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# FEEDING PRACTICES IN CHILDREN AGED LESS THAN 3 YEARS AND ITS RELEVANT KNOWLEDGE AMONG YOUNG MOTHERS

Samina Waseem, 1 Rozina Shahadat Khan, 2 Saba Sharif 3

### **Abstract**

**Background & Objectives:** It is highly important for the parents to be aware of the proper feeding practices so that their children can have better health condition and immunity. In this aspect, regular assessment is must regarding the awareness of the parents so that necessary interventions can be done viz-a-viz healthy feeding practices. The objective of this study is to assess the feeding practices being currently undertaken by the parents of children less than three year age in some rural and urban localities of Rahimyar Khan.

**Methods:** Cross Sectional survey of 213 young mothers less than 35 years of age having at least one child of age below 3 years, who presented at Pediatrics outdoor indoor, Gynecology outdoor indoor and Vaccination center of Sheikh Zayed Hospital Rahimyar Khan, were selected through Convenient Sampling. Data were collected through a self-administered questionnaire & analyzed through a software SPSS.

**Results:** This Cross Sectional survey was conducted amongst 213 Mothers Knowledge related to feeding practices of their children of less than 3 years of age has shown that 140(65.7%) mothers were Exclusively Breast Feeding their children and 130(61.0%) considered using Cow's milk instead of formula Milk. 102 (47.9%) introduced solid food to their child at 6 months. Majority 119 (55.87%) were not aware of any food allergies or intolerances in their children and majority 91 (42.7%) believes in normal ways followed by 63 (29.6%) who use rewards to ensure their child takes meal. Another important finding is that 180 (84.5%) were allowing their child consume processed or fast food while 22 (10.3%) were consuming it on daily basis while 114 (53.5%) were not aware of the appropriate portion sizes for child's age and 158 (74.2%) were offering sugary snacks or desserts to the child.

**Conclusion:** Initiation of breast feeding within one hour has shown improvement but still 40 % not knowing this basic knowledge. Moreover on one hand 80% were practicing addition of variety of protein sources and almost 100% believed in fruit consumption but at the same time more than 50% were not having idea of the portion size and almost 100% were allowing Processed or fast food consumption. These statistics emphasize comprehensive educational programs for the mothers. Future research can be focused on impact of educational programs on Nutritional practices:

**Key Words:** Exclusive breast feeding, Weaning and Young Mothers

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utrition is of paramount importance for the wellbeing of a child. Feeding as required by different ages if done appropriately will definitely improve the health of child and reduces the occurrence of specific

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Submission Date: 19-04-23 1st Revision Date: 08-05-23 Acceptance Date: 16-06-23 diseases. To support the growth and development of infants and children, appropriate mixture of nutrients with balance, taste and texture is extremely important. Similarly, adequate amount of nutrients in this age promises optimal health too. The triple burden of malnutrition (under nutrition, over nutrition and micronutrient deficiency) is becoming a great threat in developing countries. This burden could jeopardize the economy and growth of the nation. The World Health Organization (WHO) and United Nation International Children's Education Fund (UNICEF) jointly developed

a global strategy for infant and young child feeding practices (IYCF). That recommends the start of breastfeeding within one hour of birth, exclusive breastfeeding for the first 6 months, adding complementary feeds at 6 months, and continued breastfeeding at least until 2 years of age. It has been proved by some studies that compliance to these recommended practices has lessened the risk of under nutrition and over nutrition.4 Study from Pakistan has shown that only 45.8% of Pakistani babies were breast fed within the first hour of birth. Prevailing of the practice of continued breast feeding is highest at one year of age (68.4%) and thereafter decreases to 56.5% at two years of age. 5 Infants and young children are at an increased risk of malnutrition when baby's diet is shifted from breast milk to solid feed that is, from six months to two years of age. Early or delayed introduction of complementary feeds also lead to malnutrition. Globally, 2 in 3 children aged between 6 months to 2 years of age are not provided food supporting their rapidly growing brain and body.6 Lack of adequate complementary feeding practices cause malnutrition in infancy with further consequences like weight loss, muscle wasting, stunting, difficulty concentration eventually progressing to kwashiorkor, marasmus, poor brain development, reduced learning ability, increased risk of infections owing to the low immunity, and in many cases death. Proper adherence to the recommended feeding practices (IYCF) can lessen infant mortalities up to 19% in developing countries like India. 7-9 Thus proving the significant impact of IYCF practices on child mortality. Studies on the food consuming practices in developing countries (like India & Pakistan) show that diets of children lack proteins and essential micronutrients. In this aspect, the influence of adults (family) food choices is also noted. Children under the age of five still suffer from stunting (38%) and wasting (21%). It is not due to the unavailability of food owing to poverty but to the insufficient knowledge about feeding practices among parents.9-12 The existence of under nutrition and obesity at the same time is paradoxical, albeit we have few explanations for this paradox. Consumption of un-healthy and highly

dense foods by children lead to the coexistence of overweight and under nutrition. Over nutrition, too, is a kind of malnutrition that results from the excessive intake of nutrients leading to the dysfunctioning of physical and psychosocial aspects of a child. Child becomes overweight and obese eventually resulting in serious long-term health consequences such as diabetes mellitus, hypertension, fatty liver disease, kidney disease, cardiovascular diseases, stroke and orthopedic morbidities. There are only a few studies in Pakistan and especially in southern Punjab areas like District Rahimyar Khan for assessing the feeding practices by the parents especially mothers of young children. Awareness and education of the parents is necessary so that child can be benefitted by proper diet and feeding practices. In this regard, timely and regular assessments are of significant value to evaluate the awareness level of the parents at given time and scenario so that specific interventions can be done to educate them further. This study aims at gaining information about the feeding practices being currently undertaken by the parents of children. (aged less than three years) in some rural and urban localities of Rahimyar Khan.

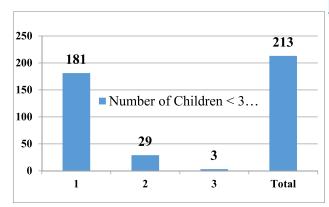
## **METHODS**

It is a Cross Sectional survey of young mothers who presented at Sheikh Zayed Hospital Rahimyar Khan. The optimum focus was to explore the young mothers for feeding practices of their children less than 3 year age & mothers relevant knowledge regarding breast feeding, weaning & nutrition of their young children. Married females less than 35 years of age having at least one child of age below 3 years, who presented at Pediatrics outdoor indoor, Gynecology outdoor indoor and Vaccination center of Sheikh Zayed Hospital Rahimyar Khan were included in the study. Study conducted for two weeks from 11-07-2023 to 24-07-2023. Convenient Sampling Technique was under-taken & sample size of 196 was estimated by using a single proportion (15 %) for a finite population (about 5,00,000) by consideration of 95 % confidence level & marginal error of less than 5 % ( $n=(Z\alpha/2)2 P(1-P)$ / D2. Adding 8% non-response 213 were interviewed.

Data was collected through a self-administered questionnaire & analyzed through SPSS. Ethical certification was taken from institutional Ethical Review board & respondent's privacy was totally protected.

# **RESULTS**

This Cross Sectional survey was conducted amongst 213 females, majority 90(42.3%) were of age group greater than 30 years followed by 63(29.6%) between 25 to 30 years of age and majority 94(44.1) were Illiterate. As far as socioeconomic status is concerned majority 80 (37.6 %) had earnings < 20000 followed by 74 (34.7%) who had 20000-50000 monthly earnings. (Table 01) Mothers Knowledge related to feeding practices of their children of less than 3 years of age has shown that 140(65.7%) mothers were doing Exclusive Breast Feeding. As a replacement to mothers milk 130 (61.0%) considered using Cow's milk instead of formula Milk. As far as weaning is concerned 102(47.9%) introduced Solid food to their child at 6 months. Majority 119 (55.87%) were not aware of any food allergies or intolerances in their children and majority 91 (42.7%) believes in normal ways followed by 63 (29.6%) who use rewards to ensure their child takes meal. Another important finding is that 180 (84.5%) were allowing their child consume processed or fast food while 22 (10.3 %) were consuming it on daily basis while 114 (53.5 %) were not aware of the appropriate portion sizes for your child's age and 158 (74.2%) were offering sugary snacks or desserts to your child. (Table 02)



**Figure 1:** Number of Children < 3 Years

Table 1: Socio-Demographic Factors Of Respondents

Characteristics		Frequency	%
Socio Economic Status	<20000	80	(37.6)
	20000-50000	74	(34.7)
	50000-100000	56	(26.3)
	>100000	03	(1.4)
Education Status	Illiterate	94	(44.1)
	Under Matric	52	(24.4)
Status	Above Matric	67	(31.5)
Age	Less than 25	58	(27.2)
	25-30	63	(29.6)
	>30	90	(42.3)

**Table 2:** Mothers Knowledge about Feeding Practices of their Children< 3 Year Age

Variable	Fre- quency	%	
Do you know breastfeeding started 1 hour of birth	130	61.0	
Do you know what is "exc Feeding	140	65.7	
Other than Breast milk,	Cow Milk	130	61.0
which one is better?	Formula Milk	68	31.9
How often the child	On demand	180	84.5
should be breast fed?	Others	22	10.3
Do you know at which	4 months	102	47.9
age you have to introduce "Thos Ghiza" / solid food to your child?	6 months	111	52.11
Are you aware of the appropriate portion sizes of food for your child?		99	46.48
Do you Know that new for introduce gradually to child	148	69.5	
Do you Know that Proce shouldn't be introduced to	80	37.56	
Do you Know that you should sit with your child during meal?		211	90.06

### **DISCUSSION**

The WHO' and UNICEF's IYCF recommends beginning of breast-feed within one hour of birth, exclusive breast feeding for the first six months of life, adding complementary feeds at 6 months with continued breastfeeding at least until 2 years of age. In our study only 130(61.0%) started breast feeding within one hour of birth 140(65.7%) mothers were exclusive breast feeding their children and 130(61.0%) considered using Cow's milk instead of formula Milk. 102 (47.9%) introduced Solid food to their child at 6 months while another study has shown that Less than half

(45.8%) of Pakistani babies start breast feeding within the first hour of birth. Prevailing of the practice of

continued breast feeding is highest at one year of age (68.4%) and thereafter decreases to 56.5% at two years

 Table 3: Mothers Feeding Practices Of Their Children< 3 Year Age</th>

Had you started breast feeding your baby within hour of birth   130   61.0	Variable	Frequency	%	
How Often Do You Breast Feed Your Child?	Had you started breast feeding your baby within hour of birth			61.0
1-3 Times Per Day   38   17.8		Exclusive Breast Feeding	140	65.7
More Than 3 Times Per Day   25   11.7     Not Breast feeding, what type of milk you primarily used for your child?   Cow's milk   130   61.0     Formula milk   68   31.9     NA   15   7.04     Formula milk   68   31.9     NA   15   7.04     At what age did you introduced "Thos Ghiza" / Solid food to your child?   4-6 months   20   9.4     Are you aware of any food allergies or intolerances in your child?   No   119   55.87     Do you use any reward or punishment to provide food to your child?   No   119   55.87     Don't know   8   3.8     Do you use any reward or punishment to provide food to your child?   Punishment   59   27.7     Normal way   91   42.7     How often does your child consume processed or fast food?   Daily   22   10.3     Occasionally   180   84.5     NA   01   0.5     Are aware of the appropriate portion sizes for your child's age?   Yes   99   46.48     No   114   53.5     Do you introduce new food gradually to your child?   Yes   148   69.5     How often do you sit with your child during meal times?   Always   118   55.4     How often do you sit with your child during meal times?   Always   118   55.4     How often do you offer sugary snacks or desserts to your child?   Yes   148   69.5     Do you offer sugary snacks or desserts to your child?   Yes   158   74.2     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you offer a variety of protein sources to your child?   Yes   178   74.9     Do you provide healthy snacks between meals?   Yes   173   83.1     Do you limit your child's intake of high-sodium snacks (Aalo   Yes   177   83.1			38	17.8
Front breast feeding, what type of milk you primarily used for your child?   Cow's milk   130   61.0			25	11.7
Front breast feeding, what type of milk you primarily used for your child?   Cow's milk   130   61.0		Not Breast feeding	10	4.7
Formula milk	If not breast feeding, what type of milk you primarily used for		130	61.0
NA			68	
At what age did you introduced "Thos Ghiza" / Solid food to your child?   A fer 6 months   91   42.7     After 6 months   102   47.9     Are you aware of any food allergies or intolerances in your child?   No   119   55.87     Do you use any reward or punishment to provide food to your child?   Reward   63   29.6     Child?   Punishment   59   27.7     Normal way   91   42.7     How often does your child consume processed or fast food?   Daily   22   10.3     Occasionally   180   84.5     NA   01   0.5     Are aware of the appropriate portion sizes for your child's age?   Yes   99   46.48     No   114   53.5     Do you introduce new food gradually to your child?   Yes   148   69.5     How often do you sit with your child during meal times?   Always   118   55.4     Occasionally   93   43.7     Never   2   9.9     How many servings of fruits and vegetables does your child   Yes   181   74.2     How many servings of fruits and vegetables does your child?   Yes   158   74.2     No   53   24.88     How often do you offer water to your child?   Yes   158   74.2     No   53   24.88     How often do you offer water to your child? (e.g., With meals   12   5.6     Occasionally   25   11.74     Do you offer a variety of protein sources to your child? (e.g., No   40   18.78     Do you encourage your child to eat slowly and chew their food well?   Yes   181   85.0     Do you provide healthy snacks between meals?   Yes   130   61.0     No   83   39.0     Have you ever tried to gain knowledge about feeding practices from various sources   177   83.1     Do you limit your child's intake of high-sodium snacks (Aalo)   Yes   177   83.1			15	
Yes   94   44.13	At what age did you introduced "Thos Ghiza" / Solid food to	Before 4 months	20	
Are you aware of any food allergies or intolerances in your child?		4-6 months	91	42.7
No		After 6 months	102	47.9
No	Are you aware of any food allergies or intolerances in your	Yes	94	44.13
Do you use any reward or punishment to provide food to your child?   Reward   S3   29.6		No	119	55.87
Do you use any reward or punishment to provide food to your child?   Reward   S3   29.6		Don't know	8	3.8
child?         Punishment         59         27.7           Normal way         91         42.7           How often does your child consume processed or fast food?         Daily         22         10.3           Occasionally         180         84.5           NA         01         0.5           Are aware of the appropriate portion sizes for your child's age?         Yes         99         46.48           No         114         53.5           Do you introduce new food gradually to your child?         Yes         148         69.5           No         65         30.5           How often do you sit with your child during meal times?         Always         118         55.4           Occasionally         93         43.7         Never         2         .9           How many servings of fruits and vegetables does your child         Less than 1 serving         102         47.9           consume daily?         1-2 servings         101         4.69           Do you offer sugary snacks or desserts to your child?         Yes         158         74.2           No         53         24.88           How often do you offer water to your child?         Throughout the day         176         82.6           With	Do you use any reward or punishment to provide food to your		63	29.6
Normal way   91   42.7				
Daily   22   10.3			+	
Occasionally   180   84.5     NA	How often does your child consume processed or fast food?			
NA		· · · · · · · · · · · · · · · · · · ·		
Are aware of the appropriate portion sizes for your child's age?   Yes   99   46.48		•		
No	Are aware of the appropriate portion sizes for your child's age?		99	
Do you introduce new food gradually to your child?   Yes	S. S		114	
No   65   30.5	Do you introduce new food gradually to your child?			
How often do you sit with your child during meal times?	i jin i i i i i i i i i gi i i i ji i i i i i			
Occasionally   93   43.7     Never   2   .9     How many servings of fruits and vegetables does your child consume daily?   Less than 1 serving   102   47.9     1-2 servings   101   47.4     More than 2 servings   10   4.69     Do you offer sugary snacks or desserts to your child?   Yes   158   74.2     No   53   24.88     How often do you offer water to your child?   Throughout the day   176   82.6     With meals   12   5.6     Occasionally   25   11.74     Do you offer a variety of protein sources to your child? (e.g., Meat, Beans, Daal, etc)?   No   40   18.78     Do you encourage your child to eat slowly and chew their food well?   No   32   15.0     Do you provide healthy snacks between meals?   Yes   130   61.0     No   83   39.0     Have you ever tried to gain knowledge about feeding practices from various sources .   No   128   60.1     Do you limit your child's intake of high-sodium snacks (Aalo   Yes   177   83.1     No   128   60.1     Do you limit your child's intake of high-sodium snacks (Aalo   Yes   177   83.1     No   128   60.1     Do you limit your child's intake of high-sodium snacks (Aalo   Yes   177   83.1	How often do you sit with your child during meal times?	Always	118	
Never   2   .9	, , ,	•	93	43.7
Less than 1 serving   102   47.9		•	2	.9
1-2 servings   101   47.4	How many servings of fruits and vegetables does your child	Less than 1 serving	102	
More than 2 servings   10			101	47.4
No		~	38 25 10 130 68 15 20 91 102 94 119 8 63 59 91 22 180 01 99 114 148 65 118 93 2 102 101 10 158 53 176 12 25 173 40 181 32 130 83 85 128	4.69
No   53   24.88	Do you offer sugary snacks or desserts to your child?		158	74.2
With meals 12 5.6 Occasionally 25 11.74  Do you offer a variety of protein sources to your child? (e.g., Meat, Beans, Daal, etc)?  Do you encourage your child to eat slowly and chew their food well?  No 32 15.0  Do you provide healthy snacks between meals?  Yes 130 61.0  No 83 39.0  Have you ever tried to gain knowledge about feeding practices from various sources .  No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	, , ,	No	53	24.88
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Do you offer a variety of protein sources to your child? (e.g., Meat, Beans, Daal, etc)?  No 40 18.78  Do you encourage your child to eat slowly and chew their food well?  No 32 15.0  Do you provide healthy snacks between meals?  Yes 181 85.0  No 32 15.0  No 83 39.0  Have you ever tried to gain knowledge about feeding practices from various sources.  No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	·			5.6
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well?  No 32 15.0  Do you provide healthy snacks between meals?  Yes 130 61.0  No 83 39.0  Have you ever tried to gain knowledge about feeding practices from various sources.  No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	Meat, Beans, Daal, etc)?	No	40	18.78
Do you provide healthy snacks between meals?  Yes  130  61.0  No  83  39.0  Have you ever tried to gain knowledge about feeding practices from various sources.  No  128  60.1  Do you limit your child's intake of high-sodium snacks (Aalo  Yes  177  83.1	Do you encourage your child to eat slowly and chew their food	Yes	181	85.0
No 83 39.0  Have you ever tried to gain knowledge about feeding practices Yes 85 39.9  from various sources No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	well?	No	32	15.0
Have you ever tried to gain knowledge about feeding practices from various sources.  No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	Do you provide healthy snacks between meals?	Yes	130	61.0
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from various sources . No 128 60.1  Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1	Have you ever tried to gain knowledge about feeding practices	Yes	85	
Do you limit your child's intake of high-sodium snacks (Aalo Yes 177 83.1			128	
1' 01 ( 17 1 1 4 ) 1 0 10	Do you limit your child's intake of high-sodium snacks (Aalo		+	
10.90	chips, Slanty, Kurkary, lays etc) or processed food?	No	36	16.90

of age.5 Complementary feeds if introduced earlier or later than.. Almost, 2 in 3 children between 6 months and 2 years of age across the globe are not fed food that supports their rapidly growing brain and body. The best part of this study is that 173 (81.2%) offer a variety of protein sources to their child (e.g., Meat, Beans, Daal, but 180 (84.5%) were allowing their child consume processed or fast food while 22(10.3%) were consuming it on daily basis while 114(53.5%) were not aware of the appropriate portion sizes for your child's age and 158 (74.2%) were offering sugary snacks or desserts to your child. According to a data, provided by UNICEF about the studies on food consuming practices in developing countries (like Pakistan & India) show that diets of children lack proteins and essential micro nutrients. In this aspect, the influence of adult (family) food choices is also noted. Children under the age of five still suffer from stunting (38%) and wasting (21%). It is not due to the unavailability of food owing to poverty but to the insufficient knowledge about feeding practices among parents. This can ascribed mainly to improper knowledge about appropriate feeding practices among parents rather than the lack of food due to poverty.

### **CONCLUSION**

Initiation of breast feeding within one hour has shown improvement but still 40 % not knowing this basic knowledge. Moreover on one hand 80% were practicing addition of variety of protein sources and almost 100% believed in fruit consumption but at the same time more than 50% were not having idea of the portion size and almost 100% were allowing Processed or fast food consumption. These statistics emphasize comprehensive educational programs for the mothers. Future research can be focused on impact of educational programs on Nutritional practices

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