VACCINATION COVERAGE BEFORE AND AFTER INTRODUCING POLYVALENT VACCINES IN BITOLA

Domnika Rajchanovska¹, T.Jovanovska¹, V.P.Stojchevska¹, G.R.Dimitrovska¹, I.Filov¹, I.Timovski², M.Timovska³

¹University "St. Kliment Ohridski" - Higher Medical School, Bitola, Republic of Macedonia.

²PHO "Dr. Angelovska - Dr. Timovski", Skopje, Republic of Macedonia.

³PRD Skopje, Republic of Macedonia.

Introduction

- Active immunization in our country is compulsory against tuberculosis, diphtheria, tetanus, pertussis, poliomyelitis, measles, parotids (mumps), rubeolla, hepatitis B and hemophilus influenza tip B.
- Polyvalent vaccine, hexavalent and pentavalent, was implemented for the first time in august 2015.

Objectives

The aim of the study is to evaluate the vaccination coverage of preschool children before and after introducing polyvalent vaccine in Municipality of Bitola.

Materials and methods

- The survey was conducted in the Office for preventive health care of preschool children in Bitola.
- In retrospective epidemiological study, vaccination data for the period from 2011 to 2017 was analyzed.

Results

98.24 - 99.46% of children were vaccinated with HB vaccine.

Vaccine against HiB in Macedonia was introduced in September 2008. Primary vaccination covered 91.53 - 98.00% and revaccination covered 89.7 - 96.71% of children.

With primo vaccine DTP (three doses) 91.11 - 99.44% of children were vaccinated, first revaccination covered 98.53 - 99.44%, and the second revaccination 93.34 - 98.66% (since 2016 this vaccine is not mandatory).

Primo vaccine OPV coverage rate is from 91.11 to 99.44%, and revaccination coverage rate is 98.53-99.44% of the children.

With vaccine against MMR, 98.97 - 100% of children were vaccinated.

Conclusion

- In Macedonia the implementation of multivalent vaccines was successfully launched.
- The results of the study showed that the downward trend of vaccination coverage in recent years in Bitola decreased due to the introduction of polyvalent vaccines.
- Side effects of the vaccine are minimal, the benefits for the parents are reduced number of visits to the doctor, less stressful conditions and increased vaccination coverage.