

SEM Approach to Teen Influence in Family Decision Making

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ABSTRACT

The primary purpose of this paper is to provide an empirical design on teen influence and its predictors in the context of family decision making. Structure equation modeling (SEM) is employed to test the proposed conceptual model on teen influence and its predictors. The SEM approach also provides for the construct validity of the key measures. Results indicate that teenage children in urban Indian households significantly influence purchase-related decisions in the family. The findings from the empirical data suggest that peers, shopping and the Internet are significant predictors of teen influence in family purchases, although the media's role is marginalized (as a predictor) to the influence that teenagers have in family decision making. This study is significant, as great scholastic interest is placed on such contemporary research, which aims to discern the role of a variety of factors that impact teen influence in the family. This study also addresses the problem of construct validity of key measures, which has been somewhat overlooked in the past research.

Keywords: Indian Teenagers, Family Decision Making, Teen Influence, Consumer Socialization, SEM, Internet, Peers, Media and Shopping

INTRODUCTION

Wordsworth's immortal line "the child is the father of man" assumes new meaning in today's consumption-driven society, where the younger family members seem to influence, if not dominate, their elders. Children's influence in family decision making (FDM) is increasingly recognized and acknowledged by marketers,

academicians and researchers alike to such an extent that, over the years, marketers - especially those dealing with children - added another P to the list of the traditional 4 P's: "pester power", the ability of children to influence parents into buying decisions (Sethi, 2011). In the last two decades, a lot of headway has been made on exploring and understanding the factors surrounding the child's role in family purchase decisions. However, the existing body of research suffers from some limitations, which lay the grounds for the present research work. Primarily, much of the past research is dated and is less inclusive i.e. concentrated on Western nations. For example, virtually no such research has included Indian families and children. Additionally, past theoretical frameworks in this area, such as consumer socialization, need to be updated amidst a contemporary lifestyle and changes in society at large. But, the most basic problem plaguing this area is the weak construct validity of a key measure – child influence. Without doubt, the onus lies on contemporary research to address this problem. This research takes a step toward resolving the problem. The objectives of this paper are threefold: (1) to provide a conceptual framework on teen influence and its association with traditional and contemporary socialization agents; (2) to provide the design, measurement and validation of the key constructs; and (3) to test empirically the conceptual model via SEM analysis. Teenage children were specifically included, because, first, they are expected to have gained cognitive abilities and some competence as consumers (Ekstrom, 1995). Further, due to the spending power controlled by the teenage demographic, this group is usually a trendsetter in terms of consumption patterns (Martin and Bush, 2000). In the sections that follow, first, the background for the study and research settings are described. This is followed by a discussion of teen influence and its association with socialization agents. Next, the empirical research design is presented. We conclude with a discussion of the findings and the implications of the study's results.

BACKGROUND FOR THE STUDY AND RESEARCH SETTINGS

According to the American Marketing Association, the youthfulness of many other countries – especially in Asia – far outstrips that of the US, where only 21% of the total population is aged 14 or younger, in contrast to India where 35% of the population is 14 or under (Stock and Tupot, 2006). With about 115.3 million teenagers, India has the largest teenage population in the world. In a decade, they will represent the largest percentage of the population in India (NRIFinanceGuide.com, 2008). Children are also the main focus of Indian families, and the aspirations of the children in terms of education and career choices are quite high today. The average

family size in India has been on a decline, currently almost 4.3 people per family as compared to earlier years, when it was more than 5. With the reduction in their average size and the increase in their incomes, Indian families have more money to spend. Since children are the main focus, parents try their best to fulfill their children's aspirations. Consequently, the children get more attention and have greater participation in the decision making process. Experts peg the market for products and services in which children play the role of an influencer at an astounding \$100 billion (Rs 450,000 crore) (Sethi, 2011). Evidently, children's consumer behavior and their influence in family purchase and consumption decisions in India merits rigorous research attention.

Academic research on Indian families and children, however, is conspicuously absent. The only exceptions are Singh and Kaur (2004) on purchase subdecisions; Hundal (2001) on rural buying behavior; and Kapoor (2001) on family members' influence across decision making stages. According to Webster (1994), India offers an interesting and diverse culture vastly different from the West in various social variables, thus meriting further research. Ruth and Commuri (1998) made a similar observation: "India is an apt environment for contemporary research because of the rapid socio-economic changes that have taken place in the last ten years". Indian markets hold much promise and are evolving rapidly. India ranks third in terms of commercial attractiveness in a Global Retail Development Index of thirty emerging countries (Kearney, 2010), and its retail market is expected to reach \$US81.46bn by 2020 at a compounded annual growth rate of more than 25 percent (Technopak Advisors, 2010). Indian consumers, too, across different strata and market segments, exhibit a behavior change in spending and consumption. As the family consumption patterns change, the family decision making is likewise going through a metamorphosis. Amongst several economic and social influences fuelling this metamorphosis, a visible and dominant factor is the increasing influence of children in family decision making. Changes in societal norms and traditions, a rise in connectivity, media invasion etc. directly impact children, thereby making them more knowledgeable and shopping savvy. Undeniably, academic research is required to understand better the consumer behavior of this large and important segment and to discern accurately the effects of contemporary changes on Indian children and families.

TEEN INFLUENCE AND ITS ASSOCIATION WITH SOCIALIZATION AGENTS

Influence usually indicates that an individual's wishes are acted upon by someone else. Loudon and Bitta (1988) defined influence as "the effect or a change in a person's attitude or behavior as a result of communication with others". This is similar to Wilke's (1986) definition "that a consumer's decision process has somehow been affected by outside forces". Ekstrom (1995) applied the following definition in the context of the parent-child dyad: "a change in a person's dispositions as a result of interaction between parents and children". Ekstrom further stated that "different influence processes are believed to occur when parents and children interact and result in either influence or no influence". No influence implies that the influence process has resulted in a person not being influenced. It could be defined as no change in a person's dispositions as a result of interaction between parents and children. Wimalsari (2004) used the terms influence and persuasion in their study. Wimalsari contends that influence occurs any time a source (children) attempts to change a receiver's (parents) thoughts, feelings or behavior. Inducing a change in behavior is called compliance, and inducing a change in attitude is called persuasion. Persuasion is a special case of influence, whereby the source deliberately uses communication to try to change a target's attitude. It is evident, therefore, that influence has been looked at as a construct consisting of different dimensions, such as, for example, *decision dominance* (Belch *et al.*, 1985); *exercise of social power* (Kim *et al.*, 1990) and *reference* (Childers and Rao, 1992). In spite of the fact that 'child influence' in FDM has been a key construct across a number of studies (some of which are mentioned above), it remains an ill designed construct. The chief problem with the past empirical studies referred to above is that they measured the child's influence contextual to certain products or services, rather than in a generic manner. Although these studies provide a broad spectrum for understanding children's influence in family decision making, use of a particular product or service as a contextual reference in the empirical design of the measure - *child influence* - has its own limitations. Such variables as child and/or parental interest in the product, socio-economic conditions of the family, pocket allowance of children, etc., may indirectly affect and may distort results, unless these factors are controlled in the research model and/or statistical analysis.

As highlighted in the introduction, most studies have failed to define "influence" conceptually. A pertinent remark to this effect is by Ekstrom (1995): "Future research needs to further consider the many different meanings influence may involve; and

explicitly define what is meant by influence. It will increase construct validity and hopefully eliminate the potential risk that the researcher and the respondents assign different meanings to the construct”.

The authors in an earlier endeavor (Kaur and Medury, 2011a) made initial progress in this direction. In their earlier research, the authors undertook to examine the impact of familial characteristics on the influence of a teenage child, and the generic measure for *child influence* was first conceptualized. Using a step by step approach, the researchers initially conducted a semi-structured interview with eight families with teenage children with the aim to conceptualize correctly the construct of each child’s influence in family decision making. Interviews were conducted with the parent-child dyad, and eventually an amalgamation of parent’s and children’s views resulted in the formulation of an initial multi-item scale, which encompassed four aspects of the child’s influence on family decision-making: (1) parent’s act of seeking information about products from the child; (2) co-shopping; (3) consideration of the child’s request in case of conflict; and (4) participation of the child in general decision-making factors. The research instrument was designed, and a pilot study was conducted with 44 parent–child dyads randomly selected from the city of Delhi, India. Reliability analysis and exploratory factor analysis on the pilot and subsequently on the final data laid the way for the development of a 13-item purified scale, which was eventually used in the final study (see appendix 1). In this paper, the authors wish to extend this research further. The measure, which we call “teen influence”, is further subjected to confirmatory factor analysis to achieve its complete validation. Furthermore, it serves as the criterion variable in the SEM model proposed in this paper in a later section.

Major Influences on Consumer Socialization

The consumer socialization of children, i.e. how children develop consumer skills, was a significant area of study that emerged from family consumption behavior around the 1980’s. Marketing literature describes socialization as the process of learning consumer-related skills, knowledge and attitudes. Bush and Simons (1981) describe socialization as "the ways in which individuals learn skills, knowledge, values, motives and roles appropriate to their position in a group or a society”. Extant literature has over the years clearly established the role of mass media, namely television, parents and peers, as prime influences on socialization (Roedder, 1999; Chavda et al., 2005). However, today, our societies, in the West and the East, are witnessing several changes, such as imparting a liberal upbringing to our children

coupled with high media invasion and other hi-tech digitalized communication platforms. A variety of influences and experiences shape the consumer habits of the young consumer all over the world. For instance, children today spend more time in commercial settings than ever, such as shopping in stores, and are surrounded by commercial messages in a variety of forms (Wechsler, 1997). Yet, little is known about the effects of these activities on their consumer knowledge and skills. In addition, teenagers spend more time online than adults and surpass all other age groups in their use of chat, instant messaging and other new forms of electronic communication (Montgomery, 2000). As has been pointed by Lee et al. (2003), the increasing use of the Internet as a communication tool makes it a potentially strong agent of socialization. Therefore, it is highly imperative to link the present-day lifestyle and societal changes with the socialization process to further the theoretical concepts.

In our earlier research, a conceptual and empirical framework was provided that established shopping and the Internet as contemporary socialization agents (Kaur and Medury, 2010, 2011b). Based on the review of past literature and personal interaction with teenage children, constructs for measuring the influence of socialization agents (media, peers, shopping and the Internet) on teenage children were conceptualized on three major aspects: (1) the propensity to like and engage with the medium; (2) the ability to perceive information about products for self use, family use and adult use from the medium; and (3) the ability to disseminate product information learnt from the medium. Based on these aspects, a pool of items was formulated to measure these constructs. A four point Likert scale was considered to measure the scale items (see appendix 2). In this research, these measures are subjected to confirmatory factor analysis to provide for their construct validity, and they act as predictor variables in the SEM model.

This study applied the consumer socialization perspective to explore the traditional and contemporary socialization influences on teenagers and the subsequent outcome on teen influence in family decision making. In our research framework, we propose that the role of these socialization agents is not restricted to developing consumer competence and skills in teenagers but transcends to impact the level of influence that the teenager wields in the family purchase decisions. Media influence, peer influence, shopping influence and Internet influence act as predictors to teen influence in the family purchases (see figure 1). This is a first, as no previous study has comprehensively examined the role of these socialization agents on teen influence. It makes the study significant, as great scholastic interest is placed on such

contemporary research, which aims to discern the role of a variety of factors that impact teen influence in the family. In the sections that follow, the research methodology and the model results are presented and the conclusions are discussed.

RESEARCH METHODOLOGY

Data Sample

A structured two part questionnaire, one for teenager's use and the other for parent's use, was used in data collection. Pre-test statements designed on a Likert scale to measure the influence of socialization agents were a part of each teenager's questionnaire and statements assessing their influence on FDM were a part of each parent's questionnaire. The questionnaire also included descriptive measures, including age, gender, monthly pocket allowances, household income, parents' occupation, etc. Based on convenience sampling, the instrument was administered to students in the ninth to twelfth grades at several schools located in Delhi, the capital of India. The first author conducted the administration of the child's part of the questionnaire in the school premises. The second part of the questionnaire to be filled by any one parent was sent home with the child with the request to bring it back in three days. A usable sample of 346 was obtained therefrom, which consisted of 178 female and 168 male adolescents. The children's ages ranged from 13 to 17 years, with the mean age being 14.87 years. The mean age of the parents was 42.64 years. The distribution of the household income per annum was as follows: 30.6 per cent in the income category of up to five lacs; 51.4 per cent between five lacs and 10 lacs; and 17.9 per cent were in the income category of more than 10 lacs per annum. None of the children had a working status as is the trend in school-going children in India. However, they received a regular pocket allowance, with 62.4 percent receiving an amount less than Rupees 1000; 35.3 per cent between Rupees 1000 and Rupees 2000; and 2.3 per cent receiving an amount of more than 2000 per month. All of the teenagers had Internet access at home and/or at school.

SEM Approach

Structural equation modeling (SEM) has been described as a combination of exploratory factor analysis and multiple regression (Ullman, 2001). SEM is an attempt to model causal relations between variables by including all variables that are known to have some involvement in the process of interest. Among SEM's strengths is its ability to construct latent variables, which are not measured directly, but are estimated

in the model from several measured variables, each of which is predicted to “tap into” the latent variables. This allows the modeler to capture explicitly the unreliability of measurement in the model, which in theory allows the structural relations between latent variables to be accurately estimated. According to Schreiber et al. (2006), “SEM, in comparison with CFA, extends the possibility of relationships among the latent variables and encompasses two components: (a) a measurement model (essentially the CFA) and (b) a structural model. In addition to the new terms, measurement and structural, two other terms are associated with SEM: exogenous, similar to independent variables, and endogenous, similar to dependent or outcome variables. Exogenous and endogenous variables can be observed or unobserved, depending on the model being tested. Within the context of structural modeling, exogenous variables represent those constructs that exert an influence on other constructs under study and are not influenced by other factors in the quantitative model. Those constructs identified as endogenous are affected by exogenous and other endogenous variables in the model (p. 325).” In light of this discussion, the use of SEM is best suited to measure and model the major influences on consumer socialization and the impact of teen influence on FDM.

MODEL DEVELOPMENT AND HYPOTHESIS

This research examined the direct associations of media influence, peer influence, shopping influence, and Internet influence with teen influence in FDM. The conceptual model that guided this research is shown in figure 1. The observed variables are shown in rectangles, while the unobserved latent variable constructs are shown in ellipses. We show the measurement component using thin lines and the structural component using bold lines. The directions of the arrow represent the hypothesized influence. The four hypotheses are as follows:

H1 Media influence is positively associated with teen influence on FDM

H2 Peer influence is positively associated with teen influence on FDM

H3 Shopping influence is positively associated with teen influence on FDM

H4 Internet influence is positively associated with teen influence on FDM

MODEL RESULTS AND DISCUSSION

The model assessment in SEM analysis involves two aspects – measurement model and structural model. It is suggested that the measurement model be assessed before the structural model is estimated (Anderson and Gerbing, 1988). The measurement model was assessed through exploratory factor analysis (EFA) and

then by confirmatory factor analysis (CFA). EFA extracted four factors (representing each socialization agent) using principal components analysis with varimax rotation. All items intended to measure each concept cleanly loaded on their respective hypothesized structures (see appendix 2). To test the reliability of the instrument used in the final study, the coefficient alpha values were computed. At 0.89, 0.91, 0.90 and 0.90 for media influence, peer influence, shopping influence and Internet influence respectively, the values well exceed the 0.70 threshold and are therefore acceptable (Nunnally, 1978). In the second step, the measurement model data was subjected to CFA. The AMOS module of the SPSS software package was utilized to estimate the SEM in this study with estimations based on the maximum likelihood method. The results from table 2 indicate that all items have significant loadings on the latent constructs, thus confirming the construct validity (Bagozzi and Yi, 1988). All parameter estimates appear to be reasonable and statistically significant; all standard errors also appear to be in good order. Hence, it can be inferred that latent variable constructs are valid in the specific empirical setting shown in figure 1.

Table 3 provides the parameter estimates for the structural model. The path coefficients are statistically significant for peer, Internet and shopping influence; hence hypotheses H2, H3 and H4 are strongly supported by the empirical data. The most unexpected finding is the lack of the impact of media influence on teenager's generic influence and that, therefore, H1 does not find support. The reasons can only be speculated. Possibly, teenage children develop skepticism about the commercial intent via media and are more susceptible to personal sources of information, such as peers or their social networks (Internet) or their own first hand experiences via shopping expeditions. Therefore, even if they have sufficient engagement with the media and tend to acquire and disseminate product related knowledge, it may not be disseminated with the same conviction as they do for other sources. Secondly, since the primary leisure activity of Indian adults is also television, co-viewing (or viewing common content) quashes the effect of teenagers' media influence, as parents may also value or may be more convinced by novel information/conviction than the teenagers develop via different mediums (peers, shopping and Internet). To a certain extent, this argument is supported by the fact that Internet influence, though lower than media in measurement, has more potency to influence the teenagers' role in family decision making.

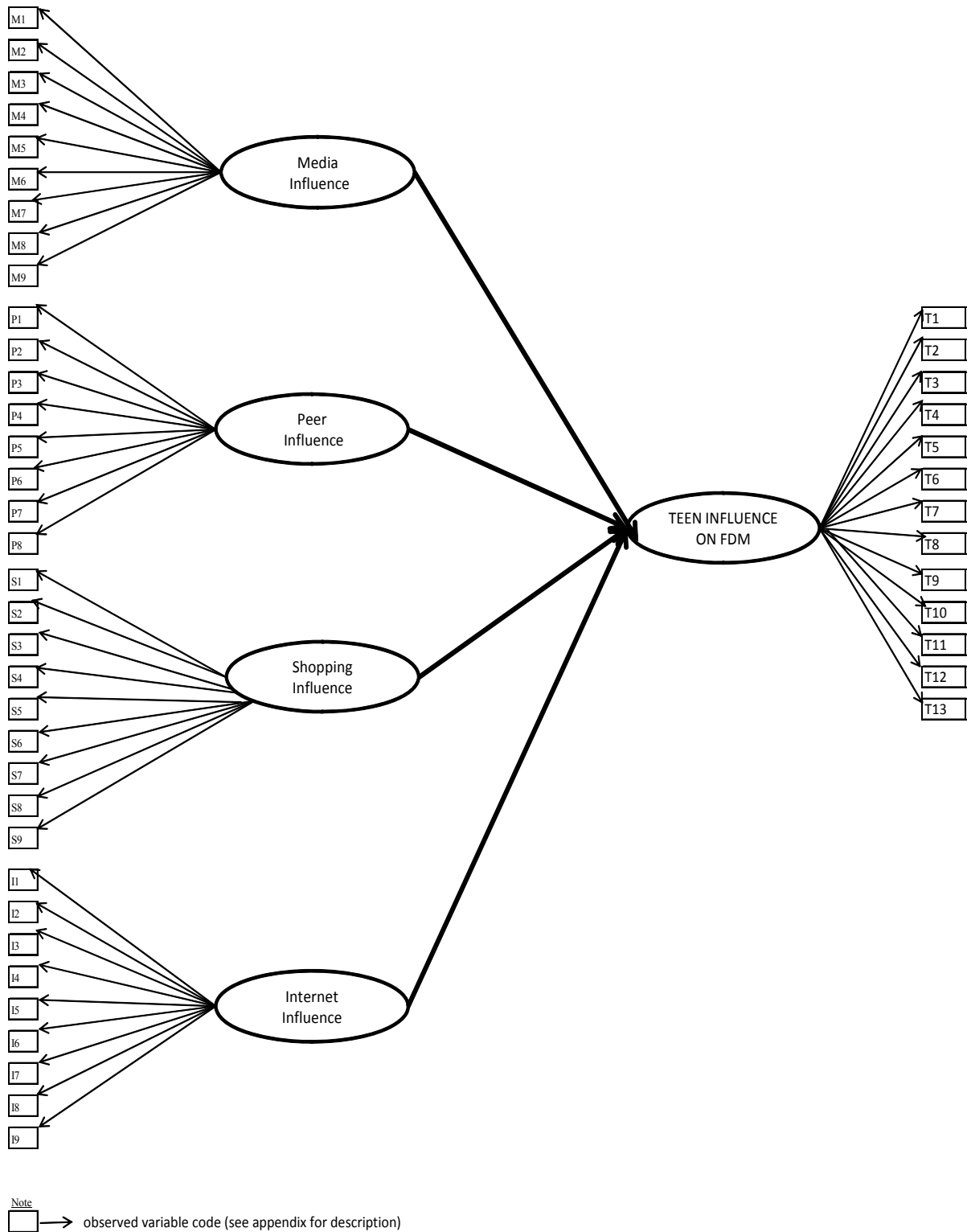


Figure 1 Specification of SEM for Teen Influence in FDM

In light of the lack of empirical support for media impact on teen influence, the SEM model was re-specified as model 2 (exogenous variable media influence deleted). The re-specification of the model led to better model fit results as can be seen from table 3. The path coefficients too are positive and statistically significant suggesting that socialization agents like peer, shopping and Internet impact the teen influence in family decision making. The impact of the Internet (coefficient 0.593) is most significant in characterizing teen influence in the family purchases followed by peers and shopping (coefficient 0.548 and 0.446 respectively).

Table1 Correlation Matrix of Major Constructs' Summated Scores

No.	Major Constructs	Mean	SD	1	2	3	4	5
1	Media influence (MI)	2.33	0.66	1.00				
2	Peer Influence (PI)	3.01	0.62	.689**	1.00			
3	Shopping Influence (SI)	2.81	0.69	.689**	.425**	1.00		
4	Internet Influence (II)	2.11	0.62	.415**	.384**	.276**	1.00	
5	Teen Influence on FDM	2.83	0.76	.494**	.651**	.572**	.602**	1.00

Notes: **Correlation is significant at the 0.01 level (two-tailed)

* Correlation is significant at the 0.05 level (two-tailed)

Table 2 Parameter Estimates of Measurement Model
(Relation of Indicator Variables to Latent Variables)

Latent Variables	Factor Loadings	Standard error	p-value	Path coefficients	AVE	Convergent validity	SIC	Discriminant validity
MI	M1	1.911	.165	*	.840	.584	yes	.213
	M2	1.651	.141	*	.851			
	M3	0.885	.105	*	.529			
	M4	1.279	.137	*	.606			
	M5	1.665	.148	*	.801			
	M6	0.751	.009	*	.464			
	M7	1.665	.119	*	.646			
	M8	1.575	.144	*	.766			
	M9	1.000	/	/	.585			
PI	P1	1.290	.090	*	.862	.567	yes	.268
	P2	0.986	.083	*	.691			
	P3	1.313	.094	*	.832			
	P4	1.492	.101	*	.891			
	P5	1.107	.086	*	.771			
	P6	0.806	.086	*	.541			
	P7	1.198	.096	*	.728			
	P8	1.061	.096	*	.642			
	P9	1.000	/	/	.670			

Table 2 **Parameter Estimates of Measurement Model (continued)**
(Relation of Indicator Variables to Latent Variables)

Latent Variables	Factor Loadings	Standard error	p-value	Path coefficients	AVE	Convergent validity	SIC	Discriminant validity	
SI	S1	0.979	.070	*	.710	.605	yes	.090	yes
	S2	0.985	.057	*	.820				
	S3	1.045	.076	*	.708				
	S4	0.862	.060	*	.727				
	S5	1.008	.063	*	.784				
	S6	1.064	.071	*	.738				
	S7	0.897	.068	*	.683				
	S8	1.000	/	/	.786				
II	I1	1.000	/	/	.725	.589	yes	.090	yes
	I2	0.902	0.069	*	.721				
	I3	1.066	0.081	*	.725				
	I4	0.968	0.082	*	.658				
	I5	0.904	0.072	*	.706				
	I6	0.703	0.066	*	.590				
	I7	1.333	0.09	*	.812				
	I8	0.98	0.079	*	.696				
	I9	0.987	0.076	*	.724				
Teen Infl	T1	1.007	0.057	*	.764	.784	yes	.172	yes
	T2	0.757	0.051	*	.676				
	T3	0.956	0.061	*	.707				
	T4	1.091	0.056	*	.804				
	T5	0.666	0.064	*	.523				
	T6	0.746	0.057	*	.626				
	T7	0.913	0.049	*	.783				
	T8	0.653	0.043	*	.691				
	T9	0.763	0.063	*	.587				
	T10	0.943	0.071	*	.638				
	T11	0.726	0.063	*	.568				
	T12	0.725	0.061	*	.578				
	T13	1.000	/	/	.878				

Notes:(/) = Indicates the initial parameter was set to 1.0 for model estimation purposes;
 Abbreviations: AVE = average variance extracted (AVE > 0.50 = Convergent validity).
 SIC = squared interconstruct correlation estimates. Discriminant validity = AVE > SIC

Table 3 Path Coefficients and Fit Indices

Path	Hypothesis	Model 1		Model 2	
		Standardized coefficients	t-value	Standardized coefficients	t-value
Media influence → Teen Influence	H1	-.052	-.840		
Peer influence → Teen Influence	H2	.321	.076**	.548	7.446**
Shopping Influence → Teen Influence	H3	.403	.088**	.446	7.983**
Internet influence → Teen Influence	H4	.438	9.268**	.593	9.480**
Model Fit indices					
1) X^2		5077.278		2134.734	
2) Degree of freedom (df)		1117		734	
3) <i>P</i> -value		.000		.000	
Good fit					
4) X^2 / df	$0 \leq (X^2 / df) \leq 2$	4.54		2.90	
5) NFI	$\geq .95$	.82		.942	
6) CFI	$\geq .95$	.86		.967	
7) GFI	$\geq .95$	.79		.971	
8) AGFI	$\geq .95$	.84		.949	
9) RMSEA	$< .06$	.08		.04	

Notes: * $p < 0.01$; ** $p < 0.05$

CONCLUSIONS

This study focuses on a “teen influence” construct in family decision making and its predictors. The traditional socialization agents, such as media, peers and such contemporary agents as shopping and the Internet, were hypothesized as predictors of teen influence in family decision making. The findings from the empirical data suggest that peer, shopping and the Internet are significant predictors of teen influence in family purchases. It can be concluded that a teenager’s engagement with these mediums and the consumption of information acquired and disseminated from these mediums lead to a greater degree of influence in family decision making.

In terms of the methodology used, the study breaks fresh ground. The use of the SEM approach provided for the construct validity of the key constructs namely, media influence, peers influence, shopping influence and Internet influence. All four scales are developed on common dimensions, so that they may be employed in isolation or in

a comparative manner to wield results of significance by future researchers. In addition to these measures, the construct validity of the generic measure of teen influence (not specific to any product or product category) of children in family decisions is established. To a certain extent, this answers the call from the extant literature vis a vis the construct validity of the measures in the research pertaining to child influence in the FDM.

The findings of the study are contemporary in nature and facilitate better insights. For instance, the study found that, although media influence is larger than the Internet in quantum (mean value 2.33 versus 2.11 respectively), its role is marginalized as a predictor when compared to the influence that teenagers have in family decision making. Obviously, this requires more investigation. Academic research needs to be initiated to uncover the effects of co-viewing, skepticism to commercial intent and other reasons for the possible marginalization of the role of media amidst contemporary influences like the Internet. Thereafter, acknowledging the influence of commercial set ups (shopping) and the Internet on children, marketing strategies can integrate these media to reach out to this influential segment, which globally boasts more than \$592 billion in personal purchase power. For example, in commercial set ups, store design and layout, training of frontline staff, product display, and recreation facilities, etc. may require considerable attention. Also, in recognition of the fact that teenagers have a greater online presence than adults and may be actively disseminating Internet acquired consumer knowledge within the household, web marketing communications may now require a realignment to suit the comprehension and the maturity level of this group. The Internet can prove to be a great channel for marketers to create a buzz through newsgroups, chat rooms and blogs about products ranging from clothes to music.

In addition, traditional media of consumer socialization, such as peers and media, still hold significance, although the role of media has to be revisited. Though the teenagers have sufficient engagement with media and tend to acquire and disseminate consumer information in the household, these factors do not necessarily culminate in a larger role in family decision making. Therefore, media communication needs more ingenuity and novelty in design. On the other hand, peers still exert considerable influence on the consumer behavior of the teenagers. In view of the fact that teenagers not only highly value peer relationships but tend to acquire and disseminate much product information from their peers, so much so that it acts as a significant predictor of their own influence in the households; marketers may manipulate peer group influences in their promotional appeals and in encouraging product selection.

Fundamentally, for the marketers, the results demonstrate that teenage children can no longer be treated as passive beneficiaries of family purchase decisions. Rather, their role needs to be acknowledged and understood to formulate marketing offerings productively for target markets. This is in line with what was so far notionally known - that “pester power” has just become savvier, smarter, and more informed. Rather than nagging their parents to unleash their rising disposable incomes at random and flashy products and services that catch their eye, more and more of India's close to 400 million children below the age of 15 are becoming connoisseurs and specialists that their parents rely on (Sethi, 2011).

This study is meaningful but does have some limitations. The specified SEM model is not completely exhaustive. Such factors of relevance as socio-economic characteristics of teenager and parents were not included in the model. Additionally, the study sample was restricted to one geographical location, Delhi (and adjoining areas). Although Delhi is widely acknowledged as having a rich cultural milieu with a strong presence of immigrant population, future studies may include a broader geographical landscape to increase the generalizability of the patterns obtained here. Also, the study concentrated only on urban families, as it was necessary to limit the study somewhat. Rural consumption behavior may be altogether different. In spite of the limitations, given the limited research attention on children’s influence on decision making, especially outside of the US and other Western nations, it is expected that this study will provide meaningful insight on the role of teenagers in family purchase decisions.

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APPENDIX

Appendix 1 Questionnaire for Parent for The Measure Perceived Influence with Mean, Standard Deviations and Factor Loadings

As parents,		Mean	S.D	Factor 1
T1	We seek information (from the child) for products of child's use	3.02	1.13	0.84
T2	We seek information (from the child) for products of household use	2.75	0.96	0.69
T3	We seek information (from the child) for products of our use	2.51	1.16	0.68
T4	We like to take our child along while shopping for products of child's use	3.24	1.16	0.76
T5	We like to take our child along while shopping for products of household use	3.01	1.09	0.38
T6	We like to take our child along while shopping for products of our use	2.54	1.02	0.70
T7	In case of conflict in choice of product or brand ,we consider the child's request if the product is of child's use	3.01	1.00	0.86
T8	In case of conflict in choice of product or brand , we consider the child's request if the product is of household use	2.65	0.81	0.67
T9	In case of conflict in choice of product or brand , we consider the child's request if the product is of our use	2.42	1.11	0.47
T10	My child is participative in suggesting where we should shop from	2.98	1.27	0.51
T11	My child is participative in suggesting when we should go out shopping	3.02	1.10	0.73
T12	My child is participative in suggesting how much we should spend	2.61	1.07	0.71
T13	The involvement of my child in purchase decisions increasesat the time of festivals and other family occasions	3.10	0.98	0.80
	Perceived Influence of parent on child influence on FDM	2.83	0.76	
	<i>Eigen Value</i>			6.64
	<i>Percentage of Variance explained</i>			51.12

Appendix 2 Questionnaire for Teenager for The Measures: Media influence , Peer
Influence, Shopping Influence and Internet Influence

		Mean	S.D.	Factor1	Factor2	Factor3	Factor4
Media Influence							
M1	I like to watch TV every day	2.31	1.05			0.74	
M2	On holidays I watch more TV than usual	2.64	0.89			0.80	
M3	There are some programs which I do not like to miss	2.56	0.77			0.38	
M4	Watching the commercials is fun	2.13	0.97			0.35	
M5	I come to know about products* from TV which are of my use	2.44	0.96			0.80	
M6	I come to know* about products from TV which are of family use	2.64	0.75			0.37	
M7	I come to know* about products from TV which are of my parent's use	1.77	0.83			0.38	
M8	I often discuss about products that I have seen on TV with my family	2.16	0.95			0.76	
M9	I insist my parents to co view some commercials when we are about to purchase the product	2.57	0.78			0.83	
						0.89	
						3.54	
						9.85	
Peer Influence							
P1	I like to spend with my friends	3.39	0.78	0.84			
P2	I have friends with whom I meet or talk on a daily basis	3.28	0.74	0.76			
P3	My friends opinions matter to me	3.18	0.83	0.83			
P4	There are certain issues which I discuss only with my friends	3.31	0.88	0.86			
P5	I come to know* about products from my friends which are of my use	3.16	0.76	0.73			
P6	I come to know* about products from my friends which are of family use	2.62	0.79	0.46			
P7	I come to know* about products from my friends which are of my parent's use	2.47	0.86	0.78			
P8	I discuss the information about products my friends have told me with my parents	2.75	0.87	0.68			
P9	Sometimes my parents ask to find information about some products from my friends	2.76	0.78	0.72			
				0.91			
				11.54			
				32.05			

Appendix 2 Questionnaire for Teenager for The Measures: Media influence , Peer Influence, Shopping Influence and Internet Influence (continued)

		Mean	S.D.	Factor1	Factor2	Factor3	Factor4
Shopping Influence							
S1	I like to go out shopping	2.83	0.93				0.45
S2	I go to shop at least twice or thrice a month	2.89	0.80				0.78
S3	I have some preferences about where to go to shop	2.88	1.00				0.54
S4	I can interact with the salesperson to know more about products	2.81	0.81				0.39
S5	I come to know* about products of my use from my shopping experiences	2.81	0.87				0.56
S6	I come to know* about products of family use from my shopping experiences	2.73	0.96				0.84
S7	I come to know* about products of my parent's use from my shopping experiences	2.81	0.89				0.38
S8	I share with my parents the information about products I have seen while shopping alone or with friends	2.75	0.85				0.82
	<i>Cronbach alpha</i>						0.90
	<i>Eigen value</i>						1.85
	<i>Percentage of variance explained</i>						5.15
Internet Influence							
I1	I access internet everyday	2.12	0.86		0.72		
I2	On holidays, I spend more time than usual surfing net	2.01	0.77		0.75		
I3	I find using internet more enjoyable than watching TV	2.12	0.90		0.76		
I4	I come to know *about products for my use from internet	2.18	0.92		0.68		
I5	I come to know*about products for family use from internet	2.06	0.81		0.67		
I6	I come to know* about products for my parents use from internet	1.95	0.73		0.66		
I7	I discuss the information about products I have viewed on internet with my parents	2.21	1.01		0.82		
I8	Sometimes I insist my parents to co view the information about the products we are about to purchase	2.13	0.89		0.69		
I9	Sometimes my parents ask me to find information about products on the internet	2.12	0.86		0.74		
	<i>Cronbach alpha</i>				0.90		
	<i>Eigen value</i>				4.36		
	<i>Percentage of variance explained</i>				12.12		

Extraction method : Principal Component Analysis

Rotation method : Varimax with Kaiser Normalization

Factor loadings less than .38 not shown

* (brands, features, prices and availability etc.)