



## General principles

The Functions of the spine and the AO Spine Principles

Principles of spinal instrumentation

Osteobiological materials

Physical rehabilitation in the management of degenerative pathology

Complications in spinal surgery

Anatomy

Approaches & surgical techniques

From the idea to publication (Research)

## Trauma

Management of multiple trauma patient

Classification of traumatic spinal injuries

Treatment of traumatic injuries

Inveterate traumatic injuries

Sacropelvic injuries

## Degeneration

Spinal degeneration process and aging

Disc herniation

Cervical spinal stenosis

Lumbar spinal stenosis

Degenerative spondylolisthesis

Spondylolysis

Isthmic spondylolisthesis

Axial pain of degenerative origin

Adjacent segment pathology

## Adult deformity

Adult scoliosis

Importance of spinal balance

Post-surgical flat back

Pathology of the adjacent segment



## Pediatric Deformity

General concepts

Idiopathic scoliosis

Congenital scoliosis

Neuroparalytic deformities

Low grade spondylolysis and spondylolisthesis in children (isthmic and dysplastic)

Back pain in children

Scheuermann kyphosis

## Oncology

Bone tumors: general aspects

Metastasis

Primary bone tumors

Recurrent lesions

Intraspinal tumors

## Infection

Primary infections

Post-surgical infections

## Inflammatory spondyloarthropathy

Cervical rheumatoid arthritis

Ankylosing spondylitis osteotomies

## Spinal fragility fractures

Osteoporosis

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***All content available in Portuguese and Spanish***

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