

ABSTRACT

Nejedly, J.: Nutraceuticals 5. Compounds usable as an adjuvant in the treatment of Alzheimer's disease. Diploma thesis, Charles University in Prague, Faculty of Pharmacy in Hradec Kralove, Department of Pharmaceutical Botany and Ecology, Hradec Kralove 2014, 102 p.

This literature review, dealing with the pathophysiology of Alzheimer's disease and possible use of nutraceutical products as an adjuvant in the therapy of the disease, has been done by analysis of foreign and domestic literature.

In the chapter Alzheimer's disease, various pathological processes, leading to the development of the disease and also risk factors, clinical picture and a brief indications of currently used treatment, were introduced.

The main part of thesis called Nutraceuticals has introduced a comprehensive overview and categorization of compounds (plant extracts) which can be used in influencing of Alzheimer's disease by the mechanism of action. In the chapter Nutraceuticals in Czech Republic, various product and supplements were listed, which are available on the market in Czech Republic and could be used as an adjuvant in the therapy of Alzheimer's disease.

Finally, it was shown the evaluation (pros, cons, potential interaction) of substances and supplements, which have been state in the thesis, with a proposal for their usability. It was confirmed that nutraceuticals have an important role as an adjuvant in the therapy of Alzheimer's disease.

Key words: plant metabolites, Alzheimer's disease, adjuvant use, prospective sources