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## TO STUDY AWARENESS, APPROACH AND COMPLIANCE OF MOTHERS WITH UNDER 5 AGE CHILDREN ABOUT IMMUNIZATION

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#### **ABSTRACT**

**Introduction:** Vaccines are one of most successful health interventions that bring about significant reduction in infectious diseases and adverse health consequences. In India, The Expanded Program on Immunization (EPI) was launched in 1978 and it was re-designated as the Universal Immunization program (UIP) in 1985, with a goal to cover at least 85% of infants. In India 7.4 million children are not immunized. Study aimed to determine the knowledge, attitude and practice of mothers with under five children about immunization.

Aim- to study and create awareness and compliance amongst mothers towards vaccination Objectives-

To establish faith in parents about vaccination

To create awareness of benefits of vaccination

To provide information about side effects of vaccination

**Material and methods:** Research was conducted to determine the knowledge attitude and practice of mothers with underfive children about immunization. A cross sectional study was conducted among mothers having children aged more than two and half years in the opd area of hind institute of medical science, ataria, sitapur, up.

Data was collected using a pre-tested semi structured questionnaire from 350 mothers during a period of two months.

Among the study participants (94) 26% were from urban area and (256) 74% were from rural area. Mothers were the main decision makers regarding vaccination of the child in both urban and rural areas.

**Results:** Majority 91% supported vaccination. Majority 90% of the mothers in both the urban and rural areas believed that vaccines were protective. In the study it was seen that 84% of the mothers had vaccinated their children as per vaccination card and the rest of the mothers were not up to date with vaccinating their children. Only 43% of the mothers were aware of the side effects and 32% knew about contraindications. In this study it was found that 32% of the mothers believed that vaccination could be done even if the child had fever.

**Conclusion**: In the study the reasons stated by the mothers for not fully vaccinating the child were because of the side effects 44%, difficulty in reaching the center 28% and long crowds 19%. According to our study, majority of the mothers were supportive of immunizing their children but unaware of their contraindications and side effects.

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## **INTRODUCTION**

Vaccines are one of the most successful health interventions that bring about significant reductions in infectious diseases and adverse health consequences and improve quality of life in the population. Over the years vaccines have provided highly cost effective improvements to human health by reducing avoidable human suffering, costs of care and treatment, economic consequences of work i.e. lower productivity and loss of work. More and more diseases are becoming vaccine preventable: including those for prominent killers like pneumonia and diarrhea.

Immunization is a highly cost effective way of improving child survival in developing countries. However, in the past few decades immunization coverage rates have improved sufficiently in developed countries whereas most developing countries are still struggling with low rates. India has one of the largest immunization program in the world but diseases like Maternal and Neonatal Tetanus (MNT) has alone led to 58,000 newborn deaths in 2010 and a significant number of women also die due to maternal tetanus every year. Infant Mortality Rate (IMR) is considered as one of the most sensitive indicators of health status of a community. Infant mortality figures in India are very high and the two important causes which contributes maximum to the IMR is inadequate

breastfeeding and immunization. Despite India being a leading producer of vaccines, it harbors on-third of the world's unimmunized children. Only four diseases – respiratory infections, diarrheal diseases, other infectious and parasitic diseases and malaria – account for about half of under-five deaths in India.

The current scenario depicts that immunization coverage has been steadily increasing but the average level remains far less than desired. Still only 44 percent of the infants are fully immunized (NFHS-III) which is much less than the desired goal of achieving 85 percent coverage. In India, under Universal Immunization Program (UIP) vaccines for six vaccine-preventable diseases (tuberculosis, diphtheria, pertussis (whooping cough), tetanus, poliomyelitis, and measles) are available for free of cost to all. UIP was launched in 1985 with much dynamism to attain the target to immunize all eligible children by 1990

The National Family Health Survey (NFHS)-3 reported that 57.6% of urban infants were fully vaccinated compared tovaccinated was 5.7% in rural areas compared to 3.3% in urban areas. The urban-rural gap existed for all individual vaccines, although the gap was lowest with the 3 doses of OPV. The UNICEF 2009-10 survey recorded complete vaccination in 58.5% rural infants compared to 67.4% urban infants; the respective unvaccinated infants were 8.5% and 5.2%. The National Family Health Survey-3 reports that only 43.5% of children in India receive all of their primary vaccines by 12 months of age. Five main reasons identified for poor coverage includes inadequacy of community participation in routine immunization and information education and communication activities. Negative parental perceptions of vaccinations are also an important barrier to childhood vaccination.

The mother plays a major role in promoting the health of children. Several misconceptions, ignorance and inadequacy of knowledge in relation to vaccine is prevalent among mothers especially under five children it is important to understand the variables that influence parental decisions to vaccinate their children and plan measures to overcome these barriers. A way to measure these variables, beliefs and behavior of parents is to conduct a knowledge study. With this outlook, this study was planned to assess the knowledge of mothers with children under five years of age about vaccination.

## Aims and Objectives

**Aim-** to study and create awareness and compliance amongst mothers towards vaccination

#### **Objectives**

- To establish faith in parents about vaccination
- To create awareness of benefits of vaccination
- To provide information about side effects of vaccination

#### MATERIAL AND METHODS

A cross-sectional study was conducted.

The study was conducted in the opd room and vaccination centre of Department of pediatrics (hind institute of medical science, ataria, sitapur, uttar pradesh).

Study population targeted was mothers having children of age more than 2.5 to 3 years. 350 mothers were interviewed, out of which 74 were urban areas and 246 were from rural areas.

Duration of study was from 1st of February 2019 – 30th of March 2019 (2 months). Sample size was 350

For collecting Data a pre tested semi structures questionnaire was used. A questionnaire to collect data on mother's knowledge, attitude and practice regarding childhood vaccination was designed based on the previous literature. The questionnaire was in hindi and was scrutinized by the department of pediatrics, hind institute of medical science.

The questionnaire consisted of 12 questions pertaining to all the three concerned areas, i.e. mother's knowledge, attitude and practices regarding childhoodmothers with under five children about immunization

## **RESULTS**

Support Vaccination	Frequency	Percentage
Yes	346	99
No	4	1

Table 1

Source of information	Frequency	Percentage
Immunization card	196	56
Immunization provider	129	36
Newspaper/magazine	9	3
Friends/Family	19	5

Table 2

Side effects	Frequency	Percentage
Yes	150	43.1
No	200	56.9

Table 3

Center	Number	Percentage
Government	326	93.2
Private	24	6.8

Table 4

Frequency	Percentage
326	93
24	7
	326

Table 5

Vaccination	Frequency	Percentage
Yes	115	32.1
No	235	67.9

Table 6

Response	Frequency	Percentage
Yes	80	22
No	270	78

Table 7

Special immunization programs	Frequency	Percentage
Yes	278	79
No	72	21

Table 8

Vaccination up to date	Frequency	Percentage
All	324	93
Some	22	6
None	4	1

## **DISCUSSION**

This study describes knowledge and attitudes towards childhood immunization by mothers living in the area of sitapur and nearby districts. According to our study, mother's awareness regarding vaccines against major diseases were,

OPV 100%, BCG 94%, Hepatitis B 67%, Measles 60%, Tetanus 54% and others 41%. According to a study done by Rachna Kapoor *et. al* at Ahmedabad awareness as found to be OPV 85%, BCG 35%, Hepatitis B 15%, Measles 40%, Tetanus 45% and others 30%. This indicates a better awareness among mothers, possibly due to better campaigning and educational programs.

Majority (99%) of the mothers supported vaccination, the major reason being protection of their children against diseases. According to a study conducted by Bhola Nath *et al.* in Bijapur, Karnataka, majority of the respondents (65.16%) opined that they support vaccinations to protect their children from diseases.

Bhola Nath *et al.* in Bijapur concluded that auxiliary nurse midwives (ANMs), paramedical workers were found to be the major (34.19%) sources of information for the mothers.

The findings indicate the major source of information to be immunization cards (56%). Similar findings were seen in studies done by MC Singh *et al.* from Pondicherry, and N Gulati *et al.* from Delhi, who found that the health workers and health personnel were the major sources of information regarding immunization. In contrast, a study done by Jose, Jisy *et al.* from Yenepoya University, Mangalore suggested that the television was the major (36.75%) source of information.

This study indicates that majority (93%) of the mothers prefer to go to a government center to get their children vaccinated. Similar findings (78.71%) were found in the study done by Bhola Nath *et al.* in Bijapur.

This study also indicates that the majority (68%) of the mothers believe that their children should not be vaccinated when they have fever. In contrast, according to a study done by Singh, MC *et al.* from Pondicherry, only 24% of the mothers considered fever to be a contraindication for vaccination.

Many studies in low-income counties have also demonstrated that, particularly in rural areas, long travel distance to vaccination points can be a barrier to immunization uptake. Our study shows that 47% mothers claimed that previous day reminders helped them to keep their children vaccinated up to date while 13% asked for better transport facility. Mobile phone access has been increasing dramatically in rural areas of developing counties such as this over the past decade, and mobile phone-based interventions for improving vaccination coverage in populations at risk for under-vaccination are quickly becoming more feasible and efficacious. This studies indicates that 78% mothers are unaware of the immunization notification program by SMS, launched by the govt. of India. According to this study, 93% children were fully immunized, 6% were partially immunized and 1% was unimmunized, 62.58% were partially immunized and 2.58% unimmunized.

#### **CONCLUSION**

Parents are one of the most important sources of immunization information. Their immunization knowledge needs to be strengthened. According to the findings, majority were supportive of vaccinating their children but were unaware of the side-effects. Majority were unaware of the immunization notification program by SMS launched by the govt. of India. In conclusion, the entire population should be targeted and educational programs promoting child vaccination (especially newer vaccines such as hepatitis B, influenza), parental motivation, accessibility and follow-up should be instituted. Digital media should be used as a tool to promoto vaccination awareness in parents

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