



Dr. Shankar Acharya

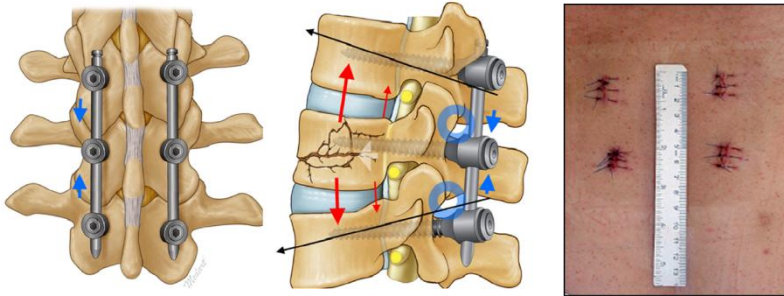
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PERCUTANEOUS PEDICLE SCREW FIXATION: A MODERN APPROACH TO SPINE STABILIZATION

Introduction

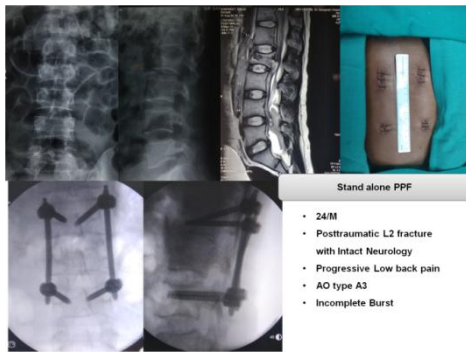
Percutaneous pedicle screw fixation is a minimally invasive surgical technique used to stabilize the spine and treat conditions like fractures, instability, or degenerative diseases. This advanced procedure is designed to reduce pain, promote faster recovery, and minimize complications. Dr. Shankar Acharya, a senior spine surgeon with 30 years of experience, offers expert care in this technique at Sir Gangaram Hospital, New Delhi.



What is Percutaneous Pedicle Screw Fixation?

Pedicle screws are special screws placed into the bones of the spine (vertebrae) to hold them in place. In the percutaneous technique:

- The screws are inserted through tiny cuts in the skin.
- A guiding system helps the surgeon precisely place the screws without making large incisions.
- The screws are then connected with rods to stabilize the spine.





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Benefits of the Percutaneous Technique

Compared to traditional open surgery, this method offers:

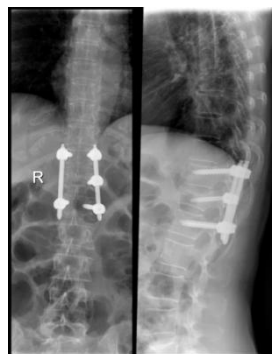
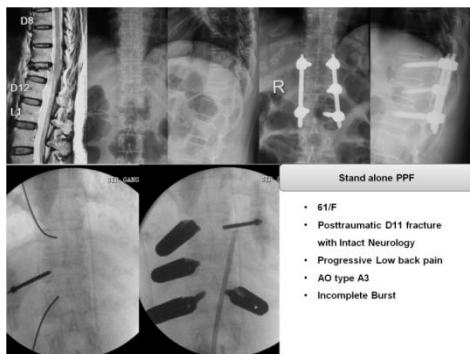
- **Less Pain:** Smaller incisions mean reduced tissue damage and pain.
- **Faster Recovery:** Patients often return to normal activities sooner.
- **Minimal Scarring:** Tiny cuts result in better cosmetic outcomes.
- **Lower Risk of Infection:** Smaller wounds reduce the chance of infection.
- **Reduced Blood Loss:** A less invasive approach preserves tissues and minimizes bleeding.

Recovery and Aftercare

- **Hospital Stay:** Most patients stay in the hospital for 1-3 days.
- **Pain Management:** Pain is usually manageable with medications.
- **Physiotherapy:** Gentle exercises may be recommended to improve mobility and strengthen the back.
- **Follow-Up:** Regular check-ups ensure proper healing and recovery.

THIS PROCEDURE IS USED TO TREAT VARIOUS SPINE CONDITIONS, SUCH AS:

1. **Spine Fractures:** Often caused by accidents or osteoporosis.
2. **Spinal Instability:** Due to conditions like spondylolisthesis or degenerative disc disease.
3. **Spinal Tumors or Infections:** When these cause damage to the spine.
4. **Failed Back Surgery Syndrome:** When previous spine surgeries didn't achieve desired results.





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How is the Procedure Performed?

The surgery is carried out in several steps:

1. **Preparation:** The patient is given anesthesia to ensure comfort during the procedure.
2. **Imaging Guidance:** The surgeon uses advanced imaging tools like fluoroscopy to map out the spine.
3. **Insertion of Screws:** Small incisions are made, and screws are carefully inserted into the pedicles of the vertebrae.
4. **Placement of Rods:** The screws are connected with rods to stabilize the spine.
5. **Closure:** The incisions are closed with stitches or surgical glue.



Is This Procedure Right for You?

Dr. Shankar Acharya evaluates each patient's condition to determine if percutaneous pedicle screw fixation is the best option. Factors like the severity of the condition, overall health, and lifestyle are considered.

Why Choose Dr. Shankar Acharya?

With over 30 years of experience and expertise in advanced spine surgeries, Dr. Shankar Acharya provides personalized care, ensuring the best outcomes for his patients. At Sir Gangaram Hospital, he uses state-of-the-art technology to perform minimally invasive procedures like percutaneous pedicle screw fixation.



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Contact Us

If you or a loved one is suffering from back pain or a spine condition, consult Dr. Shankar Acharya today. Early diagnosis and treatment can significantly improve your quality of life.



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