



Interplay between air passengers' service quality, satisfaction, loyalty and loyalty programmes in South African owned airlines

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© 2017. The Authors. Licensee: AOSIS. This work is licensed under the Creative Commons Attribution License. **Orientation:** Delivering service quality is crucial for the continuous operation and sustainability of South African owned airlines. The term 'South African owned airlines' refers to six South African owned registered airlines, and is used for purpose of anonymity and confidentiality.

Research purpose: The main aim of this study was to examine the interplay between service quality delivery, satisfaction, loyalty programmes and passengers' loyalty to South African owned airlines.

Motivation for the study: Intended to provide insight into quality to society of airline services, the global airline industry in general and the airline industry in South Africa in particular.

Research approach, design and method: A quantitative research approach was adopted, using a cross-sectional (sample survey) method. Empirical data was directly collected by the researchers from 684 passengers at O.R. Tambo International Airport in Johannesburg and King Shaka International Airport in Durban using a non-probability random sampling technique.

Main findings: The study's main findings were that: (1) generally, passengers of South African owned airlines were satisfied with the airlines' service quality and rated such satisfaction as moderate to high. (2) Only 22% of passengers were part of a loyalty programme. However, in the South African context, loyalty programme membership is not indicative of passengers' loyalty to airlines: 86% of the respondents stated that they are consistently loyal to the airlines (3). There was no association between passengers' loyalty and frequency of travel. (4) South African passengers have limited choice of airlines; therefore, loyalty and patronage does not lean towards a particular airline.

Practical implications: By offering superior service quality to passengers, South African owned airlines could gain competitive advantage ongoing patronage and loyalty, thus increasing overall profitability.

Contributions: This study provides cognitive information, which management could use to design new marketing strategies to enhance loyalty in the airlines in South Africa and globally.

Introduction

This article examines service quality, passenger satisfaction, loyalty programmes and passenger loyalty to the South African owned airlines listed in Table 1. As in the global airline marketplace, passengers are the key constituents of the South African airline industry. Therefore, providing service excellence and quality should be the airlines' main fiduciary duty and responsibility. From a passenger's perspective, excellent service quality induces customer satisfaction and future loyalty and patronage. From an airline's perspective, providing service quality promotes competitive advantage and increases the prospect of enjoying ongoing passenger patronage and loyalty (Steven, Dong & Dresdner 2012:743). In the global airline industry, loyalty or frequent flyer programmes are widely used to build stronger links with customers (Keller 2013:189). The rationale is: 'identifying, maintaining, and increasing the yield from a firm's best customers through long-term, interactive, value-added relationships' (Keller 2013:189).

The rewards offered by frequent flyer programmes include accumulation of flight miles for future redemption against discounted or cheap flight tickets, affiliation with star alliances, special rewards for frequent flyers, hotel accommodation, special holiday packages, car rentals, credit cards and mobile phones. While some airlines faithfully honour their promises, others renege on

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TABLE 1: South African owned airlines.

Pseudonym	Type of service(s)	Area of operation
Airline G	LCA	Domestic & regional cities
Airline X	LCA/TA	Global, regional & domestic cities
Airline C	LCA	Domestic & regional cities
Airline T	LCA/TA	Domestic & regional cities
Airline Y	TA	Global
Airline Z	LCA/TA	Domestic & regional cities
Others ^a	-	-

Source: Created by the researcher from Luke and Walters (2013:1-11)

LCA, low cost airlines; TA, traditional airlines.

them (Pfeffer 2014:2). Occasionally, loyalty programmes are shrouded in secrecy and lack transparency. The average passenger lacks information on the procedures and rewards, let alone how and when to claim such rewards. Consequently, some passengers are unenthusiastic and sceptical about loyalty programmes. The real benefit of airline loyalty programmes is debatable among passengers, academics and industry players. There are two schools of thought. One holds that loyalty programmes are beneficial to passengers and airlines while the other contends that they are of little value due to failure to follow through on promises. According to Pfeffer (2014:1), 'airline mileage programs are designed to be psychologically attractive, even addictive, to customers ... but as their benefits have decreased, so too has passengers' loyalty'. There is a paucity of research on the interplay between airline service quality, passenger satisfaction and loyalty programmes and passenger loyalty in South Africa. The study thus aimed to (1) evaluate the level of service quality satisfaction in relation to passenger loyalty in the South African airline industry, (2) determine if passengers' membership of loyalty programmes is indicative of loyalty and patronage of South African owned airlines, (3) determine the effect of the gaps in quality service delivery on passengers of South African owned airlines and (4) determine the correlation between frequency of travel and South African owned airlines' loyalty programmes. The study thus contributes to the body of knowledge by examining the subject from a South African perspective.

Theoretical model and hypothesis

Given the lack of a specific, inclusive model for the airline industry, this study adopted the SERVQUAL and Gaps models to evaluate South African owned airlines. Created by Parasuraman, Zeithaml and Berry (1985:41-50, 1988:12-40), the SERVQUAL model was custom-made to measure service quality expectations and perceptions (Pakdil & Aydim 2007:227–237). It provides generic observations about service quality evaluation and is designed for applications in various industries (Lo, Wu & Tsai 2015:169; Metters, King-Metters Pullman & Walton 2006:185; Naidoo 2015:40-60; Schneider & White 2004:31). The original 10 SERVQUAL dimensions were 'tangibility, responsiveness, access, competence, reliability, courtesy, communication, credibility, security, understanding/knowing the customer' (Parasuraman et al. 1985:12–40). However, the dimensions are collapsed into five, which are tangibility, responsiveness, reliability, assurance

and empathy (Fitzsimmons & Fitzsimmons 2011:116; van Iwaarden et al. 2003:919; Naidoo & Mutinta 2014:219; Shahin 2006:4).

The expectation under the SERVQUAL model (Parasuraman et al. 1985:12-40) is that customers will be happy with the services delivered to them. Therefore, in this study the SERVQUAL and Gaps models (Lovelock & Wirtz 2011:406; Parasuraman et al. 1985:41-50, 1988:12-40) were deployed to appraise service quality delivery in terms of air passengers' satisfaction. The customer evaluates service quality by determining the (dis)similarity between expected and perceived services (Lo et al. 2015:169; Shahin 2006:2). Customer satisfaction is measured as either negative or positive depending on the gaps between the expected and the perceived service rendered by the firm (Lo et al. 2015:169; Shahin 2006:2). While the SERVQUAL model is used extensively as a diagnostic model for evaluating service quality for customers (Sahney, Banwet & Karunes 2004:143), Ladhari (2009:172) criticised it for certain theoretical, conceptual, operational and empirical deficiencies. In order to provide a proper analysis, the following hypotheses, H1, H2, H3 and H4, are posed based on the empirical findings of the study, the theoretical models and existing literature on the subject.

H1: There is general service quality satisfaction among passengers of South African owned airlines.

H2: Passengers' membership of loyalty programmes does not guarantee their loyalty and patronage of South African owned airlines.

H3: Service quality gaps in South African owned airlines have no effect on passengers' loyalty and patronage.

H4: There is no significant association between passengers' travel frequency and the loyalty programmes offered by South African owned airlines.

Literature review

This review examines the relationship between airline services quality, satisfaction, passengers' loyalty and loyalty programmes in the airline industry from a South African perspective. The discussion commences with concepts of service quality. The most general description of service quality is the extent to which service provision satisfies customer requirements or expectations (Wang et al. 2011:419-437; Wisniewiski 2001:380). Parasuraman et al. (1985:41-50, 1988:12-40) considered 'the divergence between customer expectations of service and the perceived service' in examining service quality. The evidence shows that service quality is an antecedent to customer loyalty from the perspective of airline service quality (Chen & 'Sunny' Hu 2013:1087; Naumann 2011:21). Chen & 'Sunny' Hu (2013:1087) hypothesise that service quality relates positively to customer loyalty. Customer loyalty is considered to be

a, new airlines that were not operating at the time writing this article.

a psychological character formed by the sustained satisfaction of the customer coupled with emotional attachment formed with the service provider that leads to a state of willingly and consistently being in the relationship with preference, patronage, and premium. (Rai & Medha 2013:141)

Kotler and Keller (2012:149) define customer loyalty as 'a deeply held commitment to re-buy or re-patronise a preferred product or service in the future despite situational influences and marketing efforts having the potential to cause switching behaviour'.

According to Piercy (2009), customer loyalty can be examined from two conceptual perspectives: customer satisfaction and customer loyalty. Customer satisfaction is centred on attitude: how customers perceive the quality of the product or the service they receive from the firm (Baker 2013:71; Chikwendu, Ejem & Ezenwa 2012:117). On the other hand, customer loyalty centres on behaviour – how long the firm keeps the customer and the extent to which the customer patronises the firm's goods and services (Harrison & Van Hoek 2011:52; Piercy 2009:16). Indeed, customer loyalty is the pillar of viable competitive and sustainable advantage in the service sector (Chen & 'Sunny' Hu 2013:1087). In view of the fact that there is minimal differentiation in the airline industry that hinges on fares and prices and frequent flyer programmes, airlines rely more on customer loyalty and customer relationship management (CRM) to establish their unique identity or brand (De Meyer & Mostert 2011:80). This ultimately results in competitive advantage, increased customer loyalty and increased market share (Archana & Subha 2012:51).

Loyalty and customer satisfaction

The key driver of customer loyalty is customer satisfaction as a consequence of excellent service quality, which leads to an increased customer base for the service firm (Johnson, Sivadas & Garbarino 2008:353; Reinartz & Kuma 2002:86). An exceedingly satisfied customer who is gratified with the services provided by a service firm will possibly become a loyal promoter of the firm; this is applicable to the airline industry (Terblanche 2015:200). Satisfied customers will strengthen their buying blueprint with that service firm while also disseminating positive confirmatory word-of-mouth information to would-be customers about the service provider (Terblanche 2015:200). In contrast, dissatisfied customers deride the service firm, discouraging potential customers; this is one of the factors that contribute to customer switching behaviour (Berndt & Brink 2004:25). Service firms delivering better quality services to customers gain customer loyalty, enhancing profitability and reducing service failure (Namukasa 2013:529).

According to Steven et al. (2012:743), service firms' profitability may improve through customer repurchase behaviour, which is a consequence of customer satisfaction. Some satisfied passengers may willingly pay higher than normal price for services that are of exceptionally higher quality; this further enhances profitability (Martin, Roman & Espino 2008:199). Since the profitability of most airlines

depends predominantly on customer loyalty, excellent service quality should be pivotal (De Meyer & Mostert 2011:79). This requires that South African owned airlines constantly re-evaluate the connection between service quality provision and customer satisfaction. Empirical evidence confirms that there is a positive connection between customer satisfaction and customer loyalty (Johnson et al. 2008:353; Mohan, Choi & Min 2008:265; Namukasa 2013:530). Consequently, airline companies should endeavour to please passengers by avoiding service failure, thus maintaining continuous patronage (Nikbin et al. 2015:240).

Passengers switching loyalty and patronage

Information empowers passengers to switch loyalty and patronage should they be dissatisfied with any aspect of airline services (Ahadmotlaghi & Pawar 2012:3; Archana & Subha 2012:51). 'Consumers are better educated and informed than ever, and they have the tools to verify companies' claims and seek out superior alternatives' (Urban 2004:77-82). Due to the volume of information at their disposal, there is a high probability of passengers switching to other airlines (Mantey 2015:8). Furthermore, some passengers spread negative word-of-mouth information about poor service quality to potential passengers, which may damage the standing of the airline company (Nikbin et al. 2015:340). The competitive nature of the airline industry calls for improved ways of delivering sustainable competitive advantage strategies (Chen & 'Sunny' Hu 2013:1084, 1086; Siu, Zhang & Yau 2013:675). A firm's service delivery vision and organisational culture should be designed to ultimately provide customer value to the passenger (De Meyer & Mostert 2011:42-79; Duchessi 2002:10).

Customer value and airline passengers

Airline passengers expect to receive valuable services from airlines at all times. Customer value in respect of airlines may be considered as the extent to which the passenger receives value for money after the performance of the service (De Meyer & Mostert 2011:80; Duchessi 2002:10). This means that the passenger received quality service at a reasonable or low price, the desired service expectation was achieved and the service received was top class and commensurate with the price paid (Zeithaml, Bitner & Gremler 2006:35). The motivation for air passengers to switch loyalty and patronage to competitors is the desire for service excellence and attainment of customer value (Archana & Subha 2012:51). Despite the intricacies involved in meeting customers' expectations, airlines should endeavour to satisfy such expectations, because their competiveness and sustainability thrive on passenger satisfaction and customer value or value for money received (Park, Robertson & Wu 2004:435).

Methods

The target population for this study consisted of passengers (domestic and international) from the 17 400 000 people (Airports Company of South Africa[ACSA] 2014:114) who

annually travelled through the O.R. Tambo Airport in Johannesburg and King Shaka Airport in Durban. In view of the fact that the target population of passengers was large and there was no database on the passengers to delineate specific South African owned airline passengers in the population, a non-probability sampling technique was used (Sekaran & Bougie 2013:252). This study adopted a quantitative research approach using a cross-sectional (sample survey) method. Convenience sampling is a type of non-probability sampling in which people are sampled because they are 'convenient' sources of data for the researcher (Battaglia & Lavrakas 2013:149; Sekaran & Bougie 2013:252).

In convenience sampling the representativeness of the sample is generally less of a concern. ... A researcher may want data collected quickly using a low-cost method that does not involve scientific sampling. (Battaglia & Lavrakas, 2013:149)

Non-probability techniques were used in similar studies in the South African airline environment by Campbell and Vigar-Ellis (2012:97–119) and Mostert, De Meyer and van Rensburg (2009:118–140); this justifies its adoption for the current study. Primary data were directly collected from 684 passengers at O.R. Tambo International Airport in Johannesburg and King Shaka International Airport in Durban. A five-point Likert-scale questionnaire (instrument) was developed that was adapted from the SERVQUAL model, with closed-ended statements and questions. The survey questionnaires were personally distributed by the researchers to passengers who confirmed they had travelled with South African owned airlines in the past months. Effort was also made to avoid double counting, by not sampling passengers twice in the respective airports. Both descriptive and statistical data were manipulated and presented.

The instrument for this study was tested by calculating the Cronbach's alpha coefficient, which confirmed the alpha reliability and validity of the data collection instrument. The Cronbach's alpha score was 81%, which revealed a very reliable instrument. The instrument reliability for the Cronbach's alpha coefficient test is typically estimated between 0.00 and 1.00; a test result from 0.70 to 1.0 (or above 70%) is acclaimed by scholars as reasonably feasible for data collection (DeVellis 2003; Nunnally 1978).

Discussion and analysis

This section discusses the findings of the study beginning with the list of airlines that constitute South African owned airlines (Table 1) and the socio-demographic information of this study (Table 2).

About 44% of the study participants were male and 46% were female; 64% were Africans. 13.6% were mixed race, 9.8% Indian and 13.2% White.

Hypothesis 1: Service quality and satisfaction

In order to test hypothesis 1, the respondents were asked to indicate their overall satisfaction rating of service quality among South African owned airlines. The results are depicted in Table 3.

TABLE 2: Socio-demographic information.

Variables	Frequency	Percentage
Gender		
Female	312	45.6
Male	372	54.4
Total	684	100
Race		
African	434	63.5
Mixed race	93	13.6
Indian	67	9.8
White	90	13.2
Total	684	100

Source: Mantey (2015)

TABLE 3: Overall service quality satisfaction ratings of South African owned airlines

Variables		Sa	Satisfaction ratings						
	Scale	Frequency	Percentage	Valid percentage	Cumulative percentage				
Very low	1.0	9	1.3	1.3	1.3				
Low	2.0	39	5.7	5.7	7.0				
Moderate	3.0	284	41.5	41.5	48.5				
High	4.0	321	46.9	46.9	95.5				
Very high	5.0	31	4.5	4.5	100.0				
Total	-	684	100.0	100.0	-				

Source: Mantey (2015)

Table 3 shows that 46.9% of the respondents rated satisfaction with service quality as high, while 41.5% rated it moderately satisfactory and 4.5% rated satisfaction with services as very high. Therefore, effectively 93% of the respondents were satisfied with the quality of the services offered by South African owned airlines despite gaps in service quality dimensions. Airline passengers' satisfaction with regard to service quality is common in the global industry. Therefore, the findings reflect the ultimate expectations of most airline passengers (Erdil & Yildiz 2011:1232-1242; Wattanacharoensil & Yoopetch 2012:280-320). In the current era of customer-centric and value-added services provision to the customer, passenger-oriented quality service strategies that include rendering superior quality service (Gilbert & Wong 2003:519-532) are crucial in order to maintain customers and sign up new passengers, thereby improving competitiveness and profitability (Erdil & Yildiz 2011:1232; Wattanacharoensil & Yoopetch 2012:286). Superior quality service thus cannot be neglected by airlines. Since the airline industry is about people, and ensuring that they fly in comfort, service quality should be one of the key elements in nurturing a sustainable industry. Indeed, airline companies allocate substantial financial resources to quality service delivery in order to satisfy customers, ultimately improving their revenue and profitability (Archana & Subha 2012:51; Steven et al. 2012:743). Consequently, hypothesis H1 – there is general service quality satisfaction among passengers of South African owned airlines - is accepted in the light of the findings of this study and the literature.

Hypothesis 2: Membership of loyalty programmes and air passengers' loyalty

This hypothesis sought to determine if passengers' membership of a loyalty programme is an indication of their loyalty to South African owned airlines (Table 4).

TABLE 4: Loyalty programme and passenger loyalty.

Loyalty programme	Frequency	Percentage	Percentage Passenger loyalty		Percentage
Yes	151	22.1	Yes	586	85.7
No	533	77.9	No	98	14.3
Total	684	100.0	-	684	100.0

Source: Mantey (2015)

The results show that only 22% of the respondents were members of a loyalty programme and 78%, were not. The results further reveal that 85.7% of the respondents were loyal passengers who consistently patronise a particular South African owned airline, while 14.3% were not. However, only 22% had signed up to loyalty programmes. Thus, while 78% were not part of a loyalty programme, 85.7% were loyal to the airline. This shows that membership of a loyalty programme is not necessarily an indication that a passenger is loyal to an airline. The results in Table 3 and Table 4 reveal that while the majority (93%) of the respondents was satisfied with the level of service quality offered by South African airlines (Table 3), 78% were not part of a loyalty programme, although 85.7% were loyal passengers (Table 4). The implication is that from a South African perspective, a passenger could be a loyal passenger and be satisfied with services (Table 3), but might not be a signed-up member of a loyalty programme. The key question is what makes South African domestic passengers loyal to airlines. This could be answered by more in-depth investigation.

Passengers may have various reasons to sign up or not sign up to loyalty programmes offered by South African owned airlines. From a marketing perspective, a loyalty programme aims to encourage consumers to support a brand's products and services with ongoing patronage (Berndt & Brink 2004:25; Rai & Medha 2013:141). The programmes offered by South African airlines have probably not satisfied customers' needs and expectations. There is thus a need for further research into the reasons why the majority of the study respondents were not part of a loyalty programme. It is possible that passengers were not satisfied with aspects of South African owned airlines service delivery and were therefore unenthusiastic about signing up for their loyalty programme. Conversely, it is possible that South African owned airlines have not adequately promoted their loyalty programmes. Other reasons could be that passengers do not see the need to join because of past unfulfilled promises (Pfeffer 2014:2). Furthermore, they might not be interested in any loyalty programme. Empirical research is required to draw conclusions on this phenomenon in the South African context. Thus, membership of a loyalty programme does not guarantee a passenger's loyalty to an airline. The hypothesis that passengers' membership of a loyalty programme does not guarantee their loyalty and patronage of South African owned airlines is thus supported by the empirical evidence and is accepted.

Hypothesis 3: Effect of service quality gaps on passengers' loyalty and patronage

Here the notion was to evaluate the effect of gaps in quality service delivery on passengers of South African owned

TABLE 5: Passenger loyalty statistics.

Variable	Group statistics							
_	Loyalty to airlines	N	Mean (M)	Standard deviation (SD)	Standard error mean			
Tangibility gap	Yes	151	14.099	12.3222	1.0028			
score	No	529	16.665	11.4183	0.4964			
Reliability gap score	Yes	151	12.152	8.3465	0.6792			
	No	529	12.917	7.8393	0.3408			
Responsiveness	Yes	151	8.974	6.4663	0.5262			
gap score	No	529	9.713	5.9126	0.2571			
Assurance gap	Yes	151	7.755	5.3003	0.4313			
score	No	529	8.414	5.0224	0.2184			
Empathy gap	Yes	151	4.901	3.9846	0.3243			
score	No	529	5.512	3.2730	0.1423			

Source: Mantey (2015)

airlines in the context of the SERVQUAL and the Gaps models (Lovelock & Wirtz 2011:406; Parasuraman et al. 1985:41–50, 1988:12–40). The purpose was to determine the effect of these gaps on passengers' loyalty and patronage. Table 5 depicts the results.

With regard to loyalty programmes, the results show a gap score of tangibility (M = 14.099, SD = 12.3222), reliability (M = 12.152, SD = 8.3465), responsiveness (M = 8.974, SD = 6.4663), assurance (M = 7.755, SD = 5.3003) and empathy (M = 4.901, SD = 3.9846). In respect of those passengers who were not part of a loyalty programme the gap score was: tangibility (M = 16.665, SD = 11.4183), reliability (M = 12.917, SD = 7.8393), responsiveness (M = 9.713, SD = 5.9126), assurance (M = 8.414, SD = 5.0224) and empathy (M = 5.512, SD = 3.2730). The Levene's test for Equality of Variances (Independent Samples Test) was conducted on the dimensional gaps and loyalty to further determine if there were significant gaps (Table 6).

There were significant gaps in the mean in the dimensional variables which were: tangibility (2.5661), reliability (-0.7645), responsiveness (-0.7392), assurance (-0.6590) and empathy (-0.6116). While the respondents were generally satisfied (93%) with South African owned airlines' services (Table 3), there were gaps in the services dimension variables (Table 5). The gap scores were tangibility (M = 14.099, SD = 12.3222), reliability (M = 12.152, SD = 8.3465), responsiveness (M =8.974, SD = 6.4663), assurance (M = 7.755, SD = 5.3003) and empathy (M = 4.901, SD = 3.9846). These gaps point to the fact that some aspects of service delivery quality by South African owned airlines were not totally satisfactory. Thus, further improvement is required. Airline service quality is dynamic as passengers constantly demand more services and improved service quality. This is problematic for airline companies from several perspectives (Lo et al. 2015:169). Management might find it difficult to identify passengers' exact requirements and assign financial resources to deliver exceptional services (Nikbin et al. 2015:340). The statistically insignificant values in the Levene's test for Equality of Variances (Independent Samples Test; see Table 6) on the relationship between the dimensional gaps and loyalty showed that there was no relationship. This means that dimensional gaps or the gaps in service delivery have no effect on passengers' loyalty and patronage of South African

TABLE 6: Levene's test for Equality of Variances and loyalty programme.

Variable	Levene's test f	or equality of nces	t-test for equality of means							
	F	Sig.	Т	Df	Sig. (two-tailed)	Mean difference	Standard error difference		e interval of the rence	
								Lower	Upper	
Tangibility gap score	3.027	0.082	-2.393	678	0.017	-2.5661	1.0725	-4.6719	-0.4602	
Reliability gap score	1.894	0.169	-1.042	678	0.298	-0.7645	0.7339	-2.2055	0.6765	
Responsiveness gap score	3.473	0.063	-1.326	678	0.185	-0.7392	0.5572	-1.8333	0.3550	
Assurance gap score	1.684	0.195	-1.405	678	0.161	-0.6590	0.4692	-1.5802	0.2622	
Empathy gap score	10.240	0.001	-1.925	678	0.055	-0.6116	0.3177	-1.2354	0.0121	

Source: Mantey (2015)

owned airlines. Therefore, H3, which stated that service quality gaps in South African owned airlines have no effect on passengers' loyalty and patronage, is accepted. The South African domestic airline market offers passengers limited choices and it is thus difficult to differentiate between airlines' services (Martin et al. 2008:200). Thus, whether services are satisfactory or unsatisfactory, passengers will patronise the airline because they have no alternative option (Mantey & Naidoo 2016:330-356). However, the literature (Namukasa 2013:523; Rai & Medha 2013:141) has linked customer service satisfaction to passenger loyalty. Rai and Medha (2013:141) state that loyalty is a psychological state developed through ongoing fulfilment of the customer's connection to a service firm, as a result of a long-standing relationship and patronage. Previous studies have shown that membership of a loyalty programme does not guarantee loyalty to a particular airline (Berndt & Brink 2004:25; Rai & Medha 2013:141).

Hypothesis 4: Relationship between frequency of travel and loyalty programmes

The dataset was reviewed to establish the association between loyalty programmes and frequency of travel (Table 7).

The results show that 66% of the respondents had travelled frequently within the past 12 months, on both domestic and international flights. Over the past 13–24 months, only 24% had travelled frequently, while 9% had travelled frequently for over 36 months.

Inferential statistics

Using inferential statistics and cross-tabulation, of those not signed up to a loyalty programme, 83% had travelled frequently for up to12 months, compared with only 17% of those on a loyalty programme (p < 0.01) (Table 8).

Although, more than a fifth (22%) of the participants were part of a loyalty programme, a large percentage (almost 78%) were not on a loyalty programme (Table 7). Reviewing the inferential statistics (Table 8), it was established that a loyalty programme was not associated with frequent travel. Significant association could not be established in the variables. The hypothesis H4, there is no significant

TABLE 7: Frequency of travel.

Frequent travel	Frequency	Percentage		
0–12 month	452	66.1		
13-24 months	166	24.3		
25–36 months	29	4.2		
> 36 months	37	5.4		
Total	684	100.0		

Source: Mantey (2015)

association between passengers' travel frequency and the loyalty programmes offered by South African owned airlines is accepted. It cannot be concluded that frequent travel will lead to passenger loyalty to an airline. Nor can one hold that frequent travel induces passengers to sign up for a loyalty programme (Dolnicar et al. 2011:1020), although frequent travel accumulates points, which can be redeemed by the passenger, depending on airline's terms and conditions. Terblanche (2015:200) notes that in the services industry, including airlines, if customers are satisfied with the services they receive, they consolidate their purchasing arrangements and loyalty to that firm, while also providing positive word-of-mouth information about the service provider to potential customers. The opposite holds true if customers are dissatisfied as they are likely to switch patronage and loyalty (Berndt & Brink 2004:25).

Ethical consideration

This study was conducted in compliance with the University of KwaZulu-Natal's research ethics requirements of anonymity, confidentiality, independent work and plagiarism. These tenets were maintained throughout this study.

Implications

Theoretically, this study provides new insight into service quality from the South African perspective. This fills a research gap as few studies have investigated airline service quality in this country. Service quality in the airline industry is a complex phenomenon as passengers' expectations differ. However, it is of crucial importance to the survival and progress of this industry. Excellent service quality ensures that passengers receive value for money. Thus, airlines would do well to take heed of their passengers' expectations (Mantey 2015:1–433).

TABLE 8: Loyalty programme and frequency of travel (cross-tabulation).

Loyalty	Frequent travel									Total	
programme	0–12 months		13-24 months		25-36 months		> 36 months				
	Count	% within frequent travel	Count	% within frequent travel	Count	% within frequent travel	Count	% within frequent travel	Count	% within frequent travel	
Yes	77	17.	52	31.3	11	37.9	11	29.7	151	22.1	
No	375	83.0	114	68.7	18	62.1	26	70.3	533	77.9	
Total	452	100.0	166	100.0	29	100.0	37	100.0	684	100.0	
Chi-square tests					$X^2 = 20.429$	θ , df = 3, p < 0.01					

Source: Mantey (2015)

From a managerial perspective, excellent service provides competitive advantage; increases market share and profitability and promote passenger loyalty and patronage (Namukasa 2013:530). From a strategic marketing perspective, this study provides cognitive information, which management could use to design new marketing strategies to enhance loyalty. The benefits promised to passengers should always be delivered and CRM should be a priority. The service excellence vision should be propelled by efficient CRM systems. Information communication technologies (ICT) combined with CRM systems creates a repository of information on passengers' business and customer relationships with South African owned airlines. If this information is properly used, it could assist airlines to offer personalised service that meets passengers' requirements (Mantey 2015:70; Wang, Park & Fesenmaier 2012:371).

The findings of this study imply that South African owned airlines should intensify their campaigns to encourage passengers to participate in loyalty programmes in order to sustain patronage. At the same time, they should educate passengers on the benefits of such programmes. Such benefits should be well defined and concisely communicated. Promises should always be fulfilled. However, loyalty programmes should be linked to exceptional service quality, which is fundamental in heightening and sustaining passengers' loyalty (Chikwendu et al. 2012:117–126; Namukasa 2013:530).

Recommendations

Based on the study's findings, the following recommendations are made to management of South African owned airlines as per Table 9.

Limitations and future research

This study relied on quantitative information collated from the South African environment; therefore, the study cannot be generalised for the entire global airline industry. However, the empirical evidence has provided some insight into service quality, passengers' satisfaction and loyalty with regard to South African owned airlines.

Future research could investigate the causes of the unenthusiastic response to loyalty programmes in South Africa. Are these programmes beneficial to passengers, do they really receive value from such programmes and what

TABLE 9: Summary of recommendations

No.	Recommendation
1	Management of South African owned airlines should strive to improve service quality to passengers.
2	South Africa owned airlines should publicise their loyalty programmes.
3	Passengers should be made aware of the benefits of subscribing to loyalty programmes.
4	Since membership of a loyalty programme is not indicative of passenger loyalty, management needs to win the hearts and minds of passengers. One of the main ways to do so is to offer top quality service.
5	Like all customers, South African airline passengers expect high-quality services. Delivering such services should thus be the cardinal ambition of South African owned airlines; therefore, management should strategically work towards this ambition.
6.	Management should make a conscious effort to close or completely eliminate service delivery gaps. This would enhance service quality and induce passengers' loyalty and patronage.

Source: Mantey (2015)

are the intrinsic benefits? Further research could also be conducted on customer and passenger relationship management, probing the extent to which South African owned airlines are aware of passengers' requirements and attempt to meet such needs.

Conclusion

Based on the study's results, it is concluded that service quality is of paramount importance to an air passenger. Consequently, excellent service quality, which promotes passenger loyalty and patronage, is the key to the survival, competitiveness, sustainability and profitability of South African owned airlines. The interplay between service quality, satisfaction and loyalty offers South African owned airlines opportunities to provide satisfactory service to their passengers. While loyalty programmes may be beneficial to the passenger provided the airline is sincere and faithful to the tenets of the programme, ultimately, the passenger expects service excellence and satisfaction. An airline with a broad, loyal passenger base has a sustainable future. South African owned airlines should thus design systems to identify their loyal passengers and handsomely reward them for continuous patronage. This would enable them to gain competitive advantage, increasing overall profitability.

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Competing interests

The authors of this article do hereby affirm that this article was written purely for academic purposes and they have not been influenced by any person(s) or organisation(s) for financial gains.

Authors' contributions

N.O.M. was responsible for conducting this study. V.N. was responsible for supervising the study and providing guidance.

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