

## Abstract

The aim of this bachelors thesis is to summarize the consequences of using opioid substances on a developing organism. This work contains the issues of using illicit drugs heroin and morphine as well as using opioid analgetics and replacement medication during the Opioid Maintenance Treatment, such as buprenorphine or methadon. Examined topics are the characteristics of opioid substances, their metabolism and processes by which they affect the organism. In the following parts the thesis describes specific developmental defects, that can be found as a consequence of using opioids.