

After eight years, similar outcomes with surgical or non-surgical treatment for spinal stenosis

January 9 2015

For patients with spinal stenosis, long-term outcomes are comparable with surgery or conservative treatment, reports a study in the January 15 issue of *Spine*.

While earlier reports suggested an advantage of surgery, the updated analysis finds no significant difference in pain, functioning, of disability at eight years' follow-up, report Dr Jon D. Lurie and colleagues of Dartmouth-Hitchcock Medical Center, Lebanon, N.H. The results—representing the largest and highest-quality study to date—provide new evidence on what patients can expect several years after deciding whether or not to have or not have surgery for spinal stenosis.

Better Initial Results with Spinal Stenosis Surgery...

The researchers analyzed data from the Spine Outcomes Research Trial (SPORT)—one of the largest clinical trials of surgery for spinal disorders. In SPORT, patients meeting strict criteria for spinal stenosis (or other common spinal diagnoses) were randomly assigned to surgery or <u>nonsurgical treatment</u> (such as physical therapy and medications). Patients with spinal stenosis have narrowing of the spinal canal, causing back pain, leg pain, and other symptoms.

Dr Lurie and colleagues analyzed 654 patients with spinal stenosis,



treated at 13 hospitals in 11 states. Of these, 289 were randomly assigned to surgical or nonsurgical treatment. By eight years' follow-up, surgery was performed in 70 percent of patients randomized to surgery as well as 52 percent of those initially assigned to nonsurgical treatment.

The remaining 365 patients, who declined to be randomized, were observed after choosing between the two options. Sixty percent of patients opted for surgery. Of those who initially chose nonsurgical treatment, 27 percent eventually had surgery.

Long-term follow-up data were available for more than 50 percent of patients in both studies. Outcomes were assessed in terms of pain, functioning, and disability.

...But Eight Years Later, Similar Outcomes with Either Treatment

In "as-treated" analysis of the randomized study, surgery provided better outcomes through four years. But with longer follow-up, the difference between treatments narrowed. From six to eight years, outcomes were not significantly different between surgical and nonsurgical treatment.

In contrast, in the observational study, the advantage of surgery remained stable from five to eight years. This may reflect greater differences in the initial characteristics of the two groups, Dr Lurie and coauthors believe.

Patients without available follow-up data were older, sicker, and had worse outcomes in the first two years, with either treatment. "The longterm outcomes are therefore likely to be somewhat over-optimistic on average in both groups," the researchers write, "but the comparison between surgical and non-operative outcomes appears likely to be un-



biased."

Both treatments were safe. Of all patients undergoing surgery, 18 percent had repeat surgery for recurrent spinal stenosis within eight years.

The results have important implications for discussing the expected longterm outcomes of treatment for spinal stenosis, Dr Lurie and coauthors believe. While surgery provides better outcomes for the first several years, the results of surgical and nonsurgical treatment appear to converge during longer-term follow-up.

While some groups of patients who initially opt for <u>surgery</u> may continue to do better over time, those who choose nonsurgical treatment can do quite well even out to eight years. The researchers note that, with either treatment, <u>patients</u> with <u>spinal stenosis</u> can expect to have some pain and reduced functioning, compared to people in the general population of similar age.

More information: "Long-term Outcomes of Lumbar Spinal Stenosis: Eight-Year Results of the Spine Patient Outcomes Research Trial (SPORT)." journals.lww.com/spinejournal/ ... =00002&type=Fulltext

Provided by Wolters Kluwer Health

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