

Wahyuningsih; Nasution, Hanny; Yeni, Yulia Hendri; Roostika, Ratna

Article

A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom

Cogent Business & Management

Provided in Cooperation with:

Taylor & Francis Group

Suggested Citation: Wahyuningsih; Nasution, Hanny; Yeni, Yulia Hendri; Roostika, Ratna (2022) : A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom, Cogent Business & Management, ISSN 2331-1975, Taylor & Francis, Abingdon, Vol. 9, Iss. 1, pp. 1-20,
<https://doi.org/10.1080/23311975.2022.2105585>

This Version is available at:

<https://hdl.handle.net/10419/289122>

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



<https://creativecommons.org/licenses/by/4.0/>

A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom

Wahyuningsih, Hanny Nasution, Yulia Hendri Yeni & Ratna Roostika

To cite this article: Wahyuningsih, Hanny Nasution, Yulia Hendri Yeni & Ratna Roostika (2022) A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom, Cogent Business & Management, 9:1, 2105585, DOI: [10.1080/23311975.2022.2105585](https://doi.org/10.1080/23311975.2022.2105585)

To link to this article: <https://doi.org/10.1080/23311975.2022.2105585>



© 2022 The Author(s). This open access article is distributed under a Creative Commons Attribution (CC-BY) 4.0 license.



Published online: 08 Sep 2022.



[Submit your article to this journal](#)



Article views: 13050



[View related articles](#)



[View Crossmark data](#)



Citing articles: 3 [View citing articles](#)



Received: 28 June 2021
Accepted: 20 July 2022

*Corresponding author:
Wahyuningsih, SE, M.Sc, Ph.D
Department of Management, Faculty
of Business and Economics, Tadulako
University, Kampus Bumi Tadulako
Tondo, Palu 94118, Sulawesi Tengah,
Indonesia
E-mail: wahyuningsih.wahyuningsih@untad.ac.id

Reviewing editor:
Wright Len Tiu, De Montfort
University Faculty of Business and
Law, United Kingdom

Additional information is available at
the end of the article

MARKETING | RESEARCH ARTICLE

A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom

Wahyuningsih^{1*}, Hanny Nasution², Yulia Hendri Yeni³ and Ratna Roostika⁴

Abstract: The COVID-19 pandemic has fundamentally changed many aspects of lives, including business and consumer behaviour. This study investigates Gen-X, Gen-Y, and Gen-Z in their change in food purchasing behaviour during the pandemic. Further, the study examines the relationships among customer value, customer satisfaction, and eWOM across three generations. It is found that (1) Gen-X, Gen-Y, and Gen-Z perceived different value during the pandemic, (2) Gen-X found to be the cohort that is most concerned with safety value in selecting food compared to the other two cohorts, meanwhile Gen-Y is the cohort with the highest concern on information value, (3) customer value has significant impact on satisfaction and eWOM for Gen-X and Gen-Z, however for Gen-Y, customer value impacts satisfaction significantly, surprisingly, it has no impact on eWOM. Managerial implications and future research directions are highlighted in this study.

Subjects: Business, Management and Accounting; Management of Technology & Innovation; Marketing

Keywords: customer value; customer satisfaction; eWOM; generations XYZ; COVID-19

1. Introduction

The COVID-19 pandemic has fundamentally changed many aspects of lives, including business (Turner & Aknremi, 2020) and consumer behaviour (Shaw et al., 2020). Among any other industries, hospitality industry has been mostly affected (Nicola et al., 2020) that implicates on the closure of restaurants (Hobbs, 2020). The current changes in public behaviour, include social distancing, large-scale social restrictions, and staying at home (Djalante et al., 2020), impact on attitudes

ABOUT THE AUTHOR



Wahyuningsih

Dr. Wahyuningsih She is an associate professor at the Department of Management, Tadulako University in Indonesia. She finished her PhD degree in marketing from Monash University, Australia. Currently, she is the head of Management and Entrepreneurships Research Center, Faculty of Economics and Business Tadulako University. Her research focuses on customer value, sales management, consumer search behaviour, tourism marketing, and local resource management.

and purchasing behaviour (Hasanat, et al). During the outbreak of COVID-19, consumers prefer to buy product online to avoid being affected by the virus (Shaikh, 2020). In the context of restaurant industry, customers might order food using online delivery services (Tomacruz & Flor, 2018). Hence, it can be noticed that COVID-19 has changed purchasing habits of consumers who have to stay at home to buy food using online delivery service.

A business which takes a proactive approach to their changing markets will be able to better serve customers (Guo et al., 2019), especially during COVID-19. Customers will certainly have higher sensitivity to the risks of the virus transmission, more concerned about the nutrition value of the products (Shaikh, 2020); therefore, they demand to seek for hygiene and healthy product (Djalante et al., 2020), including food (Hobbs, 2020). This indicates that COVID-19 has changed what value customers perceive in their decision to purchase products. Understanding what customers will value during COVID-19, delivering superior value to customers (Nasution & Mavondo, 2008), and designing best marketing strategy (Smith & Colgate, 2007) will ensure business' survival and put ahead of major competitors.

Moreover, delivering best value to customers has positive impact on behavioural outcomes: customer satisfaction, repurchase intentions, electronic word-of-mouth (eWOM), and loyalty (Barrutia & Gilsanz, 2012; Martinez et al., 2019; Rousta & Jamshidi, 2020). These previous studies have seen the relationships among the constructs at an aggregate level. Based on the theory of market segmentation, it is suggested that each type of customer needs a specific approach (Wahyuningsih, 2011; Zhou et al., 2020). Each customer segment will perform different attitudes and behaviour; hence, customers will perceive different value in purchasing product (Eggert & Ulaga, 2002). Consumers with different generational cohort tend to perform different values, attitudes, and behaviour (Rudolph & Zacher, 2020).

Consumers who basically prefer to socialize and dine out in restaurants are encouraged to eat at home utilizing online food delivery service due to the practice of social distancing. Hence, COVID-19 has brought social-cultural change (Djalante et al., 2020), and specifically it has created a major impact on the eating and drinking habits of consumers. They have become more health-conscious consumers in an attempt to increase immunity to protect themselves from the spread of COVID-19. According to Zwanka and Buff (2020), COVID-19 has resulted shifts in consumer behaviour; therefore, they suggested researchers to empirically test one or more generational cohorts whether any cohort-specific differences in attitudes and behaviour are apparent. Understanding the shifts of consumer behaviour is critical for business success and theoretical development. Based on these arguments, this research fills the gap as the most recent study which investigates the change of value that customers perceive during the pandemic, and how its impact on customer satisfaction and eWOM across three cohort of generations. Therefore, this study attempts to investigate Gen-X (people who were born between 1965 and 1979), Gen-Y (born 1980–1994), and Gen-Z (born 1995–2000) in their change in food purchasing behaviour during COVID-19. Further, this study sought to examine customer value and its effect on customer satisfaction and eWOM for different generational cohorts. The behaviour of these generations is detailed from their perceived value, level of satisfaction, and activities of doing e-WOM. The relationships among the constructs (value, satisfaction, and e-WOM) will be compared using multi-group analysis for the three generations.

2. Theoretical background

2.1. Customer value

Customer value has been widely discussed and has received increasing attention from academics and practitioners (Talwar et al., 2020; Wang & Yu, 2019). This is due to firms which have a strong focus on customer value will form a sustainable competitive advantage (; Woodruff, 1997), specifically in the context of business, management, and marketing (Zauner et al., 2015). If the firms understand what drives value for their customers and provide superior value, they have a greater opportunity to obtain and retain customers which lead to higher profitability (Slater &

Narver, 2000). In line with these studies, Woodruff (1997) points out that creating and delivering value to customers will increase the value of the firms. Hence, it can be argued that firms who deliver better value to customers will achieve better performance.

Concept of customer value has been determined in the literature as an assessment of the trade-off between benefits and sacrifices (Brady & Robertson, 1999; Eggert & Ulaga, 2002; Lapierre, 2000; Ravald & Grönroos, 1996; Ulaga & Chacour, 2001; Walter et al., 2001; Zeithaml, 1988). Benefits defined as a combination of physical and service attributes, as well as technical support available in relation to a particular use situation (Monroe, 1990). Sacrifices are the loss derived from the product or service due to the increment of perceived short-term and long-term costs (Wang et al., 2004). To purchase a product, consumers aggregate the benefit attribute and then compare them to the sacrifices required to purchase the product (Brady & Robertson, 1999). Customer-perceived value captures the extent to which a customer perceives more benefits than sacrifices (Ritter & Walter, 2012). Hence, in delivering value, firms need to maximize benefits to customers and minimize sacrifices that the customers have to give up.

Along with the increased research on customer value, there has been an increase in the diversity of its measurement scale. Sweeney and Soutar (2001) put forward four scale for measuring customer value, quality, price, social value, and emotional value. Other scales examined in prior literature are performance (Bolton & Drew, 1991), utilitarian and hedonic value (Ryu et al., 2010), cost (McDougall & Levesque, 2000), and time/effort/energy (Lapierre, 2000). Having reviewed existing literature, this study adopts the Sheth et al. (1991) scale for measuring customer value. The scale consists of five components, namely, functional, emotional, social, conditional, and epistemic value. There are two main reasons for adopting this scale. First, the five components of value are a well-established theory that has been employed by previous researchers in examining customer value (Biswas, 2017); second, the scale has been well applied in hospitality sector (Talwar et al., 2020), specifically restaurant industry (Thome et al., 2018). Since consumers are facing a specific situation, namely, Covid-19 pandemic, therefore conditional value in this study is labelled as safety value. Safety value is defined as utility derived from the product's ability to maintain and improve immunity and the level of consumer health. In addition, epistemic value is labelled as information value adopted from Talwar et al. (2020), and it is measured in terms of the acquisition of information on different offers, promotions, and the terms and conditions related to the restaurants. Conceptualization of customer value utilized in this study is presented in Table 1.

2.2. Customer satisfaction

Customer satisfaction has been considered as a key strategic indicator as a profit generator (Shankar et al., 2003), a company's success, and long-term competitiveness (Woodruff, 1997). A satisfied customer is more likely to stay with the same company (Hultman et al., 2019), and less likely to switch to other companies (Gremler & Brown, 1999). Furthermore, Anderson and Sullivan (1993) pointed out that higher customer satisfaction insulates customers from competitors, enhances a firm's reputation in the marketplace, and lowers the costs of attracting and transacting with new customers. From these advantages, accordingly, customer satisfaction leads to profitability (Athanasopoulos et al., 2001).

Customer satisfaction is a post-choice evaluative judgment concerning a specific purchase selection (Oliver, 1980). Parallel with this argument, Yi (1990) defined customer satisfaction as an attitude like judgment following a purchase act or based on a series of consumer product interactions. There have been various scales to measure customer satisfaction include performance (McQuitty et al., 2000), quality (Ueltschy et al., 2004), expectation (Bendall-Lyon & Powers, 2004), and overall satisfaction (Hultman et al., 2019). Among the scales that have been examined by previous scholars, this study utilizes expectation and overall satisfaction since other scales have been covered in customer value measurement (Barrutia & Gilsanz, 2012).

Table 1. Conceptualization of customer value

Components of value	Definition	Source
Functional	The perceived utility acquired from an alternative's capacity for functional features, utilitarian, physical performance or physical characteristic.	Sheth et al., 1991; Thome et al., 2018
Social	The utility derived from the product's ability to enhance social self-concept, augment self-image of the user, being-well respected and have relationships with others.	Sheth et al., 1991; Wang et al., 2004
Emotional	The economic value or monetary worth of feelings or affective states when customers experience an organization's products and/or services.	Sweeney & Soutar, 2001; Sheth et al., 1991
Safety	The perceived utility derived from the product's ability to maintain and improve immunity and the level of consumer health.	Talwar et al., 2020; Thome et al., 2018
Information	A product alternative's ability to incite, curiosity, offer novelty, and/or satisfy a quest to seek knowledge.	Sheth et al., 1991; Talwar et al., 2020; Sweeney & Soutar, 2001

2.3. Electronic word of mouth (eWOM)

The advancements of the internet have radically altered the way people go shopping (Tsao et al., 2015). According to Yen and Tang (2015) information provided, speed, alternative comparison, convenience, and one-to-many reach have facilitated business far beyond the reach of traditional WOM. The role of the internet in disseminating information worldwide such as the current COVID-19 virus spread has created higher awareness and more selective attitudes among global consumers in their shopping behaviours. WOM has been considered as important variable in service industry such as in hospitality sector because of its ability to reduce risk for purchasing intangible offerings (Jeong & Jang, 2011). Similarly, in the restaurant industry, customers will evaluate food quality, services, space, and experiences that determine their satisfaction and positive behavioural intentions, such WOM, as has been demonstrated in some studies (Kim et al., 2009; Ladhari et al., 2008).

Traditional WOM and eWOM are different from which WOM is typically face-to-face communications (King et al., 2014), while eWOM takes place in online platform. eWOM is defined as an exchange of service assessment in electronic commerce (King et al., 2014; Tsao et al., 2015). The popularity of social media sites has taken WOM into eWOM, with the increasing use of Facebook, Instagram, WhatsApp, YouTube, Twitter, and Line to interact among others. eWOM enables the information exchanges on huge number of people, real time/timeless, and no geographical boundary (King et al., 2014). People have now increasingly tended to perceive eWOM as providing reliable information in online activities (Gruen et al., 2006). This study uses eWOM to test the behavioural changes in online food shopping during the pandemic.

2.4. Generational cohort theory

Generational cohort theory has been applied in various research fields, such as social science, psychology, politics, education, human resource management, and marketing (Zwanka & Buff, 2020). According to generational cohort theory, a generational cohort is assumed to have distinctive characteristics which are exclusively attached to that specific group (Brosdahl & Carpenter, 2011). In general, people born in the same period have similar values, beliefs, attitudes,

preferences, and behaviour (Parment et al., 2013). Based on these previous studies, it can be noticed that people in the same cohort of generation tend to have the same values, attitude, and behaviour.

Despite the utilization of the theory, however, there have been no consensus on the determination on range of period of each generation. Carpenter et al. (2012) argue that Silent Generation refers to a cohort of people who were born between 1925 and 1942, Baby Boomers born between 1943 and 1960, Gen-X born between 1961 and 1981, and Gen-Y, known as Millennials born between 1982 and 2000. Meanwhile, according to Twenge (2015), Gen-X born between 1961–1981, Gen-Y born between 1982–1991, and Gen-Z born between 1992–2000. This study utilizes the suggestion of Koksai (2019) and Shams et al. (2020) that determined Gen-X as a group of people who were born between 1965 and 1979, Gen-Y born between 1980 and 1994, and Gen-Z born between 1995 and 2000.

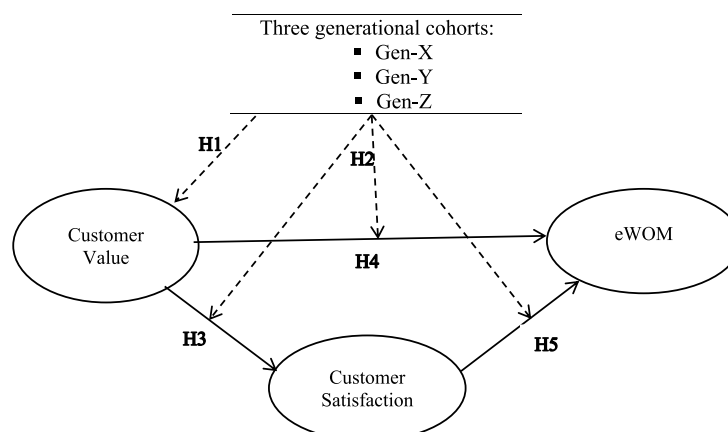
2.5. Proposed model and hypotheses development

Marketing strategy must be designed relevant to targeted market (Hunt & Arnett, 2004) based on segmentation approach (Bregman et al., 2005). This segmentation significantly contributes to the better understanding of consumer behaviour and demands (Zhou et al., 2020). One of market segmentation can be identified based on generational cohort (Chaney et al., 2017). Mannheim (1952) argue that although people of the same generation have experienced the same events, they may interpret them in different ways, so that generations are not homogenous. Therefore, it can be noticed that people from different generation tend to perform different attitude and behaviour. This study examines these differences, specifically the relationships among customer value, satisfaction, and eWOM (depicted in Figure 1).

Each segment of consumers tends to perceive different values (Bhatnagar & Ghose, 2004). Study by Parment et al. (2013) found that younger generational cohorts more likely select high prices with good quality and value. Parallel with this study, found that price sensitivity differs significantly between generations. In addition, Lo et al. (2020) investigate millennial consumers on their attitudes and behaviour toward restaurant. They suggest the menu information which customers value most, namely, nutrition and sustainability. In addition, Yarimoglu (2017) has identified that Gen-Y and Gen-Z perform different perception of service quality and value. Therefore, it is proposed that:

H1: There are significant differences in customer value which consist of (a) functional value, (b) social value, (c) emotional value, (d) safety value, and (e) information value perceived by three generational cohorts

Figure 1. Proposed model of study.



Marketing research should aim to improve understanding of characteristic, lifestyles, and attitudes and consumption behaviour of each generation (Williams & Page, 2011). They point out that Gen-Y and Gen-Z determined as generations who need constant change; therefore, they are difficult to retain. In addition, study by Wen-Chuah et al. (2017) suggest that Gen-Y is the most value-conscious, least satisfied, and loyal customers compared with all other generations. Although Gen-Y found to be less satisfied, WOM should be more effective for this generation. Based on these previous studies, each generation perceive different value and might exhibit different satisfaction and eWOM. Accordingly, it is proposed that:

H2: There are significant differences in relationships among customer value, satisfaction, and eWOM across three generational cohorts

Customer value is identified in the level of buy or not to buy a product (Holbrook, 1994), meanwhile satisfaction is a judgment made by consumers after buying a product (Sweeney & Soutar, 2001). Therefore, the decision to purchase (or not to purchase) the product occurs before consumers demonstrate their feelings. Previous studies found that customer value has a strong, positive influences on customer satisfaction (Martinez et al., 2019). According to Oliver (1993), customer value, theoretically, can be considered as a cognition-based construct capturing any benefit-sacrifice discrepancy, meanwhile customer satisfaction is primarily an affective and evaluative response. Customer satisfaction is the result of a customer's perception of the value received in a transaction or relationship (Guo et al., 2019). This is in agreement with Lapierre (2000) who support this view that providing customers with good value may be the only reliable way to achieve sustained customer satisfaction. Accordingly, it is proposed that:

H3: Customer value has a positive influence on customer satisfaction

Most conceptual and empirical contributions to value literature conceive a direct impact of customer value on behavioural outcomes which consist of repurchase intentions, searching for alternatives and WOM, neglecting the role of satisfaction (Eggert & Ulaga, 2002). According to Sheth et al. (1991), buying decision is determined by cognitive and affective factors in consumer markets. Hence, it can be argued that there is a direct link between customer value and behavioural outcomes since value involve cognitive and affective aspects. This is in line with the study by Wu (2014) who suggest that value lead to the increase WOM intentions. With the rapid development of information and smartphone technology, consumers can share their consumption experiences at any time on Internet including social media, or known as eWOM (Wu & Lin, 2017). Furthermore, Gruen et al. (2006) found that customer value has a positive and significant effect on eWOM and loyalty. Based on this discussion, it is proposed that:

H4: Customer value has a positive influence on eWOM

The effect of customer satisfaction on eWOM, as one of behavioural intentions, has been examined by previous research (Jeong & Jang, 2011; Muskat et al., 2019). As pointed out by Padma and Ahn (2020), guests' satisfaction has a positive impact on customers' word of mouth and revisit intentions. Parallel with this study, Chang et al. (2009) found that customer satisfaction is antecedents of repurchase intentions and WOM. To recommend to other people, consumers need experience to consume the purchase product, so they can evaluate and make a judgment towards the product. Satisfaction is one of the predictors to eWOM intentions (Ryu et al., 2010). Given that the customer is satisfied, the results would be positive evaluation (Soderlund, 2003), including positive eWOM. In addition, Ha and Jang (2013) suggest that satisfying consumption experiences

lead to more favorable future behavioural intentions, such as repurchase intention and positive WOM intention. Therefore, it is proposed that:

H5: Customer satisfaction has a positive influence on eWOM

3. Methodology

3.1. Data collection and analysis

Online survey was used to obtain data from consumers who purchased food from restaurant using online application during COVID-19 (i.e. March to May 2020). Pre-test of the questionnaire was conducted in May 2020; then, the final questionnaire was revised based on the pre-test feedback. The questionnaire was distributed using Google online survey application through social media such as WhatsApp, Facebook page to potential respondents across Indonesia, during the first week of June 2020. The online survey covered most provinces across Indonesia. In total, 865 responded to the survey; nevertheless, only 577 out of the 865 observations (66.7%) met the research criteria; hence, those were retained for analysis. To test the hypotheses, various analyses were used including correlation analysis, Analysis of Variance, and Structural Equation Modelling.

3.2. Psychometric properties

The structured questions used in this study were formulated both from existing measurements and information from the literature review. Metrics scale using 1–7 Likert scale was employed for questions related to the main variables of customer value, customer satisfaction, and eWOM. The measurement items for customer value were adopted from Sheth et al. (1991) with some minor refinements adjusted to the context of this study. The original measures consist of five components i.e. functional value, social value, emotional value, conditional value, and epistemic value. To measure functional, social, and emotional value, this study adopts the existing measures from previous studies (Jeong & Jang, 2011; Sweeney & Soutar, 2001; Talwar et al., 2020). To measure conditional value, this study has made adjustment to the situation or circumstances that the customer faces i.e. pandemic COVID-19. Items were developed using the concept of conditional value suggested by Sheth et al. (1991) consist of health safety, the restaurant concern for public health, and comply with health regulation. Based on these refined items, in this study, conditional value is labelled as safety value. The last component to measure customer value is epistemic value. Measure for epistemic value is based upon the existing literature put forward by Thome et al. (2018) that consist of new information (e.g., new menu items), novel information (e.g., price, healthy food, etc.), and substantial information (e.g., nutritional differences of food). In this study, these scales are defined as information value as suggested by Talwar et al. (2020). Hence, based on these adjustments, five scales of customer value employed in this study, namely, functional value, social value, emotional value, safety value, and information value.

To measure customer satisfaction, this study utilized overall satisfaction and expectation adapted from previous studies (Barrutia & Gilsanz, 2012; Han & Jeong, 2013; Oliver, 1980). The measures for positive eWOM were adopted from Yen and Tang (2015) which consist of recommended and shared information to other people regarding consumer experiences in purchasing food online from a restaurant. In addition, the determination of generational cohorts was adapted from Koksai (2019) and Shams et al. (2020).

Reliability and validity were examined to establish the psychometric properties of the instrument. The mean, standard deviation, correlations, coefficient alpha, and average variance extracted (AVE) for the constructs were presented in Table 2. Cronbach alphas for each factor were calculated with the ranges from 0.79 to 0.90. The examination of reliabilities reveals that all constructs demonstrate good reliability as indicated by the Cronbach Alpha values which are greater than 0.70 (Nunnally, 1978); thus, providing evidence that the measures were reliable. Discriminant validity was assessed using the Fornell and Larcker (1981) method. In this method, the covariances (between latent factors) were compared to AVE

Table 2. Psychometric properties of the constructs

Construct	A	1	2	3	4	5	6	7	8	9
(1) Functional value	.85	.54								
(2) Social value	.81	.34**	.64							
(3) Emotional value	.89	.54**	.12**	.71						
(4) Safety value	.89	.47**	.17**	.38**	.85					
(5) Information value	.84	.51**	.16**	.45**	.48**	.82				
(6) Customer sat (overall)	.88	.39**	.16**	.42**	.33**	.44*	.79			
(7) Customer sat (expect)	.85	.35**	.15**	.39**	.32**	.39**	.77**	.85		
(8) eWOM-recommend	.90	.30**	.36**	.15**	.27**	.22**	.31**	.25**	.90	
(9) eWOM-share	.79	.31**	.35**	.18**	.28**	.24**	.32**	.27**	.82**	.84
Mean		5.7	3.86	6.07	5.97	5.69	5.59	5.64	4.86	4.98
Std. Deviation		.79	1.25	.78	1.02	.98	.86	.88	1.43	1.31

** = $p < 0.01$. The diagonal (in italics) shows the Average Variance Extracted for each construct.

of the indicators of each variable. Discriminant validity is established if performed when the AVE is larger than the square root of the covariance. As presented in the table, discriminant validity was established for all constructs. In addition, average variance extracted of all constructs is greater than the threshold level of 0.50, these demonstrate convergent validity. Overall, psychometric properties were established for all constructs examined in this study.

4. Results and discussion

4.1. Respondent profile

Majority of respondents were Gen-Z (50%), most respondents (60.1%) purchased food via online for 1–5 times (as the least frequency), and 55% of respondents have reduced their online shopping due to the pandemic. In terms of restaurant types, 42% of respondents (the highest percentage) purchased food from fast casual restaurants. Type of food they purchased mainly were fast food (38%) and main dishes (36%). In addition, most of respondents (53%) used “GoFood” application in purchasing food via online.

4.2. Different perceptions of customer value components across three generational cohorts

Analysis of variance (ANOVA) was conducted to examine differences on perceptions of customer value components across Gen-X, Gen-Y, and Gen-Z. The results of hypotheses testing as shown in Table 3 indicate that there are no significant differences in the mean of functional value, social value, and emotional value as perceived by the generational cohorts; thus, H1a, H1b, and H1c were not supported. The results further indicate that there are significant differences in the mean of safety value and information value among Gen-X, Gen-Y, and Gen-Z; hence, the results support H1d and H1e. Specifically, Gen-X exhibits the highest mean of safety value (6.14, $p < 0.01$) compared to Gen-Y (6.11, $p < 0.01$) and Gen-Z (5.81, $p < 0.01$). Similarly, Gen-Y were shown to have the highest mean of information value (5.86, $p < 0.01$) compared to Gen-X (5.82, $p < 0.01$) and Gen-Z (5.53, $p < 0.01$).

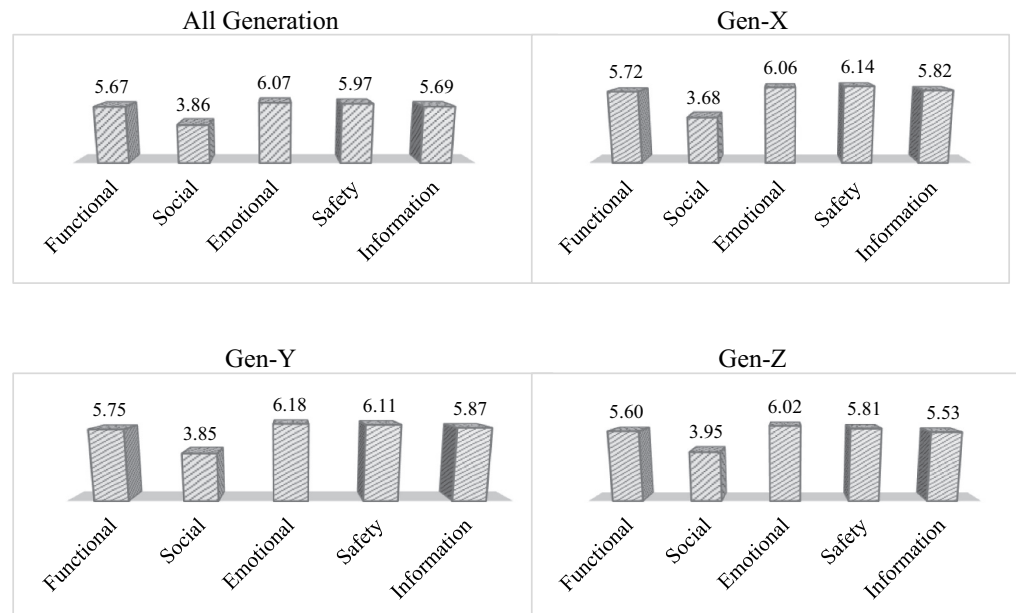
The finding of this empirical research has shown that Gen-X, Gen-Y, and Gen-Z perceived different value during COVID-19 (see, Table 3 and Figure 2). Each generation will respond differently to COVID-19 based on the experiences that generation has had (Rudolph & Zacher, 2020). Such experiences are assumed to have an impact on different attitudes, values, beliefs, motives, and behaviour (Chaney et al., 2017). Gen-X, the oldest generation investigated in this study, found to be the cohort that is most concerned with safety value compared to the other two cohorts. In purchasing food online, Gen-X will select restaurants that implement health safety standards, care for public health, and comply with health regulations. Rising health consciousness caused by COVID-19 will lead to increasing demands for food safety and balanced diets (Zwanka & Buff, 2020). Safety was ascribed by previous researchers as most important aspect perceived by consumers in their shopping behaviour (Josiam et al., 2005). Other reasons underlying this is

Table 3. Different perceived value among three generational cohorts

Components of Customer value	Total (n = 577)	Gen-X (n = 132)	Gen-Y (n = 156)	Gen-Z (n = 289)	F Ratio	Different Sets
Functional value	5.67	5.72	5.75	5.60	2.23(ns)	No differences
Social value	3.86	3.68	3.85	3.95	2.16(ns)	No differences
Emotional value	6.07	6.06	6.18	6.02	2.28(ns)	No differences
Safety value	5.97	6.14	6.11	5.81	6.88**	Gen-X> Gen-Y> Gen-Z
Information value	5.69	5.82	5.86	5.53	7.60**	Gen-Y> Gen-X> Gen-Z

* = $p < 0.05$, ** = $p < 0.01$, *** = $p < 0.001$. ns = not significant

Figure 2. Five components of value perceived by three generational cohorts.



because Gen-X is committed to family values, responsible for running households, taking care of children and caring for elderly parents (Taylor & Gao, 2014). They not only have to increase their personal health but also responsible for the lives of other family members. Our research suggests that COVID-19 has conveyed Gen-X perceive safety value as the priority in their decision making to purchase products in restaurant industry.

Gen-Z, the youngest generation examined in this study, is the cohort that has the lowest level of concern for safety value. This is in line with Perna's (2020) argument that Gen-Z was found to have least fear and low susceptibility to COVID-19. He points out that Gen-Z expresses the lowest concerns about corona virus, on the other hand, Gen-X is the cohort who are more anxiety about the virus. The value most sought by Gen-Z in purchasing food online from a restaurant is emotional value, which consists of enjoyment, convenience in putting order, payment, no need to cook, no need to dress up, and transaction security. Gen-Z is found to be pragmatic persons and fast-changing consumer technologies (Schwieger & Ladwig, 2018), wherein this type of persons will perceive for home-delivered food due to convenience reasons (Tomicruz & Flor, 2018).

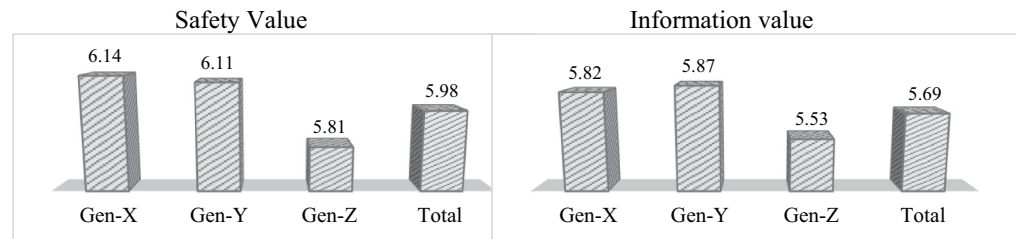
In addition to safety value, the results also indicate that there are significant differences in information value perceived by three generational cohort (see, Figure 3). Gen-Y is the cohort with the highest concern on information value. In purchasing food, Gen-Y will consider whether the restaurants provide new, novel, and substantial information about their offerings. This result contradicts to the study of Lo et al. (2020) who suggest that Gen-Y is the generation that is most conscious of sustainability and personal health issues in selecting restaurants. The different finding may be due to different conditions and focus of both researches. The study of Lo et al. (2020) was conducted in normal conditions and focus on Gen-Y segment, whereas our study was carried out during COVID-19 and expanded investigation on other generational cohorts.

4.3. The relationship among customer value, customer satisfaction, and eWOM across three generational cohorts

The results of hypotheses testing are presented in Table 4 which indicate that overall, there is a significantly different relationship among customer value, customer satisfaction, and eWOM between Gen-X, Gen-Y, and Gen-Z; hence, the result supports H2. Specifically, for Gen-X, customer value was confirmed to have a significant impact on customer satisfaction ($\beta = 0.37$, $p < 0.001$) and eWOM ($\beta = 0.35$,

Figure 3. Safety value and information value perceived by three generational cohorts.

Notes: significant *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$. not significant



$p < 0.001$), but customer satisfaction was not found to have a significant impact on eWOM. For Gen-Y, the results indicate a significant impact of customer value on customer satisfaction ($\beta = 0.52$, $p < 0.001$). Whereas customer value and customer satisfaction were not found to have a significant impact on eWOM. Furthermore, the results support the view of the impact of customer value on customer satisfaction for all respondents ($\beta = 0.61$, $p < 0.001$), Gen-X ($\beta = 0.37$, $p < 0.001$), Gen-Y ($\beta = 0.52$, $p < 0.001$), and Gen-Z ($\beta = 0.72$, $p < 0.001$) led to acceptance of H3. In addition, customer value was found to have a significant impact on eWOM ($\beta = 0.29$, $p < 0.001$), and customer satisfaction also found to have a significant impact on eWOM ($\beta = 0.17$, $p < 0.01$); therefore, H4 and H5 were accepted.

This study has empirically demonstrated positive and significant relationships among customer value, satisfaction, and eWOM (refer overall model depicted in Figure 4). However, this relationship does not apply the same for three generational cohorts. Our finding identified that only Gen-Z exhibits a common behaviour (the same as overall model), meanwhile Gen-X and Gen-Y perform differently. The results suggest that the higher the value perceived by Gen-Z, the higher their level of satisfaction; therefore, they are more likely to recommend and share to other people. This finding corresponds with those of prior studies (Chang et al., 2009; Martinez et al., 2019) which examined positive and significant relationship between perceived value, satisfaction, and WOM. Gen-Z is a unique and truly digital native generation, as they are always following the development of information and communications technology (Ghani et al., 2018). Although Gen-Y and Gen-Z like to work with the latest technology, the younger one is more technology addicted and technology savvy (Kolnhofer et al., 2017). This is the underlying reasons why Gen-Z is likely to recommend and share their experience electronically to other people (eWOM). This is in agreement with the study of Sladek and Grabinger (2014), when Gen-Z has a good or bad experience with a company, they are not going to keep it to themselves, but share their evaluation or judgment via smartphone, social media, and the Internet.

Different from Gen-Z, the results for Gen-X indicate that there is positive and significant relationship between perceived value and satisfaction. Customer value also performs significant effect on eWOM, but the effect of satisfaction on eWOM found to be not significant. It means that Gen-X has willingness to recommend and share their perceived value to other people. Gen-X does not need satisfaction as an evaluative judgment to proceed their intentions to do eWOM. This finding is in agreement with previous research who argue that customer value has a direct impact on behavioural intentions, including eWOM (Eggert & Ulaga, 2002; Gruen et al., 2006). These prior studies agree that there is a direct link between customer value and behavioural outcomes because value involves cognitive and affective aspects. This finding is in agreement with Roustai and Jamshidi (2020) study who point out the positive effect of tourist's local food consumption value on intention to recommend. Hence, it can be argued that the studies which examined customer value utilizing emotional scale in its measurement, it will have a direct effect on behavioural intentions.

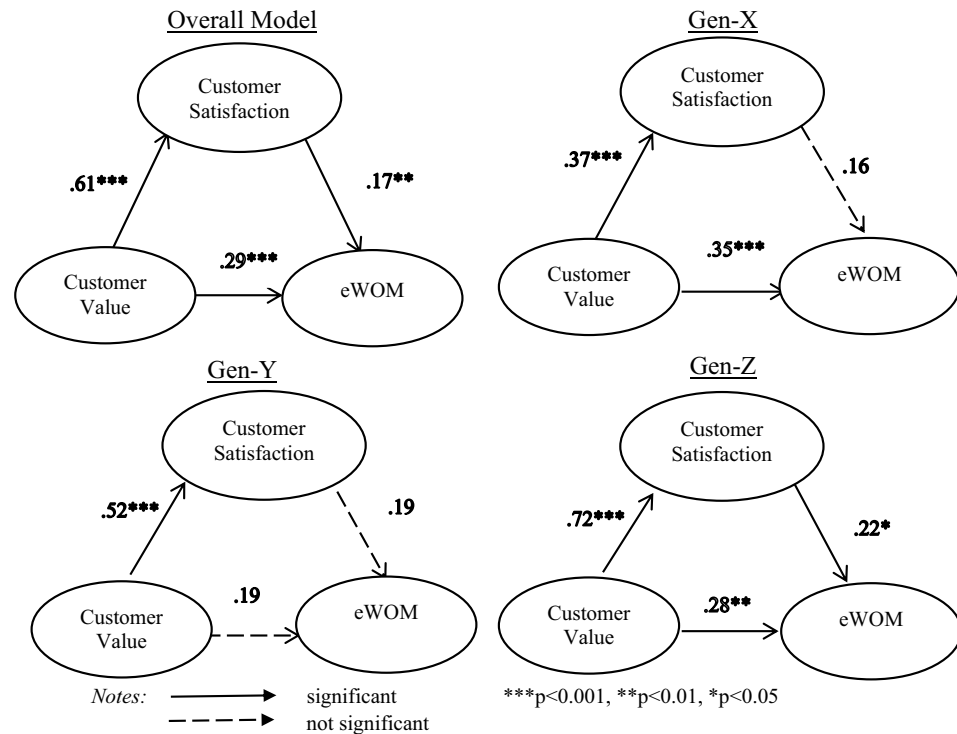
Unlike the other two generations, when Gen-Y perceives high value, they will perform high level of satisfaction, but do not have intentions to recommend and share their perceived value and satisfaction to other people. This finding indicates that Gen-Y is the most inexplicable cohort in their behaviour in terms of relationships among value, satisfaction, and intentions to do eWOM. The rationale behind this behaviour might be explained as follows. According to Kolnhofer et al. (2017), millennials are more pragmatic, embrace environmental protection, and they are self-

Table 4. Relationships among the variables

	Total (n = 577)			Gen-X (n = 132)			Gen-Y (n = 156)			Gen-Z (n = 289)		
	Estimate	P		Estimate	P		Estimate	P		Estimate	P	
CUSTVA = >CUSAT	.61	***		.37	***		.52	***		.72	***	
CUSTVAL = >EWOM	.29	***		.35	***		.19	.095		.28	.005	
CUSAT = >EWOM	.17	.003		.16	.055		.19	.066		.22	.020	
Model fit index	Cmin/df = 2.16; GFI = .98; AGFI = .97; RMSEA = .045			Cmin/df = 1.09; GFI = .97; AGFI = .96; RMSEA = .027			Cmin/df = 2.04; GFI = .94; AGFI = .93; RMSEA = .082			Cmin/df = 2.00; GFI = .97; AGFI = .96; RMSEA = .059		

* = $p < 0.05$, ** = $p < 0.01$, *** = $p < 0.001$; CUSTVAL customer value; CUSAT = customer satisfaction

Figure 4. The relationships among value, satisfaction and eWOM across three generational cohorts.



assured and achievement focused. Besides, study of Parment et al. (2013) suggest that Gen-Y has no emotional connection or loyalty. This finding is predictable, since “millennials believe rules are made to be broken and tend to be here today and gone tomorrow” (Gursoy et al., 2008).

5. Conclusions and implications

This study has compared the relationships among customer value, satisfaction, and e-WOM for generations X, Y, and Z in purchasing food using online delivery service. Three main findings can be concluded; first, responding to government regulation preventing COVID-19, the food online shopping pattern and frequencies are all declining and fast food are preferable than other food types. Second, further insights of this study indicate that there are differences in safety value and information value across Gen-X, Gen-Y, and Gen-Z. Gen-X shows the highest concern on safety value, and Gen-Y more concern on information value. However, there are no differences across those three generations in functional value, social value, and emotional value. Finally, the results indicate that there are relationships among customer value and customer satisfaction for all respondents, and across three generational cohorts. All groups show that there is impact of customer value on eWOM, except for Gen-Y. The impact of customer satisfaction on eWOM was not significantly performed by Gen-X and Gen-Y. In addition, the results of the proposed relationships among the three key constructs show similar findings between all respondents and Gen-Z. Due to the partial supports on the findings across three generational cohorts, careful interpretation must be taken.

5.1. Theoretical implications

Main contributions of this study are related to domain of market segmentation and online shopping behaviour. In responding to COVID-19 situation, this study contributes theoretically as follows: first, different value perceptions across three generational cohorts in food online shopping enriches the marketing literature on the different value appreciation among Gen-X, Gen-Y, and Gen-Z. In this sense, Gen-X is more concerned on safety value, since they are responsible for family, community, and workplace. While Gen-Y emphasized on informational value, Gen-Z did not specifically show any tendency to a particular value. Second, the results from the relationships among customer value, satisfaction, and eWOM offer contributions wherein the three cohorts show different responses to perceived value,

satisfaction, and eWOM. These different responses of each cohort in the structural model were empirically tested and worth the marketing knowledge, particularly contribute to market segmentation literature and consumer behaviour. In terms of segmentation, marketers are suggested to divide market segment not only based on demographics aspect, namely, age, but in more depth on generational cohorts. Therefore, they will be able to identify the behaviour of consumers including their motives and attitudes in purchasing a product.

5.2. Managerial implications

The results are likely to be most useful for restaurant managers/owners or managers from a similar context. First, restaurant managers and website providers should understand the target market fit well with their core products (food types, etc.). The COVID-19 has changed online food shopping behaviour; thus, managers need to proactively respond to different customers preferences. Second, as there are differences in the relationships among three main constructs, managers should not therefore treat customers in the same manner, and should properly consider customer value components (functional, emotional, social, safety, and information value) to better satisfy, and subsequently to positive eWOM. Overall, managers are suggested to implement better marketing strategy, maintain customer relationships, and make adjustments to the changes of market during pandemic, and the new normal situation.

6. Limitations and future research

Several limitations are acknowledged in this study. The limitations suggest that caution is needed in interpreting findings from this study, but they also indicate future research directions. First, this study adopts a descriptive research design using online survey to determine the degree to which the variables under investigation are associated. It would be beneficial also to conduct a qualitative research and offline survey. A qualitative research would deepen the understanding of customer perceived value across generational cohort. Second, the present study focused on customer value, customer satisfaction, and eWOM as the key constructs; surprisingly, some findings provide different directions. Hence, future studies are recommended to include other constructs as the predictors of eWOM behaviour; this would give a more holistic interpretation of the online shopping behaviour, particularly in restaurant industry. Third, three generational cohorts were focused on this study; future research should explore baby boomers in addition to the three generational cohorts. This additional segment would provide better explanations for relationships among the variables across different segments. Finally, the context of this study was the restaurant industry in Indonesia and during COVID-19. To establish robustness of the findings of this research, future research might explore the framework of the present study to be extended to different industry (i.e. hotel industry, tourism industry, etc.), in cross-cultural background (e.g., other eastern countries, western countries, other ethnicity background, etc.), and in a “normal” situation.

Funding

The authors received no direct funding for this research.

Author details

Wahyuningsih¹
E-mail: wahyuningsih.wahyuningsih@untad.ac.id
ORCID ID: <http://orcid.org/0000-0003-0831-7304>
Hanny Nasution²
Yulia Hendri Yeni³
Ratna Roostika⁴

¹ Department of Management, Tadulako University, Palu, Indonesia.

² Department of Marketing, Monash University, Melbourne, Australia.

³ Economic Faculty, Universitas Andalas, Padang, Indonesia.

⁴ Department of Management, Universitas Islam Indonesia, Yogyakarta, Indonesia.

Disclosure statement

No potential conflict of interest was reported by the author(s).

Citation information

Cite this article as: A comparative study of generations X, Y, Z in food purchasing behavior: the relationships among customer value, satisfaction, and Ewom, Wahyuningsih, Hanny Nasution, Yulia Hendri Yeni & Ratna Roostika, *Cogent Business & Management* (2022), 9: 2105585.

References

- Anderson, E. W., & Sullivan, M. W. (1993). The antecedents and consequences of customer satisfaction for firms. *Marketing Science*, 12(2), 125–143. <https://doi.org/10.1287/mksc.12.2.125>
- Athanassopoulos, A., Gounaris, S., & Stathakopoulos, V. (2001). Behavioural responses to customer satisfaction: An empirical study. *European Journal of*

- Marketing*, 35(5/6), 687–707 <https://doi.org/10.1108/03090560110388169>.
- Barrutia, J. M., & Gilsanz, A. (2012). Electronic service quality and value: do consumer knowledge-related resources matter? *Journal of Service Research*, 16(2), 231–246. <https://doi.org/10.1177/1094670512468294>
- Bendall-Lyon, D., & Powers, T. L. (2004). The impact of structure and process attributes on satisfaction and behavioural intentions. *Journal of Services Marketing*, 18(2), 114–121. <https://doi.org/10.1108/08876040410528719>
- Bhatnagar, A., & Ghose, S. (2004). Segmenting consumers based on the benefits and risks of Internet shopping. *Journal of Business Research*, 57(12), 1352–1360. [https://doi.org/10.1016/S0148-2963\(03\)101007/s11356-016-8355-9](https://doi.org/10.1016/S0148-2963(03)101007/s11356-016-8355-9)
- Biswas, A. (2017). A consumption value-gap analysis for sustainable consumption. *Environmental Science and Pollution Research*, 24(8), 7714–7725. <https://doi.org/10.1007/s11356-016-8355-9>
- Bolton, R. N., & Drew, J. H. (1991). A multistage model of customers' assessments of service quality and value. *Journal of Consumer Research*, 17(4), 375–384. <https://doi.org/10.1086/208564>
- Brady, M. K., & Robertson, C. J. (1999). An exploratory study of service value in the USA and Ecuador. *International Journal of Service Industry Management*, 10(5), 469–486. <https://doi.org/10.1108/09564239910289003>
- Brengman, M., Geuens, M., Weijters, B., Smith, S., & Swinyard, W. (2005). Segmenting Internet shoppers based on their Web-usage-related lifestyle: A cross-cultural validation. *Journal of Business Research*, 58(1), 79–88. [https://doi.org/10.1016/S0148-2963\(02\)101007/s11356-016-8355-9](https://doi.org/10.1016/S0148-2963(02)101007/s11356-016-8355-9)
- Brosdahl, D. J. C., & Carpenter, J. M. (2011). Shopping orientations of US males: A generational cohort comparison. *Journal of Retailing and Consumer Services*, 18(6), 548–554. <https://doi.org/10.1016/j.jretconser.2011.07.005>
- Carpenter, J., Moore, M., Doherty, A., & Alexander, N. (2012). Acculturation to the global consumer culture: A generational cohort comparison. *Journal of Strategic Marketing*, 20(5), 411–423. <https://doi.org/10.1080/0965254X.2012.671340>
- Chaney, D., Touzani, M., & Ben Slimane, K. (2017). Marketing to the (new) generations: Summary and perspectives. *Journal of Strategic Marketing*, 25(3), 179–189. <https://doi.org/10.1080/0965254X.2017.1291173>
- Chang, H. H., Wang, Y. H., & Yang, W. Y. (2009). The impact of e-service quality, customer satisfaction and loyalty on e-marketing: Moderating effect of perceived value. *Total Quality Management and Business Excellence*, 20(4), 423–443. <https://doi.org/10.1080/14783360902781923>
- Djalante, R., Lassa, J., Setiamarga, D., Sudjatma, A., Indrawan, M., Haryanto, B., Mahfud, C., Sinapoy, M. S., Djalante, S., Rafliana, I., Gunawan, L. A., Surtiari, G. A. K., & Warsilah, H. (2020). Review and analysis of current responses to COVID-19 in Indonesia: period of January to March 2020. *Progress in Disaster Science*, 6(4), 100091. <https://doi.org/10.1016/j.pdisas.2020.100091>
- Eggert, A., & Ulaga, W. (2002). Customer perceived value: A substitute for satisfaction in business markets? *Journal of Business & Industrial Marketing*, 17(2–3), 107–118. <https://doi.org/10.1108/08858620210419754>
- Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variable and measurement error. *Journal of Marketing Research*, 18(1), 39–50 <https://doi.org/10.2307/3151312>.
- Ghani, N., Mansor, M., & Zakariya, K. (2018). Gen Z's activities and needs for urban recreational parks *Journal of the Malaysian Institute of Planners*. 16(6), 141–152 DOI:10.21837/pmjjournal.v16.i6.469.
- Gremler, D. D., & Brown, S. W. (1999). The loyalty ripple effect. *International Journal of Service Industry Management*, 10(3), 271–293. <https://doi.org/10.1108/09564239910276872>
- Gruen, T., Osmonbekov, T., & Czaplewski, A. (2006). eWOM: The impact of customer-to-customer online know-how exchange on customer value and loyalty. *Journal of Business Research*, 59(4), 449–456. <https://doi.org/10.1016/j.jbusres.2005.10.004>
- Guo, C., Kulviwat, S., Zhu, J., & Wang, Y. J. (2019). Competing in an emerging market: Antecedents and consequences of market orientation and the role of environmental factors. *Journal of Strategic Marketing*, 27(3), 248–267. <https://doi.org/10.1080/0965254X.2017.1411386>
- Gursoy, D., Maier, T. A., & Chi, C. G. (2008). Generational differences: An examination of work values and generational gaps in the hospitality workforce. *International Journal of Hospitality Management*, 27(3), 448–458. <https://doi.org/10.1016/j.ijhm.2007.11.002>
- Ha, J., & Jang, S. (2013). Variety seeking in restaurant choice and its drivers. *International Journal of Hospitality Management*, 32(1), 155–168 DOI:10.1016/j.ijhm.2012.05.007.
- Han, H., & Jeong, C. (2013). Multi-dimensions of patrons' emotional experiences in upscale restaurants and their role in loyalty formation: Emotion scale improvement. *International Journal of Hospitality Management*, 32(1), 59–70. <https://doi.org/10.1016/j.ijhm.2012.04.004>
- Hobbs, J. E. (2020). Food supply chains during the COVID-19 pandemic. *Canadian Journal of Agricultural Economics*, April 68(2), 1–6. <https://doi.org/10.1111/cjag.12237>
- Holbrook, M. (1994). The nature of customer value: An axiology of services in the consumption experience. *Service Quality: New Directions in Theory and Practice*, 2(1), 21–71 <http://dx.doi.org/10.4135/9781452229102.n2>.
- Hultman, M., Yeboah-Banin, A. A., & Boso, N. (2019). Linking improvisational behaviour to customer satisfaction: The relational dynamics. *Journal of Business and Industrial Marketing*, 34(6), 1183–1193. <https://doi.org/10.1108/JBIM-11-2017-0298>
- Hunt, S., & Arnett, D. (2004). Market segmentation strategy, competitive advantage, and public policy: Grounding segmentation strategy in resource-advantage theory. *Australasian Marketing Journal*, 12(1), 7–25. [https://doi.org/10.1016/S1441-3582\(04\)101016/j.ijhm.2010.08.005](https://doi.org/10.1016/S1441-3582(04)101016/j.ijhm.2010.08.005)
- Jeong, E. H., & Jang, S. C. S. (2011). Restaurant experiences triggering positive electronic word-of-mouth (eWOM) motivations. *International Journal of Hospitality Management*, 30(2), 356–366. <https://doi.org/10.1016/j.ijhm.2010.08.005>
- Josiam, B. M., Kinley, T. R., & Kim, Y. K. (2005). Involvement and the tourist shopper: Using the involvement construct to segment the American tourist shopper at the mall. *Journal of Vacation Marketing*, 11(2), 135–154. <https://doi.org/10.1177/1356766705052571>
- Kim, W., Ng, C. Y., & Kim, Y. (2009). Influence of institutional DINESERV on customer satisfaction, return intention, and word-of-mouth. *International Journal of Hospitality Management*, 28(1), 10–17. <https://doi.org/10.1016/j.ijhm.2008.03.005>
- King, R. A., Racherla, P., & Bush, V. D. (2014). What we know and don't know about online word-of-mouth: A review and synthesis of the literature. *Journal of Interactive Marketing*, 28(3), 167–183. <https://doi.org/10.1016/j.intmar.2014.02.001>
- Koksal, M. (2019). Differences among baby boomers, generation X, millennials, and generation Z wine consumers in Lebanon: Some perspective.

- International Journal of Wine Business Research*, 31 (3), 456–472 DOI:10.1108/IJWBR-09-2018-0047.
- Kolnhofer, D. A., Reicher, R. Z., & Szeghegyi, A. (2017). The X and Y generations' characteristics comparison. *Acta Polytechnica Hungarica*, 14(8), 107–125. <https://doi.org/10.12700/APH.14.8.2017.8.6>
- Ladhari, R., Brun, I., & Morales, M. (2008). Determinants of dining satisfaction and post-dining behavioural intentions. *International Journal of Hospitality Management*, 27(4), 563–573. <https://doi.org/10.1016/j.ijhm.2007.07.025>
- Lapierre, J. (2000). Emerald article: customer-perceived value in industrial contexts customer-perceived value in industrial contexts. *Journal of Business & Industrial Marketing*, 15(2), 122–145 <https://doi.org/10.1108/08858620010316831>.
- Lo, A., King, B., & Mackenzie, M. (2020). Segmenting Chinese millennial restaurant customers: a lifestyle and health and environmental consciousness approach. *Journal of China Tourism Research*, 16(2), 183–213. <https://doi.org/10.1080/19388160.2019.1604281>
- Mannheim, K. (1952). *The problem of generations in essays on the sociological knowledge*. Oxford University Press.
- Martinez, A. R., Frasset, M., & Saura, I. G. (2019). How to measure B2B relationship value to increase satisfaction and loyalty. *Journal of Business and Industrial Marketing*, 34(8), 1866–1878. <https://doi.org/10.1108/JBIM-10-2018-0289>
- McDougall, G. H., & Levesque, T. (2000). Customer satisfaction with services: Putting perceived value into the equation. *Journal of Services Marketing*, 14(5), 392–410 <https://doi.org/10.1108/08876040010340937>.
- McQuitty, S., Finn, A., & Wiley, J. B. (2000). Systematically varying consumer satisfaction and its implications for product choice. *Academy of Marketing Science Review*, 10(1), 231–254 https://cdn.ymaws.com/www.ams-web.org/resource/resmgr/original_ams/mcquitty10-2000.
- Monroe, K. (1990). *Pricing: Making profitable decisions*. McGraw-Hill.
- Muskat, B., Hortnagl, T., Prayag, G., & Wagner, S. (2019). Perceived quality, authenticity, and price in tourists' dining experiences: Testing competing models of satisfaction and behavioural intentions. *Journal of Vacation Marketing*, 25(4), 480–498. <https://doi.org/10.1177/1356766718822675>
- Nasution, H. N., & Mavondo, F. T. (2008). Customer value in the hotel industry: What managers believe they deliver and what customer experience. *International Journal of Hospitality Management*, 27(2), 204–213. <https://doi.org/10.1016/j.ijhm.2007.02.003>
- Nicola, M., Alsaifi, Z., Sohrabi, C., Kerwan, A., Al-Jabir, A., Iosifidis, C., Agha, M., & Agha, R. (2020). The socio-economic implications of the coronavirus pandemic (COVID-19): A review. *International Journal of Surgery*, 78 2 (IJS Publishing Group Ltd.), 185–193. <https://doi.org/10.1016/j.ijsu.2020.04.018>
- Nunnally, J. (1978). *Psychometric Theory* (Second Ed ed.). McGraw-Hill Book Company.
- Oliver, R. L. (1980, November). A cognitive model of the antecedents and consequences of satisfaction decisions. *Journal of Marketing Research*, 17(4), 460–469 <https://doi.org/10.2307/3150499>.
- Oliver, R. (1993). of the satisfaction response. *Journal of Consumer Research*, 20(3), 418–430 <https://doi.org/10.1086/209358>.
- Padma, P., & Ahn, J. (2020). Guest satisfaction & dissatisfaction in luxury hotels: An application of big data. *International Journal of Hospitality Management*, 84 2020 , 1–8. <https://doi.org/10.1016/j.ijhm.2019.102318>
- Parment, A., Zwanka, R. J., Buff, C., Gursoy, D., Maier, T. A., & Chi, C. (2013). Generational differences: An examination of work values and generational gaps in the hospitality workforce. *International Journal of Hospitality Management*, 27(3), 189–199 doi:10.1016/j.ijhm.2007.11.002.
- Perna, M. Forbes Staff, (2020). COVID-19 is affecting every generation differently. *Forbes*, 1–7. <https://www.forbes.com/sites/markcperna/2020/04/23/covid-19-is-affecting-every-generation-differently/#3e9a39c17671>
- Ravald, A., & Grönroos, C. (1996). The value concept and relationship marketing. *European Journal of Marketing*, 30(2), 19–30 <https://doi.org/10.1108/03090569610106626>.
- Ritter, T., & Walter, A. (2012). More is not always better: The impact of relationship functions on customer-perceived relationship value. *Industrial Marketing Management*, 41(1), 136–144. <https://doi.org/10.1016/j.indmarman.2011.11.020>
- Rousta, A., & Jamshidi, D. (2020). Food tourism value: Investigating the factors that influence tourists to revisit. *Journal of Vacation Marketing*, 26(1), 73–95. <https://doi.org/10.1177/1356766719858649>
- Rudolph, C. W., & Zacher, H. (2020). . *Work, Aging and Retirement*, . <https://doi.org/10.1093/workar/waaa009>
- Ryu, K., Han, H., & Jang, S. S. (2010). Relationships among hedonic and utilitarian values, satisfaction and behavioural intentions in the fast-casual restaurant industry. *International Journal of Contemporary Hospitality Management*, 22(3), 416–432. <https://doi.org/10.1108/09596111011035981>
- Schwieger, D., & Ladwig, C. (2018). Information systems education journal a tribute to bart longenecker: an is education maverick and visionary 45. reaching and retaining the next generation: adapting to the expectations of Gen z in the classroom 55. increasing advocacy for information syst. *Information Systems & Computing Academic Professionals*, 16(3), 45–54 <https://dergipark.org.tr/en/pub/enad/issue/60131/871253>.
- Shaikh, A. (2020). Effective factors in changing the buying behaviour of consumer due to Covid-19. *Studies in Indian Place Names*, 40 68 , 408–414 <https://www.bmij.org/index.php/1/article/view/1819>.
- Shams, G., Rehman, M., Samad, S., & Oikarinen, E. (2020). Exploring customer's mobile banking experiences and expectations among generations X, Y and Z. *Journal of Financial Services Marketing*, 25(1–2), 1–13. <https://doi.org/10.1057/s41264-020-00071-z>
- Shankar, V., Smith, A. K., & Rangaswamy, A. (2003). Customer satisfaction and loyalty in online and off-line environments. *International Journal of Research in Marketing*, 20(2), 153–175. [https://doi.org/10.1016/S0167-8116\(03\)00016-8](https://doi.org/10.1016/S0167-8116(03)00016-8)
- Shaw, R., Kim, Y., & Hua, J. (2020). Governance, technology and citizen behaviour in pandemic: Lessons from COVID-19 in East Asia. *Progress in Disaster Science*, 6 2020 , 100090. <https://doi.org/10.1016/j.pdisas.2020.100090>
- Sheth, J. N., Newman, B. I., & Gross, B. L. (1991). Why we buy what we buy: a theory of consumption values: discovery service for air force institute of technology. *Journal of Business Research*, 22(2), 159–170 [http://dx.doi.org/10.1016/0148-2963\(91\)90050-8](http://dx.doi.org/10.1016/0148-2963(91)90050-8).
- Sladek, S., & Grabinger. (2014). Gen Z: The first generation of the 21st Century has arrived xyzuniversity. In *Next Generation Intelligence* (pp. 1–16).
- Slater, S. F., & Narver, J. (2000). Intelligence generation and superior customer value. *Journal of the Academy of Marketing Science*, 28(1), 120–127 <https://link.springer.com/article/10.1177/0092070300281011> .

- Smith, J. B., & Colgate, M. (2007). Customer value creation: A practical framework. *Journal of Marketing Theory and Practice*, 15(1), 7–23. <https://doi.org/10.2753/MTP1069-6679150101>
- Soderlund, M. (2003). The retrospective and the prospective mind and the temporal framing of customer satisfaction. *European Journal of Marketing*, 37(10), 1375–1390. <https://doi.org/10.1108/03090560310487158>
- Sweeney, J. C., & Soutar, G. (2001). Consumer perceived value: The development of a multiple item scale. *Journal of Retailing*, 77(2), 203–220 DOI:10.1016/S0022-4359(01)00041-0.
- Talwar, S., Dhir, A., Kaur, P., & Mäntymäki, M. (2020). Why do people purchase from online travel agencies (OTAs)? A consumption values perspective. *International Journal of Hospitality Management*, 88(September2019), 1–11. <https://doi.org/10.1016/j.ijhm.2020.102534>
- Taylor, P., & Gao, G. (2014). Generation X: America's neglected middle child. *Pew Research Center*, 5(June), 1–7 <https://www.pewresearch.org/fact-tank/2014/06/05/generation-x-americas-neglected-middle-child/>.
- Thome, K., Pinho, G., & Hoppe, A. (2018). Consumption values and physical activities: Consumers' healthy eating choices. *British Food Journal*, 121(2), 590–602. <https://doi.org/10.1108/BFJ-12-2017-0683>
- Tomacruz, M. D. G., & Flor, N. T. (2018). Family perception and their buying behaviour for home-delivered food. *International Journal of Tourism Sciences*, 18(4), 237–246. <https://doi.org/10.1080/15980634.2018.1551308>
- Tsao, W. C., Hsieh, M. T., Shih, L. W., & Lin, T. M. Y. (2015). Compliance with eWOM: The influence of hotel reviews on booking intention from the perspective of consumer conformity. *International Journal of Hospitality Management*, 46 2015 , 99–111. <https://doi.org/10.1016/j.ijhm.2015.01.008>
- Turner, J., & Aknremi, T. (2020). The business effects of pandemics – A rapid literature review. *Enterprise Research Centre*, 1(April), 1–24 <https://www.enterpriseresearch.ac.uk/wp-content/uploads/2020/04/ERC-Insight-The-business-effects-of-pandemics-%E2%80%93-a-rapid-literature-review-Final.pdf>.
- Twenge, J. (2015). Time period and birth cohort differences in depressive symptoms in the U.S., 1982–2013. *Social Indicators Research*, 121(2), 437–454. <https://doi.org/10.1007/s11205-014-0647-1>
- Ueltschy, L. C., Laroche, M., Tamilia, R. D., & Yannopoulos, P. (2004). Cross-cultural invariance of measures of satisfaction and service quality. *Journal of Business Research*, 57(8), 901–912 DOI:10.1016/S0148-2963(02)00294-1.
- Ullaga, W., & Chacour, S. (2001). Measuring customer-perceived value in business markets: a prerequisite for marketing strategy development and implementation. *Industrial Marketing Management*, 30(6), 525–540. [https://doi.org/10.1016/S0019-8501\(99\)00122-4](https://doi.org/10.1016/S0019-8501(99)00122-4)
- Wahyuningsih. (2011). Customer value, satisfaction and behavioural intentions: the effects of consumer search behaviour. *ASEAN Marketing Journal*, 3(1), 1–20. <https://doi.org/10.21002/amj.v3i1.2011>
- Walter, A., Thomas, R., & Gemunden, H. G. (2001). Value creation in buyer-seller relationships. *Industrial Marketing Management*, 30(4), 365–377 https://www.researchgate.net/publication/222551941_Value_Creation_in_Buyer-Seller_Relationships_Theoretical_Considerations_and_Empirical_Results_from_a_Supplier%27s_Perspective.
- Wang, Y., Lo, H., Chi, R., & Yang, Y. (2004). An integrated framework for customer value and customer-relationship-management performance: A customer-based perspective from China. *Managing Service Quality: An International Journal*, 14(2), 169–182. <https://doi.org/10.1108/09604520410528590>
- Wang, X., & Yu, X. (2019). The contradictory effects of customer participation breadth and depth on customer-perceived value. *Journal of Business and Industrial Marketing*, 34(8), 1736–1748. <https://doi.org/10.1108/JBIM-01-2019-0033>
- Wen-Chuah, S. H., Marimuthu, M., Kandampully, J., & Bilgihan, A. (2017). What drives Gen Y loyalty? Understanding the mediated moderating roles of switching costs and alternative attractiveness in the value-satisfaction-loyalty chain. *Journal of Retailing and Consumer Services*, 36(July2016), 124–136. <https://doi.org/10.1016/j.jretconser.2017.01.010>
- Williams, K. C., & Page, R. (2011). Marketing to the Generations. *Journal of Behavioural Studies in Business*, 3(1), 1–17. <https://doi.org/10.1080/0965254X.2017.1291173>
- Woodruff, R. (1997). Customer value: The next source for competitive advantage. *Journal of the Academy of Marketing Science*, 25(2), 139–153 <https://link.springer.com/article/10.1007/BF02894350>.
- Wu, H. C. (2014). The effects of customer satisfaction, perceived value, corporate image and service quality on behavioural intentions in gaming establishments. *Asia Pacific Journal of Marketing and Logistics*, 26(4), 540–565. <https://doi.org/10.1108/APJML-03-2014-0049>
- Wu, T., & Lin, C. (2017). Predicting the effects of eWOM and online brand messaging: Source trust, bandwagon effect and innovation adoption factors. *Telematics and Informatics*, 34(2), 470–480. <https://doi.org/10.1016/j.tele.2016.08.001>
- Yarimoglu, E. K. (2017). Demographic differences on service quality and perceived value in private online shopping clubs. *Journal of Strategic Marketing*, 25(3), 240–257. <https://doi.org/10.1080/0965254X.2017.1299784>
- Yen, C. L. A., & Tang, C. H. H. (2015). Hotel attribute performance, eWOM motivations, and media choice. *International Journal of Hospitality Management*, 46 2015 , 79–88. <https://doi.org/10.1016/j.ijhm.2015.01.003>
- Yi, Y. (1990). A critical review of consumer satisfaction. *Review of Marketing*, 4(1), 68–123 <https://deepblue.lib.umich.edu/handle/2027.42/36290>.
- Zauner, A., Koller, M., Hatak, I., & Walla, P. (2015). Customer perceived value—Conceptualization and avenues for future research. *Cogent Psychology*, 2(1), 1–17 DOI:10.1080/23311908.2015.1061782.
- Zeithaml, V. A. (1988). Consumer perceptions of price, quality. *Journal of Marketing*, 52(3), 2–22. <https://doi.org/10.2307/1251446>
- Zhou, J., Zhai, L., & Pantelous, A. A. (2020). Market segmentation using high-dimensional sparse consumers data. *Expert Systems with Applications*, 33 1 , 1–53. <https://doi.org/10.1016/j.eswa.2019.113136>
- Zwanka, R. J., & Buff, C. (2020). COVID-19 generation: a conceptual framework of the consumer behavioural shifts to be caused by the COVID-19 pandemic. *Journal of International Consumer Marketing*, 1–10. <https://doi.org/10.1080/08961530.2020.1771646>

Appendix

Study Measures	Measurement Items	Sources
Customer Value		Sheth et al., 1991
Functional Value	Hygiene food	Jeong & Jang, 2011
	Nutritious food to enhance immunity	
	Best quality food	
	Food with good flavor and taste	
	Attractive presentation of food	
	Variety of menu items	
	Current trends in menus	
	Uniqueness	
	Price fairness	
	Reasonable price	
Social Value	Gain social approval	Sweeney & Soutar, 2001; Thome et al., 2018
	Retain prestige	
	Make a good impression on other people	
	Give donation to other people	
	Share food to other people as a social responsibility	
Emotional Value	Enjoyment	Barrutia & Gilsanz, 2012; Sweeney & Soutar, 2001
	Transaction security	
	Convenience in putting order	
	Convenience procedure of delivery	
	Convenience in payment	
	Convenience (no need to cook)	
	Convenience (no need to dress up)	
Safety Value	Restaurant apply health safety	Sheth et al., 1991; Talwar et al., 2020
	Restaurant concern on public health	
	Restaurant comply with health regulations	
Information Value	New information (e.g., new menu items)	Talwar et al., 2020; Thome et al., 2018
	Novel information (e.g., price, healthy food, etc.)	
	Substantial information (e.g., nutritional differences of food)	
Customer Satisfaction		Barrutia & Gilsanz, 2012; Han & Jeong, 2013; Oliver, 1980
Overall satisfaction	All in all, I am very satisfied with the restaurant	
	I am pretty critical of the restaurant	
	In general, I am pleased with the service provided by the restaurant	

(Continued)

Study Measures	Measurement Items	Sources
	Overall, my feeling about buying food from the restaurant	
Expectation	The food I bought from the restaurant meet my expectations	
	The performance of food I bought from the restaurant meet my expectations	
eWOM		Yen & Tang, 2015
Recommend to other people using online platform	I would not miss an opportunity to tell others about this restaurant through online platforms	
	I am proud to tell others online that I bought food from the restaurant	
Share through online platforms	I would mention this restaurant to others through online platforms (e.g., Instagram, Facebook, Twitter, WhatsApp, Line, etc)	
	I would mention this restaurant more frequently than other restaurants I have bought food in my online posting (e.g., Instagram, Facebook, Twitter, WhatsApp, Line, etc)	
	I have only good things to post online about this restaurant	
Generational Cohort	Gen-X born 1965–1979 Gen-Y born 1980–1994 Gen-Z born 1995–2000	Koksal, 2019; Shams et al., 2020



© 2022 The Author(s). This open access article is distributed under a Creative Commons Attribution (CC-BY) 4.0 license.

You are free to:

Share — copy and redistribute the material in any medium or format.

Adapt — remix, transform, and build upon the material for any purpose, even commercially.

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made.

You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

No additional restrictions

You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.



***Cogent Business & Management* (ISSN: 2331-1975) is published by Cogent OA, part of Taylor & Francis Group.**

Publishing with Cogent OA ensures:

- Immediate, universal access to your article on publication
- High visibility and discoverability via the Cogent OA website as well as Taylor & Francis Online
- Download and citation statistics for your article
- Rapid online publication
- Input from, and dialog with, expert editors and editorial boards
- Retention of full copyright of your article
- Guaranteed legacy preservation of your article
- Discounts and waivers for authors in developing regions

Submit your manuscript to a Cogent OA journal at www.CogentOA.com

