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Lumbar Laminectomy

1 message

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Wed, Aug 2, 2023 at 8:28 PM

Lumbar Laminectomy

Lumbar laminectomy, also known as decompressive laminectomy, is a surgical procedure performed to treat lumbar spinal stenosis, a condition characterized by the narrowing of the spinal canal in the lower back. This narrowing can put pressure on the spinal cord or nerve roots, leading to pain, numbness, and weakness in the lower back, buttocks, and legs. Lumbar laminectomy is aimed at relieving this pressure and alleviating symptoms.

During a lumbar laminectomy, the surgeon removes a portion of the lamina, which is the bony arch that forms the posterior portion of the spinal canal. This removal creates more space within the spinal canal, reducing the compression on the spinal cord and nerve roots. Here are some key points about the procedure:

- 1. Indications:** Lumbar laminectomy is typically recommended when conservative treatments such as medication, physical therapy, and epidural injections fail to provide sufficient relief or if there are severe neurological deficits. It is particularly effective for treating lumbar spinal stenosis caused by bony overgrowth (bone spurs), ligament thickening, or a combination of these factors.
- 2. Surgical Procedure:** The surgery is typically performed under general anesthesia. The surgeon makes a small incision in the midline of the back over the affected spinal segments. The muscles are gently moved aside to expose the lamina. Using specialized instruments, the surgeon removes a portion or the entire lamina, along with any other structures contributing to the spinal stenosis, such as bone spurs or thickened ligaments. This creates more space for the spinal cord and nerve roots.
- 3. Additional Procedures:** In some cases, lumbar laminectomy may be combined with other surgical procedures to address specific conditions. For instance, if there is a significant instability in the spine, fusion surgery may be performed in conjunction with laminectomy. This involves the placement of bone grafts or implants to promote spinal stability. The decision to include additional procedures is based on the individual's specific condition and the surgeon's judgment.
- 4. Recovery and Rehabilitation:** After surgery, patients usually stay in the hospital for a few days to monitor their recovery. Physical therapy is a crucial part of the rehabilitation process, helping to restore strength, flexibility, and mobility. The recovery timeline can vary, but most patients can expect improvement in their symptoms within a few weeks to months following surgery, with a gradual return to normal activities.

It's important to note that lumbar laminectomy, like any surgical procedure, carries risks and potential complications. These include infection, bleeding, nerve injury, blood clots, and spinal fluid leaks, among others. Therefore, it's essential to have a thorough discussion with a spine specialist and carefully weigh the potential benefits against the risks before deciding on surgery.

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