

MedOne Neurosurgery



The world's most comprehensive
neurosurgical resource

MedOne Neurosurgery

MedOne Neurosurgery is a unique online platform providing the global neurosurgical community with access to an unparalleled collection of neurosurgical resources. As the market leader in the field, Thieme stays at the forefront of developments to keep trainees and practitioners around the world informed about the latest innovations.

Content covering the breadth and depth of neurosurgery for all levels, from the novice to the expert. MedOne includes hundreds of books, journal archives, operative videos, Q&A, cases, procedures, and more, all by renowned surgeons including Robert Spetzler, Michael Lawton, Peter Nakaji, Nitin Agarwal, Paul Gardner, Roger Härtl, and other experts.

What MedOne can do:

For the neurosurgeon

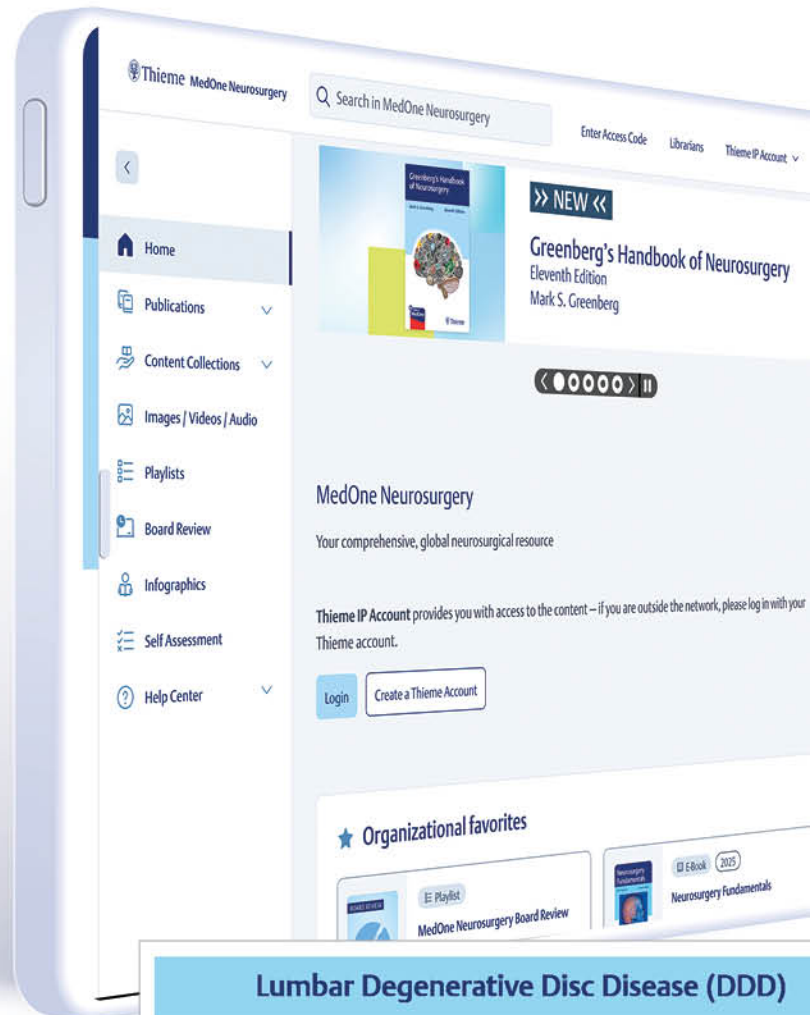
- Connect to innovative research
- Develop additional clinical skills
- Prepare for an upcoming surgery
- Access up-to-date information from global leaders

For the resident

- Prepare for board exams at your own pace
- Study a breadth of cases
- Review core topics before rounds
- Understand the latest clinical techniques and surgical procedures

For your hospital or department

- Promote constant learning among staff
- Improve efficient teaching and quality of care
- Grow individual competencies and understanding
- Increase your appeal to prospective employees



Lumbar Degenerative Disc Disease (DDD)

Lumbar degenerative disc disease without neurologic deficit is first managed conservatively with medications, physical therapy, and possibly epidural steroid injections

Red flag symptoms:

- Sudden loss of sensation in one or both legs, the groin and genital area, and/or the anal region
- "Cauda equina syndrome": Low back pain, pain that radiates down the leg, numbness around the anus, and loss of bowel or bladder control

Most common levels affected by DDD:

- L4-S1
- L5-S1

ANATOMY



- Degenerative disc disease occurs when spinal discs degenerate or wear down
- The discs of the spine cushion the interlocking vertebrae and act as shock absorbers for the back, allowing it to bend, flex, and twist
- They break down over time as a natural part of the aging process
- Dehydration of disc is part of pathology
- Lumbar DDD most commonly causes lumbar radiculopathy or "sciatica"
- Pain, weakness, numbness, or tingling in the leg, buttocks, hips, or lower back
- Pain can be constant, sharp, or burning, and it can make it difficult to move the

PATHOLOGY



Spinal stenosis



TREATMENT

- **Conservative therapy:**
 - Physical therapy
 - Pharmacological management (NSAIDs)
- Most patients experience relief within a month or two with conservative treatment. When these treatments provide relief, surgery may be indicated
- **SURGICAL INTERVENTION:**
 - Discectomy
 - Laminectomy
 - Artificial disc replacement
 - Spinal fusion

The Infographic Guide to Neurosurgery

The most common diseases and disorders presented in high-impact visual abstracts.



Nitin Agarwal
David Fernandes Cabral
Rajen Shambhu

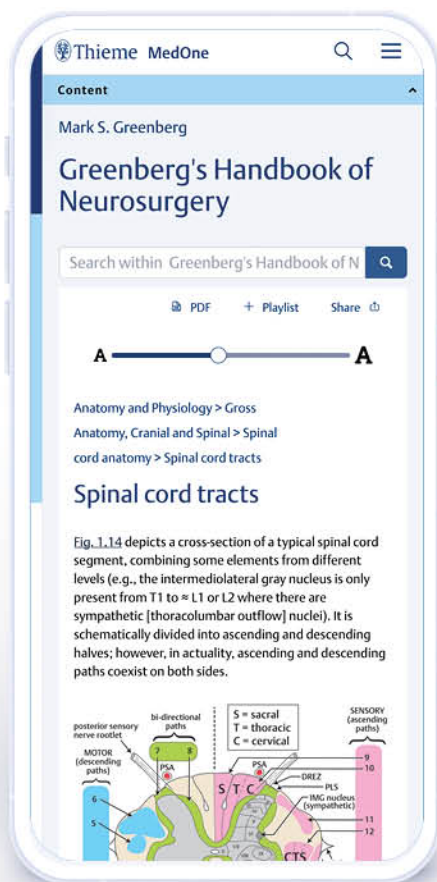
Expert neurosurgical resources

Before surgery

See a pericallosal artery aneurysm clipped with detailed surgical photos and clear anatomic illustrations, or watch how a CSF leak is managed during MISS. The wealth of videos, images, and text are comprehensive, didactic, and created by expert surgeons.

With the boards approaching

Quiz yourself with timed Q&A designed for the ABNS Primary Board exam. Thousands of multiple-choice questions, with answer explanations, comes in an intuitive, feature-heavy interface. Plus, review for oral boards, rounds, and more with a variety of easily accessible board review content – including outlines and cases.



Trusted by leading neurosurgical programs worldwide



Watch to learn more about how MedOne supports neurosurgery departments for better patient care.

When writing, presenting, or teaching

As you research, download content as a PDF or PPT slide with automatically included bibliographic info that's compatible with reference manager software. MedOne's Playlist feature lets you save and organize content for yourself, or to share with trainees and colleagues.

Everyday

Review procedures, cases, browse the latest research, read a chapter or watch an operative video. The depth of content is easily searchable, and with the ability to highlight, take notes, plus access remotely or offline through the MedOne App, you can review the exact information you need, when you need it – making MedOne the ultimate daily reference.

Greenberg's Handbook of Neurosurgery

Trusted for over 30 years, no neurosurgical collection is complete without Mark S. Greenberg's Handbook of Neurosurgery, now in its 11th edition.



More information about what MedOne can do for you

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System Requirements

MedOne Neurosurgery is supported by all leading browsers (Recent versions of Edge, Safari, Chrome, or Firefox).

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