

ABSTRACT

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Title of diploma thesis: Current pharmacotherapy for HIV infection and AIDS: overview

This thesis provides a comprehensive overview of the current pharmacotherapy of Human Immunodeficiency Virus (HIV) infection and Acquired Immunodeficiency Syndrome (AIDS). It describes the HIV infection, its pathogenesis, historical development, diagnostic methods, and epidemiology. A major part of the work is devoted to current antiretroviral therapy (ART), which is the main pillar in the treatment of HIV. The various classes of antiretroviral drugs are described in detail, including their mechanisms of action, side effects, contraindications, and drug interactions. Combination therapy, the mainstay of treatment, is also discussed. Furthermore, the thesis focuses on therapeutic approaches and drugs in the research phase. The aim is to provide an overview of the evolution of HIV and AIDS pharmacotherapy and to identify the main challenges and directions for future research.

Key words: HIV, AIDS, antiretroviral therapy