ABSTRACT

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Title: Available alternatives to pharmacological and non-pharmacological non-invasive

treatment of low-back pain

Form: Master Thesis

Name of University: Charles University in Prague, Faculty of Pharmacy in Hradec

Králové

Degree: Pharmacy

Background: The main objective of the thesis was to compile a list of available

pharmacological and non-pharmacological alternative non-invasive treatment of low-

-back pain.

Main findings: Low-back pain is a major health problem in all developed countries and

it is considered to be the most painful condition. The diagnostic and therapeutic

management of acute as well as chronic low-back pain seems to vary substantially

among general practitioners, medical specialist and physical therapists. It is necessary

to differ from the management of acute and chronic conditions. There is consensus

that paracetamol is preferred as the first choice medication for low-back pain,

nonsteroidal anti-inflammatory drugs are the second choice; there is some variation in

recommendation of muscle relaxants, weak opioids and adjuvant analgesics. Although

physical therapy is often indicated, there is no evidence for the effectiveness. Despite

of scientific evidence, there is insufficient emphasis on the exercise therapy focused on

the strengthening of the deep stabilizing system of the spine in patients with chronic

low-back pain.

Conclusions: Although many trials regarding the effectiveness of management of the

low-back pain have been published, there is still place for more future evidence-based

studies.

Key words: low-back pain, deep stabilizing system, exercise therapy, pharmaco-

therapy.