rthopedic surgeon

Leading-Edge Knee Surgery

Kevin Stone, M.D., has seen the future of arthritis surgery, and it doesn't involve plastic or metal—the materials most commonly used in joint-repair surgery today. "The wave of the future is biologic knee replacement," says the San Francisco doc, "using the body's own tissues to restore healthy joints."

Stone has developed a

promising (if awkwardly word-

ed) procedure called articular cartilage paste grafting. Articular cartilage—the Teflon-like coating that gives joints their smooth, pain-free motionusually can't repair itself when it's injured. But Stone has found that thin or bare spots in the knee cartilage can be repaired by applying a paste made of healthy cartilage and bone tissue taken from the patient. In an arthroscopic procedure. the surgeon shaves down the

defective cartilage, then—using

a tiny awl-creates minuscule

bone. Next, the paste is applied

to the joint, and it grows to fill in

the defects in the cartilage. The

fractures in the underlying

viable option for people with advanced arthritis. Think of it as the equivalent of a tire retread: for patients who don't need a total joint replacement, the procedure—sometimes done in tandem with a boneshaving operation called an osteotomy-may offer a little more pain-free mileage on arthritic knees. One added benefit is that the technique doesn't prevent you from having a total joint replacement later, if needed, -K.G.

result: less bone-on-bone pain.

a slowing of joint deterioration.

Right now, cartilage repair is

and a delay of total joint-

in its infancy, and it's not a

replacement surgery.