

# Back pain?

Minimally invasive treatment for spine fractures.



## Vertebral Augmentation

A spine fracture—or vertebral compression fracture—occurs when one of the bones within the spinal column weakens and collapses. Spinal fractures can be a cause of great pain, and left untreated, can lead to more serious health problems and/or permanent deformity.

# WHAT CAUSES COMPRESSION FRACTURES?

Nearly one million vertebral compression fractures (VCF) are diagnosed each year in the U.S.; most are caused by osteoporosis. Osteoporosis decreases bone density, which makes bones more susceptible to VCF and other fractures. Women over 50 are at the greatest risk for osteoporosis, but so are men. Caucasian and Asian women are at higher risk than other ethnicities for osteoporosis and VCF.

#### Other risk factors include:

- Smoking
- Early menopause
- · Low body weight
- Some medications

Studies have shown that individuals with VCF are at higher risk for developing additional fractures, reduced lung function, pneumonia, blood clots, loss of bladder or bowel control, and loss of strength or mobility that contribute to decreased quality of life.<sup>1,2,3</sup>





### HOW DO I KNOW IF I HAVE A SPINE FRACTURE?

Only your doctor can properly diagnose a spine (vertebral compression) fracture with the assistance of diagnostic imaging like MRI or X-ray. However, some of the more common symptoms include:

- Back pain, and possibly additional pain in the hip, abdomen or thigh
- Numbness, tingling and weakness
- Loss of height/hunched appearance
- Difficulty breathing
- Urinary incontinence

#### If you are experiencing these symptoms, talk to your doctor.

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#### **TREATMENT**

Back braces, pain medication, and bed rest are traditional methods of treating VCF. However, these may take months to work and are not always effective. During this time the chances of other complications increase.

If conservative management isn't working, two minimally invasive treatments called vertebroplasty and kyphoplasty are available at Vascular & Interventional Specialists of America. Vertebroplasty repairs the fracture without open surgery, while kyphoplasty simultaneously repairs the fracture and restores height to the vertebrae, also without surgery. Both procedures provide near-immediate relief of pain and other symptoms.

## VERTEBROPLASTY PROCEDURE

Performed on an outpatient basis, vertebroplasty requires only local anesthesia to numb the injection site. During the procedure, the interventional radiologist uses fluoroscopy imaging to guide a needle into position within the fractured vertebra. A fast-drying medical grade cement is then injected into the bone to stabilize the fracture. The patient is kept under observation while the cement hardens but can return home 2-3 hours after the procedure. 90% of patients experience pain relief and improved mobility within 24 hours of vertebroplasty.<sup>4</sup>







**Cement Filled** 







**Balloon Inflated** 



**Cement Filled** 

#### KYPHOPLASTY PROCEDURE

Kyphoplasty (also called balloon kyphoplasty) is also performed on an outpatient basis. During the procedure, a special cannula is placed directly in the fractured vertebrae. A balloon is then inserted into the disc and inflated to correct the loss of height suffered during the fracture. The cavity made by the balloon is then filled with a fast-drying bone cement. The patient is able to return home the same day. The vast majority of patients have reported that kyphoplasty provides immediate pain relief and has improved their quality of life.<sup>5</sup>

## FAST, QUALITY RESULTS

At Vascular & Interventional Specialists of America, our patients experience significantly reduced pain and a very low complication rate. In fact, our complication rates are much lower than the national average for vertebroplasty procedures.

# VASCULAR & INTERVENTIONAL SPECIALISTS OF AMERICA

So much progress has been made over the last 20 years in the field of medicine. Diseases and other health conditions that once required open surgery are now effectively treated using minimally invasive techniques from inside the body. Instead of a multiple-day hospital stay, general anesthesia and a long, painful recovery, your health concerns are addressed during a short outpatient visit to our state-of-the-art treatment center.

We offer clinically proven, FDAapproved imaging-guided procedures to treat vascular disease, cancer, uterine fibroids, pelvic congestion syndrome, enlarged prostate, varicoceles, osteoarthritic knee pain, chronic hemorrhoids and more. For more information, or to schedule a consultation with one of our doctors, please call 205-905-8411.



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