JUSTICE FOR CONSUMERS COMPLAINING ONLINE OR OFFLINE: EXPLORING PROCEDURAL, DISTRIBUTIVE, AND INTERACTIONAL JUSTICE, AND THE ISSUE OF ANONYMITY

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ABSTRACT

The dramatic increase in online commerce over the past decade has raised concern over the perceived fairness of complaint handling methods in this venue. The study described in this article uses justice theory to determine whether respondents who sought complaint resolution online were satisfied in the same manner as respondents who used conventional complaint mechanisms. In this study of consumers residing in several different countries, authentic complaint experiences were analyzed. The authors found that both online and offline complaining consumers experienced justice (in general) in the complaint process. Procedural justice emerged as the dominant justice dimension, but new insight was gained with respect to how interactional justice was manifested in distinctly different ways for both online and offline complaining consumers. Some online consumers seek the anonymity that technology affords while a significant portion of the offline consumers seek the transparency and openness that many of the conventional complaint mechanisms offer (e.g. face-to-face and phone). Contrary to some other studies investigating justice perceptions and complaining behavior, distributive justice did not emerge as a top theme.

INTRODUCTION

The increase in online commerce suggests the need for an increase of investigations into online complaint activity. The primary purpose of the study described herein is to determine whether consumers who seek complaint resolution online are satisfied in the same manner as consumers who use conventional (offline) complaint mechanisms.

Justice theory is used to assess consumers' perceptions of fairness in complaint

handling methods. Our study is particularly interested in how interactional justice is experienced for online versus offline complaint consumers. This interactional dimension of justice becomes particularly worthy of further investigation when a technology interface is substituted for the human interface part of the complaint process. Thus, to the degree that an agent-to-consumer interaction is not as evident in an online environment, a deeper investigation of customer satisfaction and justice is warranted.

The marketplace continues to experience a healthy growth in the use of technology for relationships furthering and completing transactions between businesses and endconsumers. Global e-commerce sales are forecasted to exceed one and a quarter trillion dollars by 2013, with the United States remaining the largest online market according to the Interactive Media in Retail Group (IMRG) (Montagim 2012). Furthermore, Forrester research predicts that U.S. online retail sales will reach \$278.9 billion in 2015 (Indvik 2011). The evolution of the concept of cyber-Monday, as a follow-up to black Friday, provides additional evidence of this growth.

As commercial activity in general, and online commerce in particular continue to proliferate, entities such as the Federal Trade Commission (FTC) and the Better Business Bureau (BBB) have continued to track consumer complaints. The FTC reported in 2011 that the top ten complaints it received included shop-athome and catalog sales, and internet services (Federal Trade Commission 2012). In 2009, the Better Business Bureau (BBB) reported that complaints to it, increased by nearly ten percent (Council of Better Business Bureau 2010). The 2009 records included increases over the previous year for complaints on cellular phone service. In addition, there were increases for complaints on television, cable and satellite service, and banking As the exchange of goods and services are increasingly facilitated through technological means, a subsequent outcome continues to be the need for organizations to manage any consumer dissatisfaction that occurs during these exchanges. The research discussed in this article further explores whether consumers who seek complaint resolution online are satisfied in the same manner as consumers who use conventional complaint mechanisms.

LITERATURE REVIEW AND RESEARCH QUESTIONS

Customer Satisfaction, Dissatisfaction and Complaining Behavior

According to the American Customer Satisfaction Index (2009), consumers involved in retail trade have been satisfied at the 70% level or above for at least the last decade: be it product or service-oriented businesses (Fornell, 2010). In other words, consumer-oriented businesses and their patrons enjoy, for the most part, a mutually beneficial exchange relationship. However, in some instances, customers are dissatisfied with some aspect of the exchange of their money for goods or services. According to Ahmad (2002) and Zemke and Bell (1990), a service delivery system fails when it cannot deliver service as promised. Whereas satisfaction has been associated with brand loyalty, goodwill, and repeat sales; conversely, dissatisfaction [can] lead to redress seeking behavior (i.e., a request for a refund, exchange, or repair, etc.) (Blodgett, Granbois, & Walters 1993; Ahmad 2002).

When a customer is dissatisfied, a company's ability to recover from the complaint (i.e. solve the customer's problem or otherwise appease the situation), can have significant ramifications in regards to customers' perceptions of an organization's competence, the product or services already purchased, repurchase intent, the quality of a firm's other offerings, and customers' post-complaint recovery behavior (Shankar, Smith, & Rangaswamy 2003; Harris, Grewal, Mohr, & Bernhardt 2006). When a customer's dissatisfaction is not addressed or is mishandled, negative word-of-mouth and/or discontinued use of the product, service, or business can result

(Martinez-Tur, Peiro, Ramos, & Moliner 2006). Schmidt and Kernan (1985) found that customers have described redress procedures (complaint handling) as a key component of the shopping experience and satisfaction guarantees. Hayes and Hill (1999) found that customer satisfaction is attributable in part to service success along with complaint and service recovery strategies. Therefore, online and traditional "brick and mortar" service providers and retailers have for many years been advised to focus on executing effective recovery strategies as opposed to striving for mistake free shopping experiences (Schmidt and Kernan 1985; Hayes and Hill 1999).

Complaint handling involves all of the processes that a company invokes after a service failure for the purpose of re-establishing a company's credibility from the perspective of the consumer (Hart, Heskett, & Sasser 1990). This encompasses having the requisite processes in place for initiating appropriate service recovery strategies when a failure occurs. When customers are satisfied as a result of a post-complaint experience, they often will engage in repurchase behavior. Effective recovery strategies have been said to paradoxically lead to a situation whereby the customer will rate the encounter more favorably after a problem has been corrected than if the transaction had been correctly performed the first time (Etzel & Silverman 1981; McCollough & Bharadwaj 1992).

The literature is robust with studies that have focused on traditional mechanisms/processes for complaining and subsequent behaviors (Blodgett et al. 1993; Blodgett, Hill and Tax 1997; Tax, Brown, and Chandrashekaran 1998; Smith, Bolton, and Wagner 1999; Davidow 2003). The framework used is often post-purchase satisfaction, leading to re-patronage intention and/or word-of-mouth communication. Scholars have also investigated the effect of customers' perceptions of fairness in the complaint process on their level of satisfaction, subsequent continued patronage, and favorable word-of-mouth (Blodgett et al. 1997; Tax, Brown, & Murali Chandrashekaran 1998). It is this "fairness" construct that is the focus in our research.

Justice Theory and Complaining Behavior

Constructs used to illuminate satisfaction have included service quality (Parasuraman et al.

1988), loyalty (Parasuraman and Grewal 2000; Shankar et al 2003), and justice (Blodgett el al 1993; Blodgett et al. 1997; Cho et al 2002). Our research uses justice theory to investigate online and offline complaining behavior in seeking a broader conceptual understanding of consumer complaining behavior.

Justice theory (Homans 1961; Adams 1965) has been used to evaluate consumer satisfaction with the complaint process. This theory has long been used in investigating satisfaction derived from post-complaint recovery with respect to individuals' perceptions of their fair and equitable treatment (Parasuraman et al. 1988; Bitner, Booms & Tereault 1990; Goodwin & Ross 1992; Blodgett et al. 1997; Worsfold, Worsfold, & Bradley 2007; Ha & Jang 2009). Derived from equity theory, justice theory espouses that consumers evaluate the level of fairness in the process. This fairness is characterized as one or more of three forms of justice: distributive, procedural, and interactional.

Distributive justice addresses the parity in the remedy received by the consumer. That is, distributive justice looks at the compensation that might have been received by the complaining consumer, in exchange for their troubles (Austin 1979; Mccoll-Kennedy & Sparks 2003; Karatepe 2006). In such cases, an individual measures the degree to which the remedy of the problem sufficiently makes the individual "feel whole" in regards to the offers by the establishment.

Procedural justice addresses the way the process of handling the complaint issue was settled. Procedural issues may include whether the problem could be handled on the premises or whether the customer had to write to headquarters or phone a customer service line to plead his/her case (Blodgett et al. 1997; de Matos, Fernandes, Leis, & Trez, 2011).

Interactional justice looks at the consumer's satisfaction with the level of care and empathy provided by the agent of the service provider while the problem was being eradicated. It is the "interpersonal treatment [one] receives from another person" (Adams 1965; Bies 2001, p. 91). This is of particular interest to the authors of this article, again because interactional justice is customarily manifested when the consumer interacts with an *individual* who represents the

company to which the problem is attributed. That agent- to-consumer interaction is not as evident in

agent- to-consumer interaction is not as evident in an online environment, and therefore warrants deeper investigation. Thus, the interactional dimension of justice becomes particularly worthy of further investigation when a technology interface is substituted for the human interface part of the complaint process.

With respect to complaint handling when traditional mechanisms (e.g. phone, mail, etc.) are used, Tax et al (1998) contended that justice theory provided good theoretical underpinning for addressing satisfaction with respect to complaint scenarios. However, various justice dimensions emerge as dominant depending on the study and their contexts.

Tax et al. (1998) found that all the justice dimensions were factors. In their study, distributive justice focused on financial loss and apology. They noted that apology, as a construct, represented emotional costs as well as financial costs. Their findings for procedural justice emphasized customer convenience and firm follow-up. Interactional justice included issues related to communication and behavior. These authors concluded that complaints that were left unhandled were considered unfair.

Clemmer and Schneider (1996) concluded that distributive justice was the most important factor for predicting customer satisfaction. Smith et al (1999) corroborated this finding using an experimental design scenario in which consumers evaluated various failure/recovery scenarios using an organization that they recently patronized. Distributive justice emerged as the justice dimension accounting for a relatively large percentage of the overall effect of perceived justice on satisfaction. Martinez-Tur (2006) also concluded that distributive justice was critical in predicting customer satisfaction.

These findings contradict works in relationship marketing that assume social interaction is the key to satisfied customers, and therefore procedural and interactional justice would be key to customer satisfaction (Hartline and Ferrell 1996). Goodwin and Ross (1992) suggested that procedural and interactional fairness were the key dimensions upon which consumers responded to service failures. Their research was characterized by an experimental design that manipulated levels of complaint outcome; apology, voice, and type of service. tangible offering, apology and voice ceased to have the same level of effect. An, Hui, and Leung (2001) determined in part, that when service providers give voice to their customers, that has led to higher perceived justice and more positive post-complaint behaviors.

Meta-analysis research has yielded insight into differences in findings based on a few conditions such as using students as the subjects in experimental design research. Gelbrich and Roschk (2011) found that the relationship between justice perceptions and satisfaction depends on the target group, the industry and the complaint type. Interestingly, distributive justice emerges as having great importance when the complainers are students.

Technology and Complaining Behavior

The technology issue brings an additional dimension to the study of consumer complaining behavior. Complaint satisfaction in an online environment has received some attention but its juxtaposition against the traditional offline environment has been limited.

A key point of our investigation involves the question of whether consumers experience complaint satisfaction in an online environment in way they experience complaint the same satisfaction in a conventional setting. As previously justice theory mentioned, is particularly instructive in this inquiry in that justice theory espouses three forms of justice; procedural, distributive. and interactional. Interactional justice specifically addresses consumers' satisfaction with the individual who represents the company with which a consumer has a complaint. This interactional dimension of justice becomes particularly worthy of further investigation when a technology interface is substituted for the human interface part of the complaint process. We posit, to the degree that an agent-to-consumer interaction is not as evident in an online environment, a deeper investigation of customer satisfaction and justice is warranted.

Bitner, Brown & Meuter (2000) inquired whether the same interpersonal service encounter in a traditional setting is relevant in a technologybased environment. In a related study, Parasuraman and Grewal (2000) ask whether consumers' perception of the transaction value depends on their ready access to employees. Robertson, McQuilken and Kandampully (2012, p. 21) posited that when self-service technologies are in use, "service guarantees…specifically multiple attribute-specific guarantees, are associated with consumer voice complaints following self-service technology failure."

This area of inquiry is still relatively new. However, the preponderance of the studies that have addressed online complaint behavior, have done so in a discreet fashion. That is, most studies did not include complaint behavior from consumers in an online environment as compared with complaint behavior from consumers in a traditional environment.

Holloway and Beatty (2003) generated a typology of online service failures. They narrowed the categories of online service failures to: delivery problems, website design problems, customer service problems, payment problems, security problems, and a few miscellaneous items. Pointing out that the lack of human interaction is a fact that is unique to solving online service failures, these authors concluded that retailers are not adequately recovering from their service failures.

Previously, Kelley, Hoffman and Davis (1993) analyzed retail failures and recoveries, identifying fifteen different types of retail failures and twelve unique recovery strategies. Later, Forbes, Kelley and Hoffman (2005) did another study in which they focused on e-commerce retail failure and recovery strategies. They found ten etail failures and eleven e-tail recovery strategies used by e-commerce firms.

In a study that addressed the online environment exclusively, Abdul-Muhmin (2011) posited a model for determining the repeat purchase intentions of online consumers who had previously bought online. This inquiry resulted in the finding that experience with online purchase problems did not have a significant relationship to overall satisfaction (Abdul-Muhmin 2011).

In a study by Maxham, III and Netemeyer (2003) whereby online customers were instructed to file their complaints by phone to a customer service office, these authors found that all the justice dimensions were significant or influential in shaping customers' perceptions of fairness. Chang and Wang (2012) found that distributive justice was an effective recovery criterion by consumers. Lin, Wang and Chang (2011) had previously found that *only* distributive justice has a significant positive influence on repurchase intention, and only interactional justice has a significant negative influence on negative wordof-mouth. They also found that influences on customer satisfaction, word-of-mouth, and repurchase intention, come from both the interaction between distributive justice and procedural justice and the interaction between distributive justice and interactional justice.

In a very recent study, Wu (2013) found distributive and interactional justice that contribute to satisfaction, but procedural justice does not. Chang, Lai and Hsu (2012) engaged in a study that explicitly expanded knowledge regarding satisfaction with recovery of online services (SROS). They point out that, "Collectively, literatures of online service recovery studies suggest that different types of service failures are encountered by consumers in online service settings [therefore]... Different remedy strategies and the level of choice options are needed to be considered when executing online service recovery." (pg. 2,200)

A few examples of empirical research have been published where comparisons of a number of aspects of the online environment to that of the traditional environment have been made. Shankar et al (2003) evaluated overall customer satisfaction and loyalty. They found that satisfaction in the online environment had parity with satisfaction offline. They also found that customer lovalty was higher online. Cho. Im. Hiltz, & Fjermestad (2002) conducted a side-byside comparison of post-purchase evaluation factors, and determined that online customers are less likely to complain even if they are more dissatisfied than offline customers in similar situations. These online customers are also more considerate of costs associated with complaint However, both online and offline handling. customers are inclined to continue to patronize an establishment if the complaint handling and service recovery processes are good.

Harris, Grewal, Mohr, and Bernhardt (2006) found that online customers were more apt to blame themselves when a service failure occurred, and that offline customers had a stronger satisfaction with service failure recovery. In a different study Harris, Mohr, and Bernhardt (2006) concluded that since online consumers are more apt to blame themselves for service failures, managers could consider providing less compensation or remuneration for online consumers than for offline consumers.

Anonymity/Pseudonymity

There are certain freedoms that online shopping and complaint handling afford. Given the ability to shop and handle complaints in the comfort of one's own home, consumers can appreciate the freedom from time restraints and/or crowds. This also affords a certain level of anonymity that consumers are gravitating towards.

The internet, for some consumers, is a venue whereby the possibility of receiving unfair treatment can be mitigated by the anonymity of the complaint handling venue. Fromkin (1999, p. 115) states, "Anonymity may turn out to be the only tool available to ordinary people that can level the playing field against corporations and governments that might seek to use new data processing and data collection tools in ways that constrain the citizen's transactional or political freedom. Thus, their main line of defense against being profiled is likely to be anonymous communication or pseudonymous transactions." Sheehan and Hoy (1999) studied online consumers' responses to privacy concerns. They determined that as privacy concerns increased, registration for websites decreased. They also noted that as consumers' privacy concerns increased, their behavior that would be considered complaint oriented decreased. Kehoe, Pitkow and Morton (1997) state that one way the internet differentiates itself is in its ability to allow patrons to participate anonymously.

In summation, distributive justice refers to the customer perception of equitable compensation; procedural justice explores the ease of filing and resolving a complaint; and interactional justice focuses on the amount of interaction and concern displayed by the company/offender (Martinez-Tur et al. 2006; McMahon-Beattie 2011). With the increase in online consumerism, interactional justice becomes particularly worthy of further investigation when a technology interface is part of the complaint process. Thus, to the degree that an agent-toconsumer interaction is not as evident in an online environment, a deeper investigation of customer satisfaction and justice is warranted.

RESEARCH QUESTIONS

As indicated previously, distributive justice refers to the customer perception of equitable compensation; procedural justice explores the ease of filing and resolving a complaint; and interactional justice focuses on the amount of interaction and concern displayed by the company/offender (Martinez-Tur et al. 2006; McMahon-Beattie 2011). With the increase in online consumerism, we believe that interactional justice becomes particularly worthy of further investigation when a technology interface is part of the complaint process. Thus, to the degree that an agent-to-consumer interaction is not as evident in an online environment, a deeper investigation of customer satisfaction and justice is warranted.

This study extracted qualitative feedback on consumers' authentic complaint experiences and ultimately their satisfaction with the complaint process for online and offline situations. The basic research questions for this study were two-fold:

1) Will online and offline complaint respondents demonstrate significant differences in the way in which they perceive justice in the complaint handling process?

2) Will offline complaint respondents have a greater expectation of interactional justice than online complaint respondents?

METHODOLOGY

With the underpinning of justice theory (distributive, procedural, interactional), the purpose of this study was to determine whether there were differences in consumers' complaint satisfaction based on consumers' use of traditional complaint mechanisms (e.g. phone, mail, fax) versus their use of online/internet options for initiating and conducting the complaint process. To extract these pieces of information, consumers were not only asked to rank popular complaint options (telephone, mail, fax, face-to-face, and online) in order of preference - but consumers were also asked to evaluate their satisfaction. This piece is a portion of a much larger instrument that looked at modeling the justice theory components and their antecedents in an effort to compare customer satisfaction with online and traditional complaint methods. The complete instrument also contained demographic questions.

The instrument as a whole was pre-tested using a convenience sample of 34 consumers. Some of the respondents in this pre-test were undergraduate and graduate students. Others in the convenience sample included individuals who attended an international multi-cultural marketing conference, and others were members of two professional business organizations. The pre-test did not lead to any adjustments to the questions used for this study.

The sample for this research was drawn from a population of individuals pursuing or hoping to pursue graduate degrees who utilized a standardized testing service. 10,921 individuals from 90 countries that included the U.S., India, Japan, and the United Kingdom were sent an email letter requesting that they complete an independent survey on the testing service company's website regarding their most recent complaint experience. The Chief Information Officer of the testing service company provided a letter of endorsement that accompanied the solicitation e-mails. In addition, drawings were held for testing aids materials the testing service organization sells. These incentives were intended to increase response rate.

Prospective respondents were asked to articulate an authentic goods or service encounter experience they had that resulted in the need to launch a complaint. This is known as the critical incident method. Malhotra (1996) states that asking respondents to address an actual problem that they have experienced provides authenticity and a higher level of external validity. This technique has been used in quite a few consumer behavior research projects (e.g., Evardsson and Ross 2001; Roos 2002; Gremler 2004).

Qualitative data were gathered. Questions allowed respondents the opportunity to; 1) offer rationale for their preferred choice of complaint mechanisms (online versus offline [traditional]); 2) provide greater detail about their complaint experience; and 3) suggest possible solutions to their situation. Open-ended questions included: 1) Please explain the reason you preferred your first ranked preference; and 2) If you do not particularly prefer using the online option, please explain why.

Effective analysis of qualitative data requires the systemization and quantification of text (Taylor-Powell & Renner 2003).

Systemization is the analysis of text which eliminates biases in classification formation that support the researcher's hypothesis, and quantification is the process by which qualitative data are altered into a form amendable for statistical methods (Berelson 1952; Holsti 1969).

To maintain data integrity and authenticity while removing the doubt of bias, qualitative responses were coded independently by three researchers that were all given the same instructions with regard to the coding process. Each researcher analyzed each of the statements and extracted all themes present. If the themes were extracted by two or more researchers, it was used. If the theme did not meet this criterion for a given question, it was not included.

After the themes were extracted, they were uploaded into the CATegory Package (CATPAC) which counted the frequency of the responses. CATPAC is a self-organizing software package that organizes words by frequency, representative percentage of words based on total words responded, case frequency and case percentage (Krippendorf 1980; Thomas & Mills 2006). This is all based on the classifications after data smoothing which is a standardization procedure used to eliminate the misspelling or pluralizing of words impacting the frequency total for a response (Krippendorf, 1980; Woelfel 1990). After this standardization, the software calculates the frequency for each term while also giving the percentage of total words. This process of taking the results of direct quotes from respondents to open ended questions and quantifying these results by extracting themes from these statements is a methodology that was successfully used by Thomas & Mills (2006). This approach was also used in a study of online product or customer service failure or success, using a third party consumer evaluation website (Goetzinger, Park and Widdows 2006).

FINDINGS

The Sample

A total of 1,821 of 10,921 surveys were returned for a 16.67% response rate. Of those

1,821, there were 516 usable surveys from respondents who described a formal complaint situation. These respondents came from 56 different countries. The U.S. represented 56% of the sample. The countries outside of the U.S. with the most respondents included, India, Canada, the United Kingdom, The People's Republic of China, Brazil and Peru.

Thirty percent (30%) of the 516 respondents used an online method of complaining whereas seventy percent (70%) of the respondents engaged in a traditional complaint process. Thirty three percent of U.S. respondents complained online. Twenty five percent of respondents outside of the U.S. complained online. Fifty nine percent of the respondents who complained by fax were outside of the U.S.

Of the 516 respondents, fifty-nine percent (304) were male; thirty eight percent (196) were female. Three percent (16) did not specify gender. Nearly half were already college graduates. Fifteen percent held master's degrees, while 25% had completed some post-graduate work. Approximately half of the respondents earned more than \$50,000 annually.

Consumers' Rankings of Complaint Methods

Respondents were asked to rank the following complaint methods from 1 (most preferred) to 5 (least preferred): phone, online, face-to-face, mail, and fax. The rankings were then given the following values: "1" = 5 points; "2" = 4 points; "3" = 3 points; "4" = 2 points; and "5" = 1 point. These point values were then used to calculate a complaint method score. Complaining via the telephone (176), online (161), and face-to-face (141) were the most preferred methods overall, ranking 1st, 2nd, and 3rd respectively. Complaining via the mail (33) and fax (5) ranked 4th and 5th. Table 1 shows the method, total score, number of individuals that preferred the given method first, the number of comments provided as justification for why they preferred the complaint method, and a summary of the rationales.

TABLE 1

Method*	Total^ Score	Ν	Percent Rated 1st	n	Reason #+
Phone	2024	176	34.1	337	speed (100), feedback (47), human contact (44), convenience (41), simple (36), accuracy (27), accountability (25), anonymity (9), wide reach (5), tone (2), cost effective (1)
Online	1828	161	31.2	305	speed (75), convenience (63), simple (47), paper trail (40), feedback (24), accuracy (17), cost effective (16), anonymity (11), wide reach (7), tone (3), accountability (1), only option (1),
Face-to- face	1596	141	27.3	256	feedback (57), serious (55), human contact (45), speed (33), accuracy (29), body language (22), accountability (10), simple (3), record (1), tone (1)
Mail	1222	33	6.4	53	paper trail (21), serious (10), feedback (5), accountability (4), accuracy (4), speed (3), anonymity (2), convenience (2), simple (2)
Fax	1014	5	1.0	8	paper trail (3), speed (3), accuracy (2),

Reasons for Ranking Complaint Method 1st in Order of Preference

*Methods in rank order by total score

N = number of respondents preferring the method

n = number of responses per method

^Scores were calculated by providing point values to respondent rankings.

The ranking values are as follows: "1" = 5 points; "2" = 4 points; "3" = 3 points; "4" = 2 points; and "5" = 1 point.

There were missing cases for some of the method rankings: phone (3), online (2), face-to-face (8), mail (5), fax (12)

Multiple themes come from a statement

+ Frequency of theme represented in ()

These rankings were in line with the mechanisms the respondents reported that they actually used in filing their complaint. Those results were that 198 (38.4%) of the respondents complained by phone, 151 (34.1%) complained using an online method (e-mail or web), eighty (15.5%) complained face-to-face, seventy complained by mail (13.6%), and seventeen (3.3%) complained by fax.

For each of the methods indicated as actually being used for filing complaints, themes emerged regarding why that method was chosen. These themes are indicated in Table 2. We ranked the top ten themes. In doing so, only twelve themes in total emerged between the online and offline respondents. Eight of the themes that emerged were the same for both online and offline Those eight themes were all respondents. procedural justice themes. Two additional procedural justice themes ranked in the top ten for either online or offline complaint consumers. The final two themes were interactional justice themes.

The common procedural justice themes were: speed, convenience, ease, paper trail, accuracy, resolution, acknowledgement, accountability. Two themes, cost and seriousness, were among the top ten themes for one genre, but not the other. Cost ranked number eight for online complainers, but number seventeen for offline complainers. Seriousness ranked number six for offline complainers but ranked number fourteen for online complainers.

A key finding was that anonymity and interaction human emerged as themes interactional representing how justice is experienced for online and offline respondents respectively. Anonymity ranked seventh for online complainers, but ranked twelfth for offline complainers. Conversely, human interaction ranked second for offline complainers, but twelfth for online complainers.

Phone Grievances

When asked to justify choosing the telephone as their preferred method for filing a grievance, the following themes emerged: speed, feedback, human contact, convenience, simplicity, accuracy, accountability, and anonymity. Speed

in this instance relates to the speed of the complaint process - or the time it takes to file the complaint and receive a resolution. Respondents commented that the telephone is the "fastest, most reliable way to complain" and the "response is faster." Strongly related to the speed was the desire for acknowledgement of the complaint and perceived likelihood of a resolution. Many respondents provided comments resembling the idea that the telephone provided a venue where "you can usually get an answer to the question or issue during the first encounter."

Another theme represented among some of the phone and face-to-face respondents was interaction with a person. Interaction with an individual facilitated explaining your grievances and otherwise providing clarity, knowing that the company is properly handling your complaint, and expediting a resolution. This is evident in the following illustrative response: "You can better receive a direct answer for the steps that will be taken. You are able to ask questions and receive immediate answers and then you are able to follow up with more descriptive questions in certain cases."

Online Grievances

The main justifications for preferring to complain online focus on the issue of simplicity and the time it takes to file a complaint, have it addressed and receive feedback. Simplicity emerged when respondents specifically mentioned some of the difficulties related to filing a complaint by phone, manifested in the following comment, "Email is the easiest mode for me meaning I don't have to wait for lengthy periods on hold for example and then not have a written response returned." Also, respondents stated that, "Online was the fastest way of sending the complaints and getting answers without wasting much time." Filing complaints online was also largely categorized as convenient. Respondents appreciated the idea of being able to "register an online complaint at their own time," "doing it at any time from home," and "being able to address the complaint at their own convenience, not the company's."

Justice Theory	Theme	Definition	Online @ Comments		Offline # Comments	
Dimension	Theme	Definition	Rank*	%	Rank *^	%
	Speed	Immediacy of complaint delivery & resolution	1	25.3	1	20.4
PROCEDURAL	Convenience	Availability/accessibility of complaint filing method	2	21.4	4	8.1
	Easy	Simplicity of filing and communicating throughout the process	3	15.8	7	7.0
	Paper trail	Written record of complaint	4	10.2	10	3.8
	Accuracy	Ability to convey accurate information	5	5.3	5	7.9
	Resolution	Results of the complaint 6 4.9		4.9	3	14.
	Acknowledgement	Company's notification of awareness of complaint	9	3.9	9	4.7
	Accountability	Knowing that a company's representative is actively addressing my concern	10	2.6	8	6.9
	Cost	Expense to customer of filing complaint	8	4.6	17	.1
	Seriousness	Feeling that the company is genuinely concerned about the failed experience	14	.7	6	7.2
INTERACTIONAL	Anonymity	The absence of face-to-face interaction and the ability to remove stereotypes from the facts	7	4.9	12	1.6
	Human interaction	The ability to interact with an individual	12	.9	2	14.8

@ Total Online Comments 304

The most insightful finding for online complaint consumers was the theme of anonymity. These consumers enjoyed the absence of face-to-face interaction, preferring to remain anonymous. This anonymity was perceived to remove stereotypes and tone from the facts. Sentiments on this issue included, "less confrontational ... don't have to argue."

The ability to contact, explain, and receive feedback along with written documentation of the process were also noted as reasons for preferring online complaint methods. This written format was also associated with the respondent's ability to explain their grievance and otherwise provide clarity without fear of confrontation. These aspects were viewed as increasing the likelihood of a resolution. The following statements represent these themes: "I am able to describe in full details as I go through the event mentally which is not possible when I call or even go face-to-face" and "Having sent an e-mail I have something written to prove that I really complained." Online was also preferred because individuals from other countries were able to file complaints with relative ease.

Face-to-Face Grievances

Respondents who preferred filing grievances face-to-face felt the interaction with the company representative increased the likelihood of getting a resolution and ensured that the company was effectively handling their complaint. This was evident in the following illustrative responses: "Usually, people don't like confrontation. If you go to them in person they have no choice but to deal with you and you can quite possibly avoid the other routes;" and "By addressing the issue through a face-to-face interaction, it is a lot easier to ensure that you will get a resolution." These respondents also felt that they were able to explain their grievances and otherwise provide clarity while interpreting the nonverbal cues of the company representative.

Respondents also thought that this interaction ensured that the company was taking their complaint seriously and allowed for the filing process to be expedited and run much more smoothly. These ideas are represented in the following statements: "You are there in person and hopefully the person receiving the complaint can judge your anger and concern;" and "I think they are more willing to try to understand your situation and work things out when there is a real person there." Also, the idea of being able to hold the representative they are speaking to accountable for managing their complaint, provided them with some perceived security.

Mail and Fax Grievances

Respondents viewed the option of faxing their complaint in a very similar light as mailing – paper trail, speed, and accuracy. Justification for preferring to use the mail to file complaints highlighted interest in written documentation of the complaint. This documentation was thought to ensure that the company knows that the consumer wants results, and therefore results in acknowledgement of the complaint and likelihood of a resolution. Respondents commented that filing the response via mail provided them with "proof of the date, time, and text of the complaint" and represented a "more legit and formal" grievance submission. The U.S. mail also provided them with the option of getting a return receipt. The ability to file their complaint in writing provided respondents with anonymity and a "good way to present facts and explain a situation which shows intent and determination." Respondents felt that the formal nature of the mailed complaint ensured that their grievance would be taken seriously, and they "could send it to multiple locations (like a corporate customer service office, a regional and or/district office, and to the location where the dissatisfaction occurred)." Table 3 (next page) is a depiction of complaint mechanism choices relative to the anonymity/human interaction need of the respondents.

Following is a description of the various grievance methods and the corresponding themes for those methods.

Comparisons of Online and Offline Themes

Table 4 shows a summary of the justifications provided by individuals that preferred to complain via online methods. This chart also shows the theme, the frequency and representative percentage of total online comments, and sample comments from the respondents.

TABLE 3 Human Interaction/Anonymity Matrix					
	Anonymity Low	Anonymity High			
Human Interaction Low		Online (<i>Pseudonymity</i>) Mail /Fax			
Human Interaction High	Face-to-Face	Phone (<i>Pseudonymity</i>)			

Table 5 shows a summary of thejustifications provided by individuals thatpreferred to complain via traditional offlinemethods. The chart shows the theme, thefrequency and representative percentage of totaloffline comments, and sample comments from therespondents.

The first research question for this study "Will online and offline complaint was. respondents demonstrate significant differences in the way in which they perceive justice in the complaint handling process? Our findings suggest that online and offline complaint respondents had far more common interests and preferences with respect to complaint satisfaction. Primarily, they both were keenly focused on procedural justice. The top theme for both online and offline complaint respondents was speed with 25.3% of online complaint respondents making mention of this concern and 20.4% of the offline complaint respondents indicating this factor. In fact, eight of the same themes regarding procedural justice emerged for both groups and each group had one additional procedural justice theme that was not unveiled as a top theme by the other group. Cost was a top ten theme for online respondents but not in the top ten for offline complaint respondents. It ranked eighth, accounting for 4.6% of the responses for online respondents. (It accounted for only .1% of offline responses.) For offline complaint consumers, seriousness was a top ten theme, but not online respondents. It ranked sixth for offline consumers, accounting for 7.2% of their responses. (It accounted for only .7% of online responses.)

In addition, two themes (one for each group) emerged for interactional justice. Anonymity emerged for online consumers, while human interaction emerged for offline consumers. There were no top ten themes for distributive justice for either group.

The second research question that guided study was, "Will offline complaint this respondents have a greater expectation of interactional justice than online complaint respondents?" In fact one interactional justice theme emerged for each respondent type. These differing themes reflected preferences or requirements for interactional iustice for conventional (offline) complaint respondents as compared to online complaint respondents.

For offline respondents human interaction received the second highest number of comments (14.8%). As predicted, the idea of human interaction was downplayed by online respondents receiving only .9% of responses. Anonymity received the seventh highest number of comments by online respondents with 4.9% of comments. Offline complaint respondents' comments on anonymity were only 1.6% of the total responses.

TABLE 4						
Qualitative Results from Online Complaint Respondents						

Theme	Definition	Freq.	Percent	Comments*
Speed	Immediacy of complaint delivery & resolution	77	25.3%	"It's the fastest way of communication and can be tracked of "; "E-mailing or filling out a web form is the fastest way to relay a complaint - no waiting on hold"; "Speed is the biggest factor, no need to wait for an operator."; "Online is the fastest way of sending the complaints and getting answers without wasting much of time."; "efficient in time"
Convenience	Availability/accessibility of complaint filing method	65	21.4%	"saves me time and I can do it whenever I have the chance and wherever I am."; "E-mail is readily available, easy to use, and can be written/read at one's convenience."; "Ease of use, immediacy even when remote."; "I can complain at midnight from home"; "I can do it when I think of it"
Easy	Simplicity of filing and communicating throughout the process	48	15.8%	"For the ease of use"; "it is the easiest for me"; "Its simple to use"; "ease"
paper trail	Written record of complaint	31	10.2%	"Because the company cannot say that they did not receive the message."; "have a record that is easy to handle afterwards"; "the facts of the situation can be resolved in writing, great for later problems if they continue to be left unresolved."
Accuracy	Ability to convey accurate information	16	5.3%	"All details of the complaint can be provided and documented and it does not require long waits"; "E- mail allows one to think over what they want to say and ensures that the business received it right away"; "Ease and do not have to explain myself over and over again to a service rep";
Resolution	Results of the complaint process	15	4.9%	"I ranked them in that way considering the amount of time I invest in making the complaint, and the time of response."
Anonymity	The absence of face-to-face interaction and the ability to remove stereotypes and tone from the facts	15	4.9%	"completely explain my position without interruption"; "less confrontational, don't have too argue";"Plus it forces me to slow down and be less angry about the problem."; "words feel more rational and reasonable";
Cost	Amount of money to file	14	4.6%	"Inexpensive"; "cost least time and money on the part of the customer."; "Because i live in Peru. The fastest and cheapest mean to complain is the email";
Acknowl- edgement	Company's notification of awareness of complaint	12	3.9%	"Ease of communication and confirmation that complaints have been received and subsequently dealt with"; "Immediate access and potential for immediate resolution."; "most responses are fairly quick"; "you get responses easier"
Account- ability	Knowing that a company's representative is actively addressing my concern	8	2.6%	"subject to confidence that the receiving company actually has the commitment to using the technology appropriately."; "Serious"; they have to read the comment I think it is taken more seriously"
human interaction	Interaction with individuals	3	1.0%	"will reach the person in real time, where he can analyze the nature of complaint"
	ents addressed multiple theme ondents; n = 304 total response			

Definition immediacy of nowledgement and resolution e ability to interact with an individual results of the complaint process vailability/access- ity of the complaint filing method e ability to convey curate information eling that company enuinely concerned about the failed	Freq. 139 101 98 55 54	% 20.4% 14.8% 14.3% 8.1% 7.9%	Comments * "I can get answers immediately;" "A complaint should be handled immediately;" "Launching a complaint through phone is easy and additional information can be easily exchanged during the first interaction;" "efficient." "Dealing directly with humans is more effective"; "I don't have the time to meet someone face to face, but strongly prefer to actually talk to a person;" "I like to be able to explain exactly what I mean and to modify my explanation as the representative responds." "By addressing the issue through a face-to-face interaction, it is a lot easier to ensure that you will get a resolution."; "quickest way to fix the problem." "Phone is convenient;" "you can perform wherever you want;" "You can speak directly to a rep.;" "can be done from anywhere;" "I can call from work at my convenience;" "I have no time to go to an office or to send papers." "It gives better opportunity to explain the problem and get feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
nowledgement and resolution e ability to interact with an individual results of the complaint process vailability/access- ity of the complaint filing method e ability to convey curate information eling that company enuinely concerned	101 98 55	14.8% 14.3% 8.1%	handled immediately;" "Launching a complaint through phone is easy and additional information can be easily exchanged during the first interaction;" "efficient." "Dealing directly with humans is more effective"; "I don't have the time to meet someone face to face, but strongly prefer to actually talk to a person;" "I like to be able to explain exactly what I mean and to modify my explanation as the representative responds." "By addressing the issue through a face-to-face interaction, it is a lot easier to ensure that you will get a resolution."; "quickest way to fix the problem." "Phone is convenient;" "you can perform wherever you want;" "You can speak directly to a rep.;" "can be done from anywhere;" "I can call from work at my convenience;" "I have no time to go to an office or to send papers." "It gives better opportunity to explain the problem and get feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
results of the omplaint process vailability/access- ity of the complaint filing method e ability to convey curate information ling that company enuinely concerned	98 55	14.3% 8.1%	have the time to meet someone face to face, but strongly prefer to actually talk to a person;" "I like to be able to explain exactly what I mean and to modify my explanation as the representative responds." "By addressing the issue through a face-to-face interaction, it is a lot easier to ensure that you will get a resolution."; "quickest way to fix the problem." "Phone is convenient;" "you can perform wherever you want;" "You can speak directly to a rep.;" "can be done from anywhere;" "I can call from work at my convenience;" "I have no time to go to an office or to send papers." "It gives better opportunity to explain the problem and get feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
e ability to convey curate information	55	8.1%	 it is a lot easier to ensure that you will get a resolution."; "quickest way to fix the problem." "Phone is convenient;" "you can perform wherever you want;" "You can speak directly to a rep.;" "can be done from anywhere;" "I can call from work at my convenience;" "I have no time to go to an office or to send papers." "It gives better opportunity to explain the problem and get feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
e ability to convey curate information			"Phone is convenient;" "you can perform wherever you want;" "You can speak directly to a rep.;" "can be done from anywhere;" "I can call from work at my convenience;" "I have no time to go to an office or to send papers." "It gives better opportunity to explain the problem and get feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
curate information ling that company enuinely concerned	54	7.9%	feedback on the same;" "clear communication;" "Because in this situation I can ask easily what is on my mind and can
enuinely concerned			get answer as clear as I need;" "Should there be clarification needed, the problem could be resolved on the spot;" "Nothing is lost in the translation."
experience	49	7.2%	"Least likely to forget about it;" "Face-to-face, you can understand my concerns better and the manager just can't brush you off;" "To me it seems more legitimate and formal if done by letter to the company's corporate office."
plicity of filing and communicating bughout the process	48	7.0%	"Easiest to communicate in person;" "much easier to convey why you are unhappy, and talk about the whole situation;" "Easy to do& can be done the minute you find a problem."
knowing that a company representative is vely addressing my concern	47	6.9%	"It's easier to explain the situation to an actual person - plus, you KNOW that someone is there receiving your complaint;" "I would like to have the name of a person should I have to refer back to complain again;" "It gets more personal when you face someone and it is not so easy to simply dismiss or pass the issue along to someone else."
pany's notification awareness of the complaint	32	4.7%	"Quick reply;" "You get instant feedback on your complaint;" "I know that I am being heard;" "I know that someone actually hears me;" "immediate attention."
itten record of the complaint	26	3.8%	"Mail provides the best form of documentation;" "Provides a written and authenticated record for future reference;" "You have a receipt record and it makes it official w/ signature."
ability to interpret nonverbal cues	19	2.8%	"Face-to-face allows me to see their body language to truly tell if they care about my problem;" "They can see you, read your body language and you can see how they react, versus the opposite;"" Facial expression allows for more understanding of my disappointment in the product/service."
absence of face-to- ce interaction and ability to remove	11	1.6%	"You have a live conversation without having the person see you and take certain factors into consideration (age, race, etc.) when handling the problem;" "The phone allows you some distance to not be put on the spot or be easily shrugged off by a salesperson/rep, yet affords an immediate way to resolve the situation without it escalating."
1 1 2 2	ability to interpret nonverbal cues absence of face-to- e interaction and ability to remove reotypes from the facts	ability to interpret nonverbal cues191919ubsence of face-to- te interaction and ability to remove11reotypes from the facts11	ability to interpret nonverbal cues192.8%192.8%ubsence of face-to- e interaction and ability to remove reotypes from the111.6%

 TABLE 5

 Qualitative Results from Conventional Complaint Respondents

DISCUSSION AND MANAGERIAL IMPLICATIONS

Interactional Justice for Online and Offline Complaints

A couple of earlier studies on consumer complaint satisfaction that used justice theory as an underpinning have resulted in findings that illuminate the importance of interactional justice. This is particularly the case in research on relationship marketing (Goodwin and Ross 1992; Hartline and Ferrell 1996). Our research provides more specific insight on interactional justice based on consumers' authentic complaint occasions in both online and offline genres.

The predominant finding is that interactional justice does not have the same meaning (emphasis/importance) for online complaint consumers. Offline respondents ranked human interaction as their 2nd most important theme. Human interaction ranked twelfth for online complaint consumers. Online respondents ranked anonymity as their 7th most important theme. Online respondents enjoyed the absence of the face-to-face interaction. They also preferred filing a complaint without being interrupted, having an argument or being judged based on stereotypes. Conversely, some offline complaint consumers who used the "face-to-face" mechanism actually viewed the "confrontation" aspect of the complaint process as being conducive to getting a more favorable outcome.

Interactional justice is at the heart of understanding how online complaint consumers perceive justice in the absence of human interaction. In general, respondents who preferred the human interaction felt that their preferred method expedited the complaint resolution process. Some of these consumers preferred the face-to-face mechanism but interestingly some of the individuals who preferred the phone gravitated to the benefits of the human interaction. With the face-to-face mechanism, complaint filers could read the body language of the company representative. With the phone mechanism, the grievance filer could interpret the tone of voice or written language. Respondents viewed this as an important factor in achieving a desired result.

For these conventional complainers, interactional justice meant that the consumers wanted the tangible human interaction. This was

evidenced by the conventional complainers being happy about making themselves known to the companies to which they were complaining. The online complainers, conversely, enjoyed the anonymity the use of technology afforded them. These online complainers were happy about *not* being known to the companies to which they were complaining.

These findings provide insight for justice theory in general and justice theory as it applies to the online environment in particular. The two interactional justice themes that were revealed are surrogates for the most poignant intuitive differences between the needs of online consumers versus the needs of offline consumers. Some online complaint consumers as well as some phone, mail and fax complaint consumers seek the anonymity that technology or some other form of the "lack" of close physical contact affords. Offline consumers seek the transparency and openness that predominantly face-to-face or on occasion, phone encounters afford.

Anonymity and Pseudonymity

The efficacy of human interaction is a generally accepted tenet of justice theory, and interactional justice in particular. However, we found that some consumers view the human interaction aspect of complaint handling as a less favorable attribute. These consumers perceive that they will get a more positive complaint handling outcome in an anonymous context such as an online exchange. One condition under which this sentiment can prevail is the worst case scenario whereby consumers feel there is a chance that they will not be treated fairly by the business. This can manifest when businesses and governments gather data on individuals or have them under surveillance. This can lead to "... fears of abuse or misuse, and even suspicions of discrimination and manipulation" (Zarsky 2004, p. 1,302). This concept is outlined in the human interaction/anonymity matrix in Table 3. The matrix accommodates all the key varieties of complaint handling mechanisms (phone, online, face-to-face, mail, and fax).

Aside from the obvious demarcation between high and low human interactions, juxtaposed against high anonymity, there lies the concept of Pseudonymity. In the context of complaint handling, Pseudonymity is viewed in two ways. On the one hand, consumers are not completely anonymous when complaining online, or by mail or fax. They do use some kind of moniker as an identifier. This moniker may or may not provide their true identify (e.g. in the case of an e-mail address). Sheehan and Hoy (1999) suggest that technology affords consumers the opportunity to not have their behavior associated with their authentic self.

Indeed a small portion of phone complaint consumers enjoyed the anonymity of not "facing" a company representative. However, they enjoyed the human interaction regarding discerning voice intonation. These blurred lines present further evidence of Pseudonymity in that the complainer is not completely anonymous.

The other aspect of Pseudonymity is that in a few instances in analyzing the qualitative feedback from the respondents, we found that some of the online complainers viewed human interaction in the form of *guardianship over the process* as being essential to ensuring that the complaint process was run well.

Procedural Justice for Online and Offline Complaints

The common eight procedural justice themes speak to a consumer-centered complaint handling process that, regardless of venue (online versus offline), creates the perception that the company is genuinely concerned about the consumer's post purchase experience. Essentially, respondents overwhelmingly expressed that the strength of a complaint process lies in the way in which the complaint is handled. Hence, the fairness aspect or equity is predominantly tied to process, or procedural justice. This finding generates exceptional implications with respect to designing and monitoring complaint handling within a business.

According to this research, what is required with handling complaints is a timely and dependable process that keeps the consumer informed about the progression of the complaint and the status of the complaint with respect to bringing it to a close. While providing these characteristics, the process needs to be convenient, easy, accurate, and speedy. When a company receives a complaint, the company needs to acknowledge that the complaint has been received and the company needs to acknowledge that it will work to rectify the complaint. The company also needs to indicate its accountability. Respondents desired the company that "wronged" them to receive and maintain evidence of the complaint in an efficient manner. Consumers preferring to use online, mail, and fax complaint methods were adamant that having a paper trail was necessary. This written record of filing a complaint, confirmation of receipt, and resolution provides a sense of security or "ensures" that the complaint will be taken seriously. Finally, respondents were clear that they wanted an actual resolution to their issue.

In addition, with respect to procedural justice, the ability to file a complaint from any place and at the convenience of the complaint filer was of great importance. This concept of convenience is related to time, distance, and technique. A significant portion of the respondent pool was international. They communicated that the idea of being able to file a complaint 24 hours a day, from any country, with access to the company, using the most practical means available, was deemed integral. Some of the comments that help to illustrate the concept of convenience are as follows: "It can be done from one's house as opposed to going to the post office, going to where a fax is accessible, or traveling by car to speak face-to-face"; "I have ... 24 hours access to internet and [it's] free less cumbersome": "As I reside in Vietnam, e - mail is a simple fast and cheap way to launch complaint."; and "Since I use my PC every day... it's the most convenient way to communicate."

Two of the additional themes that were important to the online and offline respondents independently were cost (for online consumers) and seriousness (for offline consumers). These too, are procedural justice themes. For online consumers, cost was one of the top ten important themes. Respondents felt that if they experience some dissatisfaction with the product or service at the fault of the product/service provider – then the complaint filing process should be able to be completed requiring minimal investment of time on the consumer's part. With respect to seriousness, offline consumers wanted to know that the company was genuinely concerned about the failed experience. The efficient communication on the part of the company makes the respondent feel that their complaint is being taken seriously.

Distributive Justice for Online and Offline Complaints

It is particularly notable that none of the distributive justice dimensions were ranked in the top ten themes. Our findings contradict those of Clemmer and Schneider (1996) and Smith et al (1999) for which distributive justice emerged as having dominant importance. The findings from our study also contradict Chang and Wang (2012) who specifically found compensation and apology (distributive justice dimensions) to be two of the four critical attributes of service recovery.

The use of authentic scenarios when analyzing justice theory in combination with qualitative research methods, resulted in procedural justice emerging as the dominant preferred justice dimension of both online and offline respondents. Conversely, research studies on justice theory that operationalize experimental design, and use undergraduate students (mostly from the U.S.), often result in findings that place greater interest on distributive justice (Gelbrich and Roschk 2011).

The absence of a distributive justice theme corroborates consumers' needs at a basic level for an expeditious, easy, convenient, communicative process that is brought to an conclusion. "Apology" explicit was conspicuously absent from the findings. In the past, "apology" has been a major issue in justice theory. The absence of apology and the absence of distributive justice themes as primary themes corroborates Davidow's assertion that apology represents psychological compensation and is therefore a distributive justice theme (Davidow 2003).

The classification of an apology in the justice typology continues to be an insightful one. Traditionally, the act of apologizing has been said to be a simple response that is not costly and satisfies the consumer (Zemke 1994). The findings in this paper that procedural justice is a key point for eradicating problems suggests that consumers are seeking more tangible evidence, as would be provided through the complaint satisfaction process, that a company is genuinely and authentically seeking to solve a problem.

Comments from respondents regarding the necessity for procedural justice also provided insight into their feelings regarding distributive justice. In essence, consumers viewed that there

would be parity in the remedy (distributive justice) in part because of the speed and feedback in the process. The speed and feedback efficiency suggested that the company took the complaint seriously and was doing its very best at solving the problem in a way that would make the consumer whole. Therefore, the person complaining was inclined to be receptive to the outcome irrespective of the value of the restitution. Hence, the way the problem was handled held more importance to the respondents than a required need to receive restitution. These sentiments also echo the Cho et al (2002) study stating that online consumers are concerned with costs as they relate to the time it takes to engage in the complaint handling process.

CONCLUSIONS AND FUTURE RESEARCH

An important insight from this study was the recognition of differences in the ways in which offline (conventional) and online (webbased) complaint consumers interpret interactional justice, one of the three justice theory dimensions. Our finding was that the key aspect of interactional justice (human interaction) is not regarded as being an essential aspect of a successful complaint handling process for all consumers who complain. Although for offline consumers, human interaction ranked the second highest theme regarding their perception of justice, this theme ranked twelfth in priority for online complaint consumers. Interestingly. anonymity ranked seventh for online consumers and only twelfth for offline consumers. Some online consumers actually prefer a complaint mechanism for which contact or interaction with a company agent is *not* explicitly a part of the complaint process. This would be particularly true of consumers who do not view confrontation as an essential aspect of receiving equitable treatment in the complaint process. It is also true of consumers who might perceive that companies could be biased in their complaint handling. In this regard, consumers' option to have anonymity in the complaint handling process is a favorable attribute. Therefore companies can leverage the online complaint option as a way to demonstrate that those companies provide equitable, unbiased, and expedient resolution to complaints.

Another important finding from this research was that procedural justice was found to be an integral part of the process for both online and offline complaint respondents. Eight of the top themes for both sets of respondents were held in common and were procedural justice themes.

Of significant note as well was the fact that distributive justice did not emerge among the top ten themes for either online or offline complaint respondents. We attribute this latter finding, in part, to the use of authentic complaint scenarios in the study, not relying exclusively on students as subjects, and the international profile of the sample pool of consumers.

Cho et al. (2001, p. 906) state, "Well implemented complaint management, as an ebusiness' defensive strategy, will have a great impact on ... web assessment issues, such as technological and operational issues." One way our research has managerial application is in how a business can operationalize its complaint handling processes whether it is transitioning from a "bricks and mortar" operation to an "online" venue or simply mechanizing the complaint process. There may be some services that cannot be optimally executed online. However, for those services that can be moved to the online environment, companies need not have fear of alienating or otherwise antagonizing their customer base. On the contrary, for some consumers, the ability to use technology for the complaint process, and thus in some cases avoiding "confrontation" with a company representative, is in fact preferred. Technology also affords these consumers with a level of anonymity that they often seek.

Future research is needed to reveal the balance of justice dimensions in quantitative empirical explorations based on critical incidents when online and offline venues are juxtaposed. Given that the use of authentic scenarios here resulted in procedural justice emerging as the dominant preferred justice dimension of both online and offline respondents, further research in other online contexts is needed for strengthening the generalizability of the findings. In addition, insight on what motivates one's degree of anonymity sought would assist managers in understanding and catering to customers' preferences for complaint handling interaction as we move toward a higher intensity of technological interactions around the world.

Anonymity can be a double-edged sword for online complaint handling. The side of technology anonymity that may serve the consumer. might also cause distress for companies. Consumers are now capable of airing their complaints by writing reviews, blogs, tweets, and posting YouTube videos. According to research from EURO RSCG Worldwide, 43% of Internet users feel less inhibited online, displaying bolder behaviors and more aggressive methods of consumer complaints ("Consumers Free to Speak Their Mind Online" 2009). Technology has opened up avenues to consumers that can assist or make it difficult for businesses to keep control of their complaint handling and customer satisfaction mechanisms. These conditions deserve further investigation.

Another fruitful area of future study lies in an analysis of differences in preferences of American consumers versus consumers from other parts of the world. These analyses could also look at consumers in developed countries versus consumers in developing or emerging economies.

Finally, given new forms of technology such as Skype and social media, businesses can simulate the face-to-face contact if desired. These new forms of technology may prove to be the optimal bridge between online and offline interactions. These technologies may also enhance the convenience factor.

REFERENCES

- Abdul-Muhmin, Alhassan G. (2011), "Repeat Purchase Intentions in Online Shopping: The Role of Satisfaction, Attitude, and Online Retailers' Performance, " *Journal of International Consumer Marketing*, 23(1), 5-20.
- Adams, Stacey J. (1965), "The Social Psychology of Intergroup Relations," in L. Berkovitz (Ed.), Advances in Experimental Social Psychology (pp. 267-299), New York: Academic Press.
- Ahmad, Sohel (2002), "Service failures and customer defection: a closer look at online shopping experiences," *Managing Service Quality*, 12(1), 19-29.
- An, Kevin; Michael K. Hui, & Kwok Leung (2001), "Who Should Be Responsible? Effects of Voice and Compensation on Responsibility Attribution, Perceived Justice, and Post-Complaint Behaviors Across Cultures," *International Journal of Conflict Management*, 12(4), 350-364.

Austin, William (1979), "Justice Freedom and Self-Interest in Intergroup Relations," in William G. Austin & S. Worchel (Ed.), Social Psychology of Intergroup Relations, Belmont, CA: Brooks/Cole.

Berelson, Bernard (1952), Content Analysis in Communication Research, N.Y.: Free Press.

Bies, Robert J (2001), "Interactional injustice: The sacred and the profane," in J. Greenberg & R. Cropanzano (Ed.), *Advances in Organizational Justice*, (pp. 89-118). Stanford, CA: Stanford University Press.

Bitner, Mary Jo, Bernard M Booms & MaryTetreault (1990), "The Service Encounter: Diagnosing Favorable and Unfavorable Incidents," *Journal of Marketing*, 54(January), 71-85.

Bitner, Mary Jo, Stephen W.Brown & Matthew L Meuter (2000), "Technology Infusion in Service Encounters," *Journal of the Academy of Marketing Science*, 28(Winter), 138-149.

Blodgett, Jeffrey, Donald Granbois & Rockney G. Walters (1993), "The Effects of Perceived Justice on Complainants' Negative Word-of-Mouth Behavior and Repatronage Intentions," *Journal of Retailing*, 69(4), 399-428.

Blodgett, Jeffrey G., Donna J Hill & Stephen S Tax (1997), "The Effects of Distributive, Procedural and Interactional Justice on Postcomplaint Behavior," *Journal of Retailing*, *73*(2), 187-210.

Chang, Dong-Shang & Tao-Hsing Wang (2012), "Consumer Preferences for Service Recovery Options after Delivery Delay When Shopping Online," *Social Behavior and Personality*, 40(6), 1033 - 1044.

Chang, Hsin H., Meng-Kuan Lai & Che-Hao Hsu (2012), "Recovery of online service: Perceive- ed justice and transaction frequency," *Comp-uters in Human Behavior*, 28(6), 2199-2208.

Cho, Yooncheong, Il Im, Roxanne Hiltz, and Jerry Fjermestad (2001), "Causes and Outcomes of Online Customer Complaining Behavior: Implications for Customer Relationship Management (CRM)," Seventh Americas Conference on Information Systems.

Cho, Yooncheong, Il Im, Roxanne Hiltz & Jerry Fjermestad (2002), "The Effects of Post-purchase Evaluation Factors on Online vs. Offline Customer Complaining Behavior: Implications for Customer Loyalty," Advances in Consumer Research, 29, 318-326.

Clemmer, Elizabeth. C. & Benjamin Schneider (1996), "Fair Service," in Teresa A. Swartz, David . E. Bowen & Stephen . W. Brown (Eds.), *Advances in Services Marketing and Management*, (pp. 109-126). Greenwich, CT: JAI Press.

Consumers Free to Speak Their Mind Online (2009), Retrieved from http://www.emarketer.com/Article/Consumers-

Free-Speak-Their-Mind-Online/1007395

Council of Better Business Bureau (2010), "Complaints to Better Business Bureau Increase by Nearly Ten Percent in 2009," Retrieved from http://www.bbb.org/us/article/complaints-tobetter-business-bureau-up-nearly-10-percent-in-2009-18034

Davidow, Moshe (2003), "Have You Heard the Word? The Effect of Word of Mouth on Perceived Justice, Satisfaction and Repurchase Intentions Following Complaint Handling," *Journal of Consumer Satisfaction, Dissatisfaction and Complaining Behavior, 16*, 67-80.

de Matos, Celso Augusto, Daniel Fernandes, Rodrigo P. Leis, & Guilherme Trez (2011), "A Cross-Cultural Investigation of Customer Reactions to Service Failure and Recovery," *Journal of International Consumer Marketing*, 23(3/4), 211-228.

Etzel, Michael J. & Bernard I.Silverman (1981), "A Managerial Perspective on Directions for Retail Customer Dissatisfaction Research," *Journal of Retailing*, 57(Fall), 124-136.

Evardsson, Bo & Inger Roos (2001), "Critical Incident Techniques: Towards a Framework for Analyzing the Criticality of Critical Incidents," *International Journal of Service Industry Management*, *12*(3/4), 251-268.

Federal Trade Commission (2012), "FTC Releases Top Complaint Categories for 2011," Retrieved from http://ftc.gov/opa/2012/02/2011complaints.shtm

Forbes, Lukas, Scott W. Kelley & Douglas Hoffman (2005), "Typologies of e-commerce retail failures and recovery strategies," *Journal of Services Marketing*, 19(5), 280-292.

Fornell, C. (2010), "Fourth Quarter 2009: Retail Trade; Finance & Insurance; E-Commerce: American Customer Satisfaction Index," from http://www.theacsi.org/media-resources/acsiquarterly-commentaries-q4-2009

Fromkin, A. Michael (1999), "Legal Issues in Anonymity and Pseudonymity," *The Information Society*, 15(2), 113-127.

Gelbrich, Katja & Holger Roschk (2011), "A Meta-Analysis of Organizational Complaint Handling and Consumer Responses," *Journal of Service Research, 14*(1), 24-43.

Goetzinger, Lynn, Jung Kun Park & Richard Widdows (2006), "E-Customers' Third Party Complaining and Complimenting Behavior," *International Journal of Service Industry Management, 17*(2), 193-206.

Goodwin, Cath, & Ivan Ross (1992), "Consumer responses to service failures: Influence of procedural and interactional fairness percept-ions," *Journal of Business Research*, 25, 149-163.

Gremler, Dwayne D. (2004), "The Critical Incident Technique in Service Research," *Journal of Service Research*, 7(1), 65-89.

- Ha, Jooyeon & Soo Cheong Jang (2009), "Perceived justice in service recovery and behavioral intentions: The role of relationship quality," *International Journal of Hospitality Management*, 28(3), 319-327.
- Harris, Katherine E., Dhruv Grewal, Lois A.Mohr & Kenneth L.Bernhardt (2006), "Consumer Responses to Service Recovery Strategies: The Moderating Role of Online Versus Offline Environment," *Journal of Business Research*, 59, 425-431.
- Harris, Katherine E., Lois Mohr & Kenneth Bernhardt (2006), "Online Service Failure Consumer Attributions and Expectations," *Journal of Services Marketing*, 20(6/7), 453-458.
- Hart, Christopher W. L., James L Heskett & W. Earl Sasser, Jr. (1990), "The Profitable Art of Service Recovery," *Harvard Business Review*, 68(July/August), 148-156.
- Hartline, Michael D. & O. C. Ferrell (1996), "The Management of Customer-Contact Service Employees: An Empirical Investigation," *Journal* of Marketing, 60, 52-70.
- Hayes, Julie M. & Arthur Hill (1999), "The Market Share Impact of Service Failures," *Production and Operations Management*, 8(3), 208-220.
- Holloway, Betsy B., & Sharon E. Beatty (2003), "Service Failure in Online Retailing: A Recovery Opportunity," *Journal of Service Research*, 6(1), 92-105.
- Holsti, Ole R. (1969), *Content Analysis for the Social Sciences and Humanities*, Reading, MA: Addison-Wesley.
- Homans, George Casper (1961), Social Behavior: Its Elementary Forms, N. Y.: Hartcourt-Brace.
- Indvik, Lauren (2011), "Forrester: E-Commerce to Reach Nearly \$300 Billion in U.S. by 2015," Retrieved from http://www.mashable.com/2011/02/28/forrester-ecommerce/
- Karatepe, Osman M. (2006), "Customer complaints and organizational responses: the effects of complainants' perceptions of justice on satisfaction and loyalt,". *International Journal of Hospitality Management*, 25(1), 69-90.
- Kehoe, Colleen, Mames Pitkow & Kimberly Morton (1997), "Eight WWW User Survey [Internet. WWW]," from
 - http://www.cc.gatech.edu/gvu/user_surveys/survey -1997-10/
- Kelley, Scott W., Douglas Hoffman & Mark A.Davis (1993), "A Typology of Retail Failures and Recoveries," *Journal of Retailing*, 69(4), 429-452.
- Krippendorf, Klaus (1980), *Content analysis: An introduction to its methodology* (2nd ed.), Beverly Hills: Sage Publications.

- Lin, Hsin-Hui, Yi-Shun Wang & Li-Kuan Chang (2011), "Consumer Responses to Online Retailer's Service Recovery After a Service Failure: A Perspective of Justice Theory," *Managing Service Quality*, 21(5), 511-534.
- Malhotra, Naresh K. (1966), *Marketing Research: An Applied Orientation*, Upper-Saddle River, NJ: Prentice Hall.
- Martinez-Tur, Jose Peiro Vicente, Jose M. Ramos & Carolina Moliner (2006), "Justice Perceptions as Predictors of Customer Satisfaction: The Impact of Distributive, Procedural, and Interactional Justice," *Journal of Applied Social Psychology*, 36(1), 100-119.
- Maxham,III, James G. & Richard G.Netemeyer (2003), "Firms Reap What They Sow: The Effects of Shared Values and Perceived Organizational Justice on Customers' Evaluations of Complaint Handling," *Journal of Marketing*, 67(46-62).
- Mccoll-Kennedy, Janet R. & Beverly A.Sparks (2003), "Application of Fairness Theory to Service Failures and Service Recovery," *Journal of Service Research*, 5(3), 251-266.
- McCollough, Michael A. & Sundar G Bharadwaj (1992), "The Recovery Paradox: An Examination of Consumer Satisfaction in Relation to Disconfirmation, Service Quality, and Attribution Based Theories," in Chris T. Allen et al. (Eds.), *Marketing Theory and Appllications*, Chicago: American Marketing Association.
- McMahon-Beattie, Una (2011), "Trust, fairness and justice in revenue management: Creating value for the consumer,". *Journal of Revenue & Pricing Management, 10*(1), 44-46. doi: 10.1057/rpm.2010.42
- Montaqim, Abdul (2012), "Global E-commerce Sales Will Top \$1.25 trillion by 2013," Retrieved from http://www.internetretailer.com/2012/06/14/
- Parasuraman, A. & Dhruv Grewal (2000), "The Impact of Technology on the Quality-Value-Loyalty Chain: A Research Agenda," *Journal of the Academy of Marketing Science*, 28(1), 168-174.
- Parasuraman, A., Valarie A. Zeithaml & Leonard L. Berry (1988), "SERVQUAL: A Multi Item Scale for Measuring Consumer Perception of Service Quality," *Journal of Retailing*, 64, 12-40.
- Robertson, Nichola, Lisa McQuilken & Jay Kandampully (2012), "Consumer Complaints and Recovery Through Guaranteeing Self-Service Technology," *Journal of Consumer Behavior, 11*, 21-30.
- Roos, Inger (2002), "Methods of Investigating Critical Incidents," *Journal of Service Research*, 4(3), 193-204.
- Schmidt, Sandra L. & Jerome B. Kernan (1985), "The Many Meanings (and Implications) of 'Satisfaction Guaranteed'," *Journal of Retailing*, 61(Winter), 89-108.

- Shankar, Venkatesh, Amy K. Smith & Arvind Rangaswamy (2003), "Customer Satisfaction and Loyalty in Online and Offline Environments," *International Journal of Research in Marketing*, 20(2), 153-175.
- Sheehan, Kim Bartel, & Mariea Grubbs Hoy (1999), "Flaming, Complaining, Abstaining: How Online Users Respond to Privacy Concerns," *Journal of Marketing*, 28(3), 37-51.
- Smith, Amy K., Ruth N.Bolton & Janet Wagner (1999), "A Model of Customer Satisfaction with Service Encounters Involving Failure and Recovery," *Journal of Marketing Research*, 36 (August), 356-372.
- Tax, Stephen S., Stephen W Brown & Murali Chandrashekaran (1998), "Customer Evaluations of Service Complaint Experiences: Implications for Relationship Marketing," *Journal of Marketing*, 62(April), 60-76.
- Taylor-Powell, Ellen & Marcus Renner (2003), "Analyzing qualitative data," Retrieved from http://www.uwex.edu/ces/pdande
- Thomas, Lionel & Juline E. Mills (2006), "Consumer knowledge and expectations of restaurant menus and their governing legislation: a qualitative assessment," *Journal of Foodservice*, *17*(1), 6-22.
- Woelfel, Joseph (1990), *Galileo Catpac: User Manual* and Tutorial (Version 3.0), Amherst NY: The Galileo Company.
- Worsfold, Kate, Jennifer Worsfold & Graham Bradley (2007), "Interactive Effects of Proactive and Reactive Service Recovery Strategies: The Case of Rapport and Compensation," *Journal of Applied Social Psychology*, 37(11), 2496-2517.
- Wu, Ing-Long (2013), "The Antecedents of Customer Satisfaction and its Link to Complaint Intentions in Online Shopping: An Integration of Justice,

Technology and Trust," *International Journal of Information Management*, 33, 166-176.

- Zarsky, Tal Z (2004), "Thinking Outside the Box: Considering Transparency, Anonymity, and Pseudonyumity as Overall Solutions to the Problems of Information Privacy in the Internet Society," *University of Miami Law Review*, 58(May 10), 1301-1354.
- Zemke, Ron (1994), "Service Recovery," *Executive Excellence*, *11*(9), 17-18.
- Zemke, Ron & Claude Bell (1990), "Service Recovery: Doing it right the second time," *Training*, 27(June), 42-48.

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IMPROVING PRODUCT FUNCTIONALITY FOR CONSUMERS WITH DISABILITIES: THE CASE OF A CUSHION TO PREVENT PRESSURE ULCERS IN WHEELCHAIR USERS WITH SPINAL CORD INJURIES

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ABSTRACT

Patients with mobility impairments who are wheelchair-bound (users) need to avoid the incidence of pressure ulcers, for which it typically is necessary to have a special cushion. The Rehabilitation Engineering Laboratory from the Instituto Nacional de Rehabilitación (INR) has developed a prototype cushion product.

The objective of this article is to demonstrate and understand how user perceptions can help to improve functionality in the product design of a wheelchair cushion. A satisfaction assessment model is developed such that a specific and holistic perspective of user perceptions regarding the prototype wheelchair cushion is taken into account. The approach taken allows for the evaluation of satisfaction over time.

Key words: customer satisfaction, improved product design, customer/user evaluation.

INTRODUCTION

Gleaning users' perceptions regarding new or upgraded products has become a requirement to allow for continuous improvement. The objective of this case study is analyze the contribution of user perception on the functionality of a wheelchair cushion product design in order to enable improvements.

When we are talking about health, any contribution to the improvement of the product should be reflected in an increased quality of life for users. As Donabedian states (1992, p. 21), the quality of health care is "the degree to which the most desirable means are used to achieve the highest possible improvements in the health of each patient-user."

Embellishing upon this definition, Ruelas-Barajas in his public health research publication "Quality, Productivity and Costs" (1993) indicates that any improvement which involves greater product quality is a concept that must be judged on two closely interrelated and interdependent dimensions:

- The first is a technical one, represented by knowledge application and techniques for solving a patient's problem, which is normally reflected by the medical team.
- The other dimension is represented by the patient-user's relationship with the product and who supplies it.

As part of health care service, the purpose of Rehabilitation is to help an individual achieve the highest level of independence and quality of life possible, after a serious injury, illness or surgery.

One branch of rehabilitation service is orthotics and prosthetics, with goals to "restore the physical functioning and improve the overall welfare of patients through the provision of a device" (Peaco 2011, p. 95). Orthotics are external devices designed to modify the neuromuscular and skeletal system. A prosthetic is a device that replaces a missing body part. The design of a wheelchair cushion falls under the rehabilitation branch of medicine.

An assistive device should compensate for decreased or lost function and ability to manage daily life, maintain and preferably increase function and ability, and prevent future loss of function and ability (Samuelsson et. al, 2008). Satisfaction in this project, therefore, is defined "as a person's critical and positive evaluation of several aspects of a device" (Demers 2002, p. 102). Assistive devices are evaluated primarily by the medical team through technical procedures, testing devices and apparatus. The user's participation in this evaluation is typically limited to answering questions related to their health.

Peaco et al. (2011) developed a systematic literature review about assessing satisfaction with orthotic devices and services. The computerized databases analyzed were: PubMed (1950 to January 2010), CINAHL (1982 to January 2010), and RECAL Legacy (1900 to 2007). These authors found only a small number of unique publications about formalized measures of satisfaction. Several evaluations regarded specific devices other than wheelchair cushions (e.g.: elbow-wrist-hand Other articles reported generic orthotics). evaluations to apply to all services of this branch. Notably, Peaco et al.'s comprehensive literature review did not uncover even a single specific evaluation of satisfaction vis-a-vis different types of wheelchair cushions.

Another literature review specifically conducted in advance of this study found that the Quebec User Evaluation of Satisfaction with Assistive Technology Version 2.0 (QUEST 2.0) survey developed by Demers, Weiss-Lambrou and Ska (2002) and reported by Peaco et al. (2011) has been used to evaluate wheelchair cushion satisfaction in Canada (Barlow, Liu and Sekulic 2009) and China (Chan and Chan 2006).

The QUEST 2.0 is an outcome measurement instrument to evaluate a person's satisfaction with a wide range of assistive technology (Demers 2002) which evaluates both the device and the service. The device is assessed on eight variables: comfort, weight, durability, adjustments, simplicity of use, dimensions, effectiveness, and safety. The service aspect is assessed with four variables: delivery, professional service, follow up, and repairs and servicing.

Currently, the literature does not reveal a specific instrument to measure user satisfaction of wheelchair cushions that include the factors of functionality. The application of the QUEST 2.0 to evaluate general satisfaction with a wheelchair cushion is an important advance, but it does not include the evaluation of the specific factors of the wheelchair cushion's functionality, as proposed by current models of customer satisfaction. To maximize the improvement process of this product requires more specific and precise information.

The Mexican National Rehabilitation Institute (INR in Spanish), in the Rehabilitation Engineering Laboratory under the coordination of Professor Diana Gayol, designed and developed a prototype wheelchair cushion for wheelchairbound patient/users, specifically those with spinal cord injuries. This wheelchair cushion was designed to prevent the formation of pressure ulcers, one of the most common complications of extended wheelchair use. Researchers estimate that such patients as these develop this kind of ulcer in 50% to 80% of the cases (Brienza, D., Iñigo, R., Cheng, K., 2003).

According to Cannon and Cannon (2004, p: 64), "ulcers are an area of damage caused by constant pressure, repetitive friction, and / or interruption of blood flow in a localized area, impeding the flow of oxygen to the cells of this tissue. If the pressure isn't released, the result is likely to be necrosis."

Among the devices used to prevent pressure ulcers are pressure redistribution attachments that conform themselves to the shape of the patient and distribute pressure to a larger area (Nixon, J. *et al.*, 2006). Poveda et al. (2000) present different types of wheelchair cushions:

- Foam cushions: inexpensive and low maintenance, but they become compressed over the time.
- Air cushions: lightweight and effective support but with high costs.
- Seats of water: climate comfort, but heavy.
- Gel cushions: effective support but heavy.
- Finally, custom made cushions: help to maintain posture and redistribute pressure away from high risk areas (not commercially known in Mexico).

The last type of wheelchair cushion is the object of study for this article (i.e., the prototype developed by the Laboratory of Rehabilitation).

RESEARCH PURPOSE

The last type of wheelchair cushion in the list presented above is the object of study for this article (i.e., the prototype developed by the Laboratory of Rehabilitation).

The goal is to identify how user perception, regarding the functionality of the wheelchair cushion in their daily life experiences, contributes to the product design by identifying improvement opportunities.

THEORETICAL FRAMEWORK

To measure satisfaction as a perceived quality of a product, some satisfaction models are used as the cornerstones for further research. They involve the participation of the users as the main source of evaluation. The following models for the assessment of satisfaction are cornerstones for this study:

- ACSI (American Customer Satisfaction Index, University of Michigan).
- IMSU (Mexican Satisfaction Index User-Universidad Iberoamericana, Mexico City).
- Deficiencies Model from Parasuraman, Berry and Zeithaml.
- Applications in the health field, such as the model for assessing the quality of service of a Public Health Institution (PHI) which is highly complex in its user satisfaction component (Bristow, 2001) and the model which Carina Rey (2000) entitled 'The user satisfaction: a concept on the rise,' among others.

The importance of modelling user satisfaction evaluation from different points of view is to determine the common elements of input and output that must be considered in a final, single model. Thus, we have:

Inputs:

- User Expectations.
- The perceived quality of the product.
- The activities or components of the process that influence
- perceived quality.

Processing element:

- User satisfaction.
- Elements of outputs:
 - Confidence in the product.
 - Recommendation or opinion to offer others.
 - Complaints that become improvement opportunities.

We believe that all of these elements must be considered in the development of research when evaluating a product's user perception and impact on user satisfaction.

Perception of Functioning

Very specifically and within the scope of this research, there are specialized studies in the design of seats in which the main objective is to attain good quality for spinal cord injury wheelchair users. Within these category of study, Sprigle, S., Faisant, T., K. Chung stand out, mainly because of their publication "Clinical Evaluation of Custom-Contour Cushions for the Spinal Cord Injured," in which they indicate that all seats should be functionally assessed considering the following factors:

1. Trunk control: determined by the observation of patient stability while sitting and extending forward and backward.

2. Position: estimated by palpation and observation of the symmetry of the trunk, anteroposterior tilt of the pelvis, and general appearance.

3. Transfer capacity: estimated by identifying any change in the effort or the assistance received at the moment of the evaluation.

4. Comfort: evaluated by the people at rest and during propulsion.

5. Skin reaction: estimated as redness or skin irritation in the buttocks.

6. Propulsive power: identified by changes in the stability or the skill required to navigate different slopes and soil surfaces.

7. Ability to release pressure: for laterality or weight change, estimated by the ability to (re)position on the cushion.

8. Spasticity: evaluated at each cushion.

These factors are each a benchmark for assessment of the functionality or process activities (inputs) of the wheelchair cushions developed by the Rehabilitation Engineering Laboratory within the protocol-SALUD-CONACYT 2006-01-45395.

To further understand the functional independence of a spinal cord injury patient in a wheelchair, the internationally valid independence measures scale (FIM, for its acronym in English) is used to quantify objectively the degree of patient disability at any given time and measure changes that occur in the treatment of rehabilitation. The scale assesses a total of 18 activities, grouped in two dimensions, 13 motor items (relating to selfcare, continence and ambulation) and 5 cognitive items. Each of the activities is valued from 1 to 7, where 1 indicates total dependence and 7 complete independence. The final score varies between 18 and 126 (Vilches et al. 2009).

All these references allow us to frame theoretical research through the following question: how can user perception help to improve the functionality of a product in the design stage itself?

These references form the backdrop to this research in order to help determine how the user's perception of functioning in daily life contributes to product design and how user perception can influence the continued improvement of the cushion product.

RESEARCH METHOD

The design of the specific model of satisfaction evaluation for the prototype seat is based on the application of the methodology of the ACSI through IMSU experience as an adaptation to the satisfaction assessment system in Mexico (Lobato *et al.* 2006).

The functionality assessment factors offered by Sprigle et al. (1990) were taken into account while determining the input elements, with spasticity removed due to the fact that the sample did not have spasticity.

To arrive at a project definition, the design (see Figure 1) considered the following features:

• *Inputs:* the functionality aspects such as control of the trunk, posture, ability to transfer, comfort, skin reaction, propulsion ability and ability to relieve pressure; all of these inputs were supplied by the user. Likewise, the users' expectations and perceptions of quality are also considered as inputs.

Process elements:
satisfaction determination.

Output elements: complaints management, ability to make recommendations to third party and confidence level.

The proposed model is formulated based on a descriptive, longitudinal study.

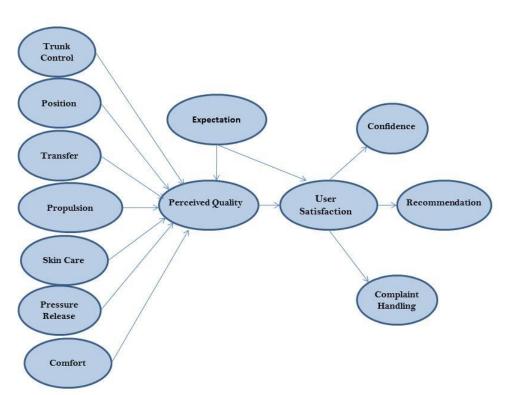
Subject Recruitment

Fifteen volunteers with a spinal cord injury diagnosis were recruited, all of them beneficiaries of the INR in coordination with the Humanist Foundation to Assist the Disabled (FHADI, Fundación Humanista de Ayuda a Discapacitados, in Spanish). They all signed an informed consent document to participate in the research protocol which includes the assessment of their perception and their satisfaction. The characteristic of impaired mobility of the recruited persons complicates their transfer from their home to the INR. Also, these recruited persons needed to comply with medical and psychological criteria, factors which reduced the size of the population and resulting sample of such individuals.

Inclusion criteria were: FIM (Independence of functionality measurement) of more than 75 points, more than 2 years of evolution with the injury, not having another kind of disease, both sexes, aged between 18 and 60, having their own wheelchair and experience in using it.

The average age of the 15 users was 31.5 years ($\sigma = 7.35$) within the range of 22 to 47 years; there were eight men and seven women. The time since spinal cord injury was 8.27 years on average ($\sigma = 4.81$) with a minimum of three and a maximum of 22 years in the total sample. Even though the sample size was small, it included participants whose spinal cord injuries were situated in different levels: in two cases, it was at a cervical level (13%), in four cases it was at a high thoracic level (T1-T6) (27%), in eight cases, lower thoracic (T7-T12) (53%), and one case, lumbar (7 %).

FIGURE 1



Proposed Satisfaction Assessing Model of Prototype Seat

Observation Times

The methodology consisted of measurements from three different points in time in order to observe the hoped-for improvement of the wheelchair cushion design. As such, this longitudinal study provided for the possibility of a continuous, modifiable process:

• Initially, "time zero", before use of prototype wheelchair cushion.

• After one month of use of the prototype wheelchair cushion, the "time one" portion of the study was conducted by the same researcher.

• After a year (12 months) of use, the "time two" portion of the study was conducted by the same researcher.

The data collected was used to design an instrument for the assessment of the wheelchair seats from the perspective of the users, and

consisted of two sections (see **Appendix 1 and 2**): the first contains user expectations and perceived quality of a previous wheelchair cushion; the second section includes information after more than a month of use about perceived quality, overall satisfaction and every aspect of the aforementioned functionality of the prototype seat.

These instruments were administered in semi-structured form and were applied by only one researcher through personal interviews (face to face). We believe that this procedure led to richer, more useful user experiences and testimonies about perception of functioning.

Assessment Procedure

Time Zero Measurements

<u>Step 1:</u> At the beginning of the protocol, a technical evaluation (in order to be considered in the design of the prototypes seats) was applied to

each user by medical specialists. This evaluation included elements such as:

• The International Instrument for Functional Independence Measure (FIM, by its acronym in English).

• User propulsion angle measurements once seated in his/her wheelchair with his/her previous wheelchair cushion.

• Pressure map with the Force Sensory Array® (FSA) which verified the conditions of pressure brought by the user because of his/her wheelchair and his/her previous wheelchair cushion.

<u>Step 2:</u> A semi-structured interview was conducted based on an instrument previously defined for each user in order to collect information on:

• The expectations the each user had when they entered the protocol.

• The perceived quality of each user's seat cushion prior to entering the protocol.

This semi-structured interview was part of the methodology IMSU used to determine user satisfaction when there is no measuring instrument defined and validated for assessing wheelchair cushions.

We believe that it is noteworthy that, according to Woods (1987), semi-structured interviews as a qualitative methodology to identify user opinion or perception is broad in its application, and allows the gathering of more information. The study of experiential cases, the comparative description of parameters, the possibility of going into complaints in depth and identifying opportunities for improvement, are just some of the benefits of a semi-structured interview in which, face to face (Lobato et al. 2006), the interviewer and the respondent create an empathetic connection in the knowledge of the situation under study.

Besides the open-ended questions, the interviewer asked about issues that were assessed through a visual analogue scale (VAS) of 10 levels for each factor, where 10 was the maximum and 1 the minimum value (see Q's in **Appendix 1**).

<u>Step 3:</u> A prototype wheelchair cushion adapted to each subject's anthropometric measurements and fitted to the user's wheelchair was designed and delivered. Each prototype took into account all of the technical comments made by the physicians and engineering specialists team, as identified in step 1.

Measurements in "time one"

<u>Step 4</u>: A control evaluation for each user was carried out by the medical team after a month of use, applying again the FIM, the measurements of the propulsion angles and the map of pressures with the Force Sensory Array® (FSA). The results revealed that none had points of pressure.

<u>Step 5</u>: Another section of the semistructured interview was conducted (see Q's in **Appendix 2**), using the 10 level VAS in order to assess elements of the proposed model, such as the perceived quality of the seat and the 7 factors of functionality for the inputs elements, and the general satisfaction for the processed element. The output elements were trust recommendations to third parties and complaints management.

<u>Step 6</u>: This step involved adjusting the seat design based on medical assessments and the feedback given by the users' perceptions and experiences (including graphs of pressure maps and photographs of design improvements in each case).

Measurements in "time two"

<u>Step 7:</u> Twelve months later, monitoring and control steps 4 and 5 were repeated.

The information gathered from the semistructured interviews was processed in order to determine any trend in the results of the evaluation of perceived quality, satisfaction based on user perception, and every aspect of functionality of the delivered prototype wheelchair cushion.

OUTCOMES

Time "Zero"

<u>Step 1</u>: In the implementation of the medical assessment, the following results were obtained:

• The FIM average was 112.3 (on a scale from 0 to 126 points, where 126 is adequate).

• Only 13.3% of the patients presented propulsion angles of 120° . This angle of propulsion (120°) is an average standard (which C. Brubaker (1992) considers adequate).

• 86.7% had inadequate propulsion angles (outside the range of 115° as a minimum and 130° as a maximum).

• Regarding the pressure maps, 100% of the patients had pressure areas above 70mmHg –which exceeds the maximum accepted value of pressure (H. Pain, 2002).

<u>Step 2</u>: The descriptive results of the semistructured interviews (see Q's in **Appendix 1**):

Input elements:

• Regarding the <u>expectation</u> that users had to be invited to participate in the research protocol of INR prototype wheelchair cushions, an average score of 8.53 (σ =2.29) was calculated. The scale used was 1 to 10 points.

During the semi-structured interview, it was shown that the motivations for low expectations ratings were influenced by: unpleasant previous experiences and fears that unpleasant experiences from previous protocols would be repeated; lack of credibility of the product based on the status as a prototype rather than a commercial product; failure to assess the product due to a lack of cost to users; and lack of knowledge of the organizations that support the research and its scope.

Regarding high expectations ratings, it was found that they were influenced by: previous positive experiences with INR and their protocols; the need for a product to help them; and finally, positive interactions with previous users of the same protocol.

• As for the <u>Perceived Quality</u> of their previous seat, a mean of 5.80 was obtained (σ =2.21). The scale used was 1 to 10 points where 10 equated to outstanding high quality.

<u>Step 3</u>: Fifteen prototype wheelchair cushions were individually designed, adapted to

the judged needs of each of the fifteen users, and delivered.

Time One and Time Two

Due to the fact that the assessment procedure was exactly the same for time one (after a month of use) and for time two (after 12 months), results are reported together and in a comparative manner.

<u>Step 4</u>: When making medical assessments of the user sitting in his/her prototype wheelchair cushion, the following issues were observed:

• No change had taken place in the FIM (medical assessment scale) in either a month or a year compared to time Zero. Thus, we can infer that no change had taken place in the wheelchair cushion design. However, there was variation in user perception, which was taken into account in order to adjust the wheelchair cushion design (see section below pertaining to the descriptive contributions of user perceptions).

• The angle of propulsion was adjusted to 100% in the given prototype wheelchair cushion design, and all users stayed within a range from 115° to 127° . Sixty-seven percent (67%) of the users specifically got an angle of 120° , which is considered adequate.

• The pressure maps for each wheelchair cushion scored higher distributions than the initial measures related to user support area and in compliance with the appropriate reference level of 70 mmHg (see example in **Figure 2**).

There was no skin reaction, and the formation of pressure ulcers was prevented in all cases (which was the objective of the prototype wheelchair cushion).

<u>Step 5</u>: When applying the semi-structured interview to user perception about the proposed model and regarding the input elements in terms of the specific features of functionality, the results were as follows (see **Table 3**).

TABLE 3

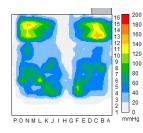
Results of the Input Elements: Functionality Factors after a Month and after a Year of Use of the Delivered Prototype Wheelchair Cushion

	Time	e One	Time	Two
	1 month	Standard deviation	12 months	Standard deviation
Trunk control	8.20	1.78	8.54	1.33
Position	9.20	1.61	9.31	0.95
Pressure release	8.80	1.78	9.46	0.66
Transfer	7.20	3.19	8.46	2.26
Propulsion	7.93	2.40	9.23	0.93
Skin reaction	8.60	2.64	9.77	0.60
Comfort	8.80	1.93	9.62	0.77

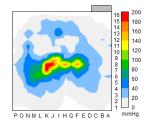
Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR, 2009.

FIGURE 2 Examples of Pressure Maps for the Same User

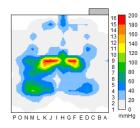
User's pressure map when sitting on previous seat



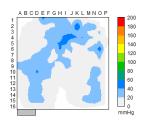
Pressure map evaluation in phase of design



Pressure map evaluation in phase of design



Final user's pressure map when sitting on prototype



- **Source**: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR 2009.
 - **Legend**: darker areas represent areas of higher pressure. Pressure less than or equal to 70 mmHg is considered appropriate.

Note: There was no skin reaction, and the formation of pressure ulcers was prevented in all cases (which was the overriding objective of the prototype wheelchair cushion project).

TABLE 4

Results of the Input Elements: Perceived Quality after a Month and a Year of Use of the Delivered Prototype Wheelchair Cushion

	Tim	e One	Time Two		
	1 month	Standard deviation	12 months	Standard deviation	
Product perceived quality	8.80	1.37	9.23	0.73	

Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR, 2009.

Process Element

The user satisfaction figures obtained are listed in Table 5.

TABLE 5

Process Element Results: General Satisfaction after a Month and a Year of Use of the Delivered Prototype Wheelchair Cushion

	Time	e One	Time Two		
	1 month	Standard deviation	12 months	Standard deviation	
General Satisfaction	9.00	1.20	9.31	0.85	

Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR, 2009.

Output items

Regarding the possibility of recommending the wheelchair cushion and the confidence that, in the future, this product may benefit other users, the data obtained is shown in **Table 6**.

Table 6

Results of the Output Items: Recommendation to Third Parties and Confidence Level after a Month and a Year of Use of Delivered Prototype Wheelchair Cushion

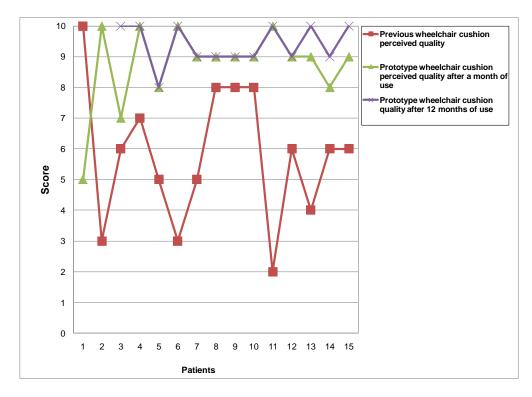
	Time	e One	Time Two		
	1 month	Standard deviation	12 months	Standard deviation	
Recommendation to third parties	9.67	0.62	9.92	0.28	
Confidence Level	9.80	0.56	10.00	0.00	

Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR, 2009.

To present an integrated analysis of user perceptions we established a comparison between the values of the previous seat (time zero) user's perceived quality and the delivered prototype wheelchair cushion after a month and a year of use (times one and two, respectively) (see Figure 3).

Figure 3

Results of the Input Element: Perceived Quality of Satisfaction Evaluation Model



Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR 2009

Figure 3 reveals that the perceived quality of the delivered prototype wheelchair cushion was higher than that of the previous wheelchair cushion, both after a month and after a year of use. (It is important to note that for the 1-year follow-up, two of the initial 15 users were not involved in the monitoring, and they reported that they were not using the seat; so, only 13 active users remained for the complete year monitoring.)

PROTOTYPE WHEELCHAIR CUSHION DESIGN PERCEPTION: DESCRIPTIVE CONTRIBUTION TO A CONTINUOUS IMPROVEMENT PROCESS

In the semi-structured interviews, user complaints served to identify improvement opportunities for the design of the wheelchair cushion. For example:

• 26.6% of the subjects identified problems in the transfer process, and in the height

of the lateral sides of their wheelchair. This feedback led to an adjustment to the design of the wheelchair cushion without laterals in the cases where this was medically and technically possible.

• 20% of the subjects commented on the problem of instability generated by the wheelchair. This feedback led to the design of the wheelchair cushion to take into account tilt angles compared to the wheelchair, ensuring balance and the pressure release of the ischial tuberosities in order to prevent ulcers.

• 20% of the subjects commented on the poor posture they had to assume in the wheelchair with the previous wheelchair cushion. These comments led to an alteration of the wheelchair cushion height and the propulsion angle, which improved not only the users' posture but also trunk control and their ability to propel the wheelchair (see **Figure 4**).

Last, but not least, it should be noted that in 46.6% of the cases, the wheelchairs themselves were incorrectly prescribed, as was identified by the specialized physicians team.

FIGURE 4

User with Prior Seat (left) and User with the Prototype Wheelchair Cushion (right)





Source: Draft Protocol User CONACyT-SALUD-2006-1-45395 INR 2009

Finally, in order to understand perception during the wheelchair cushion learning-adjustment process, we compared the perceived quality, the overall satisfaction, the general functionality and each process-functionality factor after 1 month (time one) and 12 months of use (time two) (see **Table 7**).

Table 7

		Tim	e One	Time	e Two
		1 month	Standard	12 months	Standard
			deviation		deviation
General	Product perceived	8.80	1.37	9.23	0.73
Questions	quality				
	General	9.00	1.20	9.31	0.85
	Satisfaction				
	General	8.80	1.61	9.23	0.93
	Functionality				
Functionality	Trunk control	8.20	1.78	8.54	1.33
features	Position	9.20	1.61	9.31	0.95
	Pressure release	8.80	1.78	9.46	0.66
	Transfer capacity	7.20	3.19	8.46	2.26
	Propulsion	7.93	2.40	9.23	0.93
	capacity				
	Skin reaction	8.60	2.64	9.77	0.60
	Comfort	8.80	1.93	9.62	0.77

Satisfaction and Functional Assessment of Prototype Wheelchair Cushions while Measuring Functionality and User Experience

Source: Members of the Draft Protocol CONACyT-SALUD-2006-1-45395 INR 2009.

The results portrayed in **Table 7** support the following conclusions:

• Although the FIM scale does not show any change in its assessment, the patients do perceive the change, as evidenced by the previous wheelchair cushion perceived quality and that of the delivered prototype wheelchair cushion.

• While the user employs the prototype wheelchair cushion, an adaptation of movement is shown which favors perception in all functional aspects and of satisfaction over time. It is relevant to note that in all model elements (input, process and output), when comparing time one and time two, there is an improvement in the rating of user perceptions and their standard deviations are lower, which suggest more commonality of opinion after one year of use.

• The technical design assessments are complemented by the expression of user experience and functionality.

At this stage of the research protocol, the wheelchair cushion absorbed the weaknesses of the wheelchair itself to achieve measurable characteristics such as propulsion angles and heights needed to increase transfer capabilities.

CONCLUSION

This study was designed to recruit only persons with significant mobility impairments and serious medical and psychological problems, which hinder their transfer to INR. These recruitment requirements were one of the reasons causing the sample size to be small. Fortunately, a variety of spinal cord injuries were represented. Another limiting factor was the dependence on grants that limited the materials and human resources the authors of this study could use. The outcomes of this study, however, proved to be very useful because the design and production processes were improved upon and the protocol implemented here will be more widely used in the future.

Main Findings

Clinical measurements related to functionality (FIM) do not well-reflect user perceptions regarding the delivered prototype wheelchair cushions.

Users of the prototype wheelchair cushion define, according to their experiences in the activities of their daily life, the design features that must be incorporated on the prototype wheelchair cushions such as weight, width, height of the lateral sides, and support for the sacrum area, among others.

The proposed satisfaction assessment model allows, through all the defined elements, a specific and holistic perspective of user perceptions regarding the prototype wheelchair cushion, and also allows the evaluation of satisfaction longitudinally over time.

According to the bibliographical research which has been carried out, there are only studies that compare different pressure release systems, without evidence of their use in patients with neurological injuries (e. g., Phillips *et al.*, 1999; Cullum *et al.*, 2004; Brown, S., 2001; and Crane *et al.*, 2007), although a pair of studies used a generic assistive technology instrument in order to evaluate satisfaction in wheelchair cushions. No published study was found that assessed the specific factors of wheelchair cushion functionality in daily life activities. The present study, therefore, can be viewed as ground-breaking.

Of course, a limitation of this study is the fact that the small sample size affects external validity, thus, limiting generalizability. We are hopeful that this exploratory inquiry will generate bigger grants to conduct larger scale studies using the protocol described herein. With a significantly larger sample size, it would then be possible to rigorously compare different groups of spinal cord injury patients (patients categorized as acute (e.g., less than two years of having the injury) and patients categorized as chronic (e.g., more than two years of having the spinal cord injury).

Practical Implications of the Research Results

A strong inference gained from this study is the necessity to establish enhanced/improved clinical assessments regarding wheetchair cushion functionality that are more specific and sensitive to the perceptual needs of patients with spinal cord injuries.

It is necessary to validate the perceived quality and its impact on user satisfaction in the seats, under the condition that the wheelchair is prescribed and properly designed, since some of the complaints-improvement opportunities reflect that the prototype cushions absorb the deficiencies of wheelchairs, such as the height of the seat (which affected the propulsion angle), the width (which influenced the design of the lateral sides of the seat and did not suit itself to transfers), the height of the back (which affected the position for propulsion), among others. Addressing all of these complaints led to significantly increased user perceptions of quality and satisfaction with the finally configured prototype seat.

Facilitating the propulsion capacity and the transfer capacity when diminishing lateral sides and the weight of the seat were seen as design improvement opportunities.

It has been possible to carry out this work due to the fact that it is immersed within the monitoring phase of the research protocol of the National Rehabilitation Institute (INR). coordinated by the Rehabilitation Engineering along with the Neurological Laboratory. Rehabilitation Service of the INR, with the support of the Universidad Iberoamericana Ciudad de Mexico, and it has had the backing of the National Council of Science and Technology (CONACYT, by its Spanish acronym), under code SALUD-2006-key 1-45395.

REFERENCES

- Albrecht, K. *et al.* (1997), "Excellence in service," 3R Editores, Bogota, pp. 1-20, 143-166.
- Brienza, Iñigo R .and K. Cheng (1993), "Seat support optimization using force feedback," *IEEE Transactions on Biomedical Engineering*, Vol. 40, num. 1, January.
- Barlow, Ingrid, Lili Liu and Angela Sekulic (2009),
 "Wheelchair Seating Assessment and Intervention:
 A Comparison between Telerehabilitation and
 Face-to-Face Service," *International Journal of Telerehabilitation*, Vol. 1, No. 1, pg. 17-28.
- Briseño, C. (2001), "A model for assessing the quality of service of a highly complex IPS, where user satisfaction component," *Revista Colombiana*, year 2, num. 3, pp. 1-9, December.
- Brown, Sarah Jo. (2001), "Bed Surfaces and Pressure Sore Prevention: An Abridged Report," Orthopaedic Nursing, 20 (4), pp. 38-40.

- Brubaker, C. (1992), "Technical Consideration: Ergonometrics Considerations," *Journal Rehabilitation Research and Development*, Clinical Supplements, num. 2, Choosing a Wheelchair Systems, pp. 36-48.
- Chan, Sam and A. Chan (2006), "The Validity and Applicability of the Chinese Version of the Quebec User-Evaluation of Satisfaction with Assistive Technology for People with Spinal Cord Injury," Assistive Technology, Vol. 18, pp. 25-33.
- Cannon, B. and J. Cannon (2004), "Management of Pressure Ulcers," *Am J Health-Ssyst Pharm* 61, pp. 1895-1904.
- Crane, PhD, BA, Holm, MB, PhD; D. Hobson, PhD, R.A. Cooper, PhD; M.P. Reed, PhD (2007), "A Dynamic Seating Intervention for Wheelchair Seating Discomfort," *Am J of Phys Med & Rehab*, 86 (12), pp. 988-993.
- Cullum, N., E. McInnes, SEM Bell-Syer and R. Legood (2004), "Support surfaces for pressure ulcer prevention (Review)," *The Cochrane Library*, num. 3, Chichester, United Kingdom.
- Demers, Louise, Rhoda Weiss-Lambrou and Bernadette Ska (2002), "The Quebec User Evaluation of Satisfaction with Assistive Technology (QUEST 2.0): An overview and recent progress," *Technology and Disability*, Vol 14, pp 101-105
- Donabedian A. (1992), "Garantía y monitoría de la calidad de la atención médica," *Serie Perspectivas en Salud Pública*, Instituto Nacional de Salud Pública, Cuernavaca, México, pp. 12-21.
- Fornell et al. (1996), "The American Customer Satisfaction Index: Nature, Purpose, and Findings," Journal of Marketing, V. 60, num. 4, pp. 7-18, October.
- Galíndez Novoa, C. V. (2009), "Mejoras al proceso de diseño y fabricación del sistema Reductores de Presión para lesionados medulares, desde la percepción del usuario," Universidad Iberoamericana, Master's Degree Dissertation, Mexico, Federal District, pp. 43-50.
- Gayol Mérida, D. A. (2007), "Aplicación de métodos estadísticos para el análisis de materiales termoplásticos y espumas de poliuretano, como sistemas reductores de presión para lesionados medulares usuarios de silla de ruedas," *Universidad Iberoamericana*, Master's Dissertation, Mexico, Federal District, pp. 6-19.
- González, C. E., E. Cardiel, R. Muñoz, D. Villanueva, R. Urrutia, and P.R. Hernández (2006), "Asiento hidráulico con movimiento para prevenir úlceras por presión," *Rev. Mex Ing Biomed*, 27 (1), pp. 38-44.
- Gutiérrez, H. (1997), *Calidad Total y Productividad*, Mc Graw Hill, Mexico, pp. 23-59.
- Harpreet, Sangha (2005), "A comparison of the Barthel Index and the Functional Independence Measure as outcome measures in stroke rehabilitation: patterns

of disability scale usage in clinical trials," *International Journal of Rehabilitation Research*, Vol. 28, num. 2.

- Horovitz, J. (1995), *Calidad del Servicio: A la conquista del Cliente*, Editorial Trillas, Mexico. pp. 5-12.
- Karatas, M., N. Çetin, M. Bayramoglu and A. Dilek, "Trunk muscle strength in relation to balance and functional disability in unihemispheric stroke."
- Lobato, Rivera and Serrato y Martínez (2006), "Versión Final del Reporte de la Aplicación de la Metodología para la Obtención del Índice de Satisfacción del Beneficiario del Programa de Desarrollo Local," *Mexico, Federal District*.
- MAXQDA, available at URL: <u>www.maxqda.com/esp/</u>
- "Medicina Integral: Las úlceras decúbito", available at <u>URL:http://db.doyma.es</u>, November, 2009.
- Montgomery, D. C. (2002), "Diseño y análisis de experimentos," Limusa, second edition, pp. 218-276.
- Nixon, J., G. Cranny, C. Iglesias, A. Nelson and K. Hawkins, *et al.* (2006), "Randomized, controlled trial of alternating pressure mattresses compared with alternating pressure overlays for the prevention of pressure ulcers," *BMJ*, 332: p. 1413-1415.
- Pain, H. (2002), Choosing Assistive Devices: A Guide for users and professionals, Jessica Kingsley Publishers, Philadelphia, PA, USA, pp. 88-89, available in URL http://site.ebrary.com/lib/uiasantafemx/Doc?id=10 064427&ppg=88
- Parasuraman, A., L. Berry and V. Zeithaml (1993), "A conceptual model of service quality and its implications for future research," *Journal of Marketing*, 49th. ed., pp. 41-50.
- Peaco A., E. Halsene and B. Hafner (2011), "Assessing Satisfaction with orthothic devices and services: A Systematic Literature Review," *Journal of Posthetics and Orthotics*, 23(2), pp. 95-105
- Pérez, Z. R., V. E. Rodríguez and R. A. D. Escobar (2006), "Frecuencia de úlceras por presión en el paciente lesionado medular, su correlación con el nivel neurológico y escala de ASIA," *Rev Mex Med Fis Rehab*, 19 (1), pp. 16-23.
- Phillips, L. BSc, RGN, RM (1999), "Pressure ulcersprevention and treatment guidelines," *Nursing Standard*, 14(12), pp. 56-62.
- Poveda-Puente, R., T. Barberá Guillem and Jaén Garrido, J. D. (2000), "Análisis comparativo de cojines para la prevención de úlceras por presión," *Ayudas Técnicas. Revista Biomecánica*, 38, pp. 9-13.
- Rey, Carina (2000), "La satisfacción del usuario: un concepto en alza," *Anales de Documentación* num. 3, pp. 139-152.
- Ruelas Barajas, E. (1993), "Calidad, Productividad y Costos," *Salud Pública de México*, vol. 35, num. 3, May-Jun, pp. 298-304.

- Samuelsson, K. and E. Wressle (2008), "User satisfaction with mobility assistive devices: An important element in the rehabilitation process," *Disability and Rehabilitation*, 30(7), pp. 551-558.
- Serna, H. (2005), *Gerencia Estratégica*, 3R Editores. Santa Fe de Bogotá, pp. 25-30.
- Smith, A. W., M. Jamshidi and S. K. Lo (2002), "Clinical measurement of muscle tone using a velocity-corrected modified Ashworth scale," *Am J Phys Med Rehab*, 81, pp. 202-206.
- Springle, S., T. Faisant and K. Chung (1990), "Clinical Evaluation of Custom-Contoured Cushions for the Spinal Cord Injured," Archives Physical Medicine Rehabilitation, vol. 71, August.
- Vilches *et al.* (2008), "Funcionalidad, Satisfacción y Prevención de Úlceras por Presión con Asiento Prototipo del Instituto Nacional de Rehabilitación en Pacientes con Lesión Medular," *UNAM*, *DF*, Mexico, pp. 10-22.
- Woods, Peter (1987), "La escuela por dentro," *Paidós Ibérica*, SA, Barcelona, pp. 77-104.

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APPENDIX 1

(Applied at time zero)

DATE: dd/mm/yy

GENDER	FEMALE:		MALE:			
AGE (years)						
TYPE AND LEVEL OF INJURY	LM: COMPLETE INCOMPLETE					
INJURY TIME						
THE SEAT YOU HAVE BEFORE THE PROTOCOL WAS:	SELECTED AN PURCHASED BY YOU	DONATED	CAME WITH WHEELCHA		CUSTOM MADE	OTHER
SEAT TIME					Hours	
AVERAGE DAYS PER WEEK THAT:					Days	
DAILY ACTIVITIES		(Listed	3)			
WORK	YES: NO:	US	ED SEAT	YES		NO
STUDY	YES: NO:	US	ED SEAT	YES		NO
SPORT	YES: NO:	US	ED SEAT	YES		NO

Number	Description	Question
1	Expectation of the overall product quality before entering the research protocol on the prototype seat of the INR	At the moment you were invited to participate as a user in the research protocol of the seats (pressure relief systems) in the INR, probably you thought something (expectation) regarding the product you would receive. Try to remember what your thought about it was. How this seat would contribute to you (i.e., how useful would it result)? Please, answer on a scale from 1 to 10, where "1" means that "you thought it wasn't going to be useful" and "10" means that "you thought it would be very useful". Before starting the protocol, what did you think about how this seat would help you?
2	Previous Perceived Quality	Try to remember the moment when you were delivered the prototype seat, here at the INR. Remember the seat you brought with you. How would you describe this seat you brought? Please, answer on a scale from 1 to 10, where "1" means "very bad" and "10" means "very good". How would you qualify the seat you brought?

Now, let's evaluate some functionality aspects of the delivered prototype seat on your daily activities or routine

APPENDIX 2

(Applied at time one and time two)

We'll appreciate your honesty while answering because this will enable us to achieve continuous improvements in this prototype seat.

If possible, it is important that your answers represent the generality of ALL your activities. If you consider that there is an important event which is worth mentioning in detail, please, let us know about it.

Number	Description	Specific Questions
3	Regarding equilibrium and / or balance	While using the delivered prototype seat. How much did the seat help you to keep your stability or balance? Please, answer on a scale from 1 to 10, where "1" means "unhelpful" and "10" means "it helped a lot". How much did the seat help you to keep your stability or balance?

		While using the delivered prototype seat.
4	Regarding the	How useful was the seat in maintaining a proper posture?
	position	Please, answer on a scale from 1 to 10, where "1" means "unhelpful" and "10" means "it helped a lot".
		How useful was the seat in maintaining a proper posture?
		While using the delivered prototype seat.
5	Regarding the ability	How helpful was the seat in maintaining your ability to release pressure when sitting on it? (getting up, weight changes and inclinations)
5	to release pressure	Please, answer on a scale from 1 to 10, where "1" means "unhelpful" and "10" means "it helped a lot".
		How helpful was the seat in maintaining your ability to release pressure when sitting on it? (getting up, weight changes and inclinations)
		While using the delivered prototype seat.
6	Regarding the ability to transfer	How helpful was the seat in maintaining your ability to transfer? Please, answer on a scale from 1 to 10, where "1" means "unhelpful" and "10" means "it helped a lot".
		How helpful was the seat in maintaining your ability to transfer?
	Regarding the effect of propulsion	While using the delivered prototype seat.
		How helpful was the seat about the effect of propulsion in the different surfaces and levels?
7		Please, answer on a scale from 1 to 10, where "1" means "unhelpful" and "10" means "it helped a lot".
		How helpful was the seat about the effect of propulsion in the different surfaces and levels?
	Regarding the skin reaction	While using the delivered prototype seat.
8		How helpful were the design and materials of the seat? Did they help with your skin care and to prevent a reaction?
		Please respond on a scale of 1 to 10, "1 " means "not conducive at all" and "10" means "very conducive".
		How helpful were the design and materials of the seat? Did they help with your skin care and to prevent a reaction?
		While using the delivered prototype seat.
0	Regarding comfort	How do you think is the comfort given by the prototype seat?
9		Please respond on a scale of 1 to 10, "1 " means "not comfortable at all" and "10" means "very comfortable".
		How do you think is the comfort given by the prototype seat?

Number	Description	GENERAL QUESTIONS	
		In general terms, considering the product received during your stay in the research protocol of the prototype seat protocol at the INR,	
11	Overall assessment of the perceived quality	How do you rate the prototype seat?	
		Please respond on a scale from 1 to 10, where "1" means "very bad" and "10" means "very good".	
		How do you rate the prototype seat?	
	General satisfaction with the INR protocol prototype seat	In general terms, how satisfied or not satisfied are you about to the prototype seat?	
12		Please, answer on a scale from 1 to 10, where "1" means "absolutely not satisfied" and "10" means "completely satisfied".	
		In general, how satisfied or not satisfied are you about the prototype seat?	
		According to all your answers	
13	Functionality of the prototype seat	In general terms, and considering all the daily life activities you carry on How functional do you find the prototype seat? Please, answer on a scale from 1 to 10, where "1" means "totally dysfunctional" and "10" means "completely functional". How functional do you find the prototype seat?	

-

Number	Description	Question	
		How willing are you to recommend or to speak well of the prototype seat?	
14	Willingness to recommend or to speak well of the prototype seat.	Please, answer on a scale from 1 to 10, where "1" means "not willing" and "10" means "completely willing".	
		How willing are you to recommend or to speak well of the prototype seat?	
15	Confidence on the fact that the prototype seat will provide a good service to protocol users in the future	In the future, how confident do you feel on the fact that the prototype seat will provide a good service to next users?	
		Please respond on a scale from 1 to 10, where "1" means "not, I don't trust on it" and "10" means "I really trust on it".	
		In the future, how confident do you feel on the fact that the prototype seat will provide a good service to next users?	

PLANNING FOR THE APES:

COPING WITH GUERRILLA CONSUMER BEHAVIOR WHEN THE COURTS WON'T HELP

Wayne Koprowski, Dominican University David Aron, Dominican University

ABSTRACT

The stakes are high for marketers when it comes to assuring consumer satisfaction, whether in a business-to-consumer or business-to-business setting. When consumer dissatisfaction results from an undesirable outcome, guerrilla consumer behavior, or consumers acting out beyond an expected or normative level, can result. Guerrilla consumer behavior can have immediate and longterm economic consequences for a firm.

In a study of the legal environments in the states of California and New York, the authors of this article have determined that marketers can find little assistance from the court system, with even the most egregious consumer guerrilla actions protected by the First Amendment and anti-SLAPP laws, as well as the courts' view of online communication as being of less legitimacy than print communication. The marketer's best recourse remains allowing consumers to express their voice and find an unobstructed exit from an otherwise dissatisfying consumer experience.

Keywords: customer satisfaction, dissatisfaction, guerrilla consumer behavior, SLAPP, consumer law, consumer protection, First Amendment.

INTRODUCTION

When it comes to consumer satisfaction, the stakes are high: a recent study found that in the United States alone, about \$83 billion is lost by marketers each year due to poor customer experiences (Ingram 2013). While firms certainly have many ways to prevent or recover from a poor customer experience, in many situations the customer reacts in a way that causes damage to the marketer. The current study continues the exploration of guerrilla consumer behavior (Koprowski and Aron 2011) as responses to consumer dissatisfaction against which marketers have little recourse, resulting in both lost sales as well as harm to reputation and property.

Guerrilla consumer behavior" is a response by dissatisfied customers going beyond normative behavior and resorting to counterproductive, economically harmful, and even illegal activities (Koprowski and Aron 2011). This phrase describes a reaction by customers who have experienced suboptimal outcomes and resort to acting out, behaving in an irrational, compulsive way (Reber 1985) against a firm or firm representative. The term guerrilla consumer behavior is meant to evoke the same kind of desperation and reliance on limited resources as used in the terms guerrilla warfare (a type of warfare fought by irregulars in fast-moving, small-scale actions against orthodox military and police forces) and guerrilla marketing. This desperation often can be seen in the very language used by guerrilla consumers. Examples contained herein illustrate that this language can be far from rational, and may be considered quite vulgar and inappropriate, particularly in a professional context.

In the face of guerrilla consumer behavior, the impact on the firm is of great importance. A customer or group of customers, lashing out against a company can have a number of negative effects and result in substantial costs. These costs include those exacted by consumer retaliation, which has been classified as creating cost/loss (that is, creating extra work for the firm); consumption prevention; voice, exit and betrayal; and boycotting (Huefner and Hunt 2000; Funches, Markley and Davis 2009). While the tangible stakes can be significant, users of the Internet can also spread negative word-of-mouth comments even faster and to a broader audience by means of Facebook, Twitter, blogs, and anti-brand web sites.

EXAMINING GUERRILLA CONSUMER BEHAVIOR

Background

A firm confronted with guerrilla consumer behavior has a limited number of options available, at least after the behavior has occurred. Consumers may cause a commotion or damages that exact a real cost to a merchant, including physical damage or loss of reputation. The protection of the courts, in particular, seems like an appealing avenue to pursue, given that some examples of this kind of behaviors listed above may seem to be illegal, at least on the surface. Some of the most common legal recourses available to an aggrieved firm include allegations of defamation, commercial disparagement, or intentional interference with prospective economic advantage in a lawsuit.

Earlier research examined the protections offered to aggrieved firms in the State of Illinois and found surprisingly limited legal remedies available (Koprowski and Aron 2011). There is a dearth of legal solutions available to firms located in Illinois. Is this the case in other states as well?

To better understand this question, other states were examined, specifically, New York and California. The reasons for adding New York and California to this study are straightforward: Illinois is home to the authors of this study, and California and New York join Illinois among the five most populous states in the United States (the other two top-five states, Texas and Florida, offer opportunities for future research).

For some general background, Illinois hosts 1.1 million firms, and is one of the nation's manufacturing and agricultural leaders. New York is home to 1.9 million firms and has the largest economy in the United States, and the second largest in the world, featuring a high concentration of financial and service sector firms. California is the most populous of the United States and hosts 3.4 million firms.

Illinois, New York, and California are about as geographically and perhaps culturally distant as three states can be, yet they are similar in terms of their great commercial importance in the United States. They are also similar in the lack of support provided to plaintiff firms seeking redress from guerrilla consumer behavior.

With this in mind, the current study expands upon earlier work in several ways:

- Legal environments outside of the State of Illinois are examined, specifically, the states of California and New York.
- Recent legal developments regarding SLAPP (strategic lawsuit against public participation) laws are examined in the context of marketer reaction to guerrilla consumer behavior.
- Alternatives for firms outside of the courtroom to plan for, cope with, and recover from guerrilla consumer behavior are discussed.

Options and Obstacles for Combatting Guerrilla Consumer Behavior

The nature of guerrilla consumer behavior ranges from the kind of in-store activity suggested by earlier research (e.g., Huefner and Hunt 2000; Harris and Reynolds 2004) to the myriad of options available online. The latter phenomena suggest that there is little firms can do directly to combat this behavior. A store manager can't react to a negative Facebook page posting the way she might have her security guard escort a vandalizing customer off the premises. This situation leaves the justice system as the most obvious legitimate option. Firms seeking redress in the courts have three major categories of response available: litigation, injunction and criminal prosecution. The relevant terms are introduced and explained below.

Civil litigation, the branch of law involved in disputes among individuals and organizations, is pursued in response to defamation, commercial disparagement, and intentional interference with prospective economic advantage. Injunctive relief, which is a court-ordered ban against an act, is also possible but a less practical remedy in cases of guerrilla consumer behavior because injunctions ban future behaviors, whereas guerrilla behaviors have already occurred. Criminal prosecution can be pursued by the firm in the face of shoplifting, vandalism, and violence against property or persons.

A significant obstacle to the plaintiff firm has arisen in the form of anti-SLAPP legislation. SLAPP stands for Strategic Lawsuit Against Public Participation and this legislation is meant to dissuade businesses from pursuing lawsuits against their critics with the intent "to censor, intimidate, and otherwise silence consumers by forcing them to stage a legal defense against the attacking firm" (SLAPP Back Transcript 2010). Anti-SLAPP rules are meant to prevent, colloquially speaking, the big firm from picking on the little customer. In fact, a plaintiff threatening a lawsuit against a critical or even a misbehaving customer might not even expect to win that case; instead, this tactic is meant to chill the defendant and inflict an expensive burden upon the defendant. It would be sobering for any customers to see themselves named as defendant in a lawsuit against a large, seemingly all-powerful corporation or even a smaller business. It is for this reason that anti-SLAPP legislation, meant to protect the citizen-consumer, can be a detriment to a firm victimized by guerrilla consumer behavior.

The history of anti-SLAPP laws is relatively recent. California was the first state to enact such a law in 1993. The purpose of the law was "to encourage continued participation in matters of public significance and to prevent the chilling of such participation" (Tate 2000, p. 801). Since then, 28 states plus the District of Columbia have enacted anti-SLAPP laws, including New York and Illinois (Public Participation Project). These SLAPP lawsuits have been described as "actions without substantial merit brought against individuals or groups with the intention of 'silencing opponents, or at least... diverting their resources" (Tate 2000, p. 802) and have the effect of interfering with the defendant's ... exercise of constitutionally protected rights." (Tate 2000, p. SLAPP suits "masquerade as ordinary 803). lawsuits." (Tate 2000, p. 804) The most frequent type of lawsuit is for defamation, but also includes business torts such as interference with prospective economic advantage (Tate 2000). Tate points out that the motive of SLAPPers is not to win, but rather to chill the defendant's activities of speech and protest and to discourage others from similar SLAPPers can intimidate unsophactivities. isticated defendants with the specter of staggering defense costs even though SLAPPers lose eighty to

¹ Defined as "any intentional false communication, either written or spoken, that harms a person's reputation; decreases the respect, regard, or confidence in which a person is held; or induces disparaging, hostile, or disagreeable opinions or feelings against a person" (thefreedictionary.com 2013). ninety percent of suits that actually go to trial (Tate 2000). A SLAPP plaintiff expects to lose and is willing to write off litigation expenses as a cost of doing business.

Expanding on a prior study of legal remedies available to aggrieved parties for guerrilla consumer behavior, the current study analyzes statutory and case law in the two of the largest states in the United States, California and New York. First, the relevant statutes in California and New York which are available to an aggrieved plaintiff will be examined, and then relevant cases in each state will be considered. For the purpose of this article, this study has been limited to cases from within the last five years. Also, cases are presented in which the plaintiff was a marketer (company, firm or organization), as opposed to an individual.

Examples from California

Defamation cases in California are numerous, and similar to Illinois, it appears that few cases provide a viable legal remedy to a plaintiff business's allegations of damaging statements by disgruntled consumers. Also similar to Illinois, there are few reported cases claiming unfair competition. Of the cases cited herein, many of them involve multiple causes of action forming the basis of a lawsuit. These causes of action include unfair competition, trade libel¹ or tortious interference with a prospective advantage. ² Combining several causes of action is a common litigation tactic.

One representative example is that of *Simpson Strong-Tie Company, Inc. v Pierce Gore.* In this case, a manufacturer sued a lawyer, alleging defamation and trade libel claims arising from a newspaper advertisement by the lawyer directed at Simpson's customers, owners of wood decks built with the manufacturer's galvanized steel fasteners. The plaintiff firm, Simpson Strong-Tie Company, Inc., was a California corporation in the business of

² Defined as "a third party's intentional interference or inducement of a contracting party to break a contract... thereby (causing) damage to the relationship between the contracting parties" (uslegal.com 2013)

designing, manufacturing, and marketing building products, including galvanized screws for use in wood frame construction.

The plaintiff asserted that the lawyer's advertisement falsely implied that its galvanized screws failed to meet appropriate industry standards and that valid claims might exist against the plaintiff based on negligence or product liability. The complaint stated that the advertisement "communicates that Simpson's galvanized screws are defective," and that the advertisement "disparaged Simpson's goods..." (Simpson Strong-Tie 2010).

Simpson retained an opinion survey firm to confirm that the advertisement had caused injury to their reputation. The survey revealed that shoppers, after reading the advertisement, were significantly more likely to believe that Simpson's galvanized screws were defective or of low quality and were significantly less likely to purchase galvanized screws manufactured by plaintiff. (Simpson Strong-Tie 2010).

The court rejected Simpson's arguments and denied relief. In a lengthy opinion, the appellate court affirmed the trial court's decision dismissing plaintiff's complaint since defendant's statements were made in furtherance of free speech on an issue of public interest.

The case of Lisa Krinsky v. Doe 6 illustrates the enormous leeway that courts grant users of Internet chat rooms and message boards to speak anonymously under the free speech protection of the First Amendment. Krinsky, the plaintiff, was the president, board chair and chief operating officer of SFBC, a publicly traded Krinsky sought damages and an company. injunction accusing the defendant of intentional interference with a "contractual and/or business employment relationship" between plaintiff and SFBC, and a further claim of libel based on false and misleading Internet statements imputing dishonesty, fraud, improper professional conduct, and criminal activity to plaintiff (Krinsky 2008).

The alleged defamatory messages were posted on the Yahoo! message board. They suggested that there were "cockroach" executives at the company. In one message, posted on December 18, 2005, the defendant (Doe 6) stated that it is "funny and rather sad that the losers who post here are supporting a management consisting of boobs, losers and crooks." One of the messages included the following statement: "...Lisa [Krinsky]...has fat thighs, a fake medical degree, and has poor feminine hygiene" (Krinsky 2008).

In holding for the defendant, the court concluded that the language of Doe 6's posts, over a two-month period were not actionable, but rather, "fell into the category of crude, satirical hyperbole which, while reflecting the immaturity of the speaker, constitute protected opinion under the First Amendment" (Krinsky 2008). The court concluded by saying that while Doe 6's statements were "rude and childish, intemperate, insulting, and often disgusting and understandably offended plaintiff, nevertheless, offensive speech is still accorded constitutional protection."

In another Internet-related case, the plaintiff is *Eagle Broadband*, *Inc.*, alleging defamation arising from unflattering messages about the firm posted on Yahoo! Finance. The complaint made a number of general allegations, including fake announcements supposedly from Eagle Broadband that claimed...

- "the company had been deleted from the Russell 3000 Index due to poor performance and business failures."
- "Eagle Broadband was suffering from continued financial losses causing the share price to drop and encouraging others to '... go short to make some of your money back....'"
- "significant change is coming at Eagle. They are out of cash, sales, and time. They must pay Aggregate back the \$10mm which they do not have..." (Eagle Broadband 2007)... all posted by the defendant.

An assertion by defendant concerned the plaintiff's "purported inability to sell a key product line essential to its business...." The defendant also predicted that plaintiff's share price would "continue to drop significantly," that plaintiff would be forced to make hard financial choices, which might include bankruptcy, and that the situation ahead would be "ugly." The defendant closed by stating: "This is truly a case study in professional incompetence and dereliction of fiduciary duty to shareholders" (Eagle Broadband 2007). A California appellate court was not persuaded of the merits of the Eagle Broadband case. In denying plaintiff's claim for relief, the court cited the emerging SLAPP statute. That is, the court considered the Eagle Broadband case to be an example of "meritless lawsuits filed primarily to chill the defendant's exercise of First Amendment rights" (Eagle Broadband 2007). The California Legislature responded to a "disturbing increase" in such suits by enacting an Anti-SLAPP statute (section 425.16, an A) "to encourage continued participation in matters of public significance, and that this participation should not be chilled through abuse of the judicial process" (Eagle Broadband, 2007).

The court, in deciding the Eagle case, relied on the Anti-SLAPP statute, stated that the "offending message was published in an unregulated and freewheeling milieu [the Yahoo! message board]. Recognizing the nature of this forum, Yahoo! Finance message board users are warned not to rely on the information contained there" (Eagle Broadband 2007). The court concluded that "the average reader would recognize the (defendant, Williams) mock press release as parody. That being so, it 'does not defame [the plaintiff]..."" (Eagle Broadband 2007).

The case of *Keene v. Lake Publishing Co., Inc.,* involving allegations of defamation and trade libel, is another intriguing example of guerrilla consumer behavior. The plaintiff, Dr. Camille Keene, a neurologist, examined a local radio personality. Her preliminary diagnosis, pending an MRI and other tests, was that the radio personality was experiencing amyotrophic lateral sclerosis (ALS), a debilitating illness commonly referred to as Lou Gehrig's disease. However, after the MRI and further tests, the patient learned that he did not in fact have the disease. The defendant published an article which stated several times that the radio personality was "misdiagnosed" by the plaintiff, Dr. Keene.

Dr. Keene sued, contending that the statements were defamatory and that the "clear inference was that she was unfit to perform the duties of her neurology specialty," and that the "statements …were libelous because they injured her…professionally" (Keene 2010). The appellate court disagreed with plaintiff's assertions and upheld the trial court finding for the defendant on both counts of defamation and trade libel (commercial disparagement). In finding for the defendant, the court analyzed California law

pertaining to defamation and trade libel. It stated that libel, a type of defamation, is defined by statute as "a false and unprivileged publication by writing, printing ..., or which has a tendency to injure a person in his or her occupation or which has a "natural tendency to injure a person's reputation." (Civ. Code sec. 45). The elements of this tort are (1) a publication, that is (2) false, (3) defamatory, (4) unprivileged, and that (5) has a natural tendency to injure or that causes damage" (Keene 2010).

The trial court found that Dr. Keene failed to show libel because there was insufficient evidence that any of the statements from the article were false or defamatory. The appellate court stated that "'there can be no recovery for defamation without a falsehood" (Keene 2010). Moreover, the court further stated that "in an action initiated by a private person on a matter of public concern, the First Amendment requires that the *plaintiff* (in this case, Dr. Keene) bear the burden of proving falsity" and that plaintiff in this case failed to meet the burden (Keene 2010).

The appellate court also dismissed Dr. Keene's trade libel claim. Trade libel is an injurious falsehood that interferes with business. Unlike classic defamation, trade libel is "not directed at the plaintiff's personal reputation, but rather at the goods a plaintiff sells or the character of his or her business, as such (Keene 2010). In denving plaintiff relief for trade libel, the court held that plaintiff failed to prove "actual malice," which is required element in proving a trade libel cause of action. Actual malice means a defendant publishes a statement about the plaintiff he *knows* is false; or that the defendant publishes a statement about the plaintiff with reckless disregard for whether it is false or true.

The final example we highlight from California is the case of *Balboa Village Inn, Inc. v. Lemen.* This is a rare instance in which the *plaintiff* prevailed.

The plaintiff owned and managed the Balboa Island Village Inn, a restaurant and bar which had been operating at that location for more than half a century. Defendant Anne Lemen purchased the "Island Cottage," which was across an alley from the Village Inn. She lived there part of the time and rented the cottage part of the time. Lemen was a vocal and constant critic of the Village Inn and has contacted the authorities numerous times to complain about excessive noise and the behavior of inebriated customers leaving the bar. To bolster her case, Lemen videotaped the Inn approximately 50 times (Balboa 2007).

The plaintiff introduced evidence that for more than two years, the defendant parked across from the Inn at least one day each weekend and made videotapes for hours at a time. Customers often asked Lemen not to videotape them as they entered or left the building. Yet, numerous times, she followed customers to or from their cars while videotaping them. She took flash photographs through the windows of the Inn a couple of days each week for a year, further upsetting the customers. Lemen called customers "drunks" and "whores" and told customers entering the Inn, "I don't know why you would be going in there. The food is shitty." Overall, Lemen approached potential customers outside the Inn more than 100 times, causing many to turn away (Balboa 2007).

Lemen, also had several encounters with employees of the Village Inn. She told a bartender that she "worked for Satan," was "Satan's wife," and was "going to have Satan's children." The defendant referred to the owner's wife, as "Madam Whore" and told her, in the presence of a third party, "Everyone knows you're a whore." Three times, the defendant took photographs of cook Felipe Anaya and other employees while they were changing clothes in the kitchen.

Lemen, the defendant, told neighbors that there was child pornography and prostitution going on in the Inn, and that the Village Inn was selling drugs and was selling alcohol to minors. She said that sex videos were being filmed inside the Village Inn, and that it was involved with the Mafia. Concurrent with Lemen's guerrilla consumer attack, Village Inn's sales dropped more than 20 percent (Balboa 2007).

In holding for the plaintiff against the defendant, the court held that while the First Amendment right of free speech is stated in broad terms, the right is not absolute (Balboa 2007). The court held that there are categories of communication and certain special utterances to which the First Amendment does not extend.

These cases, with the exception of the final example, can lead one to conclude that, at least in the State of California, individuals have free license to engage in guerrilla consumer behavior, and disparage, defame, or otherwise damage the reputations of companies with little to fear from the judicial process. Primarily on First Amendment grounds, disgruntled consumers are given a wide berth and seem to be able to attack firms and individuals with impunity. In the next section, the conditions for combatting guerrilla consumer behavior in the State of New York will be explored.

Examples from New York

Unlike California, New York has no statute defining defamation, commercial disparagement or tortious interference with prospective advantage. But just like California and Illinois, not only are there numerous court cases involving defamation, but also plaintiff complaints tend to allege multiple causes of action such as unfair competition and tortious interference with business opportunity.

In the example of Schoolman Transportation System v. Aubrey, a 2011 case, the guerrilla consumer is actually the representative of an educational institution, the New York Institute of Technology ("NYIT"). The plaintiff. Schoolman Transportation System, Inc., conducted business as Classic Coach and was contracted to provide transportation services to the NYIT. However, a representative of NYIT, Leonard Aubrey (NYIT's Vice President for Financial Affairs and its Chief Financial Officer and Treasurer), unilaterally terminated the contract.

The transportation provider sued for defamation against the defendant. The complaint alleged that, in Aubrey's termination letter, the defendant defamed Classic Coach by falsely stating that plaintiff engaged in "egregious overbilling practices." The complaint also alleged that Aubrey published those statements to third parties, causing damage to Classic Coach's business reputation. The question therefore is can Schoolman Transportation prove that in this act of guerrilla consumer behavior, Aubrey conducted on behalf of NYIT a "willful course of malicious conduct." According to the court, the strong words against the bus company were made as part of Aubrey's job, "in the scope of his employment" (Schoolman 2011). In this case, it is the protection of NYIT that allows Aubrey's behavior to go unchecked.

Protection for guerrilla consumers can also come from the Internet. In the case of *Sandals Resorts International Limited v. Google, Inc.*), the plaintiff (Sandals) sought damages for defamation from an unknown writer arising out of an email sent to multiple recipients. Here, Sandals is taken to task for their presence in Jamaica in light of the economic conditions of the island's population. The unknown writer contrasted the financial circumstances of the people of Jamaica with that of a corporation that operates multiple resorts in Jamaica, criticizing the corporation's treatment of native Jamaicans.

The email contained the following comments:

- "Why are poverty-stricken Jamaican taxpayers subsidizing the billion dollar tourist industry?"
- "Menial-low paying jobs for Jamaicans; high profile luxury-style jobs for foreigners!"
- "Making foreign millionaires at Jamaicans's expense?"

The court held for the defendant finding the "the communication is not actionable, since the writing as a whole was "pure opinion." Moreover, the "content of the whole communication, its tone and apparent purpose") and its very anonymity, would signal to any reasonable reader that the writer's purpose is to foment questioning by native Jamaicans regarding the role of Sandals' resorts in their national economy (Sandals 2011).

It is the very nature of this guerrilla consumer behavior, through a medium provided by the Internet, which affords it protection. The court's opinion is instructive and provides insight into judicial thinking in general about Internet libel. According to that document:

- The culture of Internet communications, as distinct from that of print media such as newspapers and magazines, has been characterized as encouraging a "freewheeling, anything-goes writing style."
- Bulletin boards and chat rooms are often the repository of a wide range of casual, emotive, and imprecise speech, and that the online recipients of [offensive] statements do not necessarily attribute the same level of credence to the statements [that] they would accord to statements made in other contexts.

- The low barrier to speaking online allows anyone with an Internet connection to publish his thoughts, free from the editorial constraints that serve as gatekeepers for most traditional media of disseminating information.
- The observation that readers give less credence to allegedly defamatory remarks published on the Internet than to similar remarks made in other contexts, specifically addresses posted remarks on message boards and in chat rooms. However, it is equally valid for anonymous Web logs, known as blogs (Sandals 2011).

The Internet bears and in some ways promotes outrageous claims where the words used online are considered to be of lesser weight than they would be in another medium. This includes an online culture of casual writing, unfiltered, emotional and imprecise speech, and low barrier to entry among contributors. Guerrilla consumers choosing to communicate online are often free of editorial constraint and therefore their words are given "less credence." The language used online might be of a lower standard but the power of social media in terms of marketing communications and digital word-of-mouth communication between and among consumers remains influential.

The sections concerning the States of California and New York present only examples of the few cases that have been found. The courts historically and continually offer little relief against guerrilla consumer behavior. This lack of judicial relief means that marketers must be proactive in their own defense. Being proactive is key among the implications described in the next section.

MANAGERIAL IMPLICATIONS AND RECOMMENDATIONS

Previous research on guerrilla consumer behavior pertaining to Illinois indicates that the legal remedies to firms are limited and that court decisions tend to favor defendants (Koprowski and Aron 2011). Similarly, in New York and California, there are a limited number of legal options available to aggrieved parties seeking remedies for alleged harm due to defamation (disparaging a person's reputation), commercial disparagement (disparaging goods or services), or tortious interference (intentionally damaging) with contract or with prospective advantage. Plaintiffs who believe that they have been wrongfully disparaged or damaged by allegedly aggrieved consumers seem to have little legal recourse available to them.

The anti-SLAPP legislation and the general unwillingness of the courts to support plaintiff firms against guerrilla consumer behavior (and other consumer criticism in general) leave few options for an affected firm. Moreover, since courts rely heavily upon Constitutional free speech rights, there is little likelihood that any attempts to limit baseless claims through the legislative process would be fruitful. Therefore, in order to combat guerrilla consumer behavior, we refer back to the seminal work of Hirschman (1970) to offer two recommendations: voice and exit.

Consumer voice, in this case complaint management, has become not only an accepted outlet for frustrated consumers (Fornell and Birger 1988) but has also become a vital source of information for a firm and can even play a role in facilitating service recovery and enhancing customer satisfaction and loyalty (McCullough and Bhadradwaj 1992). In short, a firm is well-advised to allow customers (whether dissatisfied or not) a voice, a connection to empowered employees and management, before any decision or impulse is followed to employ guerrilla consumer behavior and broadcast their dismay throughout the store or across the Internet.

Encouraging complaining behavior might have once seemed an indefensible option, and the success of this approach still relies on the company managing consumer expectations for the resolution of the complaint and applying the appropriate level of correction to the situation (Singh and Wilkes 1996; Susskind 2005).

Recent events suggest that an even more surprising approach might help in defusing guerrilla consumer behavior: supporting, allowing, and even encouraging exit behavior. The notion of a business firing its customers is not new. In fact, this notion really just represents a sophisticated kind of marketing in which a firm seeks to maximize its "return on customer" while propelling poorly-matched customers toward other sources, even competitors, more likely to satisfy their needs.

Netflix, the Internet-based entertainment provider, offers an example letting customers who want to leave escape without barriers or costs to exit. Netflix recently pursued the strategy of raising prices while splintering into two separate entities. Consumer confusion and anger ensued (Sandoval 2012). The managerial decisions behind this price increase have been subject to great criticism, and indeed, led to an estimated loss of 800,000 subscribers (Sandoval 2012). Facebook, a popular stage for guerrilla consumer behavior, hosted several sites that railed against Netflix (http://www.facebook.com/search/results.php?q=anti% 20netflix&init=quick&tas=0.23507100078382903).

Yet a Facebook page aggressively entitled "1,000,000 people who will not stand for Netflix's new prices" garnered support from just over 5,000 people. At that time, a consumer who wanted to leave their relationship with Netflix could simply exit. For consumers and marketers, letting unhappy customers leave may be a mutually acceptable path of least resistance. Admittedly, this is one example, but it is one that illustrates that even a corporate misstep costing hundreds of thousands of lost customers, can avoid the added negative retaliatory impact of guerrilla consumer behavior.

LIMITATIONS AND FUTURE RESEARCH

The exploration of guerrilla consumer behavior started with the state of Illinois and with the current research has expanded to include New York and California. The focus of this work has been the legal environment of these states and the lack of courtroom responsiveness to plaintiff firms affected by guerrilla consumer behavior. This leads to several avenues for future research.

The current study, as well as past research (Koprowski and Aron 2011) has recounted a variety of legal cases involving guerrilla consumer behavior, as well as offering recommendations for proactive measures to obviate the need for such a consumer response. This has provided an important foundation for the study of guerrilla consumer behavior. An imperative next step in this area is the integration of this consumer response existing conceptual and theoretical with propositions to explain this type of activity. The research on consumer dissatisfaction and complaining cited throughout, as well as recent and related phenomena such as consumer grudgeholding (Aron 2001), serve to illustrate the importance of integrating guerrilla consumer behavior into the existing areas of consumer research.

Some of the cases presented in this current study make it apparent that guerrilla consumer behavior can be enacted by individuals and groups that are not actually customers of a particular vendor and may have had no direct interaction with a targeted firm. This sort of response can be seen in other cases, wherein individuals participate in protests, pickets, strikes, or simply sign petitions to demonstrate their allegiance and shared concerns with others who might be more directly affected by a firm's behavior. The study of consumers acting out frustration that they have only experienced indirectly is another approach to understanding guerrilla consumer behavior.

Laws change and regulations, like the anti-SLAPP laws, will continue to be enacted. While anti-SLAPP laws offer protection for "the little guy" consumer against a resource-rich corporation, there remain few options for businesses to respond to guerrilla consumer behavior. Future research might continue to examine how the courts respond, particularly in states which have yet to enact anti-SLAPP laws, including Ohio, Michigan, and North Carolina, each among the ten most highly populated states in the United States (WorldAtlas.com 2013).

CONCLUSION

The current study continues the exploration of guerrilla consumer behavior and the responses available to firm under attack. An examination of a sample of court decisions found in California and New York, along with past research on Illinois, suggests that in the courtroom, firms have little hope of fighting consumer dissatisfaction which manifests itself as guerrilla consumer behavior. From the cases presented herein, it seems as though the courts will almost never support a plaintiff firm that is assailed by guerrilla consumer behavior. The one exception that was found, California's case of Balboa Village Inn, Inc. v. Lemen, offers that the First Amendment right of free speech is not absolute (Balboa 2007). It is that very right, though, that is invoked in support of the guerrilla behavior illustrated in the other cases in New York, California, and Illinois (Koprowski and Aron 2011). The First Amendment has been broadly interpreted, and the line that demarcates going beyond this protection has not been clearly drawn.

While there are still another 47 states to consider, not to mention other countries and cultures throughout the globe, the outlook in terms of legal protection is not encouraging. In fact, anti-SLAPP laws are a further attempt to level the playing field between David, the consumer, and Goliath, the firm. Firms continue to have, or at least appear to have, ample resources to combat and perhaps intimidate dissatisfied customers into silence. However, Anti-SLAPP laws offer the consumer yet another shield while the Internet, social media, and mobile communications offer an effective array of weaponry. This, combined with the protection of the First Amendment, suggest that while the voice of the consumer must not be silenced, protection and recourse for an embattled merchant, damaged by guerrilla consumer behavior, must remain available.

The fundamental approaches to customer satisfaction still offer preemptive and recovery responses to guerrilla consumer behavior that the courts do not seem to provide. Consumer voice, that is, allowing and responding to complaining behavior, is an important approach to relieving dissatisfaction consumer and frustration. Facilitating exit behavior, in contrast to voice, can be seen as counterintuitive even in this era of empowered consumers. Many firms and entire industries, such as mobile phone or cable television service provision, rely on long-term contracts, access to consumer bank accounts, and automatic renewals to not only hide the exit doors from consumer but to lull consumers into forgetting that exits even exist. In other words, some firms thrive by making "one crucial element of the customer experience as difficult and frightening as possible.... the experience of disconnecting" (Fox 2013). It remains incumbent upon marketers to remove the possibility of guerrilla consumer behavior by making voice and exit possible, and by providing consumers incentive to stay.

REFERENCES

Aron, David (2001), "Consumer Grudgeholding: Toward a Conceptual Model and Research Agenda," *Journal of Consumer Satisfaction, Dissatisfaction and Complaining Behavior*, Vol. 14, p. 108 – 119.

- Balboa Island Village Inn, Inc. v. Anne Lemen, Supreme Court of California, 40 Cal. 4th 1141; 156 P.3d 339; 57 Cal. Rptr. 3d 320; 2007 Cal. LEXIS 4194; 38 Media L. Rep. 2133; 2007 Cal. Daily Op. Service 4553; 2007 Daily Journal DAR 5805, 2007.
- Christakis Shiamili, & c., Appellant, v. The Real Estate Group of New York, Inc., et al., Respondents. v., No. 105 - NY Court of Appeals. FindLaw (n.d.), FindLaw: Cases and Codes, June 14, 2011. Retrieved April 5, 2012, from http://caselaw.findlaw.com/ny-court-ofappeals/1570580.html.
- Defamation (redirected from Trade libel) (n.d.), *TheFreeDictionary.com*, Retrieved November 26, 2013, from http://legal-
- dictionary.thefreedictionary.com/trade+libel. Eagle Broadband, Inc. v. Roy Thomas Mould, Richard
- Williams Court of Appeal of California, Sixth Appellate District, 2007 Cal App. Unpub. Lexis 10116; 36 Media L. Rep 2101, 2007.
- Fornell, Claes and Birger Wernerfelt (1988), "A model for customer complaint management," *Marketing Science*, 7, 3, pp. 287-298.
- Fox, Justin, "Why Comcast Would Rather Be Feared Than Loved," *HBR Blog Network*. Harvard Business Review, 8 July 2013. Web. 11 July 2013. http://blogs.hbr.org/fox/2013/07/why-comcastwould-rather-be-fe.html.
- Funches, V., M. Markley and L. Davis (2009), "Reprisal, retribution and requital: Investigating customer retaliation," *Journal of Business Research*, 62(2), 231-238.
- Harris, L. C. and K. L. Reynolds (2004), "Jaycustomer behavior: An exploration of types and motives," *Journal of Services Marketing*, 18 (5), 339-357.
- Habyarimana, Jack and William Jack (2011), "Heckle and Chide: Results of a randomized road safety intervention in Kenya," *Journal of Public Economics*.
- Hirschman, A. O. (1970), *Exit, voice, and loyalty;* responses to decline in firms, organizations, and states, Cambridge, Mass.: Harvard University Press.
- Huefner, J. C., and H. Keith Hunt (2000), "Consumer retaliation as a response to dissatisfaction," *Journal of Consumer Satisfaction, Dissatisfaction* and Complaining Behavior, 13(1), 61-82.
- Ingram, K. (2013, May 29). IBM: US\$83 Billion Lost Yearly in Marketing Due to Poor Customer Experience.*CMSWire.com*. Retrieved June 27, 2013, from
 - http://www.cmswire.com/cms/customerexperience/ibm-us83-billion-lost-yearly-inmarketing-due-to-poor-customer-experience-021084.php.

- Camille Keene, M.D. v. Lake Publishing Co. Inc., et al., Court of Appeal of California, First Appellate District, Division Two, 2010 Cal. App. Unpub. LEXIS 1930; 38 Media L. Rep. 1493, 2010.
- Koprowski, W. and David Aron (2011), "Caging the Guerrilla Consumer: The Report from Illinois," *Journal of Academic and Business Ethics*, 4, 150-160.
- Krinksy v. Doe, No. H030767. CA Court of Appeal | FindLaw. (n.d.). *FindLaw: Cases and Codes*. February 6, 2008. Retrieved April 5, 2012, from <u>http://caselaw.findlaw.com/ca-court-of-appeal/1249034.html</u>.
- McCollough, Michael A. and S. G. Bhadradwaj (1992), "The recovery paradox: An examination of consumer satisfaction in relation to disconfirmation, service quality, and attribution based theories," In *Marketing Theory and Applications*, C.T. Allen et al., eds. Chicago, IL: American Marketing Association, p. 119.
- Population of All U.S. States from Smallest to Largest (n.d.). Retrieved from http://www.worldatlas.com/aatlas/populations/usa popl.htm; accessed October 29, 2013.
- Reber, A. S. (1985), *The Penguin Dictionary of Psychology*, Harmondsworth, Middlesex, England: Penguin Books.
- Results from Facebook search for "Anti Netflix." Retrieved from <u>http://www.facebook.com/search/results.php?q=an</u> <u>ti%20netflix&init=quick&tas=0.23507100078382</u> <u>903</u>); accessed April 1, 2012.
- Sandals Resorts International Limited, v Google, Inc., Supreme Court of New York, Appellate Division, First Department, 2011 NY Slip Op 4179; 86 A.D.3d 32; 925 N.Y.S.2d 407; 2011 N.Y. App. Div. LEXIS 4077; 39 Media L. Rep. 2065, 2011.
- Sandoval, G. (2012, July 11), "Netflix's lost year: The inside story of the price-hike train wreck," *CNET News*. Retrieved November 23, 2013, from http://news.cnet.com/8301-1023_3-57468798-93/netflixs-lost-year-the-inside-story-of-the-pricehike-train-wreck.
- Schoolman Transportation System, Inc., doing business as Classic Coach, v Leonard Aubrey, Supreme Court of New York, Appellate Division, Second Department, 2011 NY Slip Op 7407; 2011 N.Y. App. Div. LEXIS 7287, 2011.
- Simpson Strong-Tie Company, Inc. v. Pierce Gore et al., Supreme Court of California, 49 Cal.4th 12; 230 P.3d 1117; 109 Cal. Rptr 3d 329, 2010 Cal. Lexis 4561; 38 Media L. Rep. 1737, 2010.
- Singh, J., and R. E. Wilkes (1996), "When consumers complain: A path analysis of the key antecedents of consumer complaint response estimates," *Journal of the Academy of Marketing Science*, 24(4), 350-365.

- SLAPP Back Transcript On the Media. (n.d.). *Home On the Media*. Retrieved April 2, 2012, from <u>http://www.onthemedia.org/2010/apr/02/slapp-back/transcript.</u>
- State Anti-SLAPP Laws. Public Participation Project (n.d.), Retrieved from http://www.anti-slapp.org/your-states-free-speech-protection.
- Susskind, A.M. (2005), "A Content Analysis of Consumer Complaints, Remedies, and Repatronage Intentions Regarding Dissatisfying Service Experiences," *Journal of Hospitality & Tourism Research, 29* (2), 150-169.
- Tate, K.W. (2000), "California's Anti-SLAPP Legislation: A Summary of and Commentary on its Operations and Scope," 33 Loy. L.A. Law Review 801 (2000).
- Tortious Interference with Contractual Relations Law & Legal Definition (n.d.), *Tortious Interference with Contractual Relations Law & Legal Definition*, Retrieved November 26, 2013, from http://definitions.uslegal.com/t/tortiousinterference-with-contractual-relations.

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INVESTIGATING THE MEDIATING EFFECT OF CUSTOMER SATISFACTION IN THE SERVICE QUALITY – CUSTOMER LOYALTY RELATIONSHIP

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ABSTRACT

This article aims to elaborate on the concepts of service quality, customer satisfaction and customer loyalty and their relationships with the goal of establishing greater clarity on the path of relationship flow in the life insurance industry. The authors propose a model based on a thorough review of the literature and offer an empirical investigation into the mediating role of customer satisfaction in the hypothesized model.

The study begins with an identification of relevant variables and then moves to relationship testing. The authors use Multiple Regression Analysis to test the proposed causal relationships. The results empirically substantiate Customer Satisfaction as an intervening variable that offers directional influence as a mediator of the relationship between Service Quality and Customer Loyalty. The mediation model established in this study is found to be partial and complementary.

The study establishes customer satisfaction as a mediator in a service quality – customer loyalty relationship in the context of the life insurance industry in India.

Keywords: Service Quality, Customer Satisfaction, Customer Loyalty, Life Insurance Industry in India.

INTRODUCTION

Customer loyalty has not only found its way into the strategy rooms but it also features as a foremost theme of marketing research in most midto-large size organizations. It has turned into an indispensable managerial concern for all and a strategic obsession for some. Apart from intense competitive forces working in the background, the current customer relationship orientation of business has also set up a platform for customer loyalty to emerge as the heart of marketing activities across various industries, and especially ones that deal in services. Such escalating focus on customer loyalty can be attributed to the significant benefits that it offers to businesses successfully engaged in loyalty practices. Prominent scholars in the field of loyalty research such as Rosenberg and Czepiel (1984) opine that acquiring a new customer can be as much as six times costlier than keeping existing customers. Reichheld (1996) also agreed that retaining a customer is less costly in comparison to acquiring a new one. He also indicated that the growing power of customers made them more demanding and less loyal. It therefore became a matter of immense importance for service providers to build and maintain loyalty among their current customers.

Formation of customer loyalty has been an interesting area of research for over 25 years. Parasuraman et al. (1988) established a causal relationship between service quality perceptions and customer satisfaction. Reichheld and Sasser (1990) established a causal relationship between service quality perceptions and customer loyalty. Bloemer and de Ruyter (1998) ascertained the positive relationship between customer satisfaction and customer loyalty. Apart from directly determining the state of loyalty among customers, satisfaction also influences the relationship between customer loyalty and other cognitive, affective and conative variables as well as customers' evaluative judgements such as service quality which is a major antecedent of loyalty. To more fully understand the relationship among these constructs, it is imperative to understand the conceptual framework of the constructs and then, their relationship along with directional influences.

LITERATURE REVIEW

In order to construct a literature framework, relevant studies have been thoroughly reviewed and are presented to first elaborate the conceptual framework of all three constructs examined in the study. Attention is then focused on exploring the relationship among them from the perspective of service industries in general and the life insurance industry in particular. Subsequently, the directional flow of the relationships are discerned through literature search and review. These steps then result in the establishment of the research model tested and described in this article.

Service Quality

Kandampully (1998) reflected that a prime objective of any business, either manufacturing or services, is to achieve economic survival by developing and providing offerings that fulfil customer needs which can be understood by analyzing customers' quality evaluations and their decision making criteria in terms of repeat patronage and preference. Leonard & Sasser (1982), Takeuchi & Quelch (1983) and Joseph & Walker (1988) opined that ever-increasing competition and escalating customer expectations pose considerable challenges to organizations. Albrecht & Zemke (1985) noted that customers have grown extremely serious about the quality of services they receive.

Fisk et al. (1993) pointed out that service quality is among the principal themes of research related to services. Swan and Combs (1976) explained that consumers tend to compare their experience of quality with their pre-consumption expectations which forms the above mentioned paradigm. Such comparison, as put by Woodruff et al. (1983), results in emotion based reactions which forms the satisfaction or dissatisfaction with the products or services.

Gronroos (1984) found that extrinsic product related cues such as brand image are used by customers to ascertain service quality. Purer services such as life insurance heavily rely on extrinsic cues as there is hardly any tangible feature that can give an idea of its quality. Insurance is a credence product with high variability in pricing. Such differences in pricing, mainly used to meet customers' specific needs, make comparing different options difficult which again poses a challenge in service quality evaluation. Another notable feature of life insurance is that the consequences of choosing a particular offering typically attain clarity only after a considerable period of time. Therefore, immediate postpurchase evaluation cannot take place which alters the basis for overall satisfaction.

Johnston et al. (1984) posited that sporadic purchase and usage of credence products make it difficult for customers to form service expectations due to limited understanding and awareness about the service. However, as Berry (1995) suggested, customers look for long-term association with the life insurance provider and agents so as to reduce the perception of financial risks and other uncertainties. Given the above mentioned aspects of life insurance services, it is likely that they entail distinct expectations as suggested by Toran (1993).

Sherden (1987) pointed that delivery of high quality services where customers' expectations are exceeded is unusual in the life insurance industry though increasingly demanded by the customers. Toran (1993) offered the opinion that quality should be treated as the core element of the insurance industry's operations. Walker and Baker (2000) suggested that expectations act as standards or reference points for service evaluation and thus, agents need to understand customers' expectations of their services.

Siddiqui and Sharma (2010) posited that although a good number of empirical studies related to service quality have been conducted in various service industries, service quality modelling has not been fully examined in the context of life insurance services.

Customer Satisfaction

Oliver (1997) stated that satisfaction is the consumer fulfilment response. It is a judgment that a product or service feature, or the product or service itself, provided (or is providing) a pleasurable level of consumption-related fulfilment, including levels of under-or overfulfilment. Johnson (2001) proposed that there are mainly two conceptualizations of customer The first category of conceptsatisfaction. ualization can be represented by Oliver (1980) who suggested that measurement of satisfaction should be based on particular product or service transactions which can be defined as post-selection evaluative judgements related to specific buying conceptualization decisions. Another was established by such researchers as Anderson et al. (1994); Garbarino and Johnson (1999); Mittal et al. (1999) who perceived satisfaction in terms of a consumer's total cumulative experiences with a firm, product or service.

According to Yu and Dean (2001) and Bennett and Rundle-Thiele (2004) the antecedents of satisfaction can be emotional or cognitive. Solomon et al. (2002) posit that satisfaction is largely determined by the feelings or attitudes about a product or service generated post purchase or consumption. Rai (2013) defined satisfaction as "a buyer's emotional or cognitive response postsubjective assessment and comparison of prepurchase expectations and actual performance subsequent to the consumption of the product or service, meanwhile evaluating the costs incurred and benefits reaped in a specific purchase even or over time in course of transacting with an organization" (p. 105).

There have been limited published studies that investigate various forms and roles of satisfaction in a life insurance context. Joseph et al. (2003) in their study suggested that life insurance agents should constantly monitor the satisfaction levels among their customers through routine dialogue and never fail to communicate with them as more and more clients expect their agents to recognize them personally and communicate accordingly. These authors further reiterated that customer satisfaction is essential to survival of agents in the volatile insurance climate and thus, agents should try to maintain a high level of customer satisfaction by providing free or minimally charged services such as offering routine insurance evaluation updates, customized estate planning services, suggesting tax saving investment products, and so on.

Customer Loyalty

Yi (1990), Hallowell (1996) and Homburg and Giering (2001) have noted that initially, customer loyalty has been perceived to be a behavioral concept entailing repeat buying of product or service measured as the series or share of purchases, referrals, magnitude of relationship or all of the above mingled together. Day (1969) found the behavioral conceptualization of loyalty is insufficient for distinguishing true loyalty from fake loyalty and suggested that loyalty should be evaluated through both behavioral and attitudinal measures. Researchers such as Jacoby and Kyner (1973), Dick and Basu (1994), Oliver (1997) and Berne´ et al. (2001) have highlighted the attitudinal dimension of loyalty. The need of incorporating an attitudinal component of loyalty has been emphasized by Bandyopadhyay and Martell (2007) who revealed that situational factors like unavailability of stock, individual factors like resistance to change and socio-cultural factors like social bonding differentiate behavioral loyalty from attitudinal loyalty. Fournier and Yao (1997),

Macintosh and Lockshin (1997), Pritchard et al. (1999), Bowen and Chen (2001), Rundle-Thiele and Mackay (2001), Wong and Sohal (2003), Koo (2003) and Kumar and Shah (2004) recommend to combine the behavioral and attitudinal measures of loyalty. Rai and Srivastava (2012) stated that "a customer can express his degree of loyalty towards a service provider by either displaying a positive attitude or indulging in favorable actions or making conscious evaluations and finding a particular service worth sticking to." (pp. 66).

Guillen et al. (2008) noted that the number of empirical studies on customer loyalty in the insurance sector is low. They contended that it is important to monitor customer loyalty and business risk for life insurance companies due to reasons such as access to information related to the quality of portfolio, effective handling of customer recruitment and retention strategies, evaluation of competitiveness in the insurance sector and a company's position in that market. Lombardi (2005) stated that keeping customers is crucial for life insurers as a long-lasting association with those customers results in greater instances of crossselling and positive recommendation intentions.

Slattery (1989) stated that the agent's relationship with his customers and quality of his service are decisive factors in selling a policy and retaining the customers. Toran (1993) believed that an agent's perceived integrity and the quality of his advice plays a major role in customers' decision for life insurance services. Solomon et al. (1985); Grönroos (1990) found that customer's discernment of face-to-face interaction with the service employee is taken as a significant determinant of customer loyalty.

Putting this all together, then, Customer Loyalty in the context of insurance services can be comprehended as a psychological construct formed by 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.

CAUSAL MODELS AND HYPOTHESES

The concepts discussed above provide a base for creating relational models involving service quality, customer satisfaction and customer loyalty which depict the causal as well as directional flow that these constructs obey. The relationships among the principal constructs form three different paths, each of which are discussed in the following sections.

Path 1: The Service Quality – Customer Loyalty Relationship:

Service Quality — Customer Loyalty

Zeithaml et al. (1996) found a positive between service quality relationship and willingness to pay more as well as lovalty. Baker and Crompton (2000) reported a positive relation between service quality and willingness to pay higher prices and to customer loyalty. Chow et al. (2007) carried out their study in restaurant industry and found that frequent patronage of guests is related to high levels of service quality. Wong and Sohal (2003) attempted to assess the impact of service quality dimensions on customer and found that there is a positive association between service quality and customer loyalty.

Cronin and Taylor (1992) stated that service quality has no significant effect on repurchase intentions. Cronin et al. (2000) posited that the association of perceived service quality with behavioral intentions differs from industry to industry. Bei and Chiao (2001) also posited that high levels of perceived service quality had an indirect but significant positive effect on customer loyalty via customer satisfaction. Olorunniwo et al. (2006) reported that in the context of a service factory, the indirect effect of service quality on behavioral intentions with customer satisfaction mediating the effect is stronger than the direct effect of service quality on behavioral intentions. Tsoukatos and Rand (2006) verified the findings of Parasuraman et al. (1988), Reichheld and Sasser (1990), Fornell (1992), Cronin and Taylor (1992) and Anderson and Sullivan (1993) about the causal relations between service quality perceptions, satisfaction and loyalty and accepted the path service quality – customer satisfaction – loyalty to be valid in the Greek insurance industry. Caceres and Paparoidamis (2007) empirically verified the mediating role of relationship satisfaction in a business to business context and asserted that the relationship between functional and technical dimensions of service quality and business loyalty is mediated by relationship satisfaction whereas no support has been found for the direct effect of service/product performance on customer loyalty.

Juga et al. (2010) studied and supported a satisfaction-loyalty model (Oliver, 1980) in a logistics outsourcing context and stated that instead of directly influencing loyalty, service perceptions influence loyalty through the shipper's overall satisfaction with the service provider.

Based upon the above discussion, the following hypothesis is proposed:

H1: There exists a significant relationship between Service Quality and Customer Loyalty in the context of Insurance Services.

Path 2: The Service Quality – Customer Satisfaction Relationship:

Service Quality → Customer Satisfaction

Hurley and Estelami (1998) posited that a customer's level of satisfaction with an organization or a service provider is determined by the evaluation of service quality along with other factors. Murray and Howat (2002) reviewed Crompton & MacKay (1989), Oliver (1993), Buttle (1996), De Ruyter, Bloemer & Peeters (1997) and Liljander & Strandvik (1997) and noted that substantial amounts of discussions have been undertaken about the distinctiveness of service quality and customer satisfaction as constructs as well as whether satisfaction is an antecedent or an outcome of service quality. Their findings suggested that service quality acts as an antecedent to satisfaction.

Dabholkar et al. (2000) and Santouridis et al. (2009) found that service quality has been quoted as the most influential predictor of customer satisfaction in the literature. Arasli et al. (2005) and Al-Hawari et al. (2009) noted that service quality has been the focal point of recent inquiries into the parameters affecting degree of customer satisfaction in the context of financial services. Kassim and Abdullah (2010) in their study conducted among the customers of Malaysia and Qatar agreed that service quality is an antecedent Chen et al. (2012) of customer satisfaction. confirmed the well-established relationship between service quality and customer satisfaction and suggested that although service quality can increase customer satisfaction both directly and indirectly... but in a financial services context,

service fairness is also considered along with service quality while forming satisfaction levels.

Based upon the above discussion, following hypothesis is proposed:

H2: There exists a significant relationship between Service Quality and Customer Satisfaction in the Context of Insurance Services.

Path 3: Customer Satisfaction – Customer Loyalty Relationship:

Henning-Thurau and Klee (1997) partitioned studies related to customer satisfaction – loyalty link into three groups:

1. Studies originating from literature of service management investigating the relationship at an aggregated, company-wide level. Here, satisfaction has been considered as an antecedent of customer loyalty, which is capable of influencing firms' profitability (e.g., Rust and Zahorik, 1993; Anderson et al., 1994; Heskett et al., 1994).

2. Studies accepting the impact of satisfaction on loyalty while questioning the assumption of a linear and symmetric structure of the relationship between the two (e.g., Anderson and Sullivan, 1993; Oliva et al., 1995; Mittal et al., 1998).

3. Studies analyzing the satisfaction loyalty link on an individual level with real purchasing data (e.g., Bolton, 1998; Mittal and Kamakura, 2001).

Over the years, several researchers such as Ganesan (1994), Mittal et al. (1998), Mittal and Kamakura (2001) and others have portrayed customer satisfaction to be influencing the factors that link to the long-term orientation of a relationship. Geyskens et al. (1999) considered customer satisfaction as an essential factor responsible for the long-term association between suppliers and buyers. It has often been stated that the affect component of satisfaction could stimulate a satisfied customer to patronize the service provider as well as referring its services to others. The positive effect of customer satisfaction on these dimensions of loyalty has been repeatedly voiced in the literature.

Heskett et al. (1997) posited that a rapid increase in customer loyalty can be expected once customer satisfaction crosses a definite threshold. In other words, the relationship between customer satisfaction and customer loyalty experiences rising returns to scale. Oliver et al. (1997) reflected the threshold argument in their research findings pertaining to customer delight which suggested that "tremendously satisfied" or "delighted" customers have a stronger tendency to stay with the organization than merely "satisfied" ones.

Oliver (1999) and Bennett and Rundle-Thiele (2004) pointed out that satisfaction in commercial relationships could act as a proxy. Oliver (1999) perceived customer satisfaction as a "seed" which may produce customer loyalty in certain conditions but not always. Egan (2000) and Mcllroy and Barnett (2000) suggested that though a necessary requisite, customer satisfaction is not sufficient for loyalty building. Egan (2000) noted that satisfied customers are likely to switch if they are convinced of receiving better value, whether in terms of convenience or quality, somewhere else.

Noordhoff et al. (2004) regarded satisfaction as an important factor that may affect customer loyalty in retailing industries characterized with growth. Keh and Lee (2006) analyzed the moderating effect of satisfaction on rewards in loyalty programs and found that satisfaction does affect the effectiveness of rewards.

Based upon the above discussion, the following two hypotheses are proposed:

H3: There exists a significant relationship between Customer Satisfaction and Customer Loyalty in the context of Insurance Services.

H4: Customer Satisfaction mediates the relationship between Service Quality and Customer Loyalty in the context of Insurance Services.

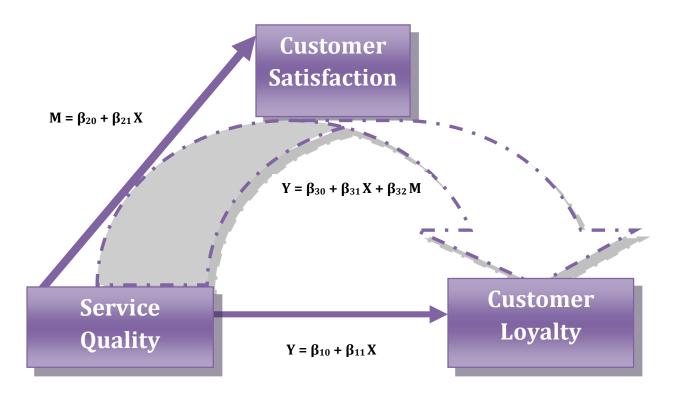
RESEARCH METHODOLOGY

The research method and tools employed in this study are detailed in the following sections.

The Research Problem

A comprehensive survey of such literary sources as were highlighted in the previous sections of this article revealed that the relationships between service quality, customer satisfaction and customer loyalty have been examined by numerous scholars, in many studies conducted in varied business/services settings. A thorough review of these studies led the author to look more closely at the possible mediating role of customer satisfaction in the quality - loyalty link. Some work of this type has been conducted, but virtually no published work has been found in the context of life insurance industry.

Also, the form and strength of the mediating role of customer satisfaction has not been paid adequate attention to in most of the studies that have examined mediation. This, in this author's opinion, establishes the need for testing the relational impact of Service Quality on Customer Loyalty as well as the directional influence of Customer Satisfaction on this relationship in the context of the life insurance industry. The proposed conceptual research model of the study is given below.



Where, Y = dependent variable (customer loyalty), X = independent variable (service quality) and, M = mediating variable (customer satisfaction).

Baron and Kenny (1986) provide guidelines for establishing indirect effects and declare the following three conditions as requisites for establishing mediation.

- 1. The independent variable must affect the mediator in the first equation;
- 2. The independent variable must be shown to affect the dependent variable in the second equation; and
- **3.** The mediator must affect the dependent variable in the third equation.

The Research Objectives

The objectives that determine the direction of the study follow.

- 1. To explore the relationship between service quality and customer loyalty and ascertain the strength.
- 2. To examine the role and impact of customer satisfaction as an upshot of service quality and predecessor of customer loyalty.
- **3.** To investigate the mediating role of customer satisfaction in the relationship of service quality and customer loyalty.

The Research Design

The research is both exploratory and descriptive: the identification of variables for the study is the initial step, and relationship testing follows.

Development of the Survey Instrument

A thorough review of the customer loyalty literature revealed seven factors that can be considered antecedents of customer loyalty. These seven antecedents served as the basis for construction of the survey instrument used in this study. In order to design a questionnaire to assess loyalty among customers, individual scales of these antecedents have been found and reviewed. Items which were considered most relevant in the context of present research have been taken from these scales and put together to form a new questionnaire. The total number of items at the initial stage was 77. This pool of items was again scanned to remove irrelevant or redundant items with the goal of achieving parsimony, validity and objectivity. After thorough examination, 38 items were found to be appropriate for the questionnaire. These items were then pilot tested by experts, academicians, industry lovalty practitioners and some of consumers drawn from the population of life insurance customers. Based upon the feedback received, the questionnaire was redesigned. 35 items were chosen to be included in the actual questionnaire used in the study.

Data and Sample

The data acquired for testing the proposed research model was collected through a survey among the customers of the top three life insurance companies (based on their relative shares of the market of life insurance policies in India. These companies were: the Life Insurance Corporation of India; ICICI Prudential Life Insurance; and SBI Life. For the selection of respondents, Snowball Sampling was used since the target population consisted of only those customers who hold one or more policies worth Rs. 5 lakh or above for a minimum period of 5 years.

Prospective respondents were requested to register their responses to measurement items (see Appendix A) in the questionnaire designed to observe their evaluative judgements and emotional reactions towards their life insurance service provider and consequently, their loyalty intentions. All of the measurement items were anchored on a seven point Likert scale (1 = strongly disagree, 7 =strongly agree). A total of 400 usable questionnaires were obtained from a possible 450 customers, a response rate of 88 percent, and the average age of the respondents was 33 years. Of these, 70 percent were male and 30 percent female. These 400 customers broke down as follows: 220 were customers of LIC of India; 107 were customers of SBI Life; and 73 were customers of ICICI Prudential.

The internal consistency of the 35 items scale used in this study was determined by computing Cronbach's coefficient alpha which came out to be .955. The items were presented in English as well as Hindi to remove language related hindrances.

The data collected was subjected to Multiple Regression Analysis so that the relationships among the primary constructs understudy i.e., service quality, customer satisfaction and customer loyalty and any possible directional influence over these relationships can be tested. The results of the analysis and detailed discussion are presented in the section of findings.

Scope of the Study

The present study is centered on investigating and establishing a relationship between customers' evaluative judgements of life insurance services and their relational outcomes. It is focused on the relationship between service quality and customer loyalty with customer satisfaction exerting indirect effects on the aforementioned relationship. There may be other variables that play potentially strong roles in the inter-relationships of service quality, customer satisfaction and customer loyalty. However, for purposes of this particular inquiry, they have largely been assumed to have a null effect in the above depicted research model. Notably, this study has taken into account the responses of Indian life insurance customers only, thus limiting the generalizability of any results. The study also does not include the whole insurance industry (auto; home; health. etc.) thus limiting the generalizability of any results.

RESULTS

The study's findings have been partitioned into three sections in line with the aforementioned conditions of Mediation analysis:

a) The dependent variable Customer Loyalty has been regressed on the independent variable Service Quality. The result substantiated that the independent variable, service quality, is a significant predictor of the dependent variable, customer loyalty.

The relationship between service quality and customer loyalty was examined through linear regression analysis, the test results which are presented in **Table 1**. The value of R^2 (.829) suggests the model to be very strong. H1 proposed that service quality and customer loyalty would share a significant relationship. The significance value of β_{11} was found to be smaller than the default value of .05 thus demonstrating that a significant relationship between service quality and customer loyalty exists.

b) The mediating variable Customer Satisfaction has been regressed on the independent variable Service Quality in an attempt to establish Service Quality as a significant predictor of customer satisfaction.

H2 was related to the effect of service quality on customer satisfaction and to assess this, linear regression analysis was undertaken. As can be seen in **Table 1**, the value of R^2 (.495) suggests the model to be moderately strong. $\beta_{21} = 1.142$ which is significant as the value of significance is smaller than the default value (.05) thus demonstrating that customer satisfaction is significantly related to service quality.

c) Regressing the dependent variable on both the mediator and independent variable confirmed that the mediator is a significant predictor of the dependent variable. Also, as per the conditions laid down by Baron & Kenny (1986), the coefficient of the independent variable in a multiple regression equation where the dependent variable was regressed on both mediator and independent variable should be smaller than the coefficient of independent variable in the first equation.

In order to assess the mediating role of customer satisfaction, its' effect on customer loyalty has been tested through regression analysis while controlling for service quality. As revealed in **Table 1**, the model is very strong given the value of R^2 (.959). Also, $\beta_{32} = .360$ which is significant and the value of significance is smaller than the default value (.05) thus demonstrating that there is a statistically significant relationship between customer satisfaction and customer loyalty.

H4 proposed that there would be a mediating role of customer satisfaction in the service quality – customer loyalty relationship. The third condition of Baron & Kenny's (1986) mediation model also holds true in the present study as β_{31} (.636) < β_{11} (1.047)...thus the implication that Customer Satisfaction mediates the relationship between Service Quality and Customer Loyalty.

TABLE 1

Models (Steps in Mediation Analysis)	Service Quality	Customer Satisfaction	R ²
Model 1			
(DV = Customer Loyalty	1.047^{*}	-	.829
IV = Service Quality)			
Model 2			
(DV = Customer Satisfaction	1.142^{*}	-	.495
IV = Service Quality)			
Model 3			
(DV = Customer Loyalty	.636*	.360	.959
IV = Service Quality	.050	.500	.939
MV = Customer Satisfaction)			
*p value < 0.005			

Results of Multiple Regression Analysis

Also the VIF values for service quality and customer satisfaction were found to be well within the prescribed limit of 5 which suggests that there is no problem of multicollinearity between the predictors in this model.

The result of Sobel's Test are presented in **Table 2.** This result suggests that the proposed mediation model is statistically significant since the p-value of Sobel test statistic is smaller than the default value of .05.

TABLE 2

Sobel Test Statistic

Test Statistic	Std. Error	p-value
17.27469982	0.02379897	0

The Predictive Equation for the entire model is:

CL = -.183 + .636 SQ + .360 CS

(.360 is significant as the value of significance is lower than the default value of .05; β 31 (.636) < β 11 (1.047). Thus, Baron and Kenney's third condition also holds true.)

DISCUSSION AND IMPLICATIONS

Customer Satisfaction has been found to be a significant predictor of Customer Loyalty in the context of life insurance in India. The p-values associated with β_{11} (1.047) and β_{21} (1.142) indicate a statistically significant relationship of Service Quality with Customer Loyalty and Customer Satisfaction respectively, which in turn is significantly associated with Customer Loyalty ($\beta_{32} = .360$). Also, the role of Service Quality in determining Customer Loyalty diminishes significantly (.636 < 1.047) once the intervening variable Customer Satisfaction enters the equation. Baron and Kenny (1986) recommended Sobel's test to examine the significance of mediation model. They stated that "Sobel (1982) provided an approximate significance test for the indirect effect of the independent variable on the dependent variable via the mediator." The Sobel Test statistic for the mediation proposed in this study is **17.27469982** with a significant p-value. The significance of Sobel test statistic validates the proposed mediation model.

Thus, present study corroborates the literature that suggests Customer Satisfaction to play a greater role than just being a prominent antecedent to Customer Loyalty. The study empirically demonstrates Customer Satisfaction as an intervening variable that offers directional influence to the relationship between the constructs Service Quality and Customer Loyalty. Another interesting finding stems from the statistical significance of the direct relationship between service and customer loyalty which implies that customer satisfaction only partially mediates the aforementioned relationship.

To examine whether the mediation established in this study is complementary or competitive in nature, the sign of product of all three coefficients needs to be determined. By following the procedure stated by Zhao et al. (2010), the mediation established in this study is classified as complementary mediation.

It can be concluded that Indian customers' evaluation of superior service quality of their life insurance provider leads them to satisfaction and continued episodes of customer satisfaction will result in a solid base of loyal customers for the life insurers. Thus, Customer Satisfaction enhances the relationship between Service Quality and Customer Loyalty.

Life insurers all across the world are in a fix as the industry dynamics have vastly changed and retaining a customer is becoming increasingly difficult. According to World Insurance Report (2007) by Capegemini, the Insurance industry has become more transparent due to the increased usage of the internet which enables customers to have easier access to product and price related information, thereby increasing their bargaining capacity. This information transmission has made customers self-reliant, more price sensitive and less loyal. Guillén et al. (2009) opined that customer defection poses a very real threat to companies operating in the insurance industry. Though defection can be compensated for by new customer acquisition, this alone is not a good solution because of government regulations around the world: typically, in the event of contract cancellation, the composition and quality of insurance risks are distorted leading to a negative impact on the judged solvency of the company and thus the rating of that company. So, life insurers have endeavored to enhance customer loyalty among their existing customer base. With an understanding of the two major antecedents of customer loyalty i.e., service quality and customer satisfaction, customer loyalty can be more effectively managed and sustained. Also, the directional influence established in this study offers a framework to the loyalty practices of the life insurers who can plan and implement a sequence of activities and allocate their limited marketing resources accordingly.

In order to achieve desirable and effective results, life insurers need to establish performance standards for all three constructs analyzed in this study. Such benchmarking will provide them direction and focus required to outperform the competition and ensure a better service experience for their customers. A regular monitoring of customer loyalty can serve as a yardstick and help in managing business risks while ensuring longterm profitability.

LIMITATIONS OF THE STUDY

The study is confined to the geographical boundaries of Varanasi city in India which affects the generalizability of the results. Also, the findings are restricted to the information furnished by the respondents which suffers from the risk of biasness and human errors. While assessing the mediating role of customer satisfaction, it has been assumed that customer satisfaction is directly related to service quality as well as customer loyalty which means that the possibility of multiple mediations in the research model has been ignored. However, these potential relational or directional influences may have a huge role to play in the context of commercial relationships. The study is conducted in the context of the life insurance industry in India which restricts the results from being extrapolated to other service industries with different sets of entry and exit barriers, switching costs, relationship tenure and customer responses.

FUTURE RESEARCH

Scholars in the future may explore the possibilities beyond the main mediation model established in the present study by testing the existence of other variables and their potential effects on the relationships discussed and demonstrated here. It would be interesting to see if the relationships of customer satisfaction with service quality and customer loyalty are also mediated through some other variables such as perceived value, trust, switching costs, etc. Also, the possibility of some variables exerting moderating influences on the mediating relationship discussed in the present study cannot be discarded without testing. Such variables and their exact effects need to be identified in order to generate a comprehensive understanding of the aforementioned relationships. Future studies may enhance the explanatory power and predictability of the above model by testing and verifying the existence of multiple mediations as well moderated mediation in the model.

The present study can be replicated in varied service contexts such as entertainment and recreational services, postal services, etc. in other cultural settings. Future studies can also concentrate on identification of other mediating variables that provide directional influence to service quality – customer loyalty link.

REFERENCES

- Albrecht, K. & R. Zemke (1985), "Instilling a service mentality: like teaching an elephant to dance," *International Management*, 40(1), 61-67.
- Al-Hawari, M., T. Ward & L. Newby (2009), "The relationship between service quality and retention within the automated and traditional contexts of retail banking," *Journal of Service Management*, 20 (4), 455-72.
- Anderson, E. W. & C. Fornell (1994), "A Customer Satisfaction Research Prospectus," in *Service Quality: New Directions in Theory and Practice*, R. T. Rust and R. L. Oliver, eds. Thousand Oaks, CA: Sage Publications, Inc., 241-268.
- Anderson, E. W. & M. W. Sullivan (1993), "The antecedents and consequences of customer satisfaction for firms," *Marketing Science*, 12 (2), 125-43.
- Arasli, H., S. Mehtap-Smadi & S. T. Katircioglu (2005), "Customer service quality in the Greek Cypriot banking industry, *Managing Service Quality*," 15 (1)," 41-56.

- Baker, D. A. & J. L. Crompton (2000), "Quality, satisfaction and behavioral variables," *Annals of Tourism Research*, 27 (3), 785-804.
- Bandyopadhyay, S. & M. Martell (2007), "Does attitudinal loyalty influence behavioral loyalty? A theoretical and empirical study," *Journal of Retailing and Consumer Services*, 14, 35-44.
- Baron, R. M. & D. Kenny (1986), "Moderator-Mediator Variables Distinction in Social Psychological Research: Conceptual, Strategic, & Statistical Considerations," *Journal of Personality and Social Psychology*, 51 (6), 1173-82.
- Bei, L.T. & Y. C. Chiao (2001), "An integrated model for the effects of perceived product, perceived service quality, and perceived price fairness on consumer satisfaction and loyalty," *Journal of Consumer Satisfaction, Dissatisfaction and Complaining Behaviour*, 14, 125-40.
- Bennet, R. & S. Rundle-Thiele (2004), "Customer satisfaction should not be the only goal," *Journal of Service Marketing*, 18 (7), 514–523.
- Berne', C., J. M. Mugica & M. J. Yague (2001), "The effect of variety-seeking on customer retention in services," *Journal of Retailing and Consumer Services*, 8, 335-45.
- Berry, L. L. (1995), "Relationship Marketing of Services: Growing Interest, Emerging Perspectives," Journal of the Academy of Marketing Science, 23 (Fall), 236-45.
- Bloemer, J & K. Ruyter (1998), "On the relationship between store image, store satisfaction and store loyalty," *European Journal of Marketing*, 32 (5/6), 499 – 513.
- Bowen, J. T. and S. Chen (2001), "The Relationship between Customer Loyalty and Customer Satisfaction. International Journal of Contemporary Hospitality Management," 13(5), 213-217.
- Caceres, R. C. & N. G. Paparoidamis (2007), "Service quality, relationship satisfaction, trust, commitment and business-to-business loyalty," *European Journal of Marketing*, 41(7), 836–867.
- Chen, H, J. Y. Liu, T. S. Sheu & M. Yang (2012), "The impact of financial services quality and fairness on customer satisfaction," *Managing Service Quality*, 22 (4), 399 421.
- Chow, I. H., V. P. Lau, T. W. Lo, Z. Sha & H. Yun (2007), "Service quality in restaurant operations in China: Decision- and experiential-oriented perspectives," *Hospitality Management*, 26, 698–710.
- Cronin, J.J. Jr. & Steven A. Taylor (1992), "Measuring service quality: a re-examination and extension," *Journal of Marketing*, 56 (July), 55-68.
- Cronin, J.J., M. K. Brady and G. T. M. Hult (2000), "Assessing the effects of quality, value, and customer satisfaction on consumer behavioral intentions in service environments," *Journal of Retailing*, 76 (2), 193-218.

- Dabholkar, P.A., C. D. Shepherd & D. I. Thorpe (2000), "A comprehensive framework for service quality: an investigation of critical conceptual and measurement issues through a longitudinal study," *Journal of Retailing*, 76 (2), 139-73.
- Day, G.S. (1969), "A Two-Dimensional Concept of Brand Loyalty," *Journal of Advertising Research*, 9(3), 29-35.
- Dick, A. S. & K. Basu (1994), "Customer Loyalty: Towards an Integrated Framework," *Journal of the Academy of Marketing Science*, 22 (2), 99-113.
- Egan, J. (2000), "Drivers to relational strategies in retailing," *International Journal of Retail and Distribution Management*, 28(8), 379–386.
- Fisk, R.P., S. W. Brown & Mary Jo Bitner (1993), "Tracking the evaluation of the services marketing literature," *Journal of Retailing*, 69 (1), 61-103.
- Fornell, C. (1992), "A national customer satisfaction barometer: the Swedish experience," *Journal of Marketing*, 56, (1), 1-18.
- Fournier, Susan. & J. Yao (1997) "Reviving Brand Loyalty: A Re-conceptualization within the Framework of Consumer-Brand Relationships," *International Journal of Research in Marketing*, 14, 451-472.
- Ganesan, S. (1994), "Determinants of long-term orientation in buyer-seller relationship," *Journal of Marketing*, 58 (2), 1-19.
- Garbarino, E & Mark S. Johnson (1999), "The Different Roles of Satisfaction, Trust, and Commitment in Customer Relationships," *Journal of Marketing*, 63 (2), 70-87.
- Geyskens, I., J.B.E.M Steenkamp & N. Kumar (1998), "Generalizations about trust in marketing channel relationships using meta-analysis," *International Journal of Research in Marketing*, 15,223-248.
- Gronroos, C. (1990), *Service Management and Marketing*, Lexington Books, Lexington, MA.
- Grönroos, C (1984), "A Service Quality Model and Its Marketing Implications," *European Journal of Marketing*, 18 (4), 36-45.
- Grönroos, C (2001), "The perceived service quality concept a mistake?" *Managing Service Quality*, 11 (3), 150 152.
- Guillen, M, J. P. Neilsen & A. M. Perez-Marin (2008), "The Need to Monitor Customer Loyalty and Business Risk in the European Insurance Industry," *The Geneva Papers*, 33, 207-218.
- Guillén, M., J. P. Nielsen & A. M. Pérez-Marín (2009), "Cross-buying Behaviour and Customer Loyalty in the Insurance Sector," *ESIC Market*, 132, 77-136.
- Hallowell, R. (1996), "The relationship of customer satisfaction, customer loyalty and profitability: an empirical study," *International Journal of Service Industry Management*, 7(4), 27–42.

- Hennig-Thurau, T & A. Klee (1997), "The Impact of Customer Satisfaction and Relationship Quality on Customer Retention—A Critical Reassessment and Model Development," *Psychology & Marketing*, 14 (December), 737-65.
- Heskett, J.L., W. E. Sasser, Jr and L. A. Schlesinger (1997), *The Service Profit Chain*, The Free Press, New York, NY.
- Homburg, C & A. Giering (2001), "Personal Characteristics as Moderators of the Relationship between Customer Satisfaction and Loyalty - an Empirical Analysis," *Psychology and Marketing*, 18 (1), 43-66.
- Hurley, R.H. & H. Estelami (1998) "Alternative indices for monitoring customer perceptions of service quality: a comparative evaluation in a retail context". *Journal of the Academy of Marketing Science*, 26, 201-21.
- Jacoby, Jacob & D. B. Kyner (1973), "Brand Loyalty vs. Repeat Purchasing Behavior," *Journal of Marketing Research*, 10 (1), 1-9.
- Johnson, M. (2001), "Customer satisfaction", in Smelser, N.J. and Baltes, P.B. (Eds), *International Encyclopedia of the Social & Behavioral Sciences*, Elsevier, Amsterdam, 3198-202.
- Johnston, E. O., R. J. O'Connor & W. H. Zultowski (1984), "The personal selling process in the life insurance industry," in J. Jacoby, & C. S. Craig (Eds.), *Personal Selling: Theory, Research and Practice* (pp. 136-164). Lexington, MA: Lexington Books.
- Joseph, J. and C.E. Walker (1988), "Measurement and Integration of Customer Perception into Company Performance and Quality," in: Bitner, M.J. and L.A. Crosby, (Eds.), *Designing a Winning Service Strategy* (New York, AMA).
- Joseph, M, G. Stone & K. Anderson (2003), "Insurance Customers' Assessment of Service Quality: A Critical Evaluation," *Journal of Small Business & Enterprise Development*, 10 (1), 81-92.
- Juga, J, J. Juntunen & D. B. Grant (2010), "Service quality and its relation to satisfaction and loyalty in logistics outsourcing relationships," *Managing Service Quality*, 20 (6), 496 – 510.
- Kandampully, J (1998), "Service quality to service loyalty: A relationship which goes beyond customer services," *Total Quality Management*, 9 (6), 431-443.
- Kassim, N & N. A. Abdullah (2010), "The effect of perceived service quality dimensions on customer satisfaction, trust, and loyalty in e-commerce settings: A cross cultural analysis," *Asia Pacific Journal of Marketing and Logistics*, 22 (3), 351 – 371.
- Keh, H. T. & Y. H. Lee (2006), "Do Reward Programs Build Loyalty for Services? The Moderating Effect of Satisfaction on Type and Timing of Rewards," *Journal of Retailing*, 828 (2), 127-136.

- Koo, D. M. (2003), "Inter-relationships among store images, store satisfaction, and store loyalty among Korea discount retail patrons," *Asia Pacific Journal* of Marketing and Logistics, 15(4), 42–71.
- Kumar, V. & D. Shah (2004), "Building and Sustaining Profitable Customer Loyalty for the 21st Century," *Journal of Retailing*, 80(4), 317-329.
- Leonard, F. S. & W.E. Sasser (1982), "The Incline of Quality," *Harvard Business Review*, 60, 163-171.
- Lombardi, L. J. (2005), "The importance of client retention," *LIMRA's Market Facts Quarterly*, 24 (2), 31-32.
- Macintosh, G. & L.S. Lockshin (1997), "Retail Relationships and Store Loyalty: A Multi-Level Perspective," *International Journal of Research in Marketing*, 14 (5), 487-97.
- McIlroy, A. and S. Barnett (2000), "Building Customer Relationships: Do Discount Cards Work?" *Managing Service Quality*, 10 (6), 347-355.
- Mittal, V & Wagner Kamakura (2001), "Satisfaction, Repurchase Intent, and Repurchase Behavior: Investigating the Moderating Effects of Customer Characteristics," *Journal of Marketing Research*, 38 (February), 131–42.
- Mittal, V., P. Kumar & M. Tsiros (1999), "Attributelevel Performance, Satisfaction and Behavioral Intentions over Time: A Consumption-System Approach," *Journal of Marketing*, 63(2) 88-101.
- Mittal, V., W. T. Ross & P. M. Baldasare (1998), "The Asymmetric Impact of Negative and Positive Attribute-Level Performance on Overall Satisfaction and Repurchase Intentions," *Journal of Marketing*, 62 (January), 33-47.
- Murray, D. & G. Howat (2002), "The Relationships among Service Quality, Value, Satisfaction, and Future Intentions of Customers at an Australian Sports and Leisure Center," *Sport Management Review*, 5, 25–43.
- Noordhoff, C., P. Pauwels & G. Odekerken-Schröder (2004), "The Effect of Customer Card Programs: A Comparative Study in Singapore and the Netherlands," *International Journal of Service Industry Management*, 15 (4), 351-364.
- Oliver, R. (1980), "A Cognitive Model of the Antecedents and Consequences of Satisfaction Decisions," *Journal of Marketing Research*, 17(4), 460-469.
- Oliver, R. (1997), Satisfaction: A Behavioral Perspective on the Consumer, New York, NY: McGraw-Hill.
- Oliver, Richard, Roland Rust & S. Varki (1997), "Customer Delight: Foundations, Findings and Managerial Insight," *Journal of Retailing*, 73(3), 311-336.
- Oliver, R. L. (1999), "Whence Consumer Loyalty?" *Journal of Marketing*, 63 (special Issue), 33-44.

- Parasuraman, A., V. A. Zeithaml and L. L. Berry (1988), "SERVQUAL: a multiple-item scale for measuring consumer perceptions of service quality," *Journal* of *Retailing*, 64 (Spring), 12-40.
- Pritchard, M. P., M. E. Havitz & D. R. Howard (1999), "Analyzing the Commitment-Loyalty Link in Service Contexts," *Journal of the Academy of Marketing Science*, 27 (3), 333-48.
- Rai, A. K. & M. Srivastava (2012), "Customer Loyalty Attributes: A Perspective," *NMIMS Management Review*, 22 (October – November), 49 – 76.
- Rai, A.K. (2013), Customer Relationship Management: Concepts & Cases, New Delhi: PHI Learning.
- Reichheld, F. F. (1996), "Learning From Customer Defections," *Harvard Business Review*, (March-April), 56-69.
- Reichheld, F.F. & W. E. Sasser, Jr. (1990), "Zero defections. Quality comes to services," *Harvard Business Review*, 68(5), 105-111.
- Rosenberg, L. and J. A. Czepiel (1984), "A Marketing Approach to Customer Retention," *Journal of Consumer Marketing*, 1, 45–51.
- Rundle-Thiele, S. & M. M. Mackay (2001), "Assessing the performance of brand loyalty measures," *Journal of Services Marketing*, 15 (7), 529-46.
- Santouridis, I., P. Trivellas & P. Reklitis (2009), "Internet service quality and customer satisfaction: examining internet banking in Greece," *Total Quality Management and Business Excellence*, 20 (2), 223-39.
- Sherden, W. (1987, "The erosion of service quality," Best's Review, 88 (5), 22.
- Siddiqui, M. H. & T. G. Sharma (2010), "Measuring the Customer Perceived Service Quality for Life Insurance Services: An Empirical Investigation," *International Business Research*, 3 (3), 171-186.
- Slattery, T. (1989), "Special report: Nichols: we've forgotten the consumer," *National Underwriter*, 48 (November), 11.
- Sobel, Michael E. (1982), "Asymptotic Confidence Intervals for Indirect Effects in Structural Equation Models in Sociological Methodology," ed. S. Leinhardt, San Francisco, CA: Jossey-Bass.
- Solomon, M. (2002), Consumer Behaviour. A European Perspective /M. Solomon, G. Bamossy, S. Askegaard, Prentice Hall, p.126-153.
- Solomon, M.R., C. Surprenant, J. A. Czepiel & E. G. Gutman (1985), "A role theory perspective on dyadic interactions: the service encounter," *Journal* of Marketing, 49 (Winter), 99-111.
- Swan, J. and L. Combs (1976), "Product performance and consumer satisfaction: a new concept," *Journal* of Marketing, 40 (7), 25–33.
- Takeuchi, H. & J. A. Quelch (1983), "Quality is more than making a good product," *Harvard Business Review*, July/August, 139-145.

- Toran, D. (1993), "Quality service (quality everything!)," *LIMRA'S Market Facts*, 12 (2), 10-11.
- Tsoukatos, E. & G. K. Rand (2006), "Path Analysis of Perceived Service Quality, Satisfaction and Loyalty in Greek Insurance," *Managing Service Quality*, 16 (5), 501 – 519.
- Walker, J. & J. Baker (2000), "An exploratory study of a multi-expectation framework for services," *Journal of Services Marketing*, 14 (5), 411-431.
- Wong, A. & A. Sohal (2003), "Service quality and customer loyalty perspectives on two levels of retail relationships," *Journal of Services Marketing*, 17 (5), 495 – 513.
- Woodruff, R. B., Ernest R. Cadotte and Roger L. Jenkins. (1983), "Modeling Consumer Satisfaction Processes Using Experience-Based Norms," *Journal of Marketing Research*, 20 (August), 296-304.
- World Insurance Report 2007 by Capegemini retrieved fromhttp://www.financialtechmag.com/_docum/112_Documento.pdf on 20 February, 2013.
 Wi Newicz (1000) "A Critical Devices of Communication o
- Yi, Youjae (1990), "A Critical Review of Consumer Satisfaction," in *Review of Marketing*, Ed. Valarie
 A. Zeithaml, Chicago: American Marketing Association, 68-123.

- Yu, Y & A. Dean (2001), "The contribution of emotional satisfaction to consumer loyalty," *International Journal of Service Industry Management*, 12 (3), 234 – 250.
- Zeithaml, V.A., L.L. Berry & A. Parasuraman (1996), "The behavioral consequences of service quality," *Journal of Marketing*, 60 (April), 31-46.
- Zhao, X., J. G. Lynch & Q. Chen (2010), "Reconsidering Baron and Kenny: Myths and Truths about Mediation Analysis," *The Journal of Consumer Research*, 37 (2), 197-206

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APPENDIX A

MEASUREMENT ITEMS

- 1. The company provides sufficient range of life insurance products (children plans, joint life plan, pension plans, and special plan for women with different benefits options).
- 2. The company's cost of policy is reasonable.
- 3. The company's service delivery process is highly standardized and simple.
- 4. The company has technological capability and innovative processes to meet your expectations.
- 5. The company shows willingness to help and is always ready to respond to request.
- 6. The company's branch location is convenient.
- 7. The ambience of the company's branch premises gives positive impression.
- 8. The company does ensure confidentiality of its clients.
- 9. The company provides timely and trustworthy information.
- 10. Company will point out the best alternative for you at any time.
- 11. The company gives appropriate advice (related to investments /tax benefits etc.) at critical times.
- 12. Services of the company are reliable and dependable.
- 13. The company is concerned with the customers.
- 14. The company is honest to you.
- 15. The company can be trusted in what it says and does.
- 16. The company is firmly established and stable.
- 17. The company deserves your repeat purchasing as well as recommendations.
- 18. The company never fails to fulfil your expectations.
- 19. The company has never disappointed you so far.
- 20. The company appoints well-trained agents.
- 21. The agents are able to instil confidence through their behaviour.
- 22. The agents are knowledgeable and competent enough to answer specific queries and requests.
- 23. The agents' approach is empathetic and reassuring.
- 24. The agents have professional appearance.
- 25. You feel that your decision to choose this company for life insurance solutions was wise.
- 26. You are contented with your decision of choosing your present life insurance provider.
- 27. Overall, you are satisfied with your life insurance provider.
- 28. You feel a strong sense of belongingness to the company.
- 29. You stay with company because you are happy to be their customer.
- 30. Company has a great deal of personal meaning to you.
- 31. You stay with the company because it would be too costly to leave it.
- 32. You stay with the company because it provides greater benefits in comparison of other available options.
- 33. You are not sure that the policy charges of a new life insurance provider will be better for you.
- 34. You should compare all life insurance providers in order to switch to a new company.
- 35. Comparing the life insurance providers with one another takes a lot of energy, efforts and time even if all the information is available.