Determiners of the low vaccinal cover of the children from 12 to 23 months in the sanitary area of Diapé in 2017, Côte d'Ivoire

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INTRODUCTION

The morbidity and the infanto-young mortality due to the avoidable diseases by the vaccination remains a problem of public health in Côte d'Ivoire. According to the WHO, the only way to reduce the scale of these diseases is to increase the cover of vaccines of the Expanded Programme of Immunization (EPI). In spite of considerable efforts , on a national and international scale, a significant proportion of children are unvaccinated. In the sanitary area of Diapé, the vaccinal cover has never reached 90 % during these last three years. This study aimed at identifying factors associated to the vaccination of the children from 12 to 23 months in this sanitary area.

METHOD

We conducted a cross-sectional study from the 15th to the 27th of August 2017 in the villages of Diapé health area. Our study population consisted of children aged from 12 to 23 months and their mothers selected using a random WHO cluster sample (30 clusters of 7 children). The data were collected using a standardized questionnaire administered face-to-face in households.

RESULTS

A total of 210 mothers of children were included in the survey. Mothers' average age was 26 years $\pm$ 2.3 years and 32.4% had no grade level. Immunization coverage of all EPI antigens in children aged from 12 to 23 months was 74.3%, of which 35.8% received the full schedule on time.

Factors of low immunization coverage	OR	95% CI
Animist mother religion	5.8	[2.2-14.9]
Low knowledge of EPI target diseases	6.1	[1.8-20.8]
Ignorance of the age of the last vaccine	12.8	[5.2-31.7]
Poor quality of services	7.2	[3.7-13.9]

CONCLUSION

There is a need to strengthen maternal awareness-raising activities on the immunization schedule and the benefits of immunization with the participation of community and religious leaders.

Key words: vaccine coverage, children, Expanded Program on Immunization, Diapé

Figure 1 : reasons for abandoning appointments of vaccination.