This diploma work is focused on post-surgical pain. It lays out the role of a nurse in pain assessment, factors influencing post-surgical pain and ways of its controlling. It also publishes the results of the research organized in the surgical fields of the Central Military Hospital Prague in January and February 2006. The work is structured into two large parts, theoretical and empirical one. The diploma work underlines the importance of the team cooperation of all those who participate in pain management and in individualized complex nursing care for a patient in the past-surgical time period.