

The diploma thesis examines biomedicine bibliographic databases MEDLINE and PubMed, both developed, maintained and provided by the U. S. National Library of Medicine (NLM). A general goal of this thesis is offering answers to the question of historical and current importance of these resources. Text deals with a historical context of databases formation and their reflection in Czechoslovakian and Czech scientific community, what is also supported by qualitative research conducted as part of the thesis. Main part of the thesis deals with comprehensive analysis of the databases within environment formed by the NLM; analysis of systems components and PubMed graphic user interface and its query language. The thesis also presents issues of accessing databases content through third parties alternative platforms or interfaces built upon E-Utilities API. In the end, thesis offers ideas on probable development of MEDLINE and PubMed databases in the near and distant future.