the proximal knee have shown efficacy in trials especially if used over several months.

Pain from the patellofemoral compartment of the knee can be caused by tilting of the patella or patellar malalignment with the patella riding laterally in the femoral trochlear groove. Using a patellar brace to realign the patella, or tape to pull the patella back into the trochlear sulcus or reduce its tilt, has been shown in controlled trials to lessen patellofemoral pain. However, patients may find it difficult to apply tape, and skin irritation from the tape is common, and like realigning braces, patellar braces may slip.

Although their effect on malalignment is questionable, neoprene sleeves pulled up to cover the knee lessen pain and are easy to use and popular among patients. The explanation for their therapeutic effect on pain is unclear.

In patients with knee OA, acupuncture produces modest pain relief compared to placebo needles and may be an adjunctive treatment, though placebo effect is likely high. In patients with refractory joint pain from OA, radiofrequency ablation of the nerves innervating the joint has been shown to provide prolonged pain relief, although long-term safety is unknown.

PHARMACOTHERAPY

Although approaches involving physical modalities constitute its mainstay, pharmacotherapy serves an important adjunctive role in OA treatment for symptom management. Available drugs are administered using oral, topical, and intraarticular routes. To date, there are no available drugs that alter the disease process itself.

Acetaminophen, Nonsteroidal Anti-Inflammatory Drugs (NSAIDs), and Cyclooxygenase-2 (COX-2) Inhibitors NSAIDs are the most popular drugs to treat osteoarthritic pain. They can be administered either topically or orally. In clinical trials, oral NSAIDs produce ~30% greater improvement in pain than high-dose acetaminophen. Occasional patients treated with NSAIDs experience dramatic pain relief, whereas others experience little improvement. Initially, NSAIDs should be administered topically or taken orally on an “as-needed” basis because side effects are less frequent with low intermittent doses. If occasional medication use is