

154 While numerous studies have examined the asymmetrical effect of attributes on satisfaction in
155 various areas, the understanding of dietary needs through an asymmetrical relationship with
156 satisfaction is yet to be achieved.

157 Further analysis revealed a link between dietary needs and behavioral intentions. For example,
158 the provision of Halal food at a non-Islamic destination has a positive impact on tourist satisfaction
159 and can lead to increased destination attachment and visitors' retention (Han et al., 2021). Battour
160 et al. (2021) state that the destination's inability to cater to religious dietary needs may result in
161 an increased anxiety among Muslim travelers and potentially lead to dissatisfaction and reluctance
162 to revisit. A study of vegan traveller behavior suggests that a wider availability of vegan products
163 on the menu can increase satisfaction and improve travel participation (Barrero Toral, 2016). A
164 study of vegetarian travellers' experience found that negative emotions while on trips are
165 common due to dietary restrictions, and that the destination's ability to satisfy dietary
166 requirements could decrease travel constraints and enhance intentions to visit (Huang et al.,
167 2019).

168 Only the effects of individual diets have been reported in the literature so far. It is yet to be
169 seen whether different groups of dietary needs elicit significant satisfaction/dissatisfaction
170 responses and whether any one response is more pronounced than the other. It is also important
171 to pay more attention to tourism settings in the study of dietary needs. With the majority of
172 studies focusing on restaurant attributes and the availability of different menu options, few
173 explore destination 'dietary' performance.

174 The above suggests a link between destination evaluations and behavioral intentions and the
175 destination's ability to cater for tourists' dietary needs. The satisfaction or dissatisfaction with a
176 destination can mediate the relationship between types of dietary needs and tourists' behavioral
177 intentions. Given these considerations, the following hypotheses are posited:

178 **H1:** Tourists who place more importance on religious dietary needs will be; a) more satisfied with
179 a destination that can cater to this need, and b) more dissatisfied with a destination that cannot
180 cater to this need.

181 **H2:** Tourists who place more importance on medical dietary needs will be; a) more satisfied with a
182 destination that can cater to this need, and b) more dissatisfied with a destination that cannot
183 cater to this need.

184 **H3:** Tourists who place more importance on lifestyle dietary needs will be; a) more satisfied with a
185 destination that can cater to this need, and b) more dissatisfied with a destination that cannot
186 cater to this need.

187 According to Boninger, Krosnick, and Berent's (1995) model of attitude importance, the extent
188 to which an individual ascribes significance to an attitude might influence thinking and action
189 (Holbrook et al., 2005). Chen and Petrick (2016) note that perceived importance can be useful in
190 understanding the dynamics behind intentions in tourism. Literature also suggests that perceived
191 importance is a contributory factor to dietary adherence and that better dietary adherence leads
192 to higher quality of life scores (Hall et al., 2009; Usai et al., 2007). The improvements in quality of

193 life prompted by holiday experiences are driving elements for positive future intentions (Di-
 194 Clemente et al., 2019). Considering all of the above, the researchers focus on perceived dietary
 195 importance as a crucial factor in the attitude-intentions relationship. Prominent among loyalty
 196 intentions are behavioral intentions to revisit the destination and propensity to recommend the
 197 destination to others (Chen & Gursoy, 2001; Coetzee et al., 2019). As such, this study utilises
 198 tourists' willingness to recommend (WTR) and willingness to revisit (WTV) as indicators of
 199 intentions. This leads to the formation of the following hypotheses:

200 **H4:** Tourists who are satisfied with the destination's ability to cater to their needs; a) are more
 201 likely to recommend the destination to family and friends, and b) are more likely to revisit.

202 **H5:** Tourists who are dissatisfied with the destination's ability to cater to their needs; a) are less
 203 likely to recommend the destination to family and friends, and b) are less likely to revisit.

204 4. Methodology

205 4.1 Sampling

206 A quota sampling method was used to collect data from four tourist market segments in
 207 Singapore. The choice was guided by the Singapore Tourism Board (2019) performance report,
 208 where consumer markets with highest food and beverage (F&B) spending were identified as India,
 209 USA, UK and Australia, with 15%, 14%, 14% and 12% of overall spending respectively. The use of
 210 F&B spending as a criterion when studying food-related behaviors is a common practice in tourism
 211 literature (Knollenberg et al., 2021; Williams et al., 2019). The researchers checked for non-
 212 response bias by analysing the sociodemographic characteristics of responders. A comparison of
 213 the first and last waves of responses revealed no statistically significant differences. The
 214 sociodemographic characteristics of respondents were fairly representative of the total
 215 population. Nonresponse bias does not appear to be a critical issue.

216 Following the calculations of Bujang et al. (2018) and sampling recommendations provided by
 217 Hair et al. (2014), a sample size of above 500 was estimated to derive the statistics that represent
 218 the parameters in the targeted population. A preliminary satisfactory quota for each stratum was
 219 defined as 150 per country. Overall, 660 valid responses were collected and analysed (slightly
 220 above the defined quota). Table 1 provides an overview of the respondents' profiles.

221 Table 1. Respondents' profiles

Demographic characteristics		Percentage	
GENDER	N=655	Male	56.2
		Female	43.0
AGE	N=660	18-24	23.0
		25-44	53.3
		45-64	17.0
		65 or older	6.7
INCOME	N=660	< US\$60,000	39.1
		US\$60,000 - \$120,000	47.9
		> US\$120,000	13.0
COUNTRY	N=660	Australia	25
		UK	25
		USA	25

		India	25
RELIGION	N=660	Christian	41.4
		Hindu	18.9
		Muslim	7.0
		Non-religious	26.2
		Other	6.5
EDUCATION	N=660	Less than high school	3.8
		High school graduate	25.0
		Undergraduate	34.1
		Postgraduate	33.5
		Doctorate	3.6
TRAVEL FREQUENCY	N=660	Less than once a year	12.0
		Once a year	33.3
		2-4 times a year	45.8
		More than 4 times	8.9
ETHNICITY	N=660	Caucasian	53.2
		African American	7.7
		East Asian	5.0
		South Asian	21.4
		Other	12.7

222 4.2 Measures

223 The questionnaire was developed in English and consisted of four groups of questions. The first
224 group collected demographic information (see Table 1). The second group inquired after dietary
225 habits and dietary needs (e.g., "What factors shape your food preferences?", "Do you have any
226 dietary preferences or requirements?", "Do you fast?", "Are you following any medical diets?"). It
227 also collected information on food avoidance behaviors (e.g., "Which animal foods do you avoid, if
228 any?", "Do you avoid [wheat/soy/milk /eggs/nuts/seafood ...] in your meals?"). The choice of
229 dietary questions was guided by the UCL's eating behavior questionnaire (UCL, 2019), the 2014
230 FDA Health and Diet Survey (Zhang et al., 2016), and a survey of self-reported food allergies (Ali,
231 2017). The development of items measuring religious dietary needs was guided by Kwon and
232 Tamang (2015) and Eliasi and Dwyer (2002) studies on religious foods and religious observances.
233 The items measuring lifestyle dietary needs were developed by revising studies of Lacour et al.
234 (2018), Nie & Zepeda (2011) and Huang et al. (2019).

235 The third group assessed the role of dietary needs in daily and travel experiences (e.g.,
236 "Evaluate the importance of medical dietary needs in your daily experiences ", "Evaluate the
237 importance of religious dietary needs in your travel experiences" – see Table 2). The contrast
238 between daily (or everyday life) and travel experiences is an important construct in sociological
239 understanding of the tourist behavior as it highlights the relationship between ordinary and
240 extraordinary experiences (McCabe, 2002). To gauge the role of dietary needs in daily and travel
241 experiences, a five-point Likert scale was utilized unless otherwise stated. The questions used
242 importance and agreement scale (Evaluate the importance [Not at all to Extremely], Evaluate the
243 statement [Strongly agree to Strongly disagree]). Additional questions asked how tourists
244 managed their dietary needs while in Singapore.

245 The last group was dedicated to satisfaction questions (e.g., "Evaluate your satisfaction with the
246 availability of the medical dietary options in Singapore"; "How would you evaluate Singapore's

247 performance in providing special dietary options to visitors with religious dietary needs?”). This
 248 group also includes the ‘intention questions’ such as willingness to revisit and willingness to
 249 recommend (see Table 2). The questionnaire was pilot tested for content validity and clarity.

250 *4.3 Common method variance (CMV)*

251 When self-report questionnaires are used to collect data at the same time from the same
 252 participants, common method variance (CMV) may be a concern. To reduce the likelihood of bias
 253 generated by CMV, procedural steps were taken into consideration when designing the
 254 questionnaire, including the use of different scale types as well as mixing the type and order of the
 255 questions. To control for any possible bias, a post hoc Harman one-factor analysis was used, with
 256 results suggesting no problem in the data as the total variance extracted by one factor was
 257 34.808%, less than the recommended threshold of 50% (Chang et al., 2010). In addition, the
 258 occurrence of a variance inflation factor (VIF) greater than 5 was proposed as an indication of
 259 pathological collinearity (Kock, 2015). Since all VIFs resulting from a full collinearity test were < 5,
 260 the model was considered free of CMV.

261 *4.4 Variables*

262 The skewness and kurtosis values for diets, satisfaction and intention items are presented in
 263 Table 2. The skew and kurtosis indices for most items fell within the suggested range of –1 to 1.
 264 Excess skewness and kurtosis values for dissatisfaction item [DISSAT] indicate a slight departure
 265 from symmetry and presence of extreme outliers compared to a normal distribution. The
 266 constructed DISSAT variable (Likelihood of avoiding a destination if dietary needs are not met) was
 267 recoded from the survey items that ask about dietary needs’ role in travel decision-making, and
 268 decision to avoid visiting a destination if dietary needs are not met.

269 Table 2. Descriptive statistics

	Mean	Std. Dev.	Skewness	Kurtosis
Evaluate the importance of medical dietary needs in your daily experiences	3.36	1.329	-0.219	-1.173
Evaluate the importance of medical dietary needs in your travel experiences	3.39	1.296	-0.282	-1.095
Evaluate the importance of religious dietary needs in your daily experiences	3.39	1.502	-0.364	-1.317
Evaluate the importance of religious dietary needs in your travel experiences	3.38	1.517	-0.327	-1.367
Evaluate the importance of lifestyle dietary needs in your daily experiences	3.4	1.318	-0.315	-0.999
Evaluate the importance of lifestyle dietary needs in your travel experiences	3.34	1.381	-0.24	-1.214
Evaluate Singapore's performance in providing special dietary options to visitors with religious dietary needs [SAT1]	3.68	1.184	-0.828	-0.005
Evaluate Singapore's performance in providing special dietary options to visitors with medical dietary needs [SAT2]	3.68	1.067	-0.637	-0.123
Evaluate Singapore's performance in providing special dietary options to visitors with lifestyle dietary needs [SAT3]	3.92	1.081	-0.949	0.385
Evaluate your satisfaction with the availability of the religious dietary options in Singapore [SAT4]	3.54	1.256	-0.584	-0.562

Evaluate your satisfaction with the availability of the medical dietary options in Singapore [SAT5]	3.57	1.141	-0.555	-0.308
Evaluate your satisfaction with the availability of the lifestyle dietary options in Singapore [SAT6]	3.76	1.133	-0.746	-0.097
Likelihood of avoiding a destination if dietary needs are not met [DISSAT]	1.9	1.076	1.269	1.153
To what extent does the ability to satisfy dietary needs affect your decision to travel back to Singapore? [WTV]	3.64	1.216	-0.496	-0.603
To what extent does the ability to satisfy dietary needs affect your decision to introduce Singapore to your friends and family as a travel destination? [WTR]	3.48	1.222	-0.171	-0.82

270 The reliability analysis was performed for four reflective constructs: religious, medical, and
271 lifestyle dietary needs and satisfaction. Indicator reliability, average variance extracted, and
272 internal consistency serve to assess the reliability of reflective measurements (Table 3). The
273 internal consistencies are satisfactory with values above the threshold of .70, and AVE >0.5. All α
274 values were above 0.7 critical level. The discriminant validity is established on the basis of the
275 heterotrait–monotrait ratio of correlations (Hair et al., 2019). All HTMT values are below the
276 critical and conservative value of .80.

277 Table 3. Reflective constructs

Variable	Indicator	Loading	t Value, Two-Sided Test	Internal consistency	AVE
<i>Criterion</i>		≥ 0.7	<i>2.58 (1%)</i>	≥ 0.7	≥ 0.5
Medical d/n*	Daily Importance	0.957	150.813	0.905	0.913
	Travel Importance	0.954	124.996		
Religious d/n*	Daily Importance	0.945	63.307	0.88	0.893
	Travel Importance	0.945	73.308		
Lifestyle d/n*	Daily Importance	0.952	155.763	0.876	0.889
	Travel Importance	0.934	76.308		
Satisfaction	SAT 1	0.854	62.999	0.927	0.734
	SAT 2	0.84	48.551		
	SAT 3	0.842	59.437		
	SAT 4	0.873	89.439		
	SAT 5	0.873	80.465		
	SAT 6	0.857	58.298		

*Dietary needs

278 The dissatisfaction and intention variables (WTV, WTR) employ single-item constructs. The
279 possibility for using single-item constructs for attitude measures and measures that reflect
280 personal involvement was described by Bergkvist and Rossiter (2007), who argue that single-item
281 measures of such constructs are equally as valid as multiple-item measures. Moreover, Drolet and
282 Morrison (2001) state that additional items do not necessarily provide more information, and that
283 one or two good items can outperform a scale with multiple items.

284 4.5 Data analysis

285 The Partial Least Squares Structural Equation Modelling (PLS-SEM) with IBM SPSS Statistics 26
286 were used to analyse data. PLS-SEM is widely used in tourism and travel research (Assaker et al.,
287 2015). Its ability to produce higher statistical power is quite useful for exploratory research that

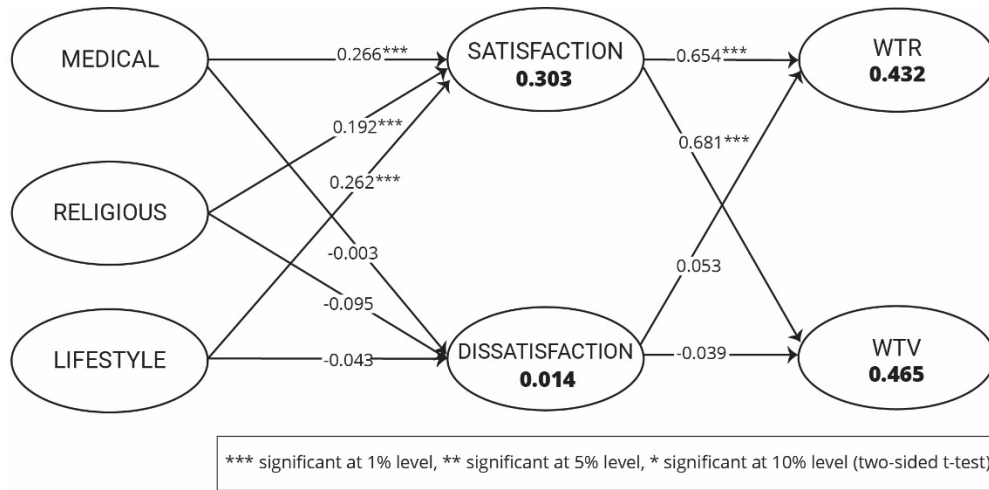
288 examines less developed or developing theory (Hair et al., 2019). This method is often viewed as
289 an alternative to CB-SEM, which has numerous restrictive assumptions (Hair et al., 2011). PLS-SEM
290 has been found to work well with latent variables such as satisfaction and loyalty (Ahrholdt et al.,
291 2017; Wong, 2013). It can deal with complex model structures and does not demand normally
292 distributed data.

293 **5. Results and discussion**

294 Among the many demographic factors (see Table 1), only country, religion, and ethnicity show
295 the strongest correlation to dietary needs (Cramer's $V > 0.45$, very strong). The religious dietary
296 needs were most common among Muslim and Hindu respondents, 84.8% and 70.4% respectively.
297 The non-religious respondents had no religious dietary requirements but reported having lifestyle
298 (35%) and/or medical (20%) dietary requirements. South Asian and 'Other' (Buddhist, Judaist,
299 Taoist, Spiritualists) respondents were twice more likely to report religious dietary requirements
300 compared to other groups. The majority of African American and Caucasian respondents reported
301 following medical (51% and 28%, respectively) and/or lifestyle (51% and 38%, respectively) diets.
302 Respondents from India by far had the most dietary requirements, specifically 58% reported
303 having at least one dietary need, followed by USA (30%) and UK (21%). The respondents from
304 Australia reported the least number of dietary needs (only 14% followed a diet). The US, UK and
305 Australian respondents were more likely to have lifestyle dietary needs than medical or religious.
306 The results show no significant difference between daily importance and travel importance of
307 dietary needs. This indicates that dietary needs remain relatively constant and continue to be of
308 importance during travel.

309 While travelling, respondents with religious, medical and lifestyle dietary needs negotiated or
310 managed the said needs by occasionally avoiding local food (20%, 22%, 19% respectively, $p < .05$) or
311 even bringing their own food (all $\leq 10\%$, $p < .05$). Respondents with medical dietary needs preferred
312 to avoid foods rich in sugar (27%), salt (25%) and fat (21%) when travelling. Respondents with
313 religious and lifestyle dietary needs tended to avoid food perceived as unhealthy (32% and 24%
314 respectively, $p < .05$) when travelling.

315 The variance explained by the model (R^2) is 30% for satisfaction, 43% for WTR and 46.5% for
316 WTV. To be considered substantial, R^2 value of the endogenous construct should be above 0.25
317 (Hair et al., 2011). The quite low R^2 value (.014) for dissatisfaction further indicates that no
318 meaningful relationship exists between the importance of dietary needs and dissatisfaction in the
319 data. The cross-validated redundancy measure Q^2 is greater than 0.25 for both WTR and WTV as
320 well as satisfaction, indicating medium predictive relevance. The Q^2 value close to 0 for
321 dissatisfaction depicts low predictive relevance of the variable. The removal of dissatisfaction
322 affects the WTR construct's R^2 value, reducing it by 0.3% percentage points as well as reducing
323 WTV construct's R^2 value by .01% percentage points. The normed fit index (NFI) by Bentler and
324 Bonett (1980) computes the χ^2 value of the proposed model and compares it against a
325 meaningful benchmark. In the model, the Standardized Root Mean Square Residual (SRMR) value
326 of 0.04 and NFI close to 0.9 suggest a good fit.



328

329 *Figure 1. PLS-SEM results*

330 Ten direct relationships between paths were investigated in this study (Table 4). The results
 331 support half of the hypotheses. Figure 1 shows the direct paths for the structural model.

332 Table 4. Direct paths for the structural model

	Standard coef.	Mean	ST.DEV	t-value	p-value	Decision
Religious -> SAT	0.192	0.191	0.032	6.032	0.000	H1a: Accept
Religious -> DISSAT	-0.095	-0.096	0.053	1.795	0.073	H1b: Reject
Medical -> SAT	0.266	0.263	0.041	6.548	0.000	H2a: Accept
Medical -> DISSAT	-0.003	-0.002	0.062	0.043	0.966	H2b: Reject
Lifestyle -> SAT	0.262	0.264	0.04	6.537	0.000	H3a: Accept
Lifestyle -> DISSAT	-0.043	-0.043	0.064	0.664	0.507	H3b: Reject
SAT-> WTR	0.654	0.655	0.021	30.675	0.000	H4a: Accept
SAT -> WTV	0.681	0.681	0.021	32.075	0.000	H4b: Accept
DISSAT -> WTR	0.053	0.053	0.029	1.796	0.073	H5a: Reject
DISSAT -> WTV	-0.039	-0.038	0.036	1.077	0.282	H5b: Reject

333 Figure 1 offers a visual representation of the connections between three groups of tourist
 334 dietary needs, satisfaction and behavioral intentions. Hypothesis **H1a** was tested by examining the
 335 path coefficient between the importance of religious dietary needs and tourist satisfaction (β
 336 =.192, $p < .0005$). The results show that tourists who placed high value on religious dietary needs
 337 were more likely to have a positive attitude toward the destination that could satisfy their dietary
 338 needs. A similar relationship was observed between the two remaining groups of tourist dietary
 339 needs and satisfaction, effectively supporting **H2a** and **H3a**. However, the effects of dietary needs
 340 on dissatisfaction were found to be not significant. Thus, hypotheses **H1b**, **H2b** and **H3b** did not
 341 receive statistical substantiation.

342 The results show that dietary needs can act as determinants of behavioral intentions, namely
 343 WTV and WTR, when mediated by satisfaction. Therefore, tourists are more likely to revisit and
 344 recommend the destination to family and friends if the destination is capable of meeting their
 345 dietary needs. This effectively supports hypothesis **H4a** and **H4b** (Table 4). The opposite

346 relationship, where tourists are less likely to revisit and recommend the destination if their dietary
347 needs are not satisfied (**H5a** and **H5b**), was not substantiated.

348 While all three groups of dietary needs have an effect on satisfaction and behavioral intention,
349 lifestyle and medical dietary needs exhibit a slightly stronger effect compared to religious dietary
350 needs ($p < .005$). Current tourism and hospitality literature tends to focus on religious dietary
351 requirements (Halal, Kosher, and other cultural diets) when referring to special dietary
352 preferences. Considering our results, we recommend that additional attention be paid to medical
353 and lifestyle dietary needs, particularly when investigating behavioral intentions. Our results
354 extend previous findings (Barrero Toral, 2016; Han et al., 2021; Huang et al., 2019) and support
355 the notion that destination's 'dietary' preparedness is associated with better experience
356 outcomes.

357 **6. Conclusions and implications**

358 *6.1 Conclusions*

359 Tourism destinations rely on repeat tourists and their ability to sustain a positive destination
360 brand advocacy. However, tourists are only likely to be active destination brand advocates if they
361 are satisfied during their stay. According to our findings, catering to tourists' dietary needs is one
362 way to improve tourist satisfaction and influence future travel intentions.

363 Our results have demonstrated the existence of positive connections between diverse tourist
364 dietary needs, satisfaction and behavioral intentions. We found that dietary needs are an
365 important determinant of future intentions (WTV and WTR) when mediated by satisfaction. While
366 all three groups of dietary needs had an effect on satisfaction and behavioral intentions, lifestyle
367 and medical dietary needs exhibited a slightly stronger effect compared to religious dietary needs.

368 Our results have confirmed that the relationship between tourist dietary needs and destination
369 evaluation and intentions is not symmetrical. The higher the perceived importance of tourists'
370 dietary needs, the more likely they are to be satisfied with a destination that can cater to their
371 needs. Satisfied tourists are more likely to recommend a visit to others and to return. However,
372 the effects of dietary needs on dissatisfaction were found to be not significant. The destination's
373 inability to satisfy dietary needs does not necessarily reduce willingness to recommend or revisit.
374 The results of this study support the notion that destination's 'dietary' preparedness is associated
375 with better experience outcomes.

376 *6.2 Theoretical implications*

377 This research provides a contribution to the understanding of tourists' experiences and
378 intentions. It confirms that the satisfaction of dietary needs plays an important role in post-trip
379 decision-making. An improved understanding of tourist intentions would benefit research on both
380 travel behavior and travel needs. Accordingly, this work can be a good foundation for future
381 researchers who are interested in determinants of behavioral intentions as well as those aiming to
382 develop food tourism.

383 In terms of academic contributions, this study is among the first to investigate how tourists'
384 special dietary needs influence satisfaction and behavioral intentions. With the majority of studies
385 focusing on tourist dietary needs in hospitality settings, few explore destinations' 'dietary'
386 performance. Unlike other studies that focus on individual dietary practices, this study explores a
387 broader range of dietary needs (lifestyle, medical, and religious). The investigation of a wider
388 range of dietary practices lends more efficiency to managers and policymakers responsible for
389 designing industry-level solutions.

390 This study contributes to research methodology by validating the applicability of Herzberg et
391 al.'s (1959) two-factor theory to consumer food-related behavior. Our findings have confirmed
392 that dietary needs can act as satisfiers. The higher the perceived importance of dietary needs in
393 customers' dietary routine, the more likely they are to be satisfied with a destination that can
394 cater to their needs. In contrast, destination's inability to satisfy dietary needs does not necessarily
395 lead to higher levels of dissatisfaction. This asymmetrical relationship provides fertile ground for
396 future research endeavours. It hints at the possibility of employing Kano's (1984) Attractive quality
397 theory to further investigate tourists' dietary needs. As such, we recommend a further exploration
398 of dietary needs as 'value-added' and 'must-be' attributes.

399 This study makes a tentative contribution to the literature on tourism constraints. Our findings
400 and observations hint at certain adaptational qualities of tourists with dietary needs. Similar to
401 Huang et al. (2019) and Kansanen (2013), we found that consumers can negotiate their dietary
402 constraints and persist in travelling even if it means compromising their dietary preferences.
403 However, such compromises can lead to discomfort, as tourists are forced to either meticulously
404 plan their meals or avoid eating local food altogether. This, in turn, does little to enhance the
405 quality of the tourist experience at destinations and can even diminish the interaction that the
406 tourist has within the tourist space. Further investigation of dietary needs as a type of constraint in
407 complex travel decision-making is necessary.

408 *6.3 Practical implications*

409 With regard to practical implications, the findings of this research are beneficial for destination
410 management organizations (DMOs). Considering that dietary needs are important, ubiquitous and
411 persist during travel, destination managers are suggested to rethink and adapt their marketing
412 strategies to the changing consumer behavior by incorporating dietary needs into regular service
413 offering. Destination managers are advised to amend their perception of tourists with dietary
414 needs as peripheral tourists or niche tourists (e.g., vegan travellers, Halal tourists, tourists with
415 special needs) but rather work on ways to discern which attributes offered to consumers serve
416 best to accommodate their diverse dietary needs. This may involve developing new customer-
417 centric marketing approaches and exploring the opportunity of incorporating more diverse food
418 products and services that align with tourist dietary requirements to provide high service quality
419 to consumers.

420 For destination managers in Singapore, the understanding of the mechanisms that shape food
421 demand patterns is of particular value. It can improve the current service quality or open a

422 pathway for managers to develop new marketing approaches (e.g., Singapore as the most diverse
423 and accommodating 'Food City' in the world). The ability to understand and cater to a variety of
424 diets can add to the immediate visitation and play an important role in the development of
425 Singapore's brand equity. In our previous study, we have found that dietary expectations cannot
426 be fully realized without a strong government response which includes policy changes. Rethinking
427 the established food-related policies as well as reframing and extending these policies to
428 accommodate diverse tourists' needs is necessary for destinations aiming to promote food
429 tourism (or food and tourism).

430 Our observations support the notion that destination's ability to satisfy dietary needs is yet to
431 become a habitual expectation among consumers. Catering to diverse dietary needs is yet to be
432 regarded as a 'must-be service'. However, there is evidence that the situation is changing, as more
433 businesses are coming to accept the variability of consumer needs and expectations. We
434 encourage the tourism and hospitality providers to capitalise on gaps in the current offering. By
435 doing so, they are likely to gain a competitive advantage. We believe that the need to
436 accommodate diverse dietary needs will become incrementally more commonplace much sooner
437 than anticipated. Policy makers, destination managers and tourism stakeholders need to accept
438 and embrace the changing consumer attitudes and, if possible, create favourable conditions for all
439 businesses to participate in inclusive diet-friendly practices.

440 Lastly, it is undeniable that food is a valuable tool for providing destinations with new
441 experiential products. Catering to dietary needs can add to the destination experience mix and
442 contribute to loyalty intentions. F&B sector has much to gain by positioning and branding
443 themselves as reflecting trends and needs. The ability to generate added value through better
444 dietary performance can be invaluable for all destinations planners and managers.

445 **7. Limitations and future research**

446 This study is limited to Singapore's context with its idiosyncratic food culture. To contribute to
447 further development of the F&B and tourism industry outside of Singapore, we urge researchers
448 to investigate the present research model in other cultural settings. This study is limited to a
449 sample of international travellers. A comparative study of the effects of dietary needs on foreign
450 vs domestic travel intentions could be a valuable addition to the understanding of tourists' needs.

451 This study provides a solid foundation for ambitious initiatives in the future. Moving forward, it
452 would be interesting to investigate additional constructs such as taste value, health value, price
453 value, emotional value, and prestige value as mediating factors when evaluating tourist
454 experiences and intentions. It would be valuable to compare and contrast tourist dietary needs
455 and tourist wants. Further longitudinal and empirical studies are needed to document the
456 differences in dietary patterns among diverse tourist groups.

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