

## Summary

The bachelor work is focused on diagnosis and treatment infections, which are caused by *Chlamydia bacteria* and *Chlamydophila bacteria* important in human medicine. It is *Chlamydia trachomatis* a common caused of sexually transmitted infections and *Chlamydophila pneumoniae* beggetter of pneumonia.

In the theoretical part of the work present morfology, biology findings and antigen set of different types of chlamydia bacteria are summarized. It is payed attention to life cycle, pathogenicity and immunity system reaction. It is hard to recognize these infections because of different clinical manifestations and covering them in other diseases. Physician awareness in this problem and laboratory diagnosis is still limited. Therefor, the course of the disease is complicated, it can usually contribute to the chronicity and cause to serious impact as woman infertility. The aim of this work is also description and treatment options of most common infections.

In the practical part of this work existing laboratory methods are described. Patient resultes of chlamydia infections, which were done in Central Laboratory SZZ Krnov during 2.1.2008 – 24.2.2010 , there are also presented.