The diagnosis of measles was confirmed by the ELISA (IgM) and PCR. The specific IgG antibodies were detected using the Anti-Measles Viruses ELISA (IgG) test system, Euroimmun (Germany).

In the study the seronegatives among the pregnant women consisted 31.0%, and among the parturient women 34.8%. In blood serum of the newborns IgG were detected in 21 patients (72.4%). Taking into account that among the examined persons were 22 mother–child couples, it was possible to confirm the presence of maternal immunity. Thus, in the sera of infants IgG antibodies were not detected and their mothers were also seronegative. At the same time in the sera of the other 16 infants from the seropositive mothers IgG antibodies were detected. The IgG titers varied from 0.2 to 3.0 IU/ml the mean value consisted (0.70±0.45) IU/mL for infants and (0.60±0.35) IU/mL for their mothers.

The data obtained show that in case of the risk of spreading the measles infection and deciding whether to perform a procedure for determining the specific IgG in the newborn’s sera, it is more appropriate to carry out a serological examination of the parturient women due to the identity of the content of measles antibodies in the sera of infants and their mothers.

The purpose of this paper was to describe the epidemiological profile of measles cases during the epidemic in 2016 and 2017. And also to study the results of the evaluation and the survey of immunization coverage in the framework of measles vaccination.

With the method of descriptive analysis, we developed a basic early warning system, a laboratory database and a national response plan.

In 2016 (from 27 to 52 weeks of the year), 1304 suspected cases of measles were recorded, of which the blood was collected from 382 patients, which was 29.3%. Of these, 379 (99, 2%) were admitted to the laboratory, among them 193 (50.9%) were positive (IgM+ = 189, indeterminate = 4).

In 2017 (from 1 to 9 weeks), 2,133 suspected cases of measles were recorded, blood was withdrawn from 549 patients (25.73%). The laboratory received 443 samples (80.69) and 163 (36.8%) were positive. Confirmed cases of measles continue to be recorded, despite the ongoing vaccination and campaign to fight the disease in the outbreaks. This epidemic affected 17 prefectures in the country from 38. 73% of children is under the age of 5. There is no difference between the sexes (F = 50%, M = 50%). Coverage of vaccinations is 21 and 44%, respectively, in cases of confirmation and without measles, with a total vaccination coverage of 35%. 40% of cases of unconfirmed measles have IgM+ to rubella. Mortality is low due to lack of information. Determining the cause of the persistence of measles will help to stop the epidemic.

Epidemiological analysis of measles outbreak in Guinea 2017–2018

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With the end of the largest ever known epidemic outbreak of Ebola in Guinea, since the beginning of 2016, comprehensive disease surveillance and response are under way. The five most common diseases, chosen according to their frequency in recent years, are monitored. These are viral hemorrhagic fevers, including Ebola and Yellow fever, cholera, meningitis, measles and polio-myelitis. Monitoring cases of measles shows that since the beginning of 2016 and despite the response organized in February 2016, confirmed cases are still being registered, and this occurs in several health districts.

The purpose of this paper was to describe the epidemiological profile of measles cases during the epidemic in 2016 and 2017. And also to study the results of the evaluation and the survey of immunization coverage in the framework of measles vaccination.

With the method of descriptive analysis, we developed a basic early warning system, a laboratory database and a national response plan.

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Assessment of the risk of measles infection in pregnant women, parturient women and newborns, as well as the need for serological examination of newborns aimed at the following anti-epidemic measures became possible with the introduction of infection in the hospital (maternity hospital). A total of 104 patients were examined in the laboratory. Blood serum was obtained from pregnant women (29), parturient women (46) and newborns (29) on the 2nd day when the measles case in the obstetric ward was revealed. The diagnosis of measles was confirmed by the ELISA (IgM) and PCR. The specific IgG antibodies were detected using the Anti-Measles Viruses ELISA (IgG) test system, Euroimmun (Germany).

In the study the seronegatives among the pregnant women consisted 31.0%, and among the parturient women 34.8%. In blood serum of the newborns IgG were detected in 21 patients (72.4%). Taking into account that among the examined persons were 22 mother–child couples, it was possible to confirm the presence of maternal immunity. Thus, in the sera of 6 infants IgG antibodies were not detected and their mothers were also seronegative. At the same time in the sera of the other 16 infants from the seropositive mothers IgG antibodies were detected. The IgG titers varied from 0.2 to 3.0 IU/ml the mean value consisted (0.70±0.45) IU/mL for infants and (0.60±0.35) IU/mL for their mothers.

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