Supplementary Material 1. List of sources for FAQs about lumbar disc herniation

1 Cleveland Clinic

- https://my.clevelandclinic.org/health/treatments/25168-spinal-fusion
 - 1 What is spinal fusion?
 - 2 What does spinal fusion treat?
 - 3 How should I prepare for spinal fusion surgery?
 - 4 What happens on the day of your spinal fusion?
 - 5 What happens during the spinal fusion?
 - 6 How long does spinal fusion surgery take?
 - 7 What happens after spinal fusion surgery?
 - 8 What are the benefits of spinal fusion surgery?
 - 9 What are the risks or complications of spinal fusion surgery?
- 10 What is the recovery time of spinal fusion surgery?
- 11 When should I call my healthcare provider?
- 12 How serious is spinal fusion surgery?
- 13 Can you live a normal life after spinal fusion?
- 14 How painful is a spinal fusion?
- 15 How many years does a spinal fusion last?

2 Ortho Bethesda

- https://www.orthobethesda.com/blog/spinal-fusion-surgery/
- 1 What is spinal fusion surgery?
- 2 What happens during spinal fusion surgery?
- 3 Why do surgeons perform spinal fusion surgery?
- 4 What conditions can spinal fusion surgery treat?
- 5 What are the pros and cons of spinal fusion surgery?
- 6 How painful is spinal fusion surgery?
- 7 How long does it take to recover from spinal fusion surgery?
- 8 What are the complications of spinal fusion surgery?
- 9 Can spinal fusion make your back stiff?
- 10 How can you cope with spinal fusion surgery?
- 11 How can nutrition aid in recovery from spinal fusion surgery?
- 12 What role does pain relief play post-surgery?
- 13 What accessories might be beneficial during recovery?
- 14 How can entertainment help during recovery?
- 15 Why is physical therapy recommended post-surgery?
- 16 How can emotional and physical support help in recovery?
- 17 Can spinal fusion surgery affect the brain?
- 18 How do opioids work for post-surgery pain relief?
- 19 What is opioid dependence and how can it develop after surgery?
- 20 How can someone recognize signs of opioid dependency?

3 Mayo Clinic

https://www.mayoclinic.org/tests-procedures/spinal-fusion/about/pac-20384523

- 1 Why is spinal fusion done?
- 2 What can spinal fusion be used to address?
- 3 What are the possible complications of spinal fusion?
- 4 How should you prepare for the surgery?

- 5 What can you expect during spinal fusion?
- 6 Where might the surgeon cut to get to the bones being fused?
- 7 Where do bone grafts come from?
- 8 What might surgeons use to help hold the bones together during fusion?
- 9 What should you expect after spinal fusion?
- 10 When should you contact your doctor post-surgery?
- How long does it typically take for the affected bones in your spine to heal and fuse together after 11 spinal fusion?
- 12 What might your doctor recommend post-surgery to keep your spine aligned?
- 13 How effective is spinal fusion in fixing broken bones or reshaping the spine?
- 14 Does spinal fusion prevent future back pain?
- 15 Why might the spine need more surgery in the future after spinal fusion?
- 16 What causes much of back pain?

4 Twin City Orthopedics

- https://tcomn.com/wp-content/uploads/2017/10/FAQs-Lumbar-Fusion.pdf
- 1 What does the surgery entail?
- 2 Will I need to stay overnight after surgery?
- 3 How long does the surgery take?
- 4 Are there risks involved in this surgery?
- 5 What is the follow-up protocol?
- 6 How long is the recovery after surgery?
- 7 Will I have any restrictions after surgery?
- 8 Will I need a brace after surgery?
- 9 How much pain will I have, and will I receive pain medications?
- 10 Do I need to take any other medications after surgery?
- 11 When can I start to drive after surgery?
- 12 How do I care for my surgical incision?
- 13 Do I need to do physical therapy after surgery?

Rolling Hills Medical

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- https://rollinghillsmedical.com/what-is-spinal-fusion-surgery-faq-recovery/
- 1 What is spinal fusion surgery?
- 2 How is spinal fusion surgery performed?
- 3 What conditions are treated by spinal fusion surgery?
- 4 How common is degenerative disc disease and how does it affect the spine?
- 5 What issues can arise from a fracture in the vertebral structures?
- 6 What is scoliosis and how can fusion surgery help?
- 7 How does spinal stenosis affect the spinal canal and when might fusion be required?
- 8 What is spondylolisthesis and how does it impact the spine?
- 9 What is the success rate of spinal fusion surgery?
- 10 Is spinal fusion painful?
- 11 How long does spinal fusion surgery typically take?
- 12 What are the potential risks associated with spinal fusion surgery?
- 13 How long is the recovery time for spinal fusion surgery?
- 14 What can patients expect during the recovery process after spinal fusion surgery?

6 Hospital for Special Surgery

https://www.hss.edu/condition-list_spinal-fusion.asp

- 1 What is spinal fusion surgery?
- 2 What conditions does spinal fusion surgery treat?
- 3 How does spinal fusion surgery work?
- 4 How long is a hospital stay after spinal fusion?
- 5 Will I be able to drive again after spinal fusion surgery?
- 6 How long does it take to walk after spinal fusion surgery?
- 7 How long is the recovery from spinal fusion surgery?
- 8 Are there permanent restrictions after spinal fusion surgery?
- 9 What are the risks or complications of spinal fusion?
- 10 What is the success rate of spinal fusion surgery?
- 11 What are the different types of fusion surgeries?
- How do ACDF Surgery, Instrumented Cervical Laminectomy, Lumbar Fusion, ALIF Surgery, PLIF
- 12 Surgery, and TLIF Surgery differ from each other?
- 13 What is the Anterolateral (Side) Approach in minimally invasive lower back surgery?
- 14 What are some frequently asked questions about lumbar disc herniations?
- 15 Are there any success stories related to spinal fusion surgery?

Neuromicrospine

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https://www.neuromicrospine.com/news/answers-all-your-faqs-about-spinal-fusion-surgery

- 1 What exactly is spinal fusion surgery?
- 2 Why might I need spinal fusion?
- 3 What conditions can spinal fusion surgery treat?
- 4 What are the alternatives to surgery?
- 5 How do I know if surgery is the right choice?
- 6 How should I prepare for surgery?
- 7 What happens during spinal fusion?
- 8 Which incisions might be made for different types of spinal fusion?
- 9 What minimally invasive techniques does NeuroMicroSpine use?
- 10 Will I lose flexibility after spinal fusion?
- 11 What is the recovery process like for spinal fusion?
- 12 How long might I need to stay in the hospital post-surgery?
- 13 What are the risks of spinal fusion?
- 14 Will spinal fusion prevent me from having back pain again?
- 15 How can I contact NeuroMicroSpine for more information or appointments?

MASS General

- 8 https://www.massgeneral.org/assets/mgh/pdf/orthopaedics/patient-guides/spine-surgery-patient-guide.pdf
 - 1 What is the recovery time after surgery?
 - 2 How long do I need to wear a bandage post-surgery?
 - 3 Should I use ice or heat for my incision and swelling?
 - 4 When can I shower and get the incision wet?
 - 5 How long will I be on pain medicine?
 - 6 What activities can I engage in after surgery?
 - 7 What exercises should I do post-surgery?
 - 8 Can I have sex after the surgery? If so, after how long?
 - 9 When can I drive post-surgery?
 - 10 When can I return to work after the surgery?

11	When can I travel post-surgery?
12	Will my spinal implants set off airport security machines?
13	How long should I take iron supplements after surgery?
14	What can I do about constipation after surgery?
15	Is it safe to drink alcohol post-surgery?
16	Is it normal to feel depressed after surgery?
17	When should I schedule my follow-up appointments with my surgeon?
18	When do my sutures come out?
19	Can I still have an MRI after getting a lumbar spine fusion?
20	Are there alternative treatments or surgeries to lumbar spine fusion?
9	ChatGPT-4 - most common questions about spine fusion surgery
9	https://chat.openai.com/
1	What is lumbar spine fusion surgery?
	Why do I need a lumbar spine fusion?
3	What conditions can be treated with lumbar spine fusion?
4	How is the surgery performed?
5	What are the risks associated with lumbar spine fusion?
6	How long is the recovery period?
7	Will I have a scar?
8	What kind of anesthesia will be used?
9	How long will I need to stay in the hospital?
10	What will my activity limitations be after the surgery?
11	Will I need physical therapy post-surgery?
12	How successful is lumbar spine fusion surgery?
	Will I still be able to bend and move normally after the fusion?
14	What is the difference between minimally invasive and traditional open spine fusion?
15	How long will the hardware (like screws or rods) stay in my back?
16	Will I set off metal detectors because of the hardware?
17	What are the potential complications and how common are they?
18	How will this surgery affect my overall spine health in the long term?
19	Can I still have an MRI after getting a lumbar spine fusion?
20	Are there alternative treatments or surgeries to lumbar spine fusion?
10	Mika et al. Assessing ChatGPT Responses to Common Patient Questions Regarding Total Hip Arthroplasty - adapted to spine fusion
	Assessing ChatGPT Responses to Common Patient Questions Rega : JBJS (lww.com)
1	When should I get spine fusion surgery?
2	How long does spine fusion surgery take?
3	Which approach is better for spine fusion surgery?
4	Is outpatient spine fusion surgery safe?
5	What are the risks of spine fusion surgery?
6	How common is infection after spine fusion surgery?
_	How common are complications like failed fusion or hardware malfunction after spine fusion
7	surgery?
8	What is the success rate of spine fusion surgery?
9	How long does recovery take after spine fusion surgery, and how long will I be out of work?

10 What limitations will I have after spine fusion surgery? Can I do any activity I want?