

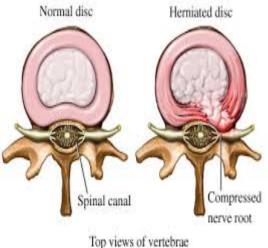
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#### FACULTY OF NURSING

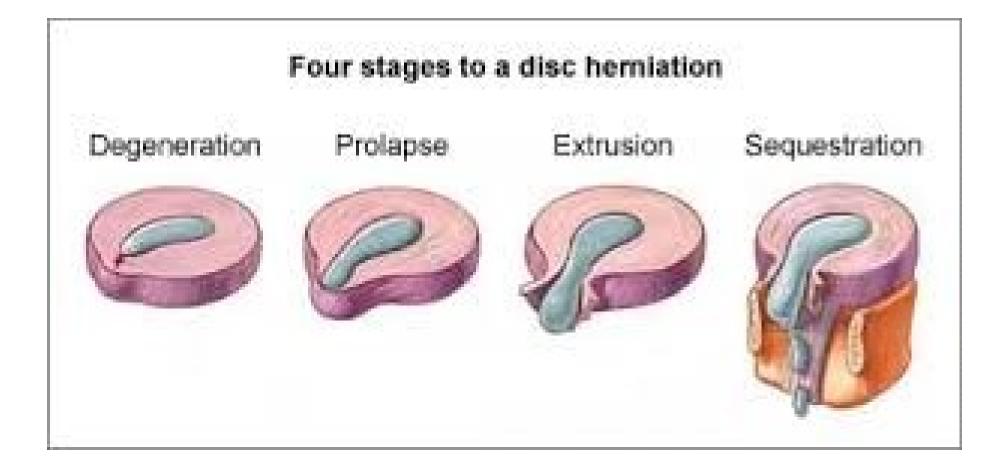


#### INTERVERTEBRAL DISC PROLAPSE

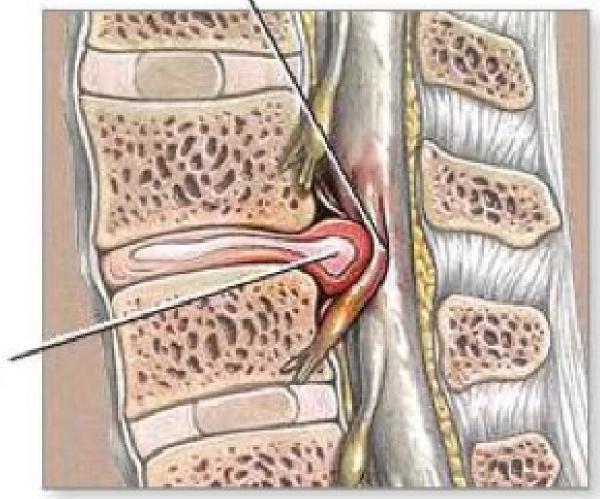
Mr. M.Raghavendran M.Sc(N) Professor MSN Dept It can be the result of natural degeneration with age or repeated stress and trauma to the spine. The nucleus pulposus may rupture to cause acute injury and back pain common sites will be L4 – L5 and L5 – S1



#### **RTEBRAL DISC PROLAPSE**



## Compressed lumbar spinal nerve



#### Herniated disc -

Low back pain radiating down the buttock and below the knee, along the distribution of sciatic nerve (radiculopathy). The straight leg test may be positive indicating nerve root irritation, reflexes may be depressed or absent parasthesia or muscle weakness in the legs, feet or toes.

#### Clinical manifestations

History Collection Physical Examination CT Scan MRI EMG Myelogram Diskogram

## Diagnostic Evaluation

#### **Conservative**:

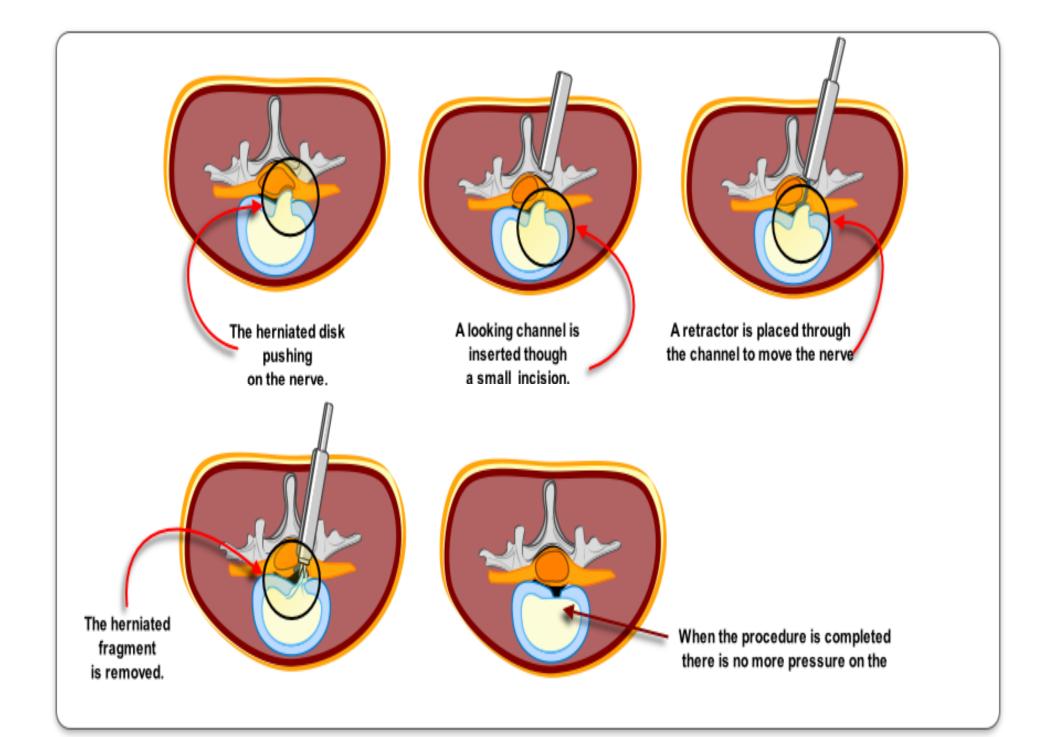
- Restricted Activity
- Medication
  - -Analgesics NSAIDs
  - Muscle Relaxants.
- Heat or cold compress therapy, Physical therapy

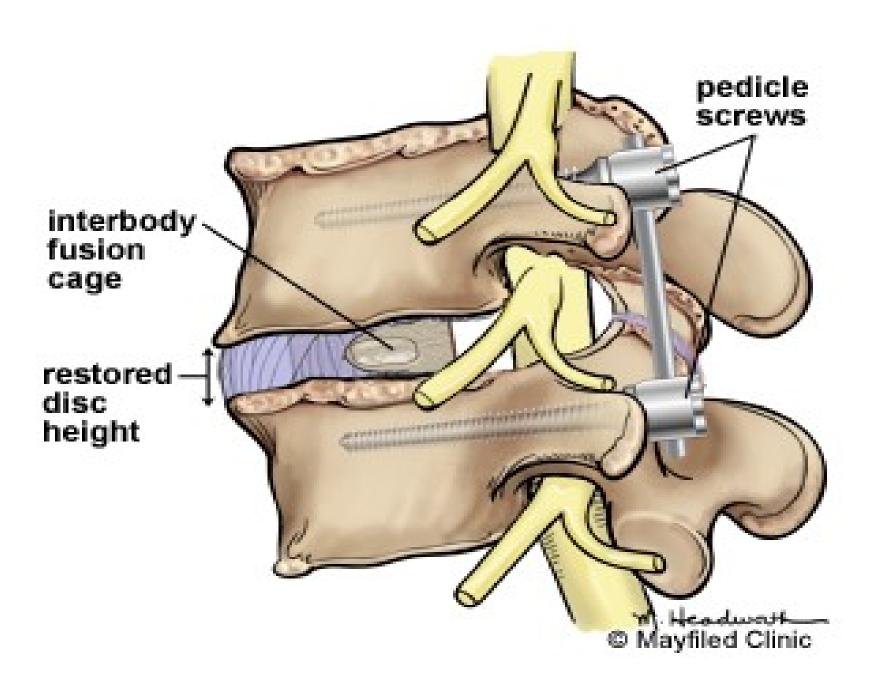
Management

#### Surgical:

- Laminectomy with or without spinal fusion
- Diskectomy
- Percutaneous laser Diskectomy
- Spinal fusion with or without instrumentation

#### Cont...





#### LOW BACK PAIN



It is common and has probably affected about 80% of adults. It is most common problem in lumbar region because (i) It bears most of the weight of the body (ii) It is the flexible region of spinal column (iii) It contains nerve roots that are vulnerable to injury (iv) inherently poor biomechanical structure.

#### LOW BACK PAIN

- Acute lumbosacral strain
- Instability of lumbosacral bony mechanism
- Osteo arthritis of the lumbosacral vertebrae
- Intervertebral disc degeneration
- Herniation of Intervertebral disc

#### Causes

- Lack of muscle tone
- Excess body weight
- Poor posture
- Cigarette Smoking
- Stress
- Jobs that require repetitive heavy working

## Risk factors

## Classification

- Acute Low Back Pain
- Chronic Low Back Pain

#### Acute Low Back Pain

It lasts for 4 weeks or less. It is usually associated with some type of activity that causes undue stress on the tissues of lower back.

- Analgesics NSAIDs,
- Muscle Relaxants
- Massage and back manipulation
- The alternate usage of heat and cold compresses
- A brief period of rest at home is necessary
- Invasive treatment such as implanted epidural corticosteroids are helpful in relieving pain

## Management

# It lasts for more than Smonths or is a repeated incapacitating episode.

- Degenerative disk disease
- Lack of physical exercise
- Prior injury
- Obesity
- Structural and postural abnormalities
- Systemic diseases

#### Causes

- Reduction of pain with NSAIDs
- Daily activities
- Weight reduction
- Sufficient rest periods
- Local heat or cold compress
- Exercise and activity

#### Management

- Maintain healthy weight
- Do not sleep in prone position
- Avoid cigarette smoking
- Obtain regular physical activity
- Use proper body mechanism
- Sleep on sides with knee bend and pillows between the knees

Prevention