Over the past 10 years, the number of prescriptions written for opioid, or narcotic, medications has risen steadily (Centers for Disease Control and Prevention, 2011). This has led to an over threefold increase in fatal overdoses and an epidemic of people addicted to these powerful prescription pain relievers (Centers for Disease Control and Prevention, 2011). Opiate pain medications, such as oxycodone and hydrocodone, are generally not recommended to treat mild-to-moderate chronic low back pain (CLBP). They may be prescribed if other therapies do not give sufficient pain relief (Bogduk, 2004; Chou & Huffman, 2007a). This is the last in a series of four fact sheets on ways to cope with CLBP without using opioid pain relievers. The first fact sheet explains the causes of CLBP and some proven approaches for treatment that do not require taking opiate pain medications. The second fact sheet describes self-management methods to reduce pain. The third fact sheet describes the method of acupuncture as a possible way to relieve CLBP.

This fact sheet summarizes the results of recent literature reviews on the usefulness of some commonly used approaches to reduce the discomfort caused by CLBP: cognitive-behavior therapy (CBT), spinal manipulation therapy (SMT), exercise, massage, and other nonmedication treatments.

### Cognitive Behavioral Therapy (CBT)

A person’s response to psychosocial stressors and his or her thoughts and beliefs about pain can affect his or her CLBP symptoms. CBT focuses on patterns of beliefs, attitudes, and values that influence thinking. CBT helps people understand how their responses to life’s stressors can make pain better or worse. The CBT therapist teaches specific skills that people can use to cope with pain. Practicing these skills can help people change their thinking patterns, which affects their perception of, and response to, pain. There is good evidence that CBT is moderately effective for CLBP (Chou & Huffman, 2007b; Schonstein et al., 2003).

### Spinal Manipulation Therapy (SMT)

SMT aims to adjust the spine and move the vertebrae into alignment using direct force. Adjustments can involve twisting, pulling, or pushing on the back. The movements are thought to loosen and move spinal bones into a better position and thereby reduce or eliminate pain. These manipulations can be carried out by a chiropractor, osteopathic doctor, physiatrist, or physical therapist. Therapy is typically provided in a limited number of treatment sessions. In controlled studies, SMT has produced small-to-moderate clinical benefits (Harvey, Burton, Moffett, & Breen, 2003). There is no overwhelming evidence that SMT is either superior or inferior to other effective treatments for relieving pain and improving function in patients with CLBP (Assendelft et al., 2003; Barclay, 2011; Rubinstein et al., 2011).
Exercise therapy, including physical therapy and recommended exercises, also has fair-to-good evidence supporting its usefulness in treating CLBP (Nutter, 1988). This includes individualized plans, supervised exercise, stretching, and muscle-strengthening therapy (Nelson et al., 1999). Viniyoga has been found to be slightly superior to conventional exercise in one higher-quality study (Sherman et al., 2005).

Massage
Therapeutic massage also is a useful option that helps some people and may be an important part of a treatment package for CLBP. Massage that was done by a trained massage therapist has been shown to be more effective in trials than massage done by an untrained massage therapist (Chou & Huffman, 2007b). There is fair evidence that massage of various types can improve CLBP (Cherkin et al., 2011). This recommendation is based on a small number of studies.

Other Therapies
Although transcutaneous electrical nerve stimulation exists for the treatment of pain, intermittent or continuous traction has not been proven effective for CLBP (Wright, 2012; Jeffrey, 2009). Insufficient evidence exists to recommend interferential therapy, low-level laser, shortwave diathermy, or ultrasound for CLBP (Chou et al., 2007).

Often the best way to manage CLBP is to use several therapies at once under the guidance of a skilled and specialized team. This is called interdisciplinary rehabilitation. This team usually includes a physician, psychologist, physical therapist, social worker or vocational counselor, and sometimes other health care professionals.

As with other approaches, before seeking these therapies, it is important to work with a primary health care provider and other allied health professionals to develop an overall treatment plan. By working with a health care practitioner, a person can find the best combination of available therapies based on his or her individual needs.

Resources


This series of issue briefs was developed with funding from the Substance Abuse and Mental Health Services Administration (SAMHSA) through a contract (IDIQ Task Order No. HHSS283200700012I) to the Pacific Institute for Research and Evaluation (PIRE).