

Original Research Article

COMPLEMENTARY FOOD PRACTICES IN RURAL AREA (6 MONTHS TO 1 YEAR)

ABSTRACT:

BACKGROUND : Diet is defined as nutritionally adequate & appropriate intake of food items that also provide the required energy & protein intake by ensuring proper growth and development. Adequate nutrition of the infants & child is essential. To meet one's need, complementary food practices are included apart from breast milk. Balanced diet is defined as nutritionally adequate & appropriate intake of food items that also provide the energy and protein.

METHOD : A cross sectional / observational study is to be conducted by taking approval to meet one's need, complementary food practices are included apart from breast milk, from ethical committee which includes multigravida women as study participants PNC, PEDS ward, AVBRH. The data of sample size is recorded, tabulated analysed.

RESULT : As many as 43.33% of mother from the study group has started weaning practices before 6 months of age. Whereas the common complementary feeding practices is Dal pani (66.66%) followed by mashed roti / bread (60%) furthermore Dalia (53.33%). The no meals per day were 3 meals by 36.66% of participants. The common food being Dal pani, a thin gruel, with most of the participants starting weaning

CONCLUSION : Poor complementary feeding practices is observed in rural area. The common food being Dal pani, a thin gruel, with most of the participants starting weaning before 6 months of age.

KEYWORDS: Complementary feeding weaning, exclusive breastfeeding, Infants, Neonates.

INTRODUCTION:

For the full potential of growth and development in children is very essential. Consequently to guarantee the developmental wellbeing and advancement, sufficient sustenance during the earliest stage is fundamental.⁽¹⁾ Integral taking care begins, then breastmilk alone at this point is not adequate to meet the extra prerequisite of newborn children and thus different food sources and fluids are required. Selective breastfeeding is upto 6 months of age.⁽¹⁾ Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount

of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight. Weaning that is complementary feeding starts from 6 months to 24 months of age, even though breastfeeding may continue beyond 2 years.⁽¹⁾ It should be nutritionally adequate, safe to meet the young child's energy and nutrients. Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight the feed should be appropriate. However, there are some problem faced by the mother or family, when the child is on complementary feeding, it is often fraught with problem, with food being too dilute, sometimes not fed enough or in too small quantity.

Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽²⁾

The nutritional requirement of different age and sex are formulated depending on anthropometry body composition climate & environment that is termed as recommended dietary allowances. Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽²⁾ Weaning feeding starts from 6 months of age. It should be nutritionally adequate and safe, nutrients need the feed should be appropriate, however there are some problem faced by the mother or family, when the child is on complementary feeding it often leads to problem body composition, climate and environment.

AIM AND OBJECTIVES :

Aim:

The study aimed to know the various major complementary feeding practices across rural area.

Objective:

- 1) To study the various factors influencing the mother for complementary feeding practices.
- 2) To study the distribution of participants based on number of meals a day.
- 3) To know the distribution of participants who started weaning practices before 6 months of age and after 6 months of age.

MATERIALS:

STUDY DESIGN / TYPE OF STUDY – Cross sectional observational study

SETTING – PNC ward, AVBRH, Sawangi , Wardha

STUDY PERIOD – June 2021 – July 2021

STUDY PARTICIPANTS – Multigravida

SAMPLE SIZE – 20-30

INCLUSION CRITERIA:

– Multigravida

EXCLUSION CRITERIA:

Primigravida

Denied consent

METHODOLOGY:

The study was conducted after taking approval from the ethical committee of DMIMS in PNC ward of AVBRH for one month on mothers who are multigravida.

Sample size of the cross sectional study is 20-30

A pre tested and pre-designed questionnaire is used for collection of data by personal interview. conducted after taking approval from the ethical committee of DMIMS in PNC ward of AVBRH for one month on mothers who are multigravida.

Data was collected and after studying ,it will be statistical analysed and will be presented in a tabular form.

Furthermore there are factors of mothers which affect the complementary feeding practice which is to be measured.

- 1) Mother's education
- 2) Her socio-economic status
- 3) Locality
- 4) Access to information regarding complementary feeding practices.

: FLOW CHART:

Multigravida mothers would be included in the study



Pretested questionnaire will be recorded



Final outcome will be recorded



Would be interpreted and analysed

Sample Size Calculation:

20 TO 30

Statistical Analysis:

The data collected was recorded in case questionnaire, tabulated and statistically analysed to find significance of association of clinical variables with outcome using inferential statistics.

PRO FORMA OF QUESTIONNAIRE

A STUDY ON

“COMPLEMENTARY FOOD PRACTICES IN RURAL AREA (6 MONTHS TO 1 YEAR)”

Name of mother

Age

Maternal age
Registration OPD no
Order of pregnancy

Newborn details

Early preterm
Late preterm

Feeding History Breastfeed after hrs after birth

- Exclusive breastfeeding till
- Complementary feeding started at
- Amount of feed
- Consistency of feed
- Frequently of feeding
- Hygiene

What common complementary feeds?

- Rice and dal (mashed)
- Mashed roti / bread
- Biscuit mixed / in milk
- Soji
- Dal pani
- Dalia
- Kheer
- Fruits

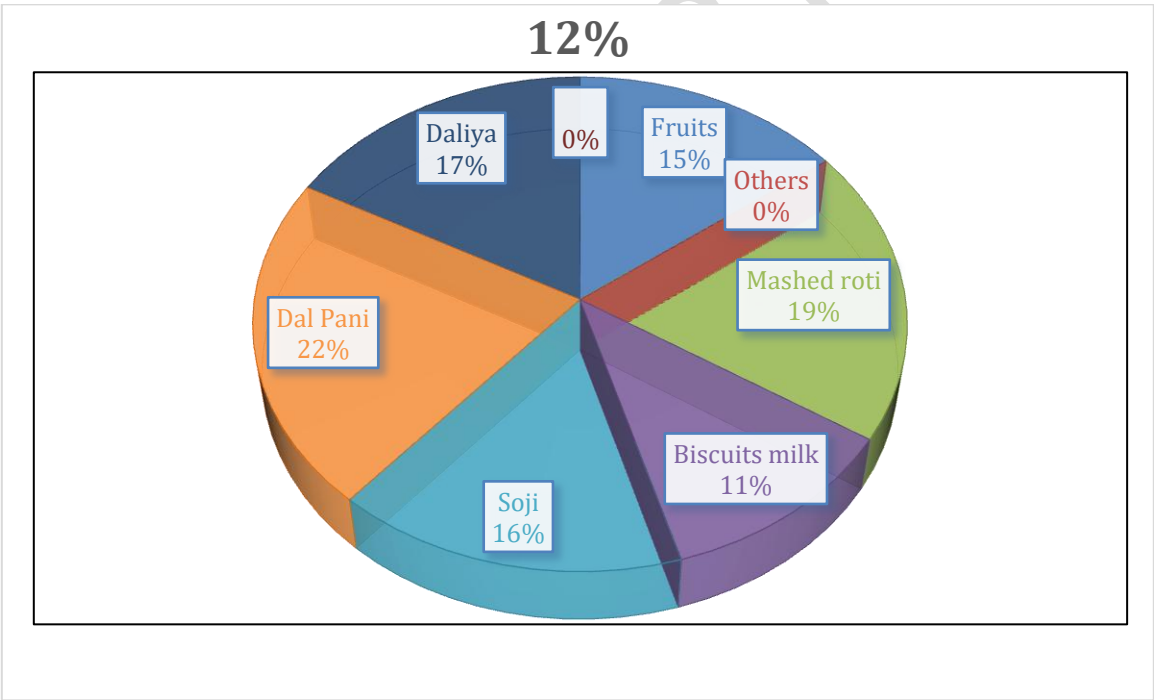


Figure 1. showing various complementary food practices.

DISTRIBUTION OF PARTICIPANTS BASED ON COMMON COMPLEMENTARY FEEDS

TABLE: 1

Common Compl feeds	NO	%
Rice and dal (Mashed)	15	50
Mashed roti / bread	18	60
Biscuit mixed in milk	10	33.33
Soji	14	46.66
Dal pani	20	66.66
Dalia	16	53.33
Kheer	12	40
Fruits	14	46.66
Others	2	6.66

RESULT: The common complementary feeding practice in rural area in 6 months to 1 year of age Dal pani (66.66%) followed by mashed roti / bread (60%). Mothers also feed Dalia (53.33%). The study is carried out in 30 participants and percentage is recorded accordingly. A majority of mothers gave combination of more than two.

DISTRIBUTION OF PARTICIPANTS BASED ON NUMBER OF MEALS A DAY

TABLE: 2

No of meals a day	No	%
2	10	33.33
3	11	36.66
4	9	30

: The study recorded that (36.66%) of participants give 3 meals a day followed by two meals (33.33%) and furthermore 4 meal (30%).

DISTRIBUTION OF WEANING PRACTICES BEFORE AND AFTER SIX MONTHS

TABLE: 3

Weaning practices	No	%
Before six months	13	43.33
Till six months	9	30
After six months	8	26.66

: The study has noted that around 43.33% of participants starts weaning before 6 months of age stating any (30% in the study group has of participants) exclusive breastfeed till 6 months whereas (26.66% started weaning practice after 6 months of age).

DISCUSSION

In this study the mean age of child being (6months to 1year).As many as 30 participants were studied.Out of which 43.33% of participants started weaning before 6months of age, the reason being that mothers felt breastmilk did not meet the needs of the child .Only 30% exclusively breastfed .Sandhya Javalkar and aras in a study done on 2018 found that 73% mothers started weaning before 6 months of age. They found out 69.3% mothers in rural areas started complementary feeds at the age of 6 months.⁽³⁾The most common feeds being combination of rice and dal. This study tells about the most common food being Dal pani (66.66%) which is thin in consistency without ghee. Out of 100% only 46.66% gives fruits. Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽⁴⁾ Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment.Prerna Singhal, Seema jain , S K Garg, Harivansh Chopra in a study done on 2015 in Bangladesh found that complementary feeding was introduced before 6 months in one third babies and the amount was inadequate in same number of children.⁽⁴⁾The no of meals per day varied from child to child .It is also dependent on the socio-economic status of the family .The study recorded 36.66% participants giving 3 meals a day followed by 33.33% giving 2 meals a day .Only 30% of participants gives 4 meals a day .This has been observed that no of meals were dependent on the affordability and availability.⁽⁴⁾The study included participants only from rural area with child's age between (6months to 1 year).The food measured was not of exact quantity and-hence can be subjected to bias. The nutritional requirement of different age and sex are formulated depending on anthropometry body composition climate & environment that is termed as recommended dietary allowances.⁽⁴⁾Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight. Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment. recommended dietary allowances. Adults have little less requirements of nutrients than infants and children for their building growth.⁽⁵⁾The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight. Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment.⁽⁶⁾

LIMITATIONS The study included participants only from rural area with child's age between (6months to 1 year).The food measured was not of exact quantity and-hence can be subjected to bias.⁽⁷⁾

CONCLUSION

Complementary food practice refers to food that is given along with breastmilk so as to ensure proper nourishment of the child hence the growth and development.It should be a balanced diet including proper proteins,⁽⁷⁾energy, nutrients .Many factors like lack of education to the pregnant mother , The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽⁸⁾ Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment.⁽⁹⁾family member's advice ,socio-economic status ,locality ,cultural beliefs has hampered the correct feeding practices.The study observed poor complementary feeding practice with moderate feeding frequency.⁽¹⁰⁾Education camp should counsel not only the mothers but also other family members and do's and don'ts should be discussed.ASHA ,ANM ,Health care workers ,doctors can also contribute for the same. The nutritional requirement of different age and sex are formulated depending on anthropometry body composition climate & environment that is termed as recommended dietary allowances. Adults have little less requirements of nutrients than infants and children for their building growth.⁽¹⁰⁾The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight. Weaning feeding stars from 6 months of age.⁽¹¹⁾It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment. Complementary food practice refers to food that is given along with breastmilk so as to ensure proper nourishment of the child hence the growth and development.⁽¹²⁾It should be a balanced diet including proper proteins, energy, nutrients .Many factors like lack of education to the pregnant mother , The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽¹²⁾Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family. recommended dietary allowances.⁽¹²⁾Adults have little less requirements of nutrients than infants and children for their building growth. The proper amount of nutrients in infants & children promote and support their rapid rate of growth while adults need nutrients to maintain the function and constant body weight.⁽¹³⁾Weaning feeding stars from 6 months of age.It should be nutritionally adequate and safe ,nutrients need the feed should be appropriate, however there are same problem faced by the mother or family, when the child is on compile feeding it often leads to problem body composition , climate and environment. recommended dietary allowances.⁽¹³⁾Adults have little less requirements of nutrients than infants and children for their building growth.⁽¹⁴⁾The proper

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