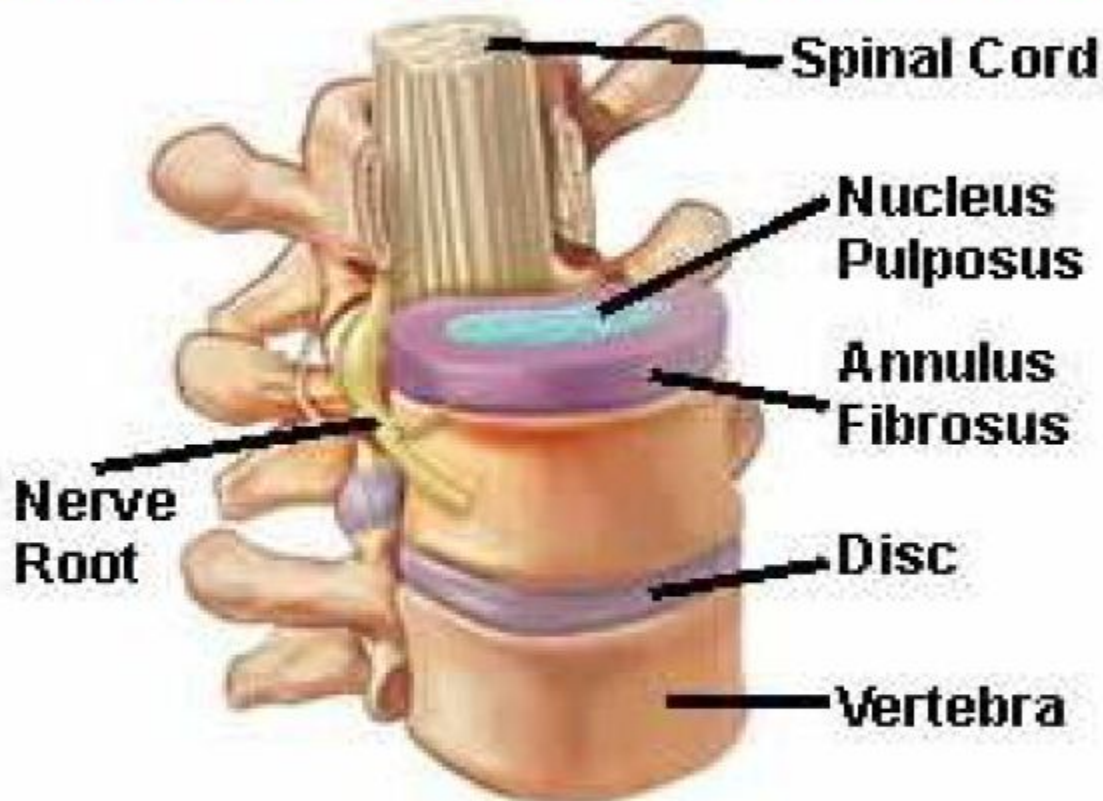
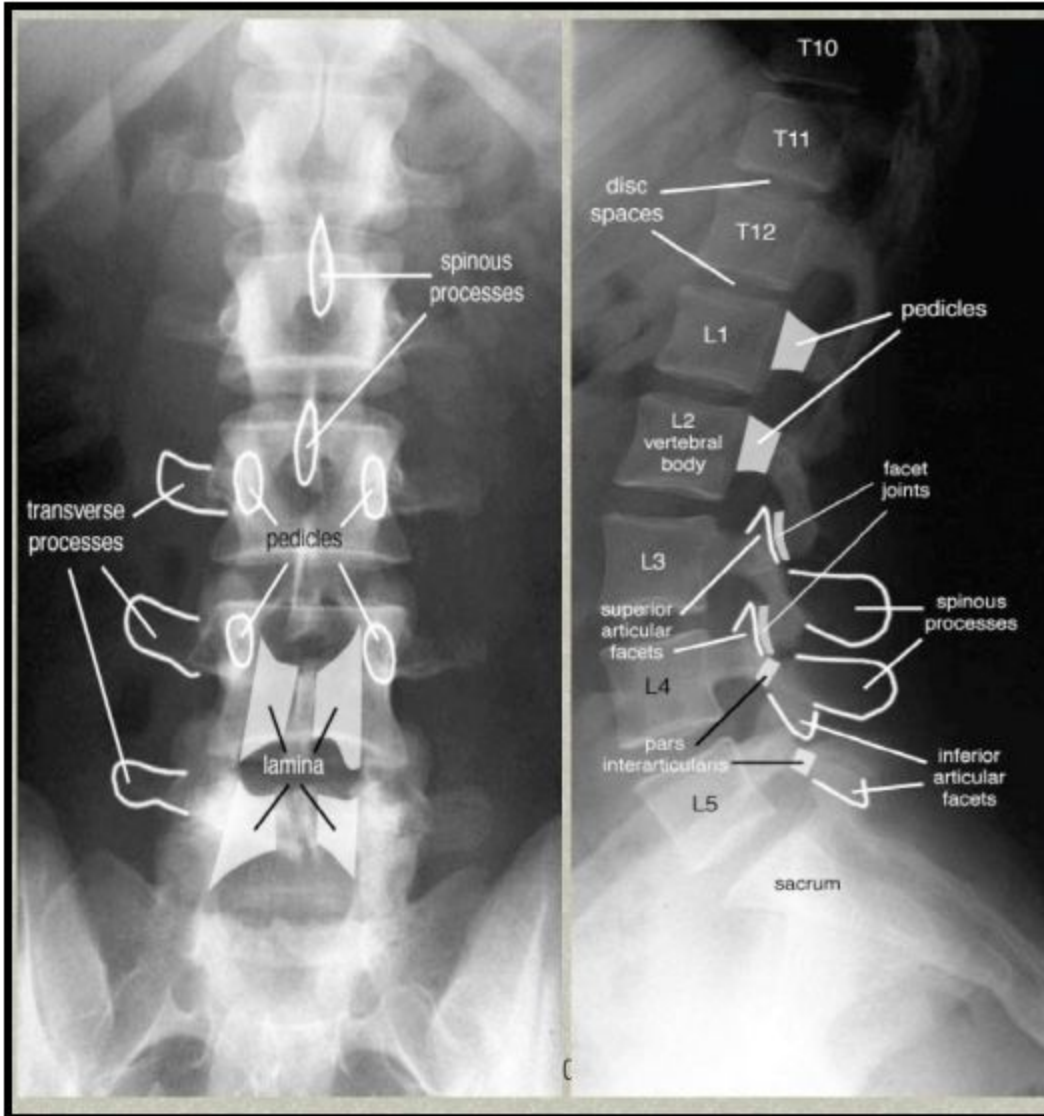


**ОСТЕОХОНДРОЗ
ПОЗВОНОЧНИКА**



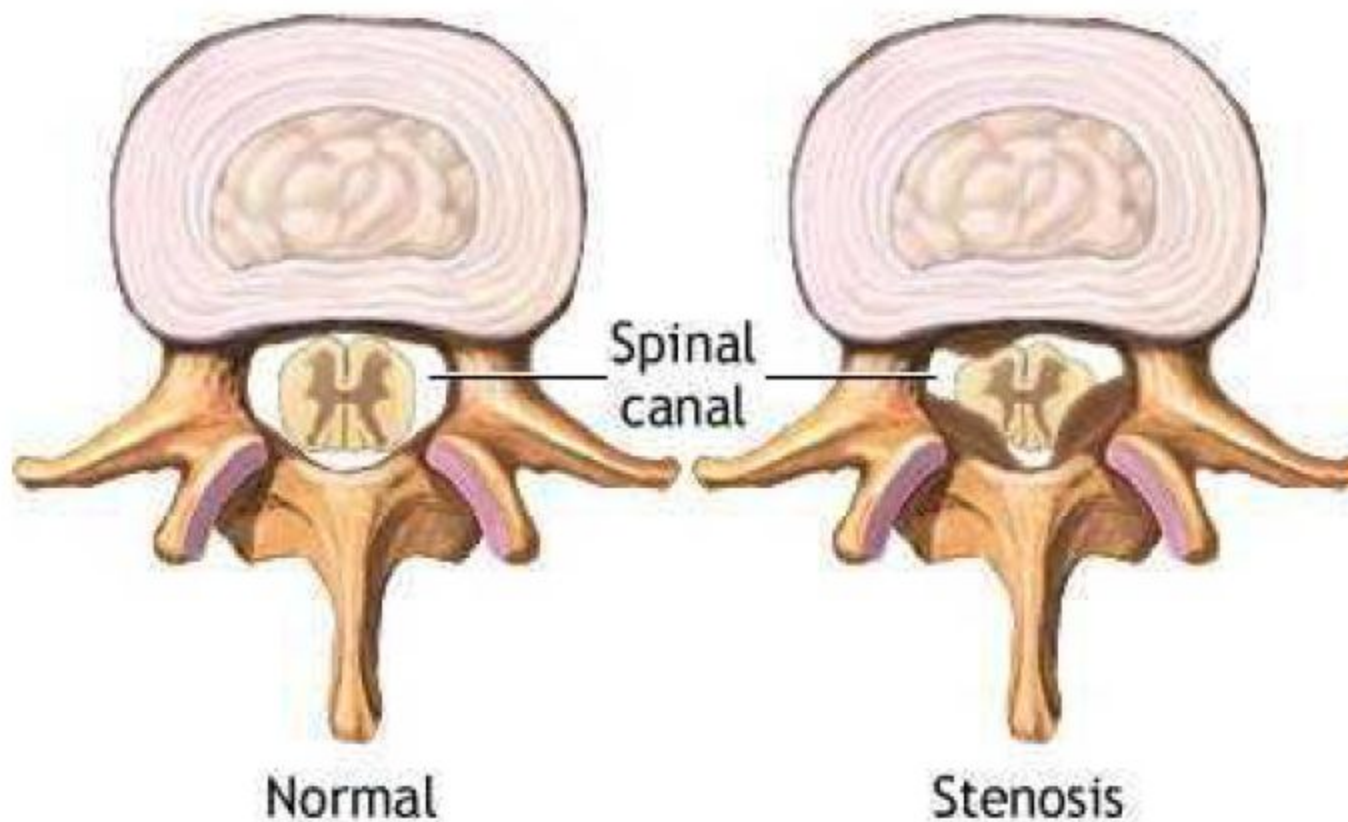
Нормальная анатомия позвоночника





Основные рентген-ориентеры

Spinal stenosis is a narrowing of the spinal canal



Стеноз позвоночного канала Inc.

ОСТЕОХОНДРОЗ ПОЗВОНОЧНИКА



Healthy Cervical Spine



Central Stenosis



Foraminal Stenosis

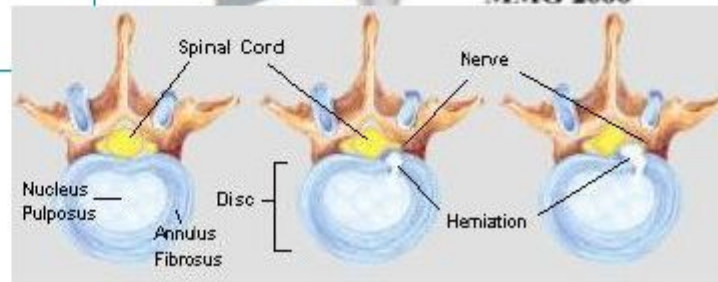


Herniated Disk



Cervical
Spinal
Stenosis

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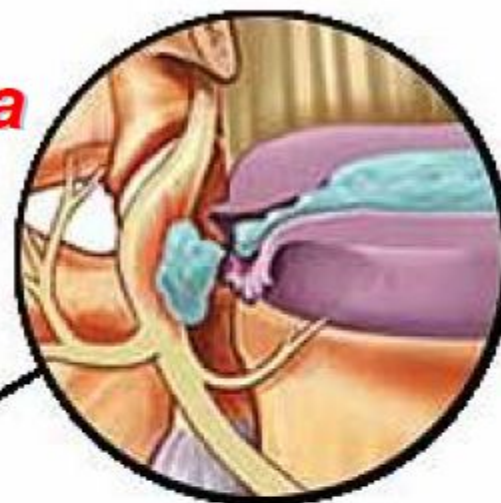


Normal

Protrusion

Prolapse

**Дискогенная
компрессия корешка
спинного мозга**

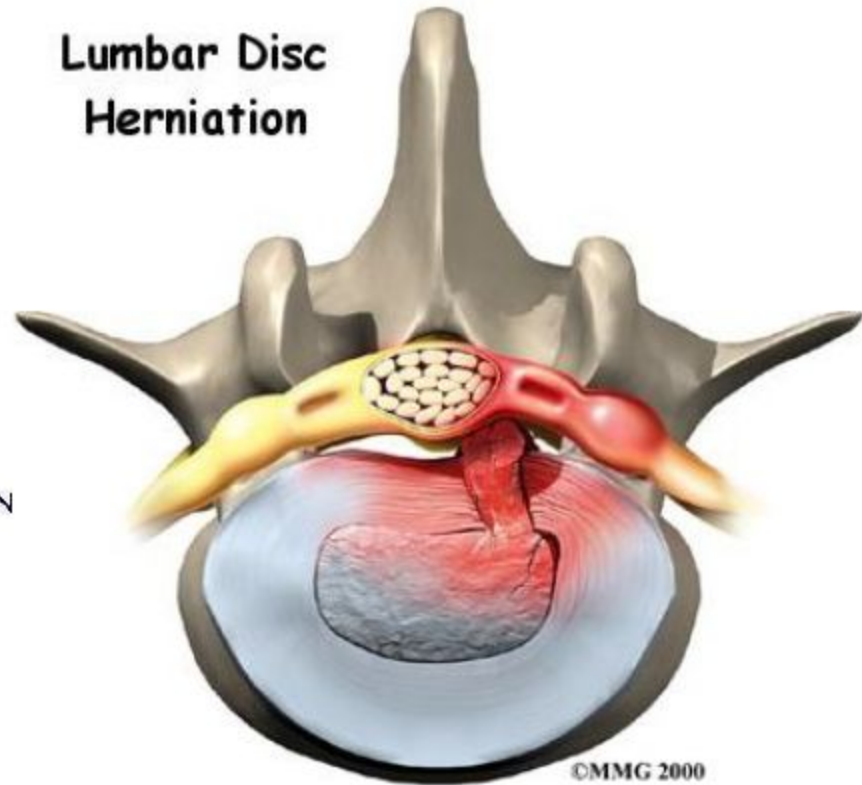


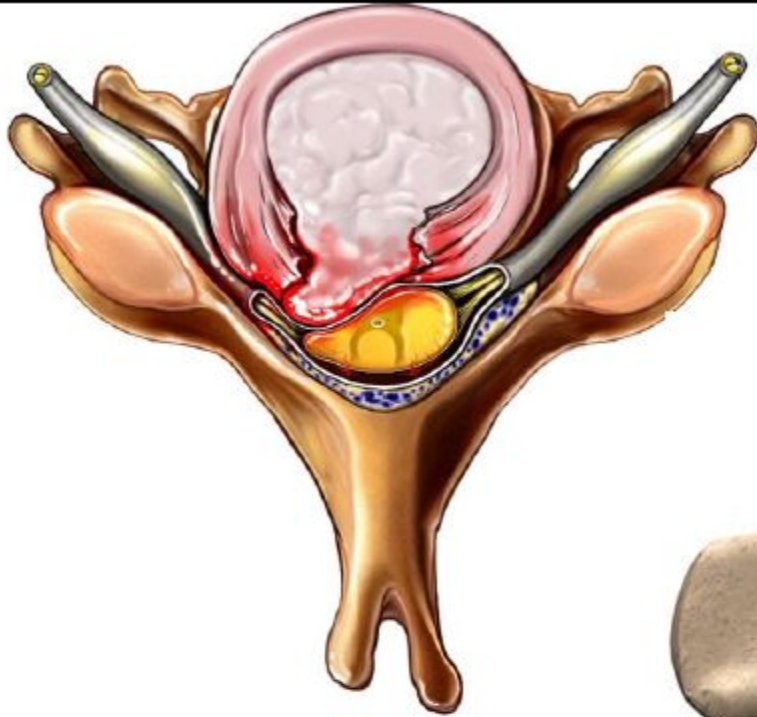
**Herniated
Disc**

**Задне-латеральная
грыжа диска L4-L5 с
компрессией корешка
(радикулоишемия)**

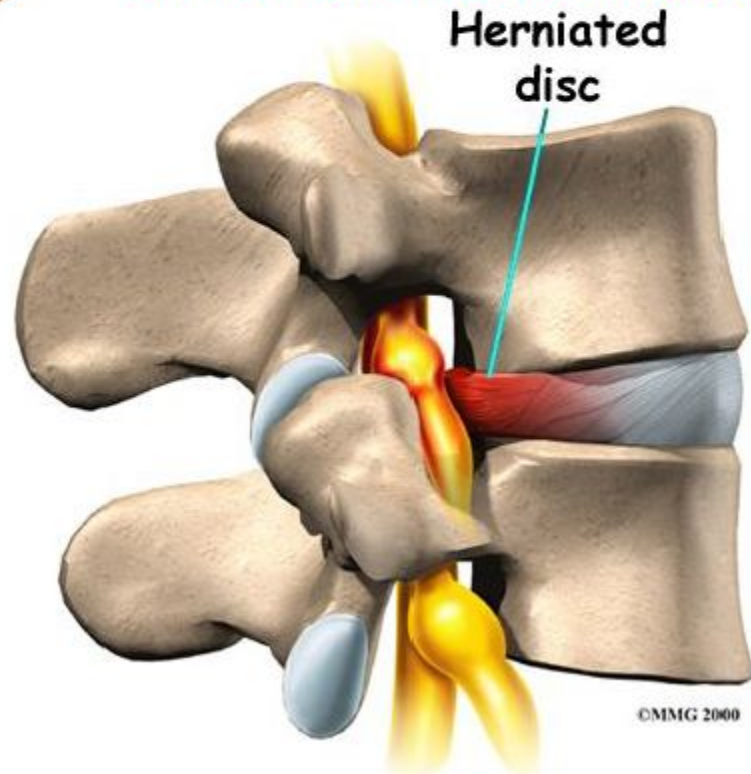


**Lumbar Disc
Herniation**





**Задне-латеральная грыжа
диска в грудном отделе с
компрессией корешка и
спинного мозга
(миелорадикулоишемия)**



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Начальная дегенерация диска



Проплапс



Формирование грыжи диска



Секвестрация

Стадии формирования грыж

Нормальный диск

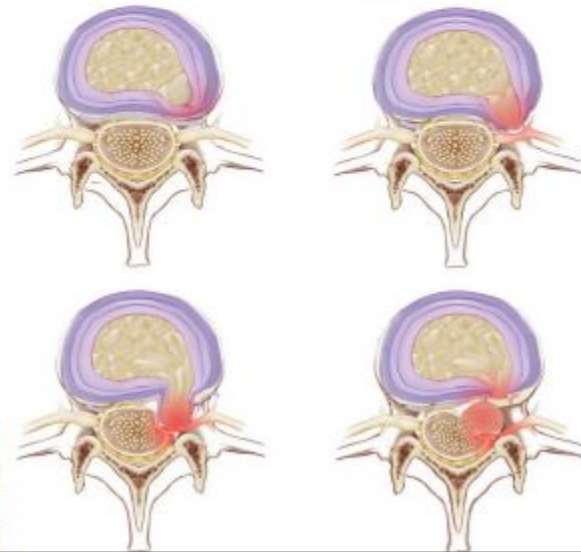
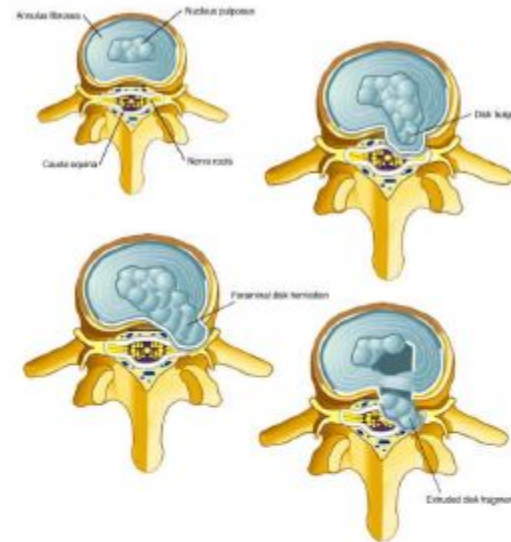
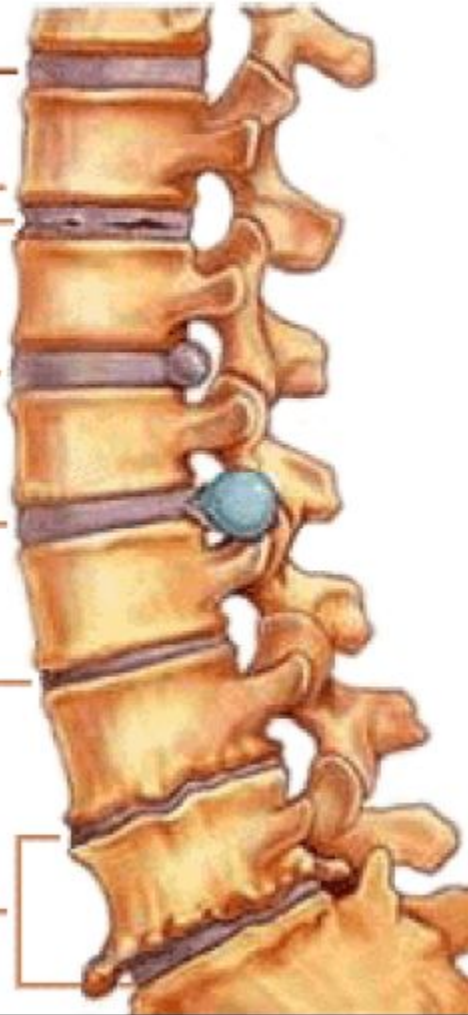
Дегенеративно-измененный диск

Протрузия диска

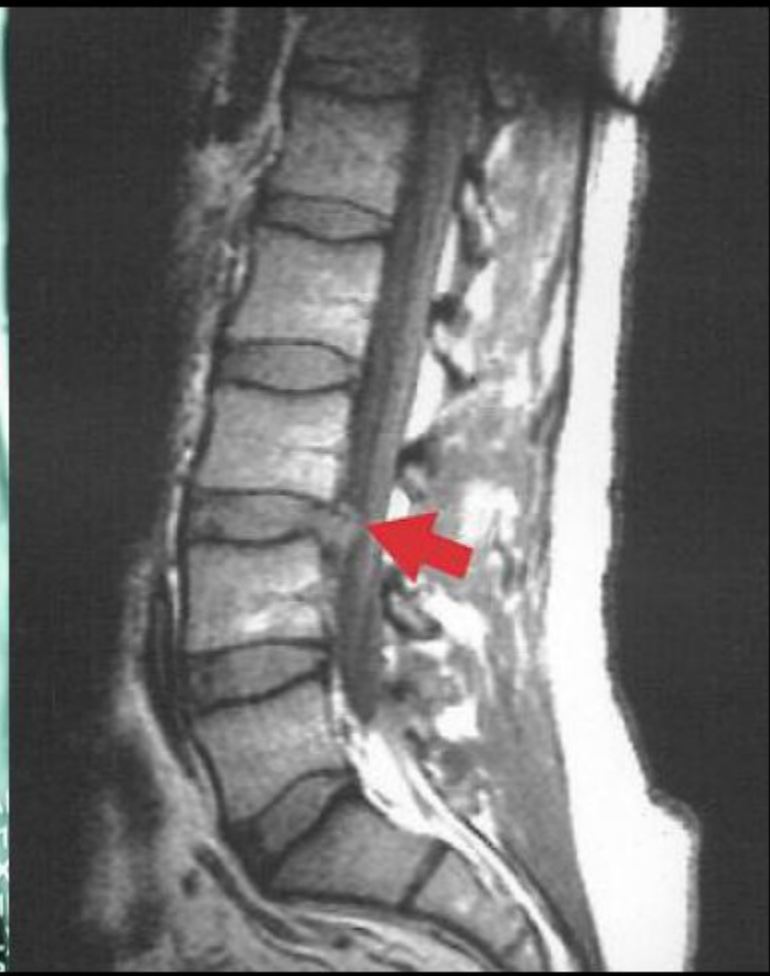
Грыжа диска

Утонченный диск

Остеофиты



MPT позвоночника. Грыжа диска L5-S1

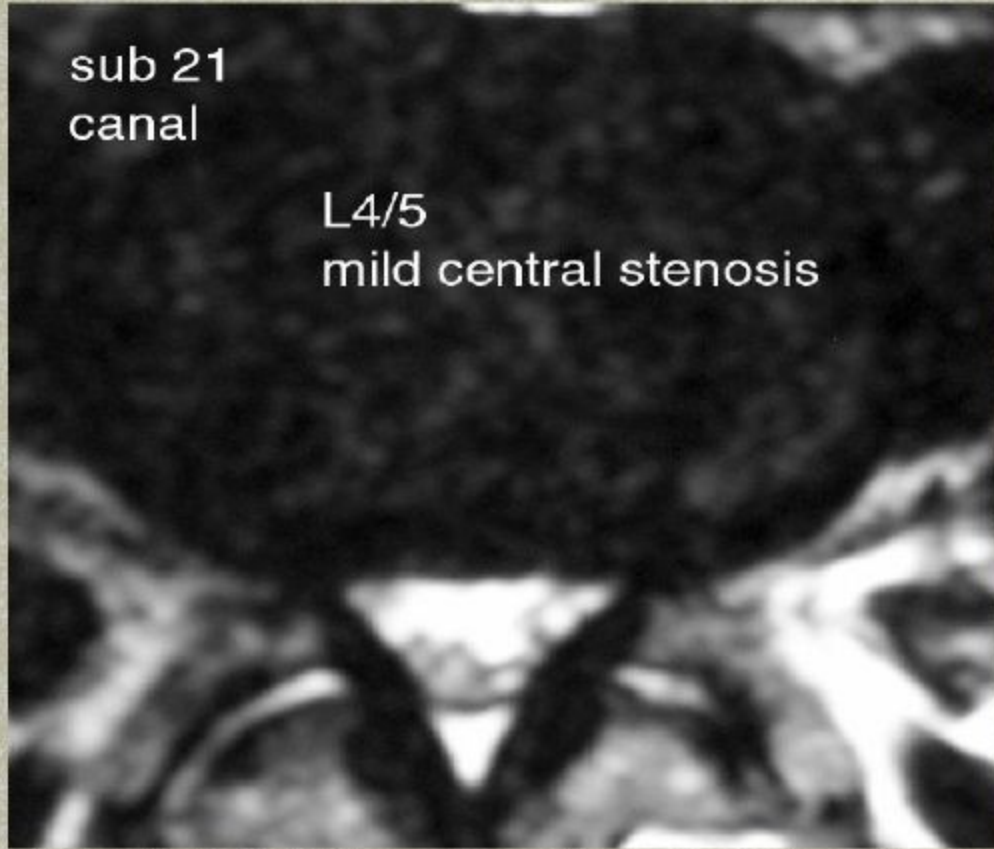




Циркулярная протрузия

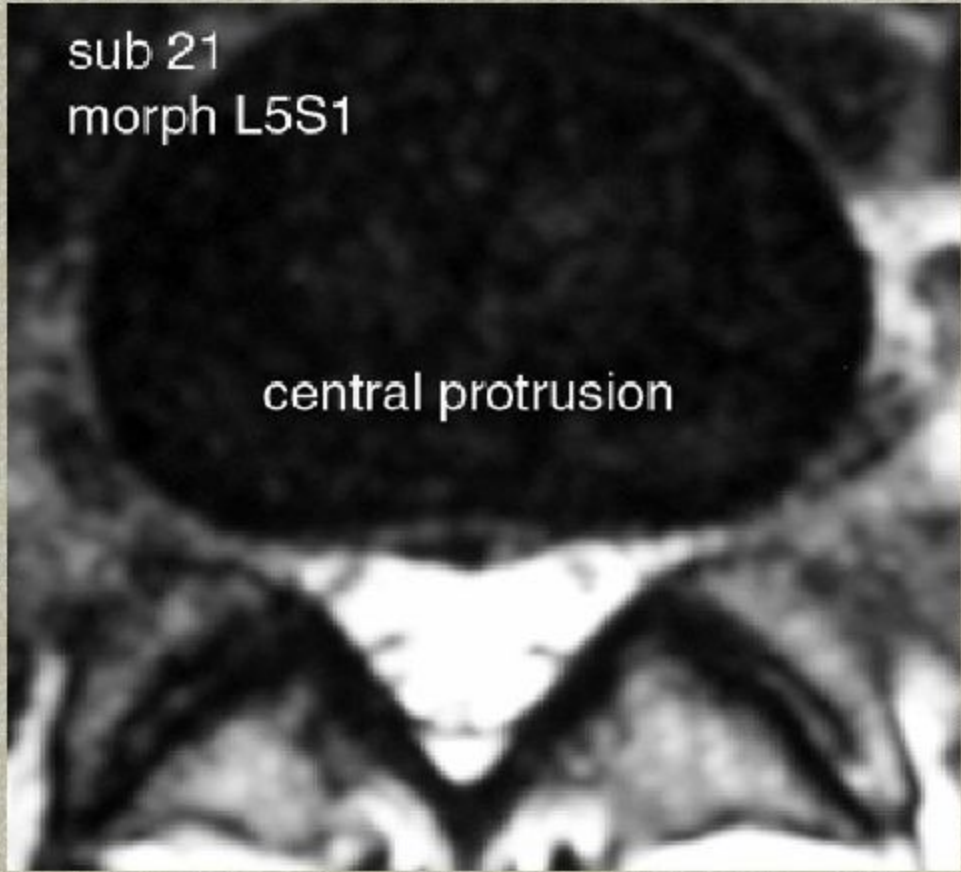
sub 21
canal

L4/5
mild central stenosis



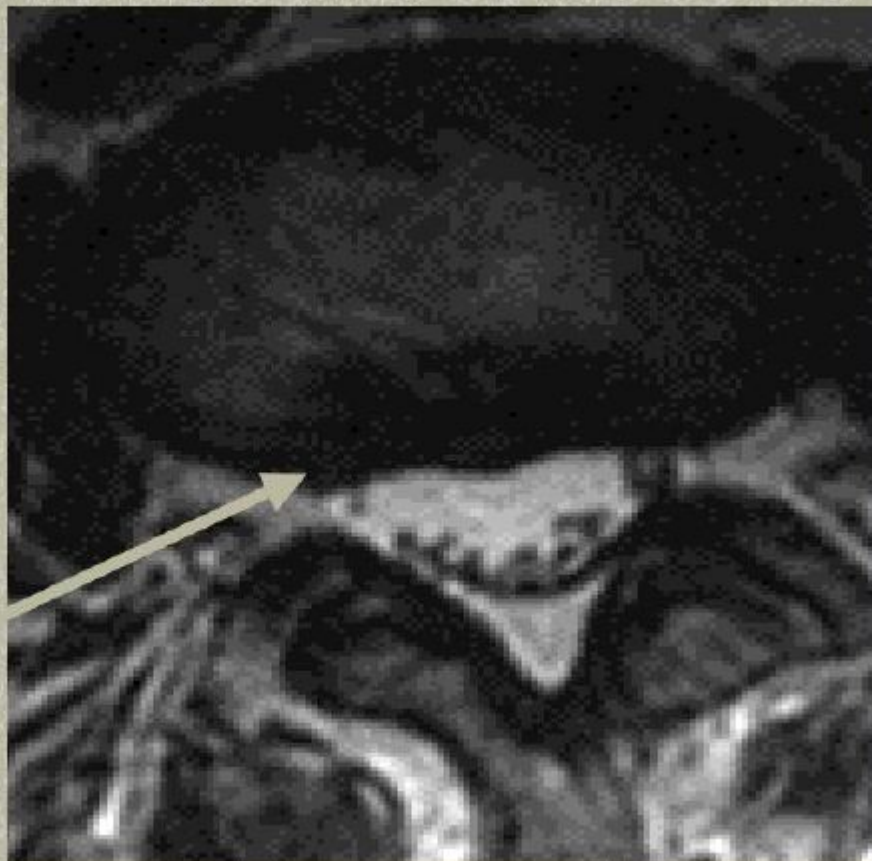


Центральная протрузия



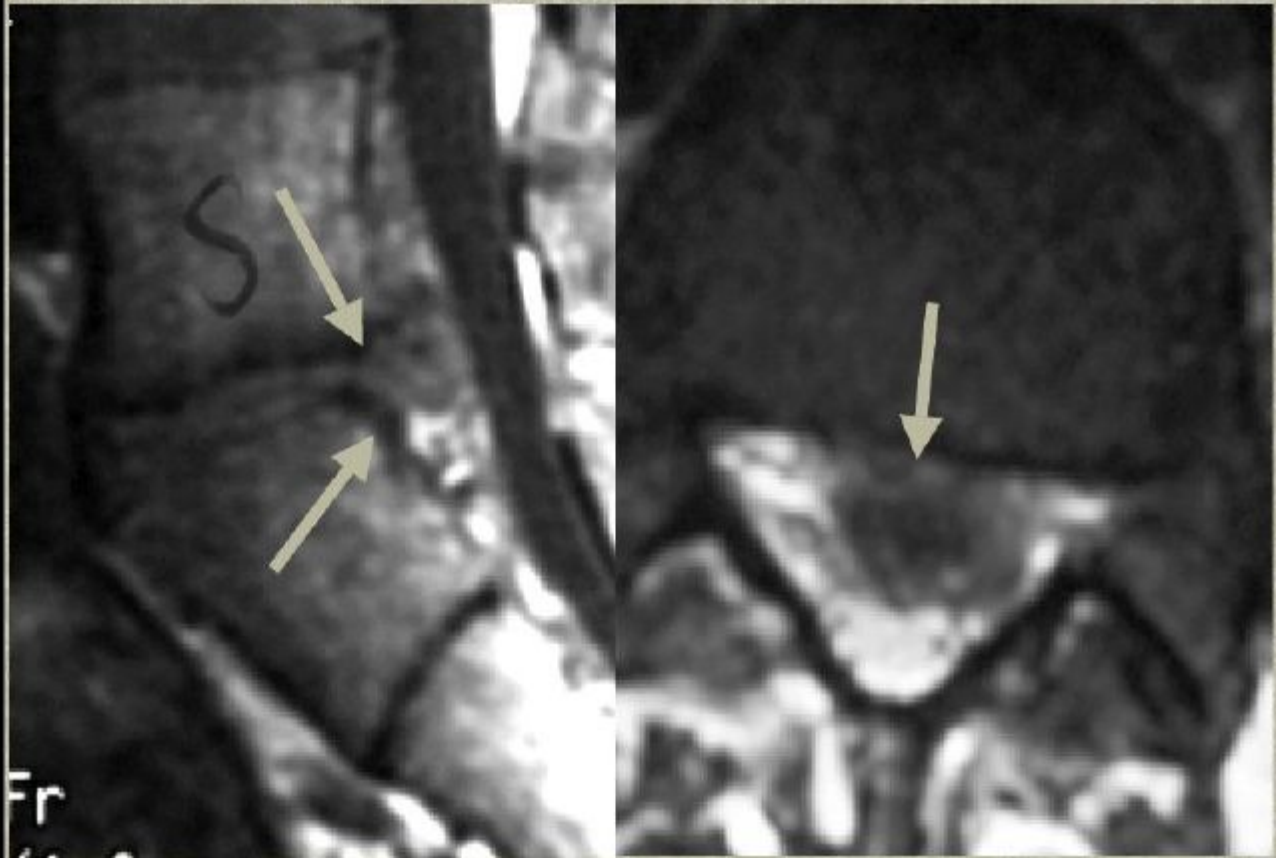


Латеральная протрузия





Пролапс



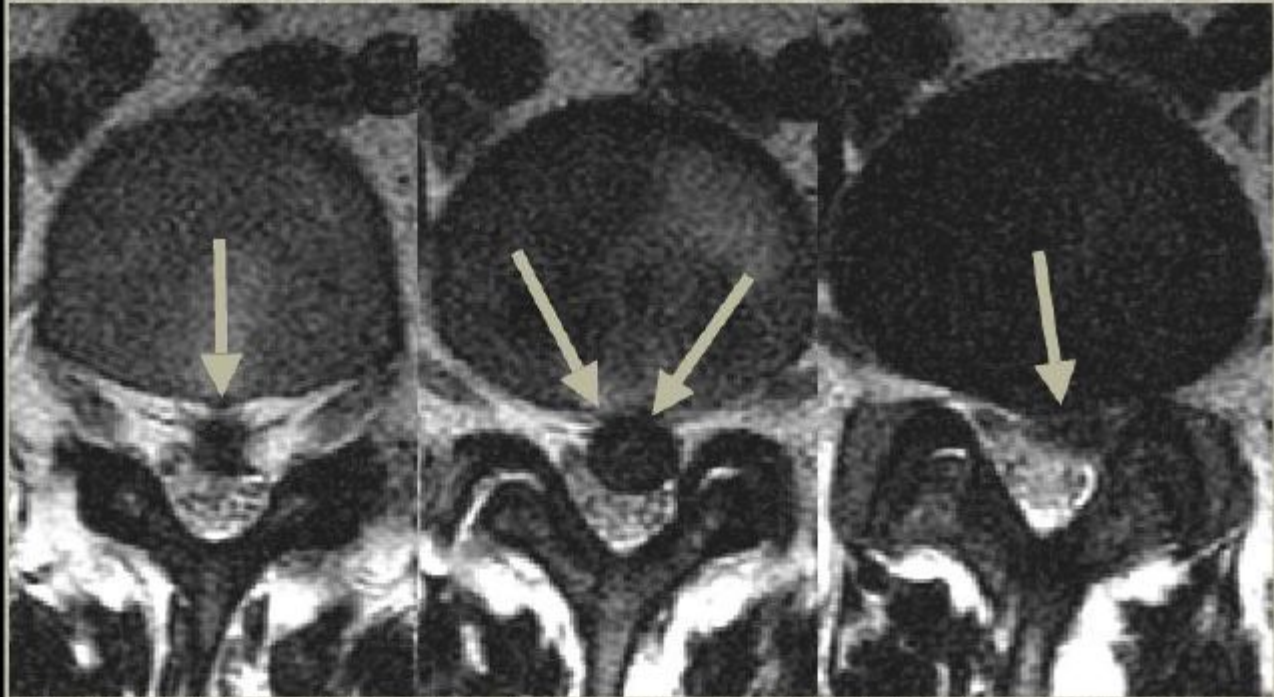


Грыжа секвестрированная

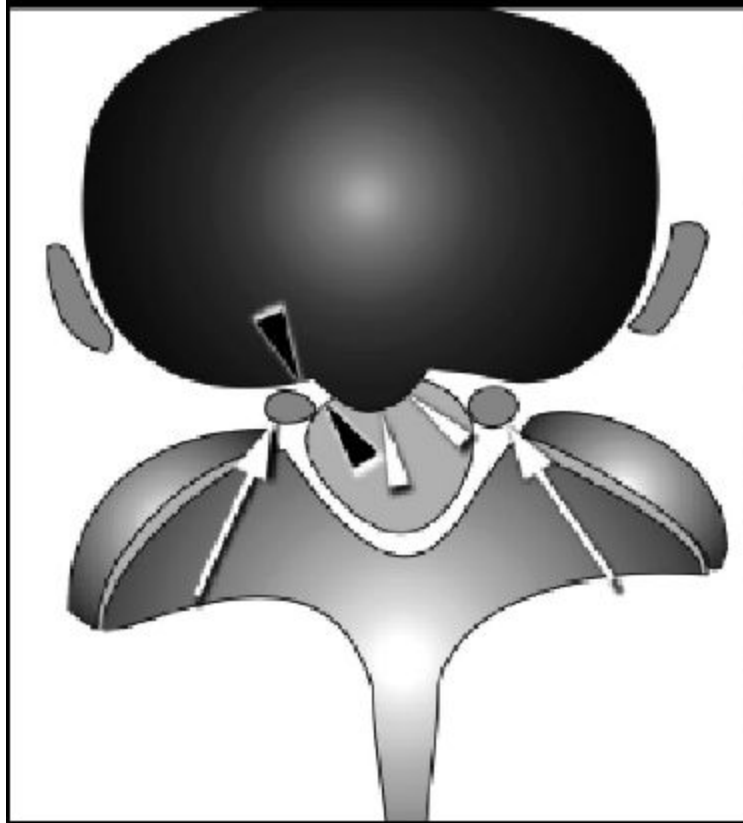




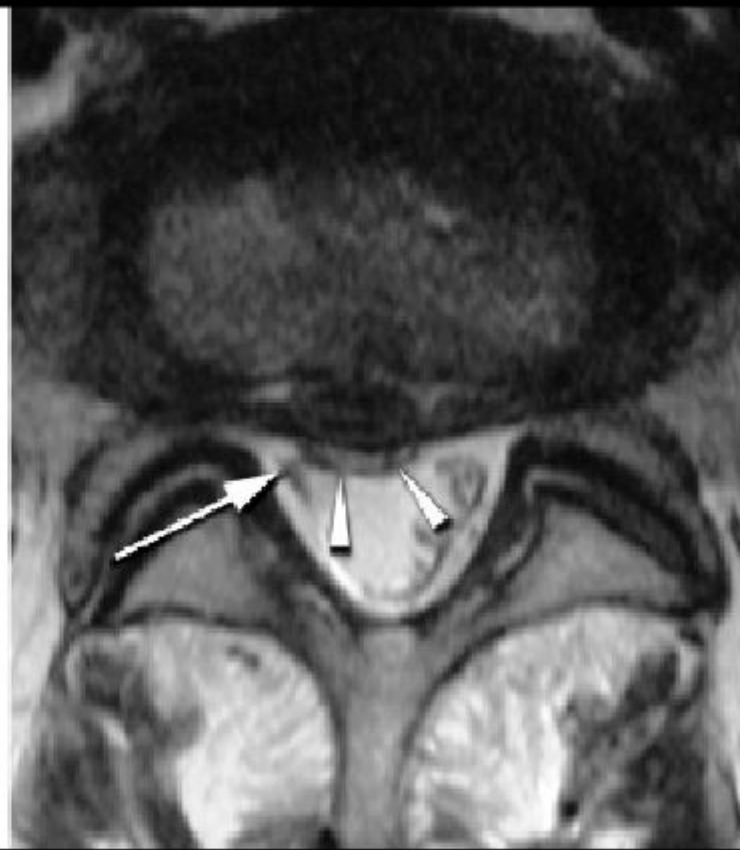
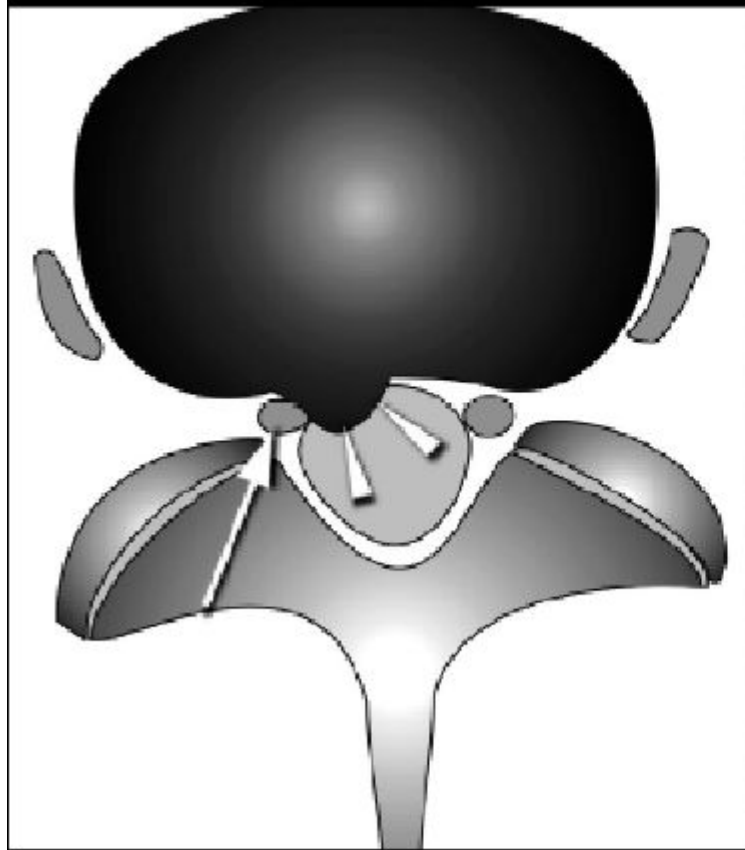
Грыжа секвестрированная



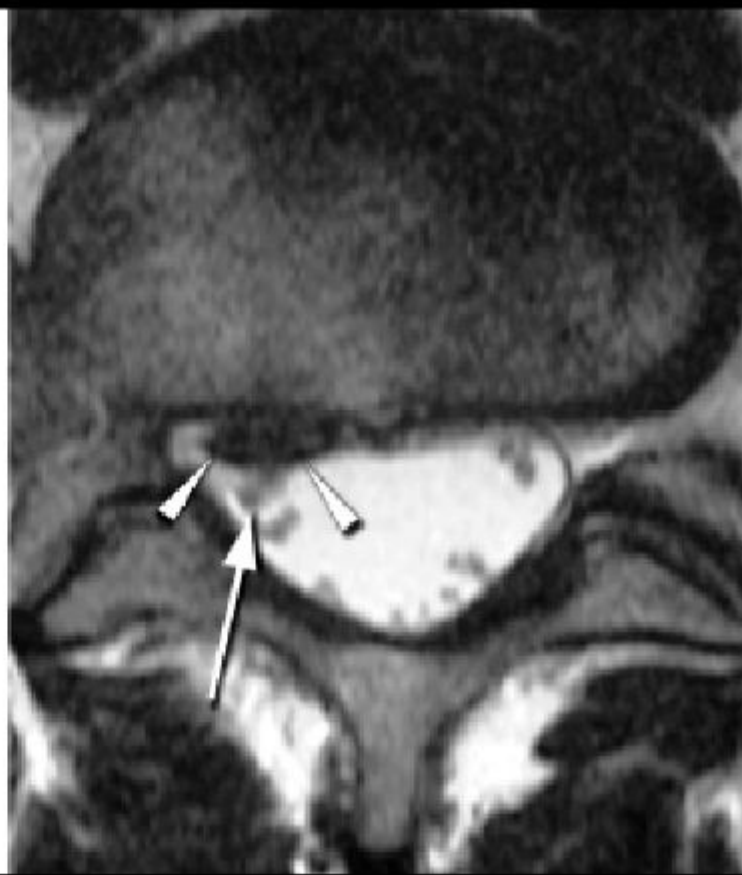
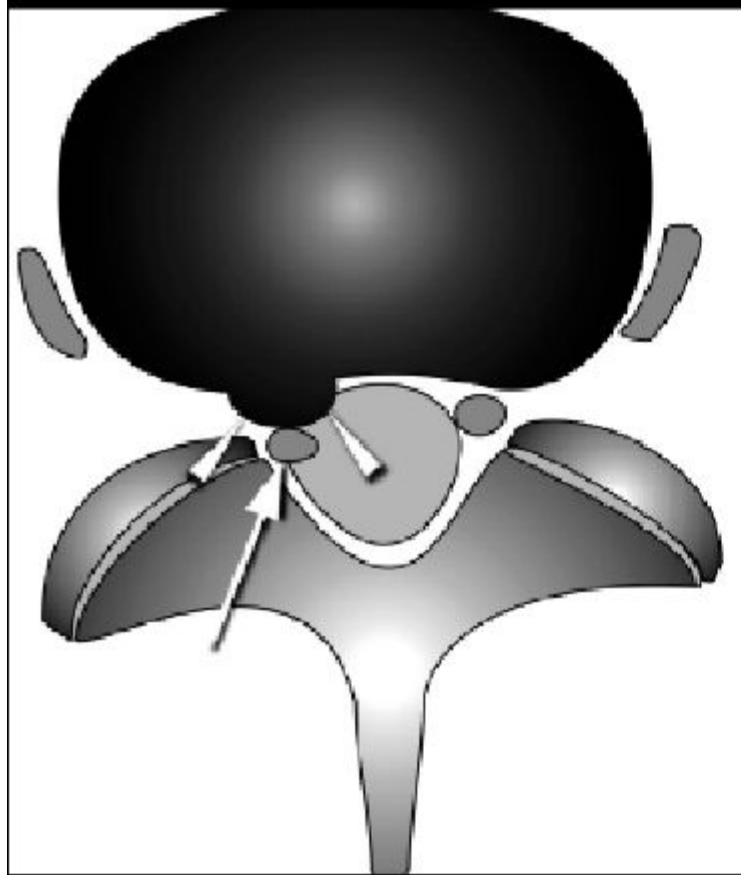
Интактный корешок нерва при центральной протрузии диска



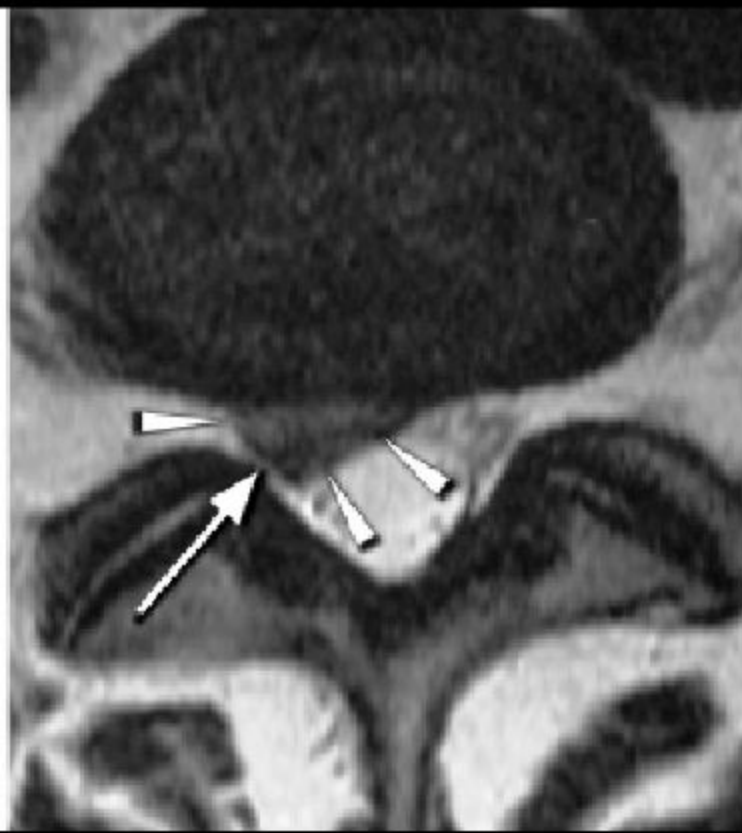
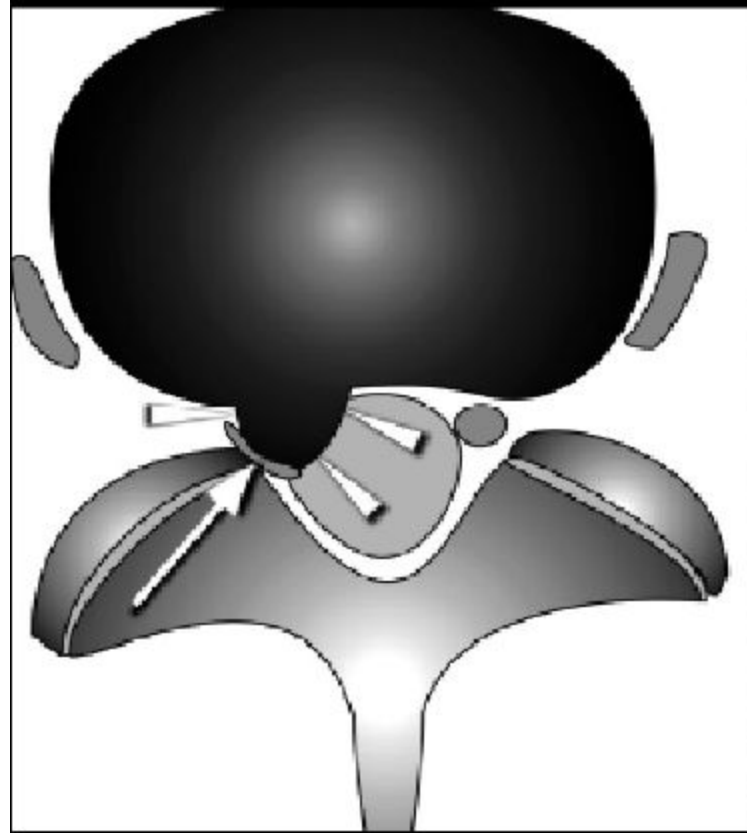
Ирритация корешка нерва



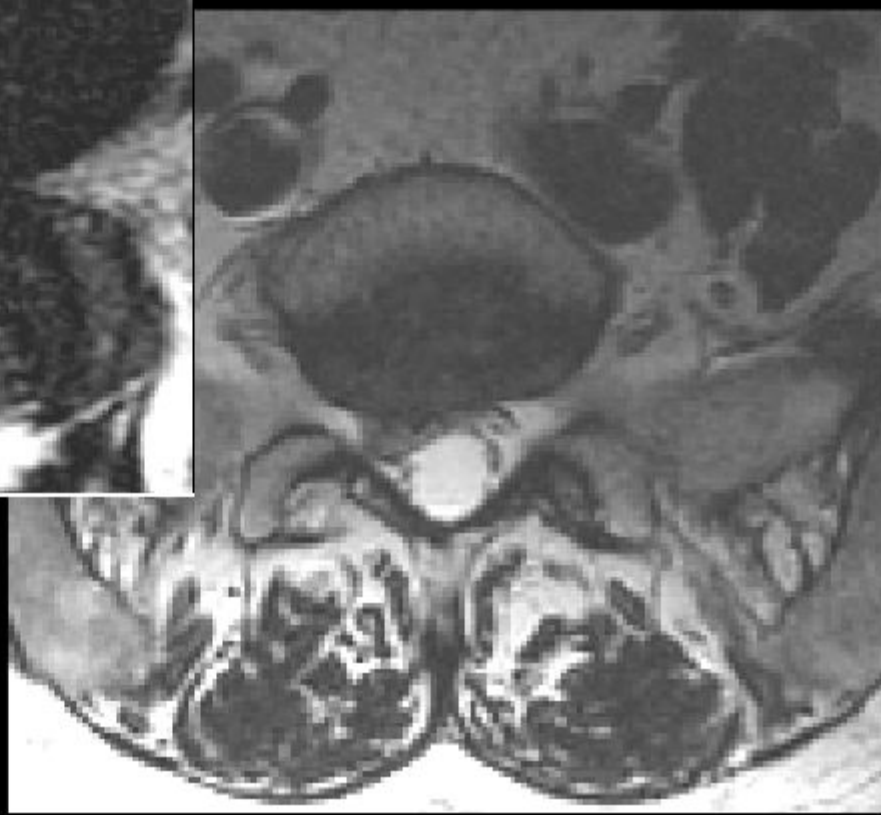
Смещение корешка нерва

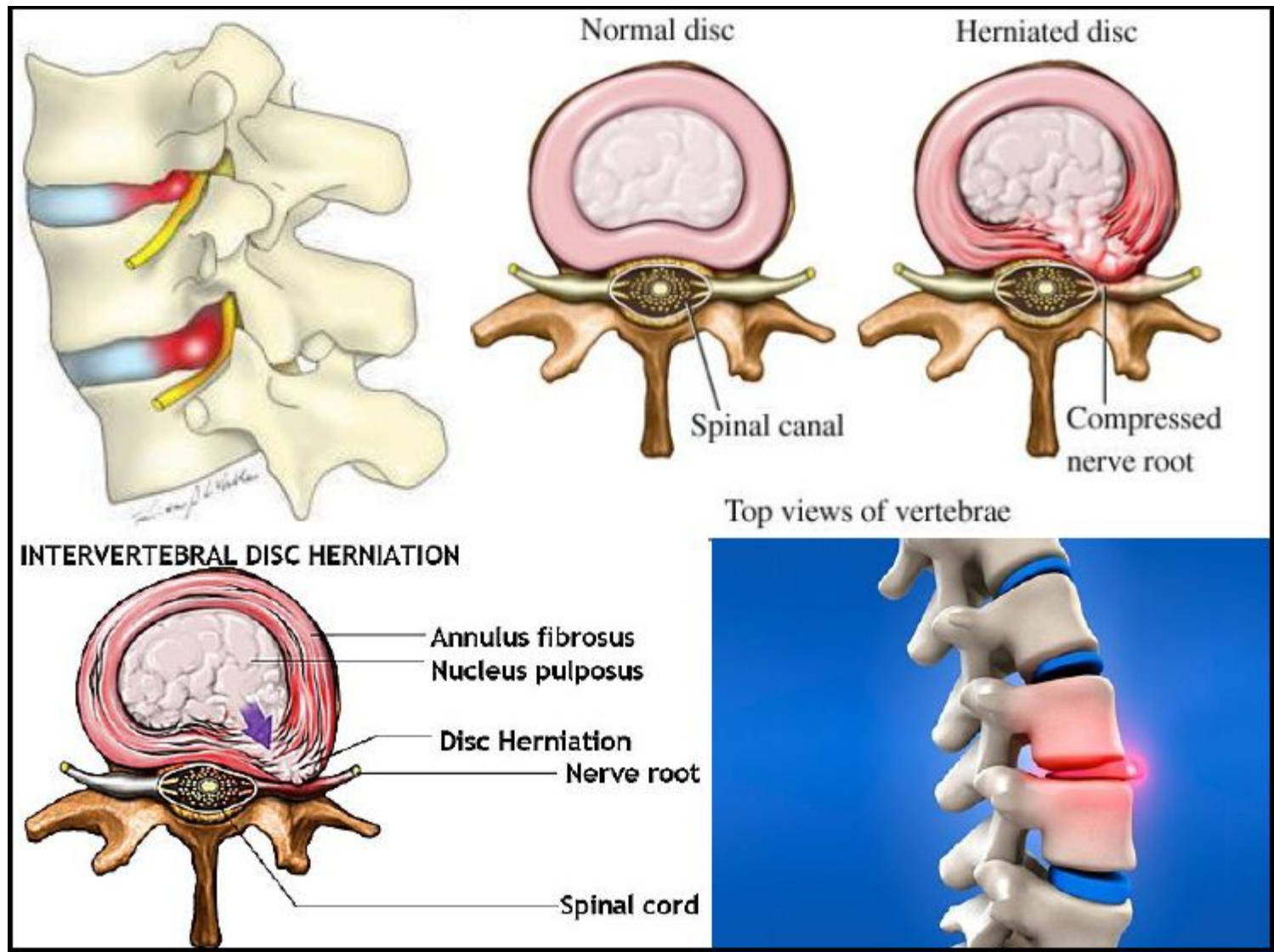


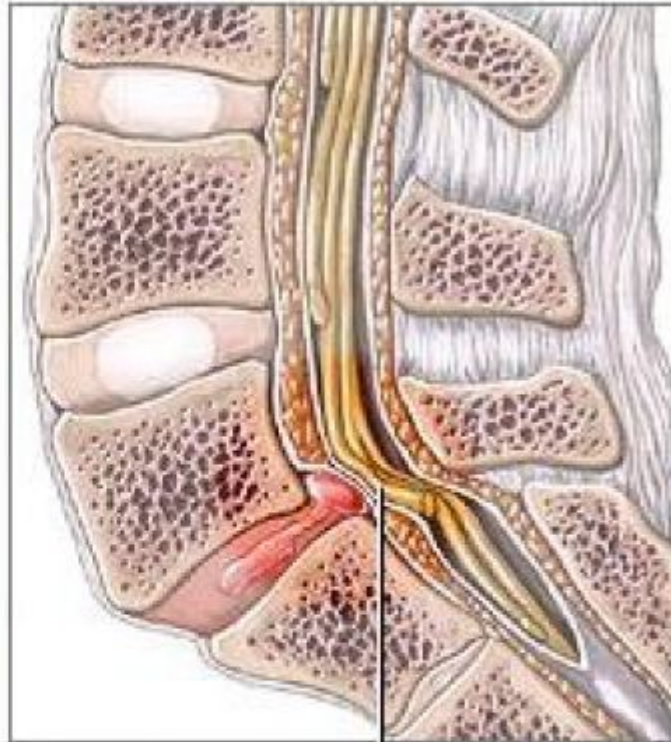
Компрессия корешка нерва



Грубая компрессия корешка нерва



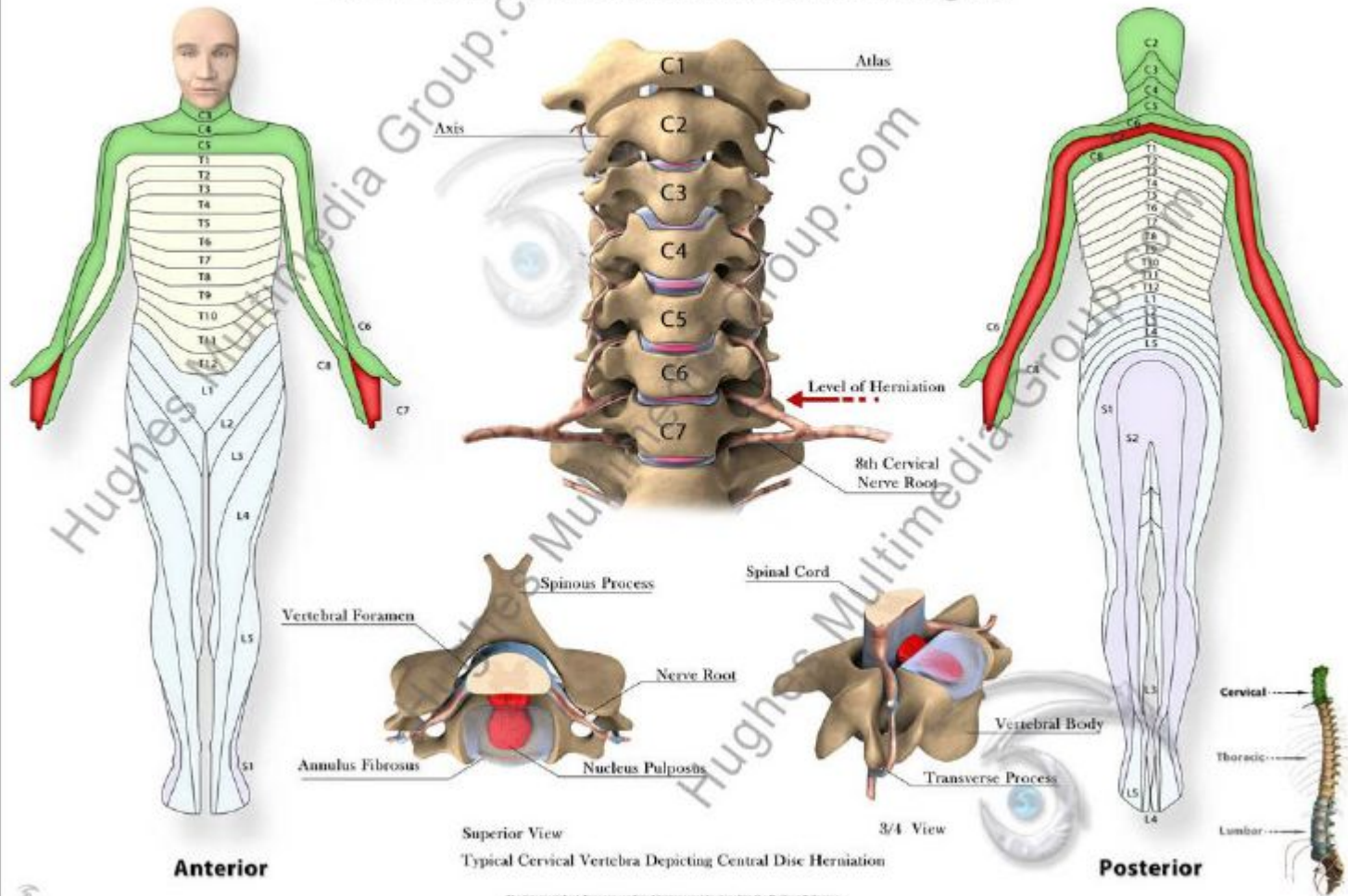




Spinal stenosis from
disc herniation

The Cervical Spine & Dermatome Regions

C6-C7 Central Disc Herniation & Affected Region



Anterior

Superior View

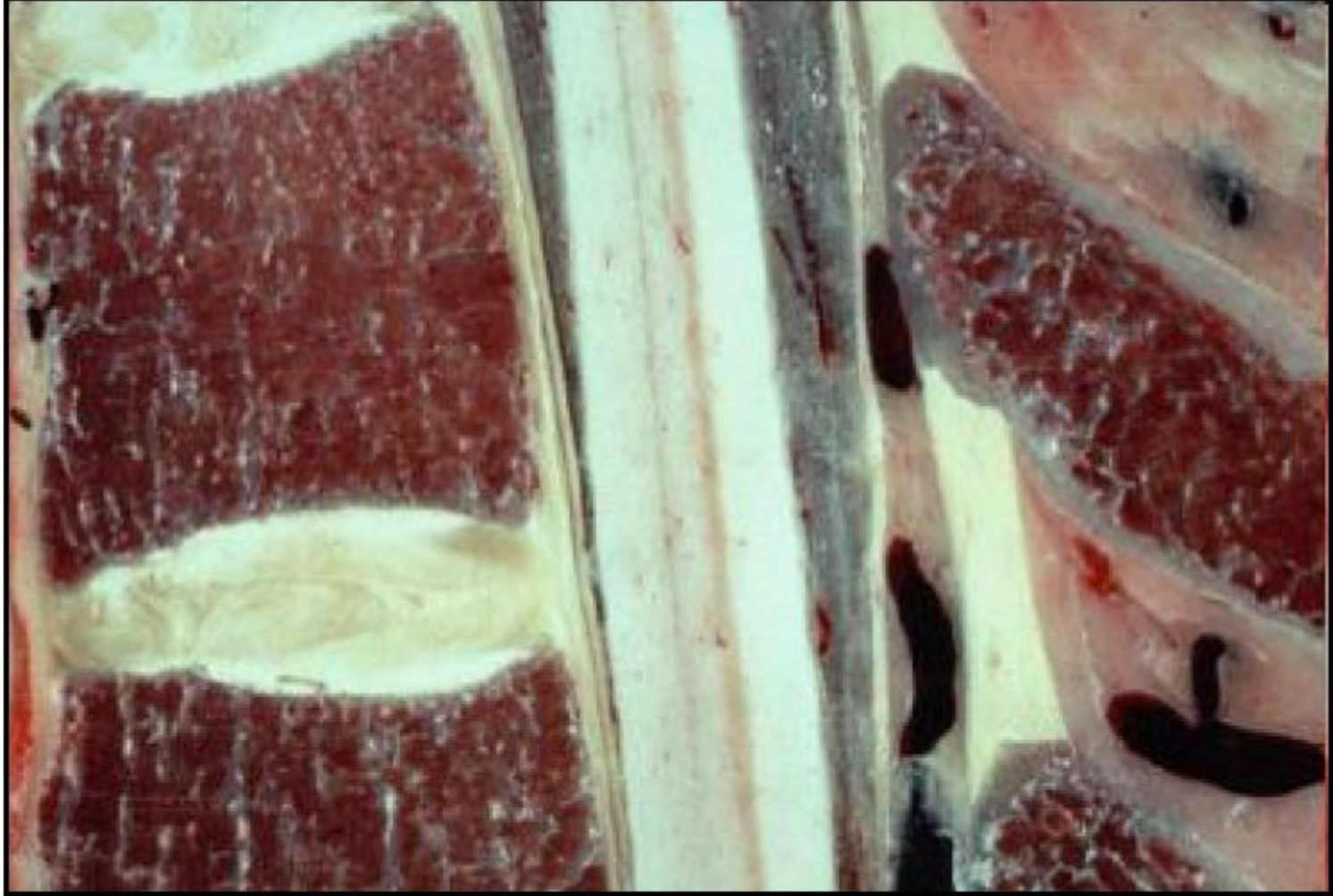
Typical Cervical Vertebra Depicting Central Disc Herniation

3/4 View

Posterior

The Intervertebral Discs are rendered transparent to visualize the Nucleus Pulposus.

Нормальный позвоночный канал



Секвестрированная грыжа межпозвонкового диска в шейном отделе с грубой компрессией спинного мозга



© Rauschning

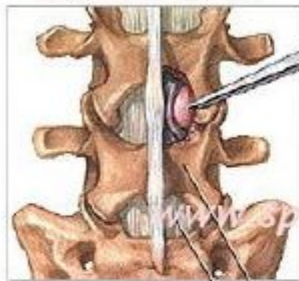
Секвестрированная грыжа межпозвонкового диска в шейном отделе с грубой компрессией спинного мозга



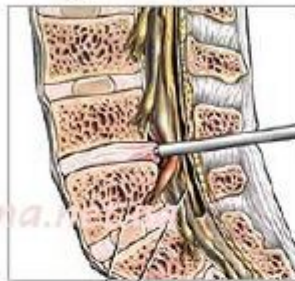
© Rauschnig

Ламинотомия и дискэктомия

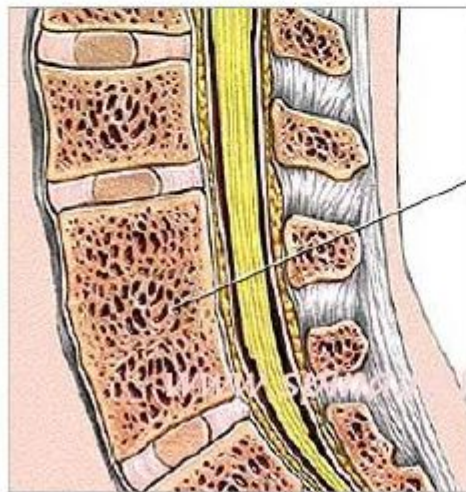
Удаление дужки



Удаление диска



Позвонок
Спинальный мозг

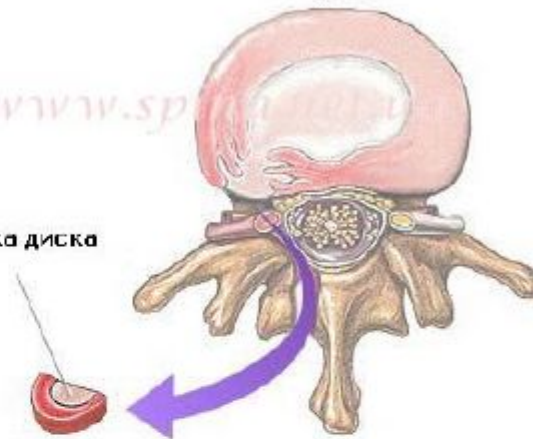


Анкилоз двух
смежных
позвонков
после удаления
грыжи диска



Поясничный диск

Грыжа диска

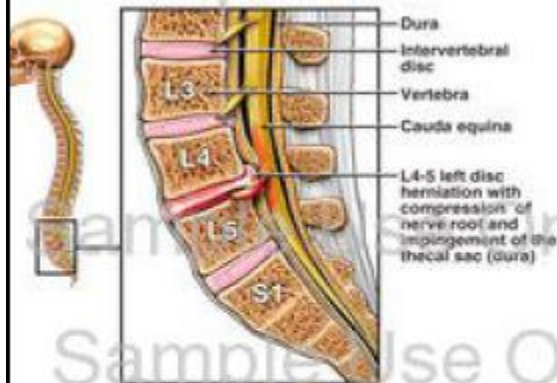


ADAM

ADAM

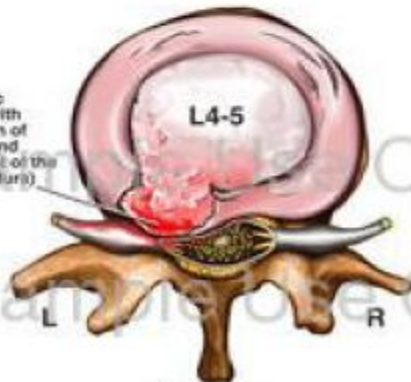
L4-5 Disc Herniation with Laminotomy and Discectomy (Diskectomy)

Pre-operative Condition



Sagittal view of the lumbosacral spine

L4-5 left disc herniation with compression of nerve root and impingement of the thecal sac (dura)



Superior view

A. An incision is made over the L4-5 disc space.



Posterior view

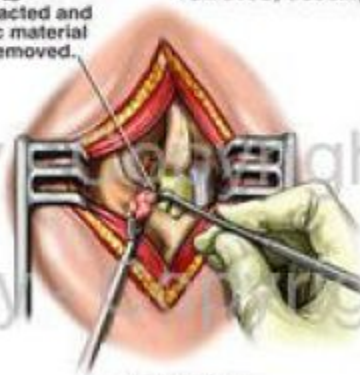
B. A laminotomy is performed to expose the herniated disc and the nerve root.



Posterior view

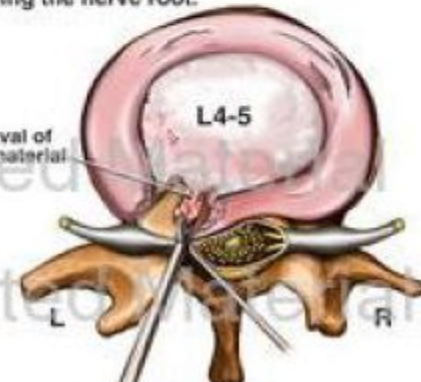
The thecal sac is retracted and disc material is removed.

C. The herniated disc and extruded fragments are removed, decompressing the nerve root.



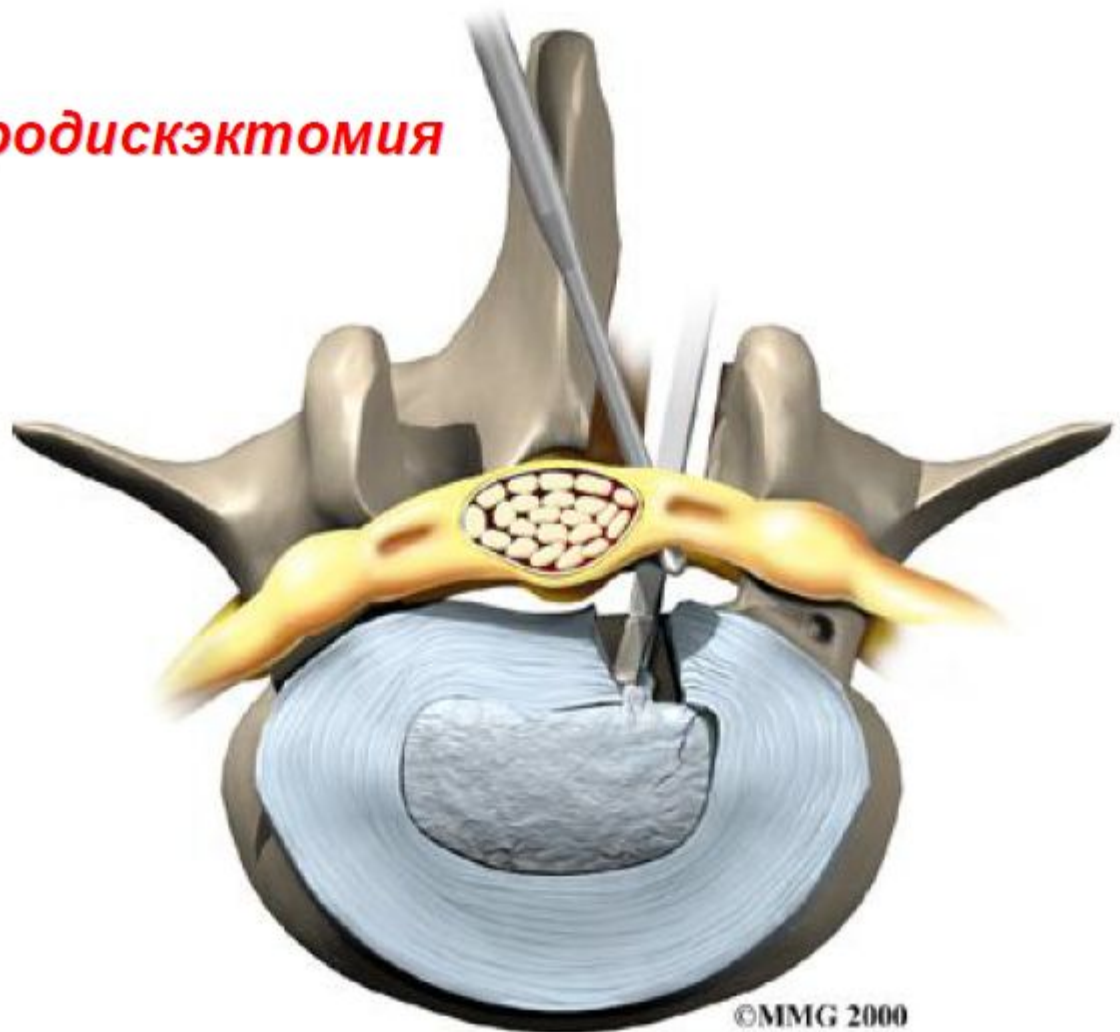
Posterior view

Removal of disc material



Superior view

Микродискэктомия



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C5-6 Disc Herniation with Anterior Cervical Fusion



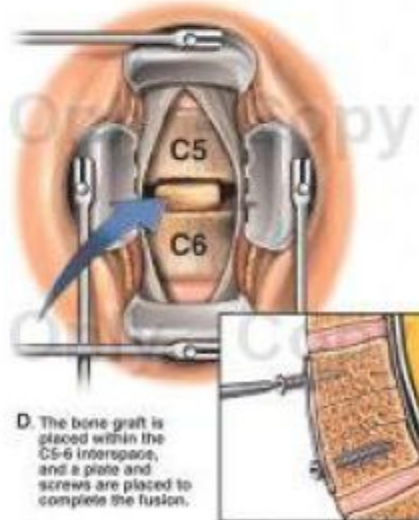
A. An incision is created to expose the C5-6 intervertebral disc space.



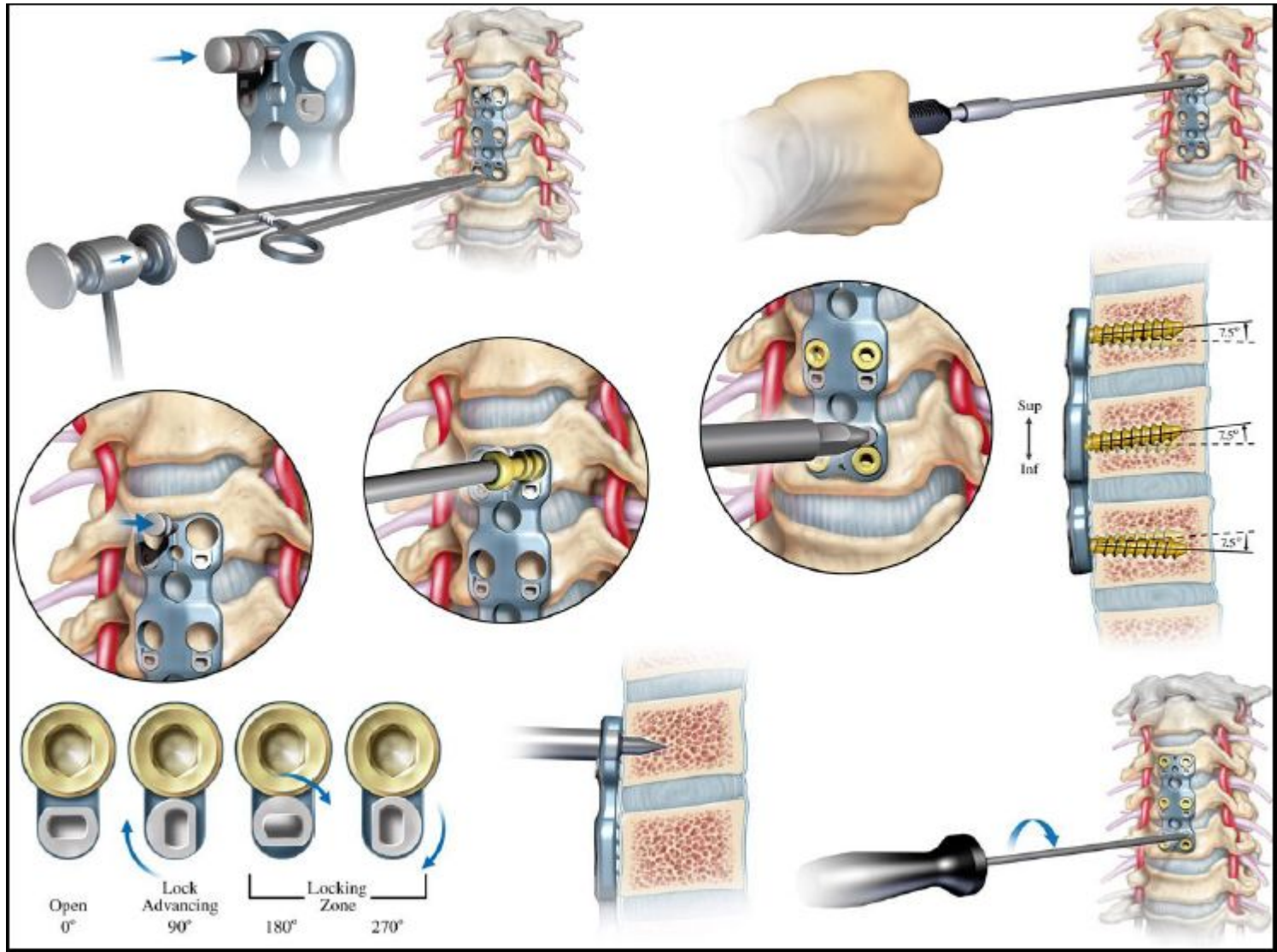
B. The bulging disc material is removed from C5-6.



C. The endplates are drilled to prepare for the bone graft.

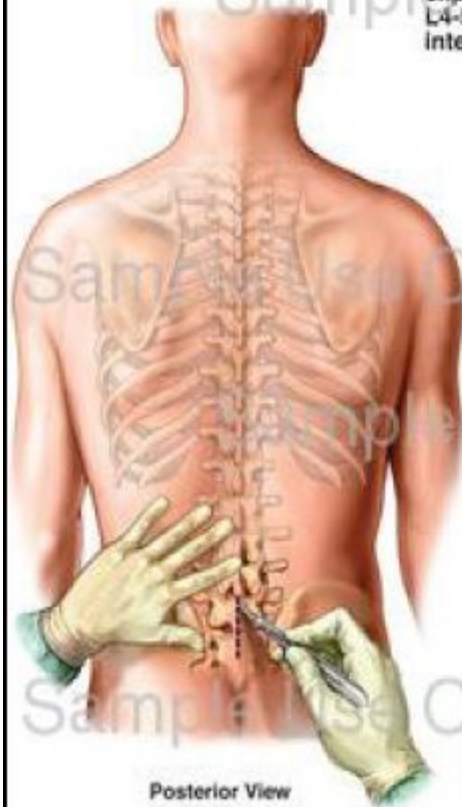


D. The bone graft is placed within the C5-6 interspace, and a plate and screws are placed to complete the fusion.

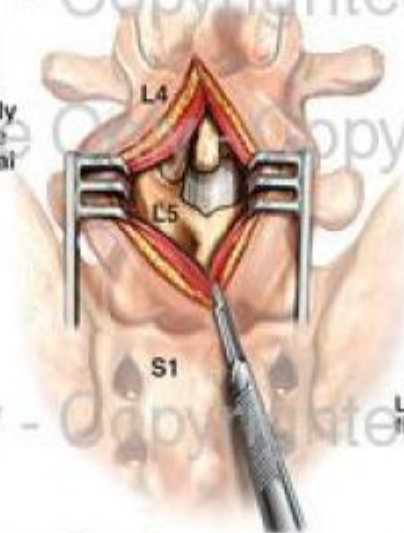


L4-5 Microdiscectomy Procedure

A. A midline incision is made into the low back in the L5-S1 region.



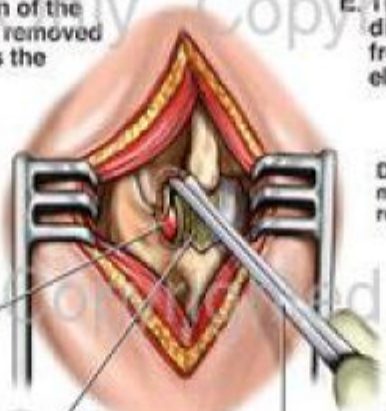
B. Dissection is carried down actually exposing the L4-5 vertebral interspace.



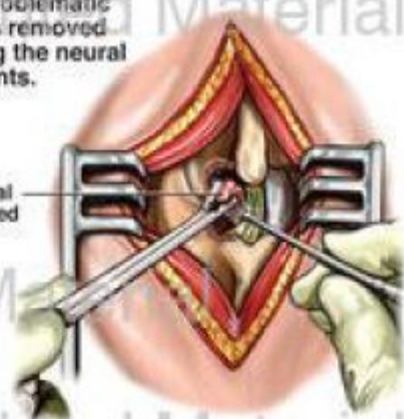
C. The ligamentum flavum is removed.



D. A portion of the lamina is removed to access the disc.



E. The problematic disc is removed freeing the neural elements.



Cauda equina

Kerrison rongeur