# THE EFFECT OF DIET HABITS, PACKING, AND PRICE BARRIER ARE IMPACT ON ORGANIC FOOD PURCHASE BEHAVIOR

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## ABSTRACT

Consumers purchase environmentally friendly products ''Organic food''. This study is applied in Pakistan a country in which there is concern about safety and quality. The ''SEM'' model is used to support our study. Three independent variables while one dependent variable is taken in that scenario. Data were obtained from 300 respondents, 278 backed us their response. We conclude from the above-mentioned model that the packing factor has much important than that of other variables. This sort of research can conduct in developed countries such as the US, CHINA, CANADA and other geographic areas. Also, green marketing factors can be replaced for future studies. Different independent variables contribute to future research like organic food labeling, lack of knowledge, and availability. We can also use different aspects such as environmental concern, health concern, and food safety concern using them as independent variables we can further use them in new research as a research gap. this research can also be done as longitudinal research.

Keywords: Diet Habits, Packing, Price Barrier, Organic Food.

## **INTRODUCTION**

Over review of the statically figures across the globe elaborates amazing facts that a diet habit or diet consciousness has severed impact on the over windows of a region population (Dube & labban, 2014). E. g if we look at the figure average life span of Norway and Japan .we have figure of 85.5 years and 83.98 years which are quit higher than the average global life span of 71 years .The reasons can be served but a clamp-sum can be summed up that the health values and stance on the diet consumption .if we look at the diet consumption of Japan African countries

.we can assume that there is no concept of diet consciousness in an Africa country due to lack of resources but also lack of proper channelization of awareness and importance .

Similarly, the use of an organic food or dietary fiber are important for health (smith & paladinoa, 2010, 18) and (tanner, 2003) because also maintain a better hormonal and molecular level, but if we look at the consumption level of diet (Tent, food control 1999, 10) and (wang, Shen, & Goa, public Health 2018, 15). A shocking revelation is found that there are severed factors which hinders the consumption level of organic items (Grunert & Juhl, 1995, 16; Rana & Paul, 2017) Awareness, Health consciousness, Lack of proper channelization, Quality standards, Packaging qualities, Pricing issues, Biotechnological lacking.

But we have to focused on only three of the factors which are Diet habits, packaging and pricing. lack of proper awareness to the public about the importance of the organic food in a daily routine, which is the responsibility of the health department and public health firms and also of the producing companies to aware the food (Hughner & McDonagh, Behav. 2007, 6; Magnusson & Arvola, Br. Food J. 2009).

Similarly, the packaging and standard issues dramatically signifies its usage. India has played a very vital role in not only maintaining the quality but also increasing eye catching packing of all its products for local usage or export qualities (casieller & Alvarez, 2005). While in case of organic products there are not taken such efficient steps that are helpful to organic products across the globe, consumer purchase the product by impressing packing services (Aaker, 2010). Information reaction are like packing, shapes, colors, and label are effect consumer respond positively.

The third vital factors of hindrance are the pricing of these products (Islam, 2016; Bryla, 2016; Verhoef, 2005; Mesias & Gaspar Garcia, Br. Food j . 2012, 114) and it can be elaborated best by the example of china. Where nurseries have been made across the whole region with modern technologies to take tackle the seasoning issues of prices and quality organic products can be made available for the consumers across the year (Tanner, 2003) but such steps have only been taken by only few countries not by all.

## Significance

This study assesses to price is device which is used to check consumer behavior and relation towards organic food. Some consumer purchase product by seeing packing of organic food.

## **Research problem**

In it we try to check that to diet habits effect on organic food purchase behavior and to packing effect on consumer purchase behavior. We also check that to price barrier effect on consumer behavior products.

## **Research question**

In it we try to check that How diet habits effect on organic food purchase behavior and How packing effect on consumer purchase behavior. We also check that How price barrier effect on consumer behavior products

# **Diet Habits**

# LITERATURE REVIEWS

For environmentally conscious customer organic product is matter of lifestyle choice (Sriram, 1993) . According to observation of (Davis, Titterington, & cochrane, 1995) only 65% of

consumer go to buy organic products. (Hartman, 1998) research suggests that 48% of public want to purchase healthy and environment friendly products, consumer interest in health care through proper nitration is key factors that can influence consumption choice.

#### Packing

The buying behavior of consumer can be influenced by various packing factors which covers different areas as we mentioned above make unique organic diet from the other. In which package is substantial part. So, there is potential role of package color is influencing customer decision making process. Different mood is associated with different colors. More ever different colors have different meanings for customer. According to Singh (2006) Perception of color change across the culture. According to (charles & Joe, 2011) product packing has four distinct function. It protects the product package color promotes the product. Finally, good product packing can protect the environment from damage. So, product packaging provides something extra them. Just protecting be product of company. Packing is the first thing that consumer see, So, it makes brand image in the mind of customer.

Labeling provide information about the product its category, ingredient's, and instruction regarding usage of products. According to Morris, J (1997) labeling helps to differentiate product more easily. Material of product packing help in protecting product from damage so high-quality material is likely to attract the customer so packing material also influencing buying behavior. (Hollywood, Wells, & Farley, 2013) studied packing of milk. When customer buy a product first thing, he sees is product packing which plays important role to attract customers as well as children

#### **Price barrier**

Price is critical hurdle that present customer to buy organic food (Bryla, 2016 & Verhoef, 2005). Consumer want to pay only for those products that has medium price. (Xie, Wnag, & Zhang, 2015) conduct that 82 % 0f respondents did not buying organic product due to high price. (Van, 2015) suggested that high prices of organic foods have negative impact on consumer perceived values.

A customer enters a shopping mall or a grocery store to buy his needs or necessity of daily life products but in the departure he has been impelled to buy several other products which were not on his priority list but still her had to buy (Von, Olea-jaik, & padilla-Bravo, 2015). Now there are several reasons behind this interaction which are played by the stores or companies (Rana & Paul, 2017 & (Michaelidou & Hassan , 2008). First of the all awareness or advertising and diet habits are viewed to make the customer know the importance the product (Rana, J.; Paul, J). Secondly, the packaging is made so amazing that it attracts the customer to gaze or review it (Keller, 2009) and thirdly, to impel the customer to make this item on his buying list. The price is made very affordable, to make him satisfactory to buy the product (Tanner, C.; Kast, S.W).

This article basically review about the lack of consumption of organic ingredients and product which play a very vital role in our life not only in health but also in physique but statically shows that across each continent the consumption level of such an important influencing product is used in a very minor quantity as compare to other commodities and luxuries. For example, if we compare the usage of soft drinks like cock and lemonades with the organic diet we can conclude that the beverages companies collects billions of dollars in revenue while keeping its disastrous side effect in view while products of organic supplementary are used

or consumed in very small quantities in spite of its dietary and supplementary benefits. The main theme is the factors which are discussed in introduction Para play a significant role while consumption of these products.

Besides develop countries the inhabitance of other countries have a very low literacy about the health consciousness and awareness about the health issue while besides awareness the customer attraction is also one of the baggiest if the customer satisfaction and attraction is not met, the product or item cannot be sold out on that level which it should be.

## **RESEARCH METHODOLOGY**

#### **Research design**

A search of knowledge is basically designed to conduct in different kind of people of Multan to purchase organic food were administered to collect data from people are impacting on organic food purchase behavior. Research design with minimal interference is conduct where survey method is used.

#### Measure/instruments

Questionnaire is basically a medium helping in investigation of collect data. The study instruments were divided into two section. First section is included demographic respondent. The research instruments consist of various questions related to the Diet habits, Packing, Price barrier and Organic food purchase behavior.

## **Population and sampling**

The people in this study we Pakistani citizens aged from teenage-30 and from 30 to less than 40 years including the only people know which purchase organic food. From this study we will come to know about the knowledge to buy the organic food. The sources of data collection were paper based and online survey which are taken from different sources like from stores of the city Multan located in country Pakistan. In which 225 respondents respond on online survey and 53 respondents respond on paper-based survey and 22 respondents did not respond to the request. It took 3 weeks to collect the data. Total respondents were 278 from which we collect our data. The data collected from the respondent was not accurate some of the data was missing, out liar and normality of distribution. Sample size was 300 while only 278 people respond the survey. The male respondent was 180 which are 64% of our sample while the female were 97 which are 34.9% of our sample and one respondent did not give his or her biographic information. The ration of respondents (male and female) is 64:34.9. which is the part of our sample.

The respondents were divided into two categories based on age. First is from teenage to 30 and the other on is from 30 to less than 40. The frequency of the respondents aged from teenaged to thirty were 240 while the other one is from 37 lies in second category of age which is from 30 to less than 40 and missing system was the only one. The percentage of teenage to 30 is 86.3 percentage while the percentage from 30 to less than 40 is 13.3 percentage and the missing system contributed o.4 percentage in the total sample.

The respondents were divided into three categories based on marital status. First one is single, second one is married while the third one is separated. Single responds were 200, married respondents were 70 while the separated were o7. And the missing value was the only one. The percentage of single respondents is 71.9, percentage of married respondents is 25.2 while the percentage of separated respondents are 2.5 and the percentage of missing system is 0.4.

Respondents were divided in to three categories based on monthly income and pocket money. In first category their the respondents having the monthly income of less than 10 k. second category include the people having monthly income of 10 k to 20 k and in the third category the respondents having the monthly income of 21 k and above. The respondents having monthly income of less than 10 k were 178 which are 64 percentage of the sample , respondents having monthly income of 10 k to 20 k are 14 which are 5 percentage of the sample and the respondents having monthly income of 21 k and above are 82 which are 29 percentage of the sample . personal information of the respondents is shown in the table # 1.

## **Research model**

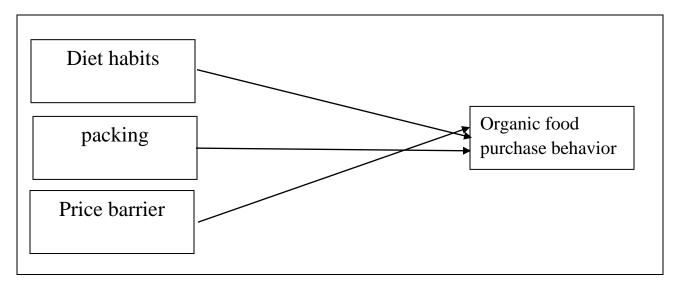


Figure 1: Research framework

# Hypothesis

H<sub>1</sub>: Diet habits has a positive effect on organic food purchase behavior.

H<sub>2</sub>: Packing has a positive effect on organic food purchase behavior.

H<sub>3</sub>: price barrier has a positive effect on organic food purchase behavior.

Personal characteristics	Respondent	%	
GENDER ratio			
Male	180	64.7	
Female	97	34.9	
MISSING SYSTEM	1	0.4	
AGE			
Less than 30	240	86.3	
From 30 to less than 40	37	13.3	
MISSING SYSTEM	1	0.4	
Marital Status			
Single		200	71.9
Married		70	25.2
Separat	ted	7	2.5
MISSI	NG SYSTEM	1	0.4
		Monthly Income/ Poo	cket Money:
Less than 10000	178	64.0	·
10000 - 20000	14	5.0	
21000 and above	82	29.0	
MISSING SYSTEM	3	1.1	

# DATA ANALYSIS

Following the precautionary measure can confirmatory factors analysis (CFA) and reliability analysis and alpha ( $\alpha$ ) valued are measured were worked to asses construct validity and reliability. The confirmatory factors analysis is used to measure the validity of the construct and structure equation modeling (SEM) is tool to construct and measure hypothesis. Remember that organic food purchase behavior was measured by two items which are not acceptable in confirmatory factors analysis. In which SPSS version 21 is used for data analysis.

## Measurement model, construct reliability and validity

To study the measurement model fit, all variables in the research model, except organic food purchase behavior were indicating toward confirmatory factors analysis utilizing maximum similarity estimations. The result of statistics is shown in table # 2.

	Table 2. Items, reliability and convergent validity						
	Variables and items	fls	α	CR	AVE		
-	Diet habits		0.586	3.6927	0.461447		
D1	I usually have the time to eat three times/day	0.802					
D2	I consume small quantities of food frequently during the day	0.664					

at home, due to my daily job0.6980.6980.698D4I generally believe that I follow a balance diet0.6980.5370.657D5Fruits and vegetables are always included in my daily diet.0.5370.6806.7608340.359907Packing0.6606.7608340.3599070.6540.5780.6540.578P1consumer behavior during buying process0.6640.6640.5780.5780.578P2The label of the package is important in decision buying process0.6610.6610.6760.576P3The quality of the packaging on product selection during buying process0.6610.6610.6610.676P4The package design has an impact on product selection during buying process0.6420.5460.546P5The printed information on the package helps the process of buying the process0.5470.5460.547P6The language used on the package has an impact on consumer behavior on buying process0.5400.5400.540P8Innovation and practicality is important in consumer buying process0.5540.5530.38349P9The quality of packaging is related with the price of the product0.7550.5330.38349PB1Organic meat is still too expensive expensive than conventional meat barrier to purchase it0.5230.2384.206210.54197PB3People should buy organic meat, even though they are more expensive than conventional meat	D2	Terreralles and an an dealers the data	0.00			
balance dietooD5Fruits and vegetables are always included in my daily diet.0.537	D3	I usually eat once during the day, at home, due to my daily job	0.669			
included in my daily diet.0.6806.7608340.359907Packing0.6806.7608340.359907The packaging color impacts consumer behavior during buying process0.6540.6800.760834P2The label of the package is important in decision buying 	D4		0.698			
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on product selection during buying process	Р3	material is important during	0.661			
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P.B1 I usually purchase food 0.830	PB3	even though they are more expensive than conventional meat	0.523			
				0.238	4.20621	0.54197
P B2   Lusually spend for food weekly 0.736						
1.152 I usually spond for food weekly 0.750	P.B2	I usually spend for food weekly	0.736			

P.B3	I purchase at local store	0.813	
P.B4	I purchase at supermarket	0.584	
P.B5	I purchase at hypermarket	0.562	
P.B6	I purchase at specialty shops	0.758	
P.B7	I purchase at open market	0.819	

As suggested by construct validity was tested using convergent and discrimination validity. Convergent validity is based on three factors or conditions. The one conditions is standardized factors loading, second one is composite reliability (CR) and the third factor is Average variance extracted (AVE).

In diet habits there are five items which have the factors loading of 0.802, 0.664, 0.669, 0.69 and 0.537 respectively. The factors loading is between 0.537 - 0.802. The composite reliability value of diet habits is 3.6927 and average variance extracted value is 0.461447. In packing there are nine items which have the factors loading of 0.654, 0.588, 0.661, 0.642, 0.546, 0.547, 0.640, 0.540 and 0.564. The factors loading lies in 0.540 -0.661. The composite reliability value of 6.760834 and average variance extracted value is 0.359907. In price barrier there are three items which have the factors loading of 0.755, 0.554, and 0.523 respectively. The factors loading is between 0.523 - 0.755. The composite reliability value of price barrier is 2.84953 and average variance extracted value is 0.38349. In organic food purchase behavior, there are seven items which have the factors loading of 0.830, 0.736, 0.813, 0.584, 0.562, 0.758, and 0.819 respectively. The factors loading is between 0.562 - 0.830. The composite reliability value of organic food purchase behavior is 4.20621 and average variance extracted value is 0.54197. The average variance extracted value of all four variable lies between 0.359907 - 6.760834 and composite reliability value is lies between 2.84953 - 6.760834. The alpha value lies between 0.238 - 0.680. discrimination validity of correlation is heterotrait - monotrait (HTMT) are also shown in table # 3.

Table 3. Descriptive statistics and discriminant validity.ConstructMeanSDdiet habitspackingprice barrierorganic								
Diet habits	3.6754 0.64		<b>I</b>	<b>F</b>				
Packing	3.9714 0.4	19349	0.475	1				
Price barrier	3.8430 0.7	0690	0.447	0.506	1			
Organic food	1.9953 0.3688	-0.86	5 -0	.119 -0.74	4 1			

#### Hypothesis testing

The structure equation modeling was applied on three hypotheses. The result of the hypothesis is shown in table # 4. we examine the effect of diet habits, packing and price barrier on organic food purchase behavior. from the hypothesis we conclude that H1 and H3 are rejected while H2 are accepted. H1 has the  $\beta$  value is -0.05 and p value / significant value is 0.112 and standard error is 0.03 and t – value is -1.595. H2 has the  $\beta$  value is -0.098 and p value / significant value is 0.03 and standard error is 0.045 and t – value is -2.18. H3 has the  $\beta$  value is -0.036 and p value / significant value is 0.256 and standard error is 0.032 and t – value is -1.137. The value is shown in the table # 4.

Table 4. SEM (structural equation modelling) results and hypotheses testing.
Hypotheses
$\beta$ S.E. T-value p-value
finding
H1: Diet habits → purchase behavior -0.05 0.034 -1.595 0.112 Not accepted
H2: packing → purchase behavior -0.098 0.045 -2.18 0.03 Accepted
H3: price barrier → purchase behavior -0.036 0.032 -1.137 0.256 Not accepted

## DISCUSSION, IMPLICATION, AND LIMITATION

This study gains through experience and declared a model gathering important key elements or components of different or varies theories to gather organic food purchase. From structure equation modeling it is clear that packing is key tool used to attract customer in Multan. The research gap for future study is the study in different countries on organic food purchase. The study can be extended in both the developed and underdeveloped countries such as Pakistan, India, Indonesia, USA, China and etc. findings statistic there is reverse relation between price and customer for organic food. Another variable is also added in future studies which is green marketing which directly influence on purchase frequency on organic food. Different markets also influence on organic food purchasing

The limitation of the study is divided into four major categories. First, the sample size of the research is not so long we can conclude the urban areas of Pakistan as well in our studies. that might affect the purchase frequency of organic food. second, interpretation between the variable may be also exits in the future studies like diet habits, packing and price barrier. Third, hurdle to buy organic food were represented only by price barrier, Low income people cannot buy the organic food due to the high prices. Fourth, this study includes the data collected in the same time period. This may be happening that the income; purchase frequency of the people can be changed due to time.

## **CONCLUSION AND FUTURE RESEARCH**

This study emphasizes on the variable of diet habits, packing and price barrier on organic food purchase behavior. The finding highlights of our research are diet habits, packing and price barrier which are the gap of our research and the data is collected in the market of Multan. The gap described the negative impact of organic food purchase behavior while the diet habits and price barrier have a negative impact in our hypothesis and packing has a significant impact in our hypothesis. personal factors include diet habits and packing, and environmental factors is price barrier which describe or explain the impacts on purchasing of organic food.

Our framework can also use in merging market economics. Furthermore, the information gathered from the respondents can also be collected from different cities of Pakistan like Islamabad, Lahore, Karachi and etc. Data can be collected from urban areas and rulers' areas respectively. The income of ruler areas having low while the income of urban areas are high due

to the change in their life pattern and the purchase frequency of urban areas are high as compare to ruler areas.

Different independent variables contribute in future research like organic food labeling, lack of knowledge and availability. we can also use different aspects such as environmental concern, health concern and food safety concern using them as independent variables we can further use them in new research as a research gap, this research can also be done as longitudinal research.

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# **APPENDICES**

# **Appendix-A: Questionnaire**

Dear respondent; I am the student of Bahauddin Zakariya university Multan, working topic "The effect of Diet habits, packing, and price barrier are impact on organic food purchase behavior. This questionnaire is designed to get your response about this research, and I hope so you will fill this questionnaire with full attention and devotion. Thank you.

# **PERSONAL DETAILS:**

- Gender: Male ( ) Female ( )
- AGE: Less than 30 ( ) From 30 to less than 40 ( )
- Marital Status: Single() Married() Separated()
- Monthly Income/ Pocket Money: Less than 10000 ( ) 10000 20000( )

21000 and above ()

• Occupation: Self-employed/ Business() Professional/ Job Holder()

Sr.	Questions	Strongly	Disagree=2	Neutral=3	Agree=4	Strongly
		disagree=1				agree=5
	Diet habits https://www.emerald.com/insight/co ntent/doi/10.1108/000707002104431 10/full/html					
D1	I usually have the time to eat three times/day					

D0				
D2	I consume small quantities of			
<b>D</b> 0	food frequently during the day			
D3	I usually eat once during the			
	day, at home, due to my daily			
D.1	job			
D4	I generally believe that I follow			
	a balance diet			
D5	Fruits and vegetables are always			
	included in my daily diet.			
	Packing			
	http://www.ecoforumjournal.ro/i			
	ndex.php/eco/article/viewFile/1			
P1	The packaging color impacts			
	consumer behavior during			
	buying process			
P2	The label of the package is			
	important in decision buying			
	process			
P3	The quality of the packaging			
	material is important during			
	buying process			
P4	The package design has an			
	impact on product selection			
	during buying process			
P5	The printed information on the			
	package helps the process of			
	buying			
P6	The language used on the			
	package influences consumer			
	behavior during the buying			
	process			
P7	The brand image on the package			
	has an impact on consumer			
	behavior on buying process			
P8	Innovation and practicality is			
	important in consumer buying			
	process			
P9	The quality of packaging is			
	related with the price of the			
	product			
	Price barrier			
	https://www.mdpi.com/1660-			
	4601/16/6/1037			

PB1	Organic meat is still too			
	expensive			
PB2	The price of organic meat is a			
	barrier to purchase it			
PB3	People should buy organic meat,			
	even though they are more			
	expensive than conventional			
	meat			

	Purchase behavior				
	https://www.emerald.com/insig ht/content/doi/10.1108/0007070 0210443110/full/html				
P.B1	I usually purchase food	Once/week ( )	More than once( )	Less than once ()	
P.B2	l usually spend for food weekly	< Rs100 ( )	Rs 100-150 ( )	>Rs 150 ( )	
P.B3	I purchase at local store	frequently	Rarely	Never	No answer
P.B4	I purchase at super market	frequently	Rarely	Never	No answer
P.B5	I purchase at hypermarket	frequently	Rarely	Never	No answer
P.B6	I purchase at specialty shops	frequently	Rarely	Never	No answer
P.B7	I purchase at open market	frequently	Rarely	Never	No answer

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