

Social Media Marketing's Influence on Customer Loyalty: A Case Study of Siloam Hospital

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Abstract. Rapid technological developments are affecting the intersection of life and the nation's economy, causing a disruption in the way humans interact and communicate. This change affects the way in which economic activities are conducted place, especially in marketing, where customer retention is the most important objective. This study thereby determines whether social media has an influence on consumer loyalty by employing a quantitative approach with multiple regression. Data were collected by distributing questionnaires to 32 respondents who were inpatients at Siloam Hospital.

Keywords: social media, customer loyalty, customer, marketing, hospital

1 Introduction

Rapid development of technology has affected the intersection of life and national economy; it has also disrupted the way people communicate. The disruption of the way consumer information is distributed comes from the transition from print media to digital media. This transition has further modified the communication modes employed while socializing in the community. The Indonesian Association of Internet Service Providers reports that in 2017 the number of Internet users in Indonesia stood at 143.26 million users—an increase of 10 million users over 2016 (132.7 million users). It also indicated that the majority of Internet users have 72.41% more access to people in urban areas (https://tekno.kompas.com/read/2018/02/22/16453177/berapa-jumlah-pengguna-internet-indonesia).

According to *We Are Social*, which produces reports on social media, there are now 130 million active social media users on various social media platforms in Indonesia (https://tekno.kompas.com/read/2018/03/01/10340027/riset-ungkap-pola-pemakaian-medsos-orang-indonesia).

This change in how people consume new information affects how economic activities are performed, especially in the field of marketing where creating customer loyalty to a brand is of primary importance. According to Park and Seo (2018), social media is defined as an online application program, platform, or media that eases interactions, joint work, or content sharing.

Social media has largely been recognized as an effective mechanism, contributing to a company's marketing goals and strategy, especially in customer engagement, customer relationship management, and communication (Filo, Lock, and Karg, 2015). Alongside the generalization of social media in the society, researchers have studied the use of social media in society by asking users why they use social media, how much time they spend using it, and how much social media do they use over a given period (Bolton et al., 2013). According to the 90-9-1 rule for the use of social media, 90% of social media users only display content, 9% use social media to add comments, and only 1% add new content (https://www.theguardian.com/technology/2006/jul/20/guardianweeklytechnologysection2). Further, social media users can be entered as active users.

Social media plays a vital role in a company's marketing activities in terms of developing individual customer relationships, and it offers opportunities to reach customers (Kelly, Kerr, and Drennan, 2010). In the business environment, companies are expected to use social media in several aspects, particularly in interacting with customers, by facilitating information retrieval, interactivity, promotion, and manipulating customer's purchasing behaviors (Zeng and Gerritsen, 2014).

Bennet S. reported that approximately 93% companies have used innovative platforms and tools in their efforts to communicate with and serve their customers worldwide (http://www.adweek.com/digital/45-social-media-stats). With the increase of marketing with social media in various sectors, a large amount of research has been conducted related to the activities of social media marketing (SMM); most of the research focuses exclusively on the effects of SMM on customer satisfaction or behavioral intent (Sano, 2015). Although studies have suggested that the degree of customer loyalty is often higher when both the perceived company image and the company's reputation are favorable (Nguyen and Leblanc, 2001), social media has attracted the attention of

practitioners or researchers to have a better understand regarding how such applications can be successfully implemented to improve both image and reputation (Billings, 2014; Hardin, 2014; Hutchins, 2014).

A need to learn more about the key requirements arises for a successful implementation of such technology. Further, the required amount of investment in such applications requires to be determined (Hutchins, 2014). In this respect, Hutchins has staunchly emphasized the importance of researching the role of social media in different contexts to expand existing knowledge of issues important in social media's context (Hutchins, 2014).

Furthermore, the role of Facebook in improving customer loyalty was proven by Gamboa and Gonçalves (2014). According to this research, Facebook fans of the Zara brand had a higher confidence level, were more satisfied, experienced a higher value, and accordingly expressed more loyalty to Zara than those who did not follow the brand on Facebook. In general, customer satisfaction is often defined and measured to reflect certain settings and levels determined by every aspect of the purchasing process (Czepiel and Rosenberg, 1977). Customer satisfaction was considered an essential element for achieving customer loyalty (Oliver, 1999; Zeithaml, Berry, and Parasuraman, 1996a). The aforementioned research background has led to this study, which conducts research on the influence of SMM activities on customer loyalty.

2. Theoretical Background

2.1 SMM

According to Neti's (2011) study, SMM consists of attempts to use social media to persuade consumers of a company to purchase its products or services. SMM is a type of marketing that uses online communities, social networking, and marketing blogs. Moreover, there are three advantages to SMM. First, SMM provides marketers with the ability to not only promote current products or services but also to address consumer complaints and suggestions. Second, SMM makes it easy for marketers to identify various peer groups or influencers among different groups. Third, the use of SMM can be said to have zero cost because most social networking sites are not paid. For these reasons, SMM can be used to improvise customer loyalty (Neti, 2011).

The elements of social media are also discussed in several studies. Kim and Ko (2012) classify SMM features as entertainment, interaction, trend, personalization, and word-of-mouth advertising and apply these features to luxury brands. Sano (2014) employed research on applied interaction, trendiness, customization, and perceived risk as the four SMM components while researching on the tourism industry. Chang's (2012) comparative study of the performance characteristics of each medium (e.g., portals, blogs, and SNS) lists customer participation, representation of information, unique differentiation, content compliance, use of information, and customer feedback as the characteristics of social media. On the basis of the abovementioned studies, the SMM components are defined as entertainment, interaction, trends, personalization, and perceived risk for this study.

Entertainment can be defined as fun and play through social media (Agichtein, Donato Castillo, and Gionis, 2008). Some people use social media as their entertainment. Virtual communities exist to further this interest (Bagozzi and Dholakia, 2002; Manthiou, Chiang, and Liang (Rebecca) Tang, 2013). Virtual communities also include space for consumers to discuss and exchange ideas, and interactions through social media provide insight regarding the users who contribute to these platforms, which are usually associated with certain brands. These users meet in cyberspace and discuss specific products and/or brands (Muntinga, Moorman, and Smit, 2011).

Moreover, virtual communities offer latest news and information, making it a tool for users to search for the most practical products (Naaman, Becker, and Gravano, 2011). Consumers tend to trust information obtained through social media rather than through advertising involved in marketing or promotional activities. Therefore, there is confidence in the different types of social media that offer the latest product information (Mangold and Faulds, 2009). Trend is therefore defined as providing the latest information about products or services (Godey et al., 2016).

The level of adaptation indicates what new changes satisfy customer's needs (Schmenner, 1986). Customization in social media is derived on the basis of contact with individual users. This is a huge difference between social media and conventional advertising. It is possible to provide customers with individually optimized information generated by different sources. This practice is used as a strategy to reinforce customer satisfaction (Ding and Keh, 2016). Marketing through social media is also a tool for companies to communicate the uniqueness of their brands and for consumers to indicate their preferences and loyalty to certain brands (Martin and Todorov, 2010).

Previous research has identified the uncertainty associated with consumer behavior as a perceived risk (Bauer, 1960). However, social media reduces the uncertainty of this perceived risk because it allows consumers to connect with companies and check for new information (Sano, 2014). The perceived risk is selected as an SMM component particularly due to social media's ability to reduce anxiety or concerns felt by consumers.



2.2 Customer Satisfaction

Generally, customer satisfaction is often defined and measured by using specific settings, and the level of satisfaction is determined by examining every aspect of purchasing and consumption process (Czepiel and Rosenberg, 1977). In the context of intercity bus services, purchase decision and service provision are the two customer satisfaction elements that can be used to measure the extent to which passenger expectations have been met. Purchasing decision satisfaction refers to the evaluation of how well passengers are satisfied with their decision to choose a certain company, while customer satisfaction with the service is related to the evaluation of how well passengers are satisfied with the services provided by the company. Customer satisfaction is thereby considered as an essential element for maintaining customer loyalty (Oliver, 1999; Zeithaml, Berry, and Parasuraman, 1996a).

2.3 Customer Loyalty

To retain old customers and attract new customers in the services sector, customer loyalty includes their buyback intentions (behavioral loyalty) and their positive experiences and willingness to recommend a certain company's services and products to others (attitudinal loyalty) (Zeithaml, Berry, and Parasuraman, 1996b). These favorable behaviors and attitudes represent two essential aspects of customer loyalty (Mandhachitara and Poolthong, 2011; Martínez and Rodríguez del Bosque, 2013).

Research Model

The research model is explained in the figure below (Fig.1):

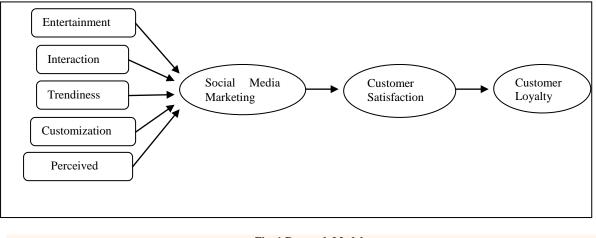


Fig. 1 Research Model

3. Method

The statistical package SPSS 19 was employed to test and analyze the hypothesized relationships of the research model. A questionnaire survey with a total of 22 items was employed to collect data from customers of Siloam Hospital.

3.1 Sample Design

The questionnaire used in this study was developed on the basis of a literature review; it examined the SMM of Premier Hospital concerning five marketing activities, namely, entertainment, interaction, trendiness, customization, and perceived risk. The survey also rated customer satisfaction for decision satisfaction and service satisfaction. Customer loyalty was rated for behavioral loyalty and attitudinal loyalty.

Concept	Variable	Item
SMM Activity	Entertainment	 This hospital's social media platforms are fun. The content shared by the social media platforms of this hospital is

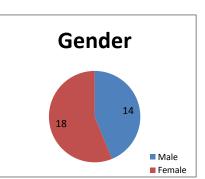


		enjoyable.
	Interaction	 It is possible to share information on the social media platforms of this hospital. Discussion and exchange of opinions is possible on the social media platforms of this hospital. Expressing opinions is easy on the social media of this hospital.
	Trendiness	 The information that is shared on this hospital's social media is current. The use of social media by this hospital is in fashion.
	Customization	 I can find the information that I need on this hospital's social media platforms. This hospital's social media platforms provided the information I needed.
	Perceived Risk	 This hospital's social media has taken away my concern(s) about the hospital's service. This hospital's social media has alleviated my concern(s) about the use of the hospital
Customer Satisfaction	Decision Satisfaction	 I have always had a satisfactory experience with this company. I think choosing this company is a good decision.
	Service Satisfaction	 The services of this company always meet my needs. I love the services of this company. In general, I am satisfied with the services of this company.
Customer Loyalty	Behavioral Loyalty (Customer Repurchase Intention)	 I am a loyal customer of this company. I intend to remain a customer of this company This company was my first choice when I needed hospitalization.
	Attitudinal Loyalty (Positive Tendency And Willingness To Recommend Companies To Others)	 I will probably say positive things about this hospital. I will recommend this hospital to my relatives and friends. I will recommend this hospital if asked by others.

4. **Results and Discussion**

4.1 **Respondent Characteristics**

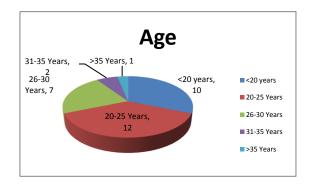
4.1.1 Gender





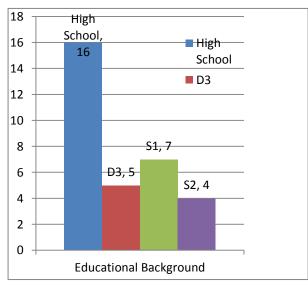
This study consisted of 32 respondents (18 women and 14 men).

4.1.2 Age



Of all, 12 respondents of the research were between 20 and 25 years old, 10 respondents were <20 years old; 7 respondents were 26–30 years old, 2 respondents were 31-35 years, and 1 respondent was >35 years old. This research notably consisted of young respondents of this hospital.

4.1.3 Education



On the basis of the

information provided by

the respondents concerning their formal education, the majority of the respondents had a high school education; and the remainder of the respondents had advanced degrees. With 7 respondents had completed their degree courses, 5 respondents had completed their diploma courses, and at least 4 respondents had completed their masters.



4.2 Social Media Components

4.2.1 Entertainment Dimension

No.	Indicator	Mean	Rating
	I am delighted when interacting with the hospital's		Tallish
1.	social media platforms.	4.25	
2.	I enjoy all the content shared on this hospital's social media platforms.	4.28	Tallish

The aforementioned table exhibits that the average ratings the respondents gave to the entertainment component ranged from 4.25 to 4.28. On the basis of these ratings, the mean value was considered to be high; this displays that the respondents did not experience lack of entertainment while communicating with hospital social media platforms.

4.2.2 Interaction Dimension

No.	Indicator	Mean	Rating
	This hospital's social media platforms allow me		
1.	to share information.	4.66	High
	Access to this hospital's social media platforms		
	allows me to discuss and share information		
2.	related to health.	4.41	High
	This hospital's social media platforms allow me		
3	to express my opinion.	4.34	High

In the aforementioned table, all the indicators have high ratings, with response No. 1 receiving the highest rating. With a mean value of 4.66, the respondents agreed that "This hospital's social media platforms allow me to share information." Because mean on this question is higher than on other indicators this indicates that social media is the medium of communication that can increase information sharing among consumers.

4.2.3 Trendiness Dimension

No.	Indicator	Mean	Rating
	In my opinion, the information shared through this		
1.	hospital's social media is up to date.	4.66	High
	Access to the hospital's social media is part of my		
2.	lifestyle.	3.75	High

The abovementioned table represents that the mean of all indicators are high in this category. The highest value is obtained for No. 1; with its mean value 4.66, the respondents said: "In my opinion, the information shared through this hospital's social media is up to date." Because mean value of No. 1 is higher than other indicators, it suggests that the interaction in the high social media is the medium of communication that can increase sharing information to each other.

4.2.4 Customization Dimension

No.	Indicator	Mean	Rating
1.	I can find the information I need on this hospital's	4.53	High

		social media.		
2	Social media platforms of information that I need.	this hospital provides	4.44	High

The abovementioned table's indicator means are ranked high, with No. 1's rating being the highest. The respondents gave "I can find the information I need on this hospital's social media." a mean value of 4.53. Because mean value of this question is higher than other indicators, it suggests that customization of the hospital's social media platforms, as the medium of communication, enables sharing of any health-related information.

4.2.5 Perceived Risk Dimension

No.	Indicator	Mean	Rating
	The information I need, I can find on social media this		
1.	hospital	4.09	Tallish
2.	Social media this hospital provides information I need	4.22	Tallish

From table above shows that the average level of the respondents of the indicators of the dimensions of entertainment ranged from 4.09 until 4.22. Based on the categories, its mean value shows are in category, somewhat high this shows that the respondents did not reflect fell low risk perception on while communicating with hospital social media.

4.2.6 Decision Satisfaction Dimension

No.	Indicator	Mean	Rating
1.	I always have a satisfying experience at this hospital.	4.41	High
2.	I chose this hospital because I think this is a good choice.	4.44	High

This table displays that the mean values of all indicators are rated high, with indicator No. 2 having the highest mean. The respondents said, "I chose this hospital because I think this is a good choice." They gave it a mean value of 4.44. Because mean value of this question is higher than on other indicators, it can be concluded that respondents were satisfied about their decision of choosing this hospital.

4.2.7 Service Satisfaction Dimension

No.	Indicator	Mean	Rating
	Services at this hospital always meet my		
1.	needs.	4.31	Tallish
2.	I love the services provided in this hospital.	4.34	High
	On the whole, I am satisfied with the		
3.	services provided by this hospital.	4.44	High

This table suggests that the mean values of two indicators within the table are rated high, and one indicator is tallish. No. 3 has the greatest mean value, 4.44. The respondents said, "On the whole, I am satisfied with the services provided by this hospital." Because the mean value for this question is higher than the other indicators, it suggests that the respondents' are satisfied with service the hospital services.

4.2.8 Behavioral Loyalty Dimension

No.	Indicator	Mean	Rating
1.	I was a loyal customer to this hospital.	4.09	Tallish



2.	I will always be a customer of this hospital.	3.88	Tallish
3.	This hospital is my first choice when I need a hospital.	4.03	Tallish

This table shows that the average mean values of the indicators ranged from 3.88 to 4.09. These mean values are somewhat high; this shows that the respondents did not choose the hospital as their first choice just because of the hospital's social media platforms.

4.2.9 Attitudinal Loyalty Dimension

No.	Indicator	Mean	Rating
1.	I will make positive comments about this hospital.	4.66	High
	I would recommend this hospital to my family		
2.	members and relatives.	4.59	High
3.	I would recommend the hospital to others.	4.66	High

This table suggests the mean values of all indicators of willingness to recommend the hospital are high while No. 1 and No. 3 share the highest value (4.66). No. 1 indicates that the respondents were willing to make positive comments about the hospital, and No. 3 indicates that they will recommend it to others. Because mean value of this question is higher than on other indicators, it indicates that the respondents will provide positive feedback for the hospital's social media platforms.

The table mentioned below tests the hypothesis of the influence of social media on customer loyalty.

Description	Coef. Regression	R^2	T Score	Sig.	Hypothesis
SMM Influence on Customer Loyalty	0.712	0.508	5.561	.000	ACCEPTED

Significancy score at 0.000 below 0.05 and score of t calculation > t table, 5.561 > 1.659. The study thereby concludes that SMM influences customer loyalty. R^2 score exhibits that SMM influences customer loyalty (50.8%); however, customer loyalty is also affected by the other's factor such as discount, reward, consumer behavior, and product price (49.2%).

5. Conclusion

This study understands the influence of SMM on customer loyalty. On the basis of the analysis of this study, we can conclude the following social media does influence customer loyalty; this exhibits that the use of social media has aided in maintaining consumer. Further, R^2 score reveals that SMM influenced customer loyalty (50.8%), and other factors such as discount, reward, consumer behavior, and product price also influenced customer loyalty (49.2%).

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