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Impact of Mid-day Meals Programme of Akshaya Patra on Children in India

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Abstract

The Study makes an attempt to study the impact of mid-day meals programme in a Not for Profit (NPO) of repute. The AkshayaPatra Foundation (TAPF) in India is serving mid-day meal to children who are studying in Government schools. The study covers 593children over nine centralized kitchen across six States of India. An instrument was developed covering Demographics in Part I and twenty characteristic variables in part II. The instrument was initially developed in English and was translated to five different languages, Kannada, Hindi, Gujarati, Odia and Telugu and administered to children. The sample size was determined as 551 and actual coverage turned out to be 593. The average age of children is 12.98 years. The class of study of these children is between 5th& 10th standards. The states of the children belong to are Karnataka, Telangana (AP), Orissa, Gujarat, Rajasthan and Uttar Pradesh. The kitchen covered are in following cities:(1) Hyderabad (2) Gandhinagar (3) H K Hill, Bengaluru (4) Ballari (5) Hubballi (6) Vasanthpura, Bengaluru (7) Puri (8) Jaipur & (9) Vrindhavan.

The results of the study have led to rejection of all null hypotheses except one. Children are eating food, curds and sweets. Significant improvement in learning and personnel hygiene was noticed. There is overall improvement performance of students. The children have picked up healthy living habits such as washing hand before food, drinking clean water, washing plates before and after eating food, wearing clean clothes and combing hair every day. The results of multiple regression analysis with age as dependent variable have indicated significance of relationship between response variablesand the dependent variable. The children are sharp enough to react that they come to school not for eating food alone as their age grows.

The mid-day meals programme of TAPF is a mega experiment in mass food delivery system in India. The study has revealed some critical points to ponder over as the experiment spreads to several States & Union Territories in India. The programme is all inclusive in its approach & has made its impact on the target group. The hot food served has made positive impact on the learning, health & habits. Some areas of improvement are suggested to make the programme more effective by continuous training in distribution of food & learning of clean habits by children.

Key words: Not for Profit Organization(NPO), Impact, Mid-day meal, characteristics of interest & personal hygiene.

Impact of Mid-day Meals Programme of Akshaya Patra on Children in India

The Akshaya Patra Foundation (TAPF)

The present study is a juxtaposition of the application of basic concepts of TQM and its application in a Not for Profit Organization (NPO) of repute. While profit is not the consideration of an NPO, the goodwill for the society will dictate the use of concepts, tools & techniques which may find application in an organizational environment. The AkshayaPatra Foundation (TAPF) is an NPOwhich provides mid-day meal to children studying in Government schools. TAPF exists with interdependencies. The linkages which form the inventory base are the backward linkages. That linkage whichestablishes relationship with the target group is the forward linkage. Apart from perfect match of activities at both ends of the organization, it has to ensure smooth functioning which will impact the target group. Thus, the study design involves those common parameters which will have one way causal impact on the target group. The selection of target group has to be multidimensional from the NPO point of view. The study involves examination of Children (Target Group) linked to the organization. In accordance with the target group, an instrument was developed to meet the study objectives.

Consumption Level

At the consumption level, the respondents are children. The children studying between 5th& 10thStandard formthe population of the study.The total number of children or sample size is 593(Total population is 13.9lakhs). Given the spread of Akshaya Patra across ten states in the country, language is a barrier in collecting information. As such, the instrument was inEnglish andwastranslated intoappropriate (five) regional languages.

The Selection Process

The AkshayaPatra Foundation(TAPF), established in 2000 in Bengaluru, is selected for the study as it is the best organization in child youth sector according to The Global Journal2013¹. TAPF has achieved this status in just twelve years.

The year of establishment of AkshayaPatra kitchen selected for study vary from 2000 & 2015. Those units which are serving food for children since last five consecutive years spread across sixStates have been selected. This is based on the assumption that to initiateQuality process it would require continuous & uninterrupted service of food delivery to under privilegedchildren of Government schools for five years. This criterion is applied across all states to enable selection of number of schools and children.

Type of Kitchen

Two types of kitchen are in operation: (1)Centralized &(2) Decentralized.

Centralized kitchen serves food for larger number of children per day as compared with decentralized kitchen. The quality initiatives are rigorously implemented and documented in centralized kitchen. The effort is the same in Decentralized kitchen. However, decentralized kitchen prepare food relatively smaller number of children. Decentralized kitchen are located in rural remote areas to facilitate serving a cluster of schools. These are characterized by food culture prevalent in those areas. These are women empowered operating under self help groups. The food served will meet the standards of nutrition for young children. All the inputs and training required for preparation of food will be given in decentralized kitchen since they are located in access-difficult areas. The study intends to restrict to centralized kitchens.

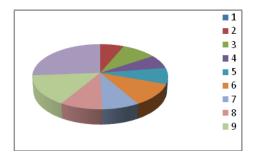
Centralized kitchen

Centralized kitchen normally serves food to about a lakh children. Amongst the centralized kitchen those which are serving more than 50,000 children are considered as large kitchens & included in study. The list of centralized kitchens across different states & their coverage of schools and children are given below:

Table I: Distribution of Schools and Kitchens of AkshayaPatra Foundation in India

SI No.	State	Centre	No. of	No. of
			Children	Schools
1	Andhra Pradesh	Hyderabad	54,849	454
2	Gujarat	Gandhinagar	1,21,508	666
3	Karnataka	H K Hill Bengaluru	85,204	487
4	Karnataka	Ballari	1,15,945	575
5	Karnataka	Hubballi	1,26,693	789
6	Karnataka	VasanthpuraBengaluru	99,326	568
7	Orissa	Puri	55,835	648
8	Rajasthan	Jaipur	92,763	1081
9	Uttar Pradesh	Vrindavan	1,39,262	1874

Source: Annual Report of TAPF 2013-2014



Number of samples considered for study Total No. of States = 6(66%)Total Kitchens = 9 (45%) Total No. of Children = 8,91,685 (66.17%) Total No. of Schools = 7142 (71.06%)

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The study thus intends to cover six out of nine States where AkshayaPatra is in operation. This means covering nine out of twenty kitchens & 66.17% of children &71.06% of schools for study.

Operational Definitions

Quality: The food product which is fit for human consumption.

Total Quality: That food product which is of high quality prepared under established process of hygiene, nutrition value and acceptable taste.

Personal Hygiene: Refers to individual as well as group hygiene practices which will lead to improvement and sustenance of health.

Menu: That list of items identified and listed as the requirement for the end users.

Children: Includes boys and girlsstudying in 5th to 10th standard in Government schools.

Class: That child which belongs classes between 5th and 10th Standard both classes inclusive.

Age: Age measured in years of the child.

Gender: A child either a boy or a girl selected for the study.

Parents Occupation: The occupation of father and mother of the child. In case, a child who does not have parent, guardian male or female is considered as parent.

Religion: That religion, the child belongs to.

Sufficiency: Refers to that quantity of food sufficient or required for a child for consumption.

Freshness: That food that is hot is considered fresh.

Variety: That menu which varies every day.

Socialization: That aspect of a child which will help the child to live together, by eating in a group.

Taste: Is that variable of food which distinguishes between good and bad by a child.

Personal Hygiene: That aspect of a child which facilitates improvement of health and learning.

Delivery: That variable which creates time sense in the reach of food.

Aroma: That flavor which creates urge to eat.

Happiness: That reflection of the child after eating food.

Health: That care aspect of a child measured after taking food for at least one year.

Learning and Performance: That aspect to be assessed after taking foodfor at least one year.

Nutrition: That compositional value of food being served.

Regularity: Consistent, delivery of Mid Day Meals.

Feedback: That response, collected from children periodically.

Purpose of Joining School: That aspect a child would like to reflect after started eating mid day meal.

Serving Food: That aspect of distribution done by teachers/Helpers.

No Waste: That amount of food not wasted on every serving.

Happiness in Learning: That intangible aspect which gets inducted as a part of school program.

Hypotheses on Children

- Food is not served on time from Akshaya Patra H_{01} :
- Food is served on time from Akshaya Patra H_{11} :
- $H_{0,2}$: Food served is not sufficient
- Food served is sufficient H_{12} :
- H_{03} : Food served is not hot
- Food served is hot H_{13} :

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H _{0 4} :	Children do not get variety of sambar every day
H _{1 4} :	Children get variety of sambar every day
H _{0 5} :	Children do not eat food together
H _{1 5} :	Children eat food together
H ₀₆ :	There is no improvement in children's health
H ₁₆ :	There is improvement in children's health
H _{0 7} :	Children are not happy after taking food
H _{1 7} :	Children are happy after taking food
H _{0 8} :	Children do not get sweet dish on special days
H _{1 8} :	Children get sweet dish on special days
H _{0 9} :	Children do not like curds served to them
H _{1 9} :	Children like curds served to them
H _{0 10} :	Children do not like taste of food
H _{1 10} :	Children like taste of food
H _{0 11} :	Children learning has not improved
H _{1 11} :	Children learning has improved
H _{0 12} :	Children are not taught hygiene and cleaning habits
H _{1 12} :	Children are taught hygiene and cleaning habits
H _{0 13} :	Sambar does not contain dhal and vegetables
H _{1 13} :	Sambar contains dhal and vegetables
H _{0 14} :	Children are not studying well
H _{1 14} :	Children are studying well
H _{0 15} :	Akshaya Patra food is not missed any day
H _{1 15} :	Akshaya Patra food is missed on any day
H _{0 16} :	Akshaya Patra does not take feedback regularly
H _{1 16} :	Akshaya Patra takes feedback regularly
H _{0 17} :	Children come to school not to eat food
H _{1 17} :	Children come to school to eat food
H _{0 18} :	Children do not like smell of food
H _{1 18} :	Children like smell of food
H _{0 19} :	Children are not happy to learn in school

Children are happy to learn in school H_{1 19}:

INSTRUMENT DEVELOPMENT

Questionnaire was developed with respect to Children as target group:

Questionnaire development process:

Each Questionnaire is divided into two major parts. Part I is Demographics & Part II is Reflection on statements.

Questionnaire:

The end product is the food delivered to children six days in a week, Monday to Saturday. Food prepared in AkshayaPatra kitchen is delivered in hygienic special stainless steel containers to enable children eat fresh food. The location needs of children in terms of staple and nutritious food is being delivered. The quality aspects with respect to children are encompassed in the characteristics of interest with respect to target group.

The attributes or characteristics of interest are:

1.Taste,2.Sufficiency,3.Variety of menu,4.Time of intake,5.Freshness,6.Preparationfor takingfood,7.Servingfood,8.Cleaningplates,9.Regularity,10.Personalhygiene,11.Improvement in performance,12.Improvement in learning,13.Happiness and satisfaction after consuming food,14.Socialization,15.Improvement in health,16.Feedback,17.Itemized delivery,18.Purpose of joining school,19.Nutritional value of food,20.Flavor/Aroma,21. Do not waste food,22. Sweets&23.Curds.

Some relevant statements were developed using the language of children to enable them to reflect experience. As many as twenty five statements were developed and edited with the help for experts in this field. The refined questionnaire was then replicated for pilot testing. As such the instrument was in English and translated into appropriate regional languages. The instrument was translated to Kannada, Hindi, Guajarati, Odia and Telugu. However, care was taken such that transliteration, wrong interpretation & false image of the statement were avoided, by reviewing the translations by a reviewer of that language.

DETERMINATION OF SAMPLE SIZE

The sample size is spread from the end target group to the inventory in the production process. The determination of children spread across six states in nine kitchens will ensure that each kitchen will form the size variable. The method of probability proportional to size (PPS) sampling has been used. The overall size of sample is restricted to 551 a statistically large number. The sampling plan for the entire study is tabled below:

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Table II : Determined Sample Design and Frame

SI	State	Kitchen	No. of	Percentage of	Sample size	Actual
No.			Children	children total	determined	Sample
						covered
1	Telangana	Hyderabad	54,849	6.15	34	40
	(Andra Pradesh)					
2	Gujarat	Gandhinagar	1,21,508	13.63	75	85
3	Karnataka	Bangalore HK Hill	85,204	9.56	53	64
4	Karnataka	Bellary	1,15,945	13.00	72	82
5	Karnataka	Hubballi	1,26,693	14.22	78	80
6	Karnataka	Bangalore Vasanthpura	99,326	11.15	61	66
7	Orissa	Puri	55,835	6.26	35	40
8	Rajasthan	Jaipur	92,763	10.40	57	54
9	Uttar Pradesh	Vrindavan	1,39,262	15.63	86	82
		TOTAL	8,91,685	100.00	551	593

SAMPLE DESIGN

The sampling plan has aimed at convergence of centers kitchens children. The sampling plan has envisaged proportional weights with respect to children. The sampling plan has envisaged proportional weights with two children covered. The determination of sample size(n) is done by sampling variance of a parameter 'x' i.e. $n=S^2$ (N-n)/ s_x^2 (N-1) wherein N= Population Size, n=Sample Size, S²=Population Standard Deviation& s_x^2 = sample variance.

Here,N= 891685;S²=Nx1/2x1/2=222921.25;s²=405& hence n=550.08=551.

Sampling Measures

The overall population size of different target groups under TAPF is finite. The domain of population of children covered in 6 States is 8,91,685 (out of 13,47,513 – 66.17%). The number of States covered is six (66.7% of 9 States). The number of kitchens covered is 9 out of 20 (45%).

The total number of schools covered as population is 7142 (out of 10050 – 71.06%). The domain of population under the study is in general 2/3rds (67% of the total). The number of kitchencovered is nine(out of 20, i.e. 45%).

The following are the statistical measures used:

Finite Population Correction (FPC) is = 0.999384311.

Demographics: The analysis of demographics is based on measures of central tendency, dispersion, skewness and kurtosis. Mean, Median, Mode, Standard Deviation, Pearson's measures of skewness and Kurtosis were used.

Reliability of data Cronbach's Alpha is used as measure to assess the reliability of the instrument, for standardized items and (Statement batteries) demographic variables.

One sample test: One sample 't' test is used for testing, significance of demographics and quality variables.

Correlation analysis

The relationships between demographic variables and response variables (statements) have been attempted across thetarget group. The least significance level is fixed at 5%.

Regression analysis

Step wise regression analysis have been attempted to examine the relationship between predicted variables and regressors. The significance of coefficients of regressions has been tested using T statistic the powers of regression equation are tested by R^2 and \bar{R}^2 . The component of autocorrelation is tested by D-W statistic.

ANOVA model for fixed linear effects has been used with the F statistic value, the significance of which is tested by 'p' value.

Limitations of the Study

1. The present study is limited to examine the impact the mid-day meal programme on children.

2. The impact is assessed at the aggregate level.

3.Age is the only dependent variable used in the multiple regression analysis.

4.Total Quality Management(TQM) is in the back drop of efforts of TAPFi.e., at the inventory level & at the production & distribution of food.No analysis of TQM has been attempted in this study.

TABULAR ANALYSIS

The profiles of 593 children covering six states and nine kitchens have been studied. The average age of children is 12.98 years. The class of study of these children is between 5th&10th standards. The states of the children belong to are Karnataka, Telangana (AP), Orissa, Gujarat, Rajasthan and Uttar Pradesh. The kitchen covered are in following cities:(1) Hyderabad(2) Gandhinagar (3) H K Hill, Bengaluru (4) Ballari(5) Hubballi (6) Vasanthpura, Bengaluru (7) Puri (8) Jaipur & (9) Vrindhavan.

The Father of the children have coolie or farming as their occupation and the Mother arehouse maids or home makers. As many as 48.9% are boys and 51.1% are girls of the total children covered under the study. The religions to which children belong are- Hindu (88.9%), Muslim (8.1%), Christian (1.7%) and others which includes Jains (1.3%).

The children have responded to the statements very positively. The average number of their response is generally 4.5 + on a 5 point scale. This means they have consumed sufficient quantity of fresh food on time. They are ensured a variety of food according to an approved menu six day a week. Children are getting socialized and generally have experienced improvement in health, satisfaction, learning and happiness.

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The children are provided a tasty food with curds and sweets. Sweets are served once in a week. There is significant improvement in learning and personal hygiene noticed. The nutrition aspect of food is taken care by serving dhal/sambar and vegetables. There is improvement in performance. There is regularity in food served. The feedback by Akshaya Patra is taken from children regularly. The children do not waste food, and they like its flavor/aroma. The children are happy learning in schools.

The children are categorical in making statement that 'they come toschool not to eat food' and 'teachers train children to serve food'.

The reliability of data set for standardized items (i.e. 25 statements) is 0.839 (Cronbach's Alpha). There is significant difference between statements at 0.000% level. (F=12930.186). The age of children is significantly associated with the statements they have made (F=3.85 at P=0.00%).

As many as nineteen hypotheses have been tested for children. It is noticed that the correlation analysis has led to acceptance of alternate hypotheses for all the statements except one. The results indicate to us that the children are getting sufficient quantity offood on time, always hot and of different tastes of sambar/dhal every day. Children enjoy eating food with friends and have perceived that their health has improved. They like the sweets and curds served and very much like the taste of food.

The children perceive that their learning has improved. The children have picked up healthy living habits such as washing hands before eating food, drinking clean water, washing plates before and after eating food, wear clean clothes, and comb hair every day. Such healthy habits are further supplemented by eating dhal and vegetables which are nutritious. Children are scoring well in the examination and perceive there is some improvement in learning. The children claim they have not missed food from TAPF. They have recollected the feedback taken by Akshaya Patra about the quality of food served. They like the aroma of food served and are happy to learn in school. These are alternate hypotheses accepted at 5% or at 1% level of significance. Interesting fact is, all children claim that, they do not come to school to eat food (null hypothesis accepted). There is a clear signal that children are learning, acquiring good habits and are happy in general, about the food served. The most interesting part is they come to school not to eat food alone. The number of children interviewed across nine locations in India is 593 (n=593). Table III: Distribution of children by age

	A set of obilities	F	Deverates
SL No	Age of Children	Frequency	Percentage
1	9	3	0.5
2	10	31	5.3
3	11	44	7.4
4	12	147	24.8
5	13	162	27.3
6	14	117	19.7
7	15	52	8.8
8	16	34	5.7
9	17	3	0.5
	Total	593	100.0

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Table IV: Distribution of children by religion	they belong to
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SL No	Religion	Frequency	Percentage
1	Hindu	527	88.9 %
2	Muslims	48	8.1 %
3	Christians	10	1.7 %
4	Others	8	1.3 %
	Total	593	100 %

Table V: Reliability statistics

	Reliability Statistics	
Cronbach's	Cronbach's Alpha	Number of
Alpha	Based on Standardized	Items
	ltems	
0.499	0.839	34

Regression Analysis

Regression analysis was carried out with age as predictand (dependent) variable. The regression is clear about significance of eleven predictor variables influencing age. The significance at 0.00% level is clear of the fact that children are getting enough food to eat, happy after eating food, like the sweet and curds served and have picked up good hygiene habits. The negative beta value for the predictor variable that "I come to school to eat food" is suggestive of children's maturity levels. The regression equation is statistically significant with F=3.850 at 0.000% levels of significance.

All hypotheses are statistically significant either at 5 or 1% level, except the hypotheses on children coming to school to eat food alone. The fact reminds us of the maturity of children in recognizing food as well as learning. The results indicate that the children are getting hot food on time and get enough to eat (significant @6.8%) but negatively significant. Some training efforts are needed to facilitate more effective serving of food by teachers. The different taste that they get everyday will make them enjoy and happy after eating it (negatively significant @3.1%).There is an indication of differentials in the menu served which may have caused dislike of children. Along with nutrition supplement in food, some efforts could lead to positive significance. This, however, has resulted in improvement of health. The children eat sweets and curds whenever served and like the taste of food. Introduction of curds have made positive impact on children liking.This must be continued to sustain the best efforts of TAPF. Their learning has improved (significant @0.0%). The children have learned hygiene practices such as washing hands before eating food, drinking clean water and washing of plates before and after eating food. The children wear clean clothes (positively significant @1.8%), comb hair and are scoring well in examination. This is sign of hope of building better social capital. Personal hygiene practices in the early

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age enable a society to look ahead with pride. They have generally not missed food. The teacher is training them to serve food and as such they do not waste food (negatively significant @1.0%). This is suggestive of concerted efforts in making children not waste food.TAPF can think of continuous training programs for long term positive results. The children like the flavor or aroma of food (positively significant @11.6%). The children enjoy eating food with their friends. This needs to be maintained consistently as always!

Table VI: Regression Analysis of Relationship between Age of Children & Response Variables

	ModelSummary ^b									
Mod el	R	R Square	Adjusted R Square	Std. Error of						
				the Estimate	R Square Change	F Change	df1	df2	Sig. F Change	Watson
1	0.374 ^ª	0.140	0.104	1.48980	0.140	3.850	24	568	0.000	1.066
a. Predictors: (Constant), S25, S21, S9, S22, S7, S23, S8, S19, S17, S14, S2, S18, S1, S4, S20, S24, S16, S3, S12, S10, S5, S15, S11, S13 b. Dependent Variable: AGE								516, S3,		

Table VII : ANOVA Table

			ANOVA ^b				
Model		Sum of Squares	Mean Square	F	Sig.		
1	Regression	205.084	24	8.545	3.850	.000ª	
	Residual	1260.673	568	2.219			
	Total	1465.757	592				
a. Predictors: (Constant), S25, S21, S9, S22, S7, S23, S8, S19, S17, S14, S2, S18, S1, S4, S20, S24, S16, S3, S12, S10, S5, S15, S11, S13							
b. Deper	ndent Variable: A	GE					

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Table VIII: Regression coefficients with Age as Dependent Variable

				Coefficie	nts ^a				
odel	Unstanda Coeffici		Standardized Coefficients	t	Sig.	95% Cor Interva		Collinearity Statistic	
	В	Std. Error	Beta			Lower Bound	Upper Bound	Tolerance	VIF
(Consta nt)	12.539	.833		15.053	.000	10.903	14.175		
S1	-0.195	.144	069	-1.355	.176	477	.088	.588	1.700
S2	-0.259	.142	095	-1.826	.068	538	.020	.557	1.794
S3	0.065	.137	.025	.478	.633	204	.335	.532	1.880
S4	0.028	.111	.013	.249	.803	190	.246	.546	1.833
S5	0.009	.149	.003	.059	.953	285	.302	.498	2.009
S7	-0.283	.131	112	-2.163	.031	540	026	.562	1.779
S8	0.002	.054	.002	.035	.972	103	.107	.708	1.412
S9	-0.122	.031	193	-3.977	.000	182	062	.643	1.556
S10	0.083	.128	.036	.650	.516	168	.334	.495	2.019
S11	0.485	.138	.195	3.526	.000	.215	.755	.494	2.026
S12	0.090	.176	.029	.514	.607	255	.436	.474	2.111
S13	0.045	.139	.018	.328	.743	227	.318	.479	2.086
S14	0.050	.137	.020	.365	.715	219	.320	.519	1.925
S15	0.379	.159	.131	2.375	.018	.066	.691	.495	2.019
S16	-0.071	.138	026	513	.608	342	.200	.578	1.731
S17	0.125	.114	.055	1.095	.274	099	.348	.606	1.651
S18	0.087	.115	.037	.759	.448	138	.312	.645	1.549
S19	0.028	.085	.016	.328	.743	139	.195	.667	1.500
S20	-0.049	.090	027	549	.583	226	.127	.634	1.578

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	S22	-0.065	.060	047	-1.083	.279	183	.053	.817	1.224
	S23	-0.243	.094	117	-2.572	.010	428	057	.733	1.364
	S24	0.179	.114	.081	1.573	.116	045	.403	.571	1.753
	S25	-0.192	.179	058	-1.071	.285	543	.160	.512	1.954
	Dependen iriable: AG									

I. Findings

As many as 593 children covering six states 9 kitchens studying between 5th& 10th standard have an average age of 12.98 (13) years are included in the study. The father of children is mostly coolie or farming as their occupation. The mothers of these children are mostly house maids or home makers.

The gender ratio of the children is 48.9% boys and 51.1% girls. The children belong to Hindu (88.9%), Muslim (8.1%), Christians (1.7%) and others (including Jains is 1.3%). The children have responded positively and have rated 4.5 + out of 5 for the parameters in the instrument. The children are delivered food in accordance with an approved menu for 6 days in a week. The children are getting sufficient food, on time, always, hot and with different taste of sambar every day. They enjoy eating food with friends and have perceived an improvement in their health. They like sweets and curds, when served, and like very much the taste of food.

They have picked up learning, healthy living habits such as washing hands before eating food, drinking clean water, washing plates before and after eating food, wear clean clothes and comb hair every day. These are supplemented by food of high nutrition value contained in dhal and vegetables consumed by them. They are scoring well in the examination which indicates an improvement in learning. The aroma and taste of food are liked by children. Having said this there is awareness amongst children that they do not came to school to eat food alone (null hypothesis accepted)!

Conclusion

The mid-day meals programme of TAPF is a mega experiment in mass food delivery system in India. The programme has spread across nine States in India covering 13.9 lakh children studying in Government schools whose average is 12.98 years. The study has revealed some critical points to ponder over as the experiment spreads to several States & Union Territories in India. The programme is all inclusive in its approach & has made its impact on the target group. The hot food served has made positive impact on the learning, health& habits. The children, however, do not come to school to eat food alone! Some areas of improvement are suggested to make the programme more effective by continuous training in distribution of food & learning of clean habits by children.

Reference

1. The Global journal 2013-Top 100 NGOs in the World Special Issue.

Webliography

1.www.akshayapatra.org

Annexure INSTRUMENT FOR CHILDREN

I am doing Ph.D on topic **"Total Quality Management in Not for Profit Organization with special reference to Akshaya Patra Foundation in India".** I would request you to fill up the questionnaire which will help me in my study. *The information given is for study purpose only & will be kept confidential & not revealed to anyone else. Thank you.*

-	<u>Part - 1</u>
1.Name:	2. Class:
3.Age: 4.Gender (Boy	
5. Name of School:	
6. Place of School:	
8.Father's Occupation:	
9.Mother's Occupation:	
10. Religion: Hindu / Muslim / Chri	stian / Others:
11. Since how many years you are	

Part II Please tick right answer

1.I am getting food on time from Akshaya Patra.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
2.I get enough food to eat	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
3. The food I get is hot always.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
4. Every day get a different taste of sambar.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
5. I enjoy eating food with my friends.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
6. My health has improved after taking food	Strongly	Disagree	Neutral	Agree	Strongly
fromAkshaya Patra.	Disagree	2	3	4	Agree
	1				5
7. I feel happy after eating food.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
8.I like the sweets served.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
9. I eat curds whenever served.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree
	1				5
10.I like the taste of food.	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree	2	3	4	Agree

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