

Analyzing consumer markets for health and wellness food products in an emerging economy

Jabir Ali¹, Tanya Jain² and Garima Shrivastava²

Associate Professor & Chairman, Centre for Food and Agribusiness Management, Indian Institute of Management, Prabandh Nagar, Off Sitapur Road, Lucknow-226013, Uttar Pradesh, India Email: jabirali@iiml.ac.in

²Student, Post Graduate Programme in Agribusiness Management, Indian Institute of Management, Prabandh Nagar, Off Sitapur Road, Lucknow-226013, Uttar Pradesh, India

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Introduction

- Consumption pattern of food is experiencing significant transformation across the world
- With growing foodborne diseases and increasing incidences of coronary heart disease, diabetes and problem of obesity, the consumers are becoming conscious in their food intake.
- The health and wellness movement is one of the very recent initiatives of food companies and tap the growing consumer markets.
- A variety of health and wellness food products primarily being categorized in three groups – Better-for-You (BFY), Functional/ Fortified and Natural
- This study aims at analyzing the market structure of health and wellness food and factors affecting the purchase of health and wellness food products

Data & Methods

- Market structure and trends for Health and Wellness Food products have been analyzed using secondary data from the Euromonitor International.
- Factors affecting the purchase of health and wellness food products, using primary data of 621 respondents
- Primary survey of urban respondents were conducted using a structured questionnaire covering six districts of Uttar Pradesh (India) namely Agra, Allahabad, Gorakhpur, Jhansi, Lucknow and Moradabad,
- A Logistic Regression Model is used for analyzing the factors influencing the purchase of health and wellness food products.

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\begin{split} Log[P/(1-P)] &= \alpha + \beta_{1}GEN + \beta_{2}AGE + \beta_{3}EDU + \beta_{4}SOC + \beta_{5}INC \\ &+ \beta_{6}CHILD + \beta_{7}BRAND + \beta_{8}PRICE + \beta_{9}VFM + \beta_{10}QLT \\ &+ \beta_{11}TASTE + \beta_{12}ADVT + \beta_{13}SHELF + \beta_{14}LABEL + \beta_{15}CONV \\ &+ \beta_{16}FAMIL + \beta_{17}ENV + \beta_{18}SYMB + \varepsilon_{i} \end{split}
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Demographic profile of the respondents

Profiles	HWFC (N=244)		NHWFC (N=377)		Total		Chi-square X ²	Sig
	N	%	Ν	%	Ν	%	· X	
Gender of Respondents								
Male	183	75.0	245	65.0	428	68.9	6.934***	0.008
Female	61	25.0	132	35.0	193	31.1		
Age category								
< 25 years	66	27.0	89	23.6	155	25.0	0.957	0.812
25-35 years	65	26.6	106	28.1	171	27.5		
36-45 years	58	23.8	92	24.4	150	24.2		
> 45 years	55	22.5	90	23.9	145	23.3		
Average age (years)	36		37		37			
Education								
Below Primary	19	7.8	41	10.9	60	9.7	11.638***	0.009
Primary & JHS	16	6.6	52	13.8	68	11.0		
Secondary & Higher Secondary	166	68.0	236	62.6	402	64.7		
Graduate & Above	43	17.6	48	12.7	91	14.7		
Total Monthly Household Income								
<rs.5000< td=""><td>39</td><td>16.0</td><td>82</td><td>21.8</td><td>121</td><td>19.5</td><td>23.674***</td><td>0.000</td></rs.5000<>	39	16.0	82	21.8	121	19.5	23.674***	0.000
Rs. 5000-10000	79	32.4	155	41.1	234	37.7		
Rs. 10001-15000	55	22.5	68	18.0	123	19.8		
Rs. 15001-20000	25	10.2	44	11.7	69	11.1		
Rs. 20001-25000	25	10.2	14	3.7	39	6.3		
>Rs. 25000	21	8.6	14	3.7	35	5.6		
Social Category								
General	164	67.2	179	47.5	343	55.2	23.909***	0.000
OBC	62	25.4	144	38.2	206	33.2		
SC/ST	18	7.4	54	14.3	72	11.6		

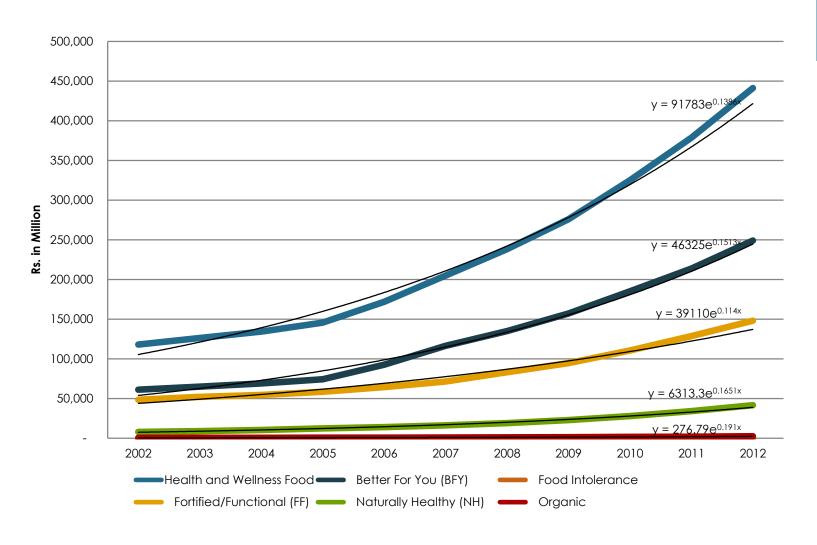
^{***}significant at the 0.01 level, **significant at the 0.05 level, *significant at the 0.10 level N=number of observations

Market size of health & wellness food products in India

Categories	Retai	ACGR (%)			
	2002	2012	2017#	2002-12	2012-17#
Health and Wellness Total	1,17,930	4,41,234	7,90,391	13.9	11.6
Health and Wellness by type					
Better For You (BFY)	61,029	2,49,100	4,30,405	15.1	10.9
Food Intolerance	103	240	407	8.2	10.5
Fortified/ Functional (FF)	48,472	1,47,945	2,55,012	11.4	10.9
Naturally Healthy (NH)	7,976	41,546	98,501	16.5	17.2
Organic	349	2,404	6,066	19.1	18.4
Health and Wellness by Category					
HW Beverages	18,313	59,799	1,15,635	12.1	13.2
HW Packaged Food	99,617	3,81,435	6,74,756	14.2	11.3

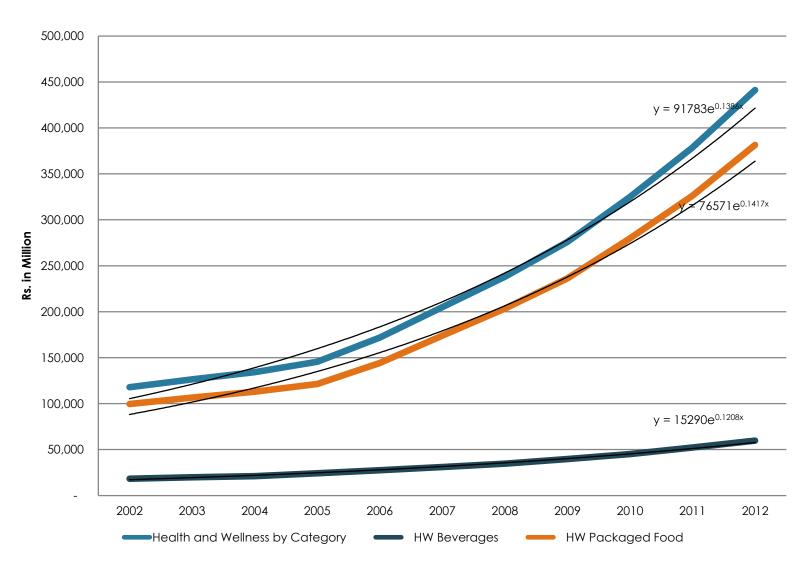
Source: Euromonitor International

FIGURE 1: Market size of health & wellness food products in India by types



Source: Euromonitor International

FIGURE 2: Market size of health & wellness food products in India by category



Source: Euromonitor International

Consumer's response on purchase of food products

Purchase parameters	HWFC (N=244)		NHWFC (N=377)		Total (N=6	21)	F	Sig.
	Mean	SD	Mean	SD	Mean	SD		
Brand	4.52	3.55	3.85	1.04	4.12	2.38	11.775***	0.001
Price	4.46	0.80	4.55	0.72	4.51	0.75	1.823	0.177
Value for money	4.24	0.67	3.92	0.91	4.04	0.84	22.745***	0.000
Quality	4.67	0.53	4.19	0.85	4.38	0.77	60.618***	0.000
Taste & Flavor	4.52	0.67	4.05	0.91	4.23	0.85	47.384***	0.000
Advertising	2.96	1.04	2.79	1.18	2.86	1.13	3.417*	0.065
Shelf life of the product	3.70	0.83	3.10	1.16	3.33	1.08	50.167***	0.000
Food labeling	3.80	0.94	3.37	1.02	3.54	1.01	28.830***	0.000
Convenience in preparation and use	3.65	0.92	3.14	1.13	3.34	1.08	34.686***	0.000
Family's preference	4.06	1.04	3.67	1.06	3.82	1.07	20.316***	0.000
Environmental friendly	3.60	0.91	3.35	1.11	3.45	1.04	8.525***	0.004
Status symbol	2.33	1.16	2.50	1.26	2.43	1.22	2.895*	0.089

^{***}significant at the 0.01 level, **significant at the 0.05 level, *significant at the 0.10 level N=number of observations, SD=Standard Deviation

Factors affecting purchase of health and wellness food products

Explanatory	Description	Dependent Variable: Health of wellness food consumers (HWFC=1, NHWFC=0)						
Variables		β	S.E.	Wald	Sig.	Exp(β)		
GEN	Gender (Male=1, Female=0)	0.573**	0.237	5.851	0.016	1.773		
AGE	Age (> 35 years=1, Otherwise=0)	-0.179	0.198	0.815	0.367	0.836		
EDU	Education (> Graduate=1, Otherwise=0)	0.353*	0.205	2.949	0.086	1.423		
SOC	Social Category (General=1, Otherwise=0)	0.715***	0.206	12.085	0.001	2.043		
INC	Monthly household income (> INR 15000=1, Otherwise=0)	0.765**	0.321	5.671	0.017	2.150		
CHILD	Number of children	0.117**	0.053	4.846	0.028	1.124		
BRAND	Preference on branded food products	0.013	0.264	0.002	0.960	1.013		
PRICE	Price concerns	-0.156	0.378	0.170	0.680	0.856		
VFM	Value for money	0.871***	0.290	9.023	0.003	2.389		
QLT	Quality of food products	1.290***	0.452	8.157	0.004	3.631		
TASTE	Taste & flavour	0.987***	0.345	8.183	0.004	2.685		
ADVT	Product advertisement	0.082	0.215	0.146	0.702	1.086		
SHELF	Shelf life of the product	1.009***	0.237	18.152	0.000	2.744		
LABEL	Food labeling information	0.530**	0.220	5.784	0.016	1.699		
CONV	Convenience of purchasing	0.610***	0.216	7.987	0.005	1.841		
FAMIL	Preference of family members	0.230	0.248	0.858	0.354	1.258		
ENV	Environmental concerns	0.177	0.205	0.747	0.387	1.194		
SYMB	Status symbol	-0.177	0.271	0.428	0.513	0.838		
Constant		-5.613	0.743	57.115	0.000	0.004		
	-2 Log likelihood	645.356						
	Cox & Snell R Square	0.260						
	Nagelkerke R Square	0.352						
	Chi-Square	186.826***						
_	Correct prediction (%)	73.3	_	_				

^{***}significant at the 0.01 level, **significant at the 0.05 level, *significant at the 0.10 level

Conclusion and Implications

- The market trends analysis for health and wellness food products in India, show increasing potential among the consumers.
- A number of companies are also showing aggressive positioning strategy for various categories of health and wellness food products to cater the needs of different types of consumers.
- A demographic profile of the healthy lifestyle consumer was obtained, using the regression analysis, which should assist companies seeking to target this segment.
 - respondents consider brand, value for money, quality, taste & flavor, family preferences are important indicators while making food purchase decisions.
- Companies looking to expand the market for healthy products may want to focus on ways of making their products/ services more convenient to time-pressured consumers.

Thank You