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**infection control**

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again, producing  
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trials include:  
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growth factors  
opioids**

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**potentially**

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**discussed in this**

**comprehensive**

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diagnostic and treat  
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these two extremes. It  
represents our views on  
the low back problem,  
supported by scientific*

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*data. Most aspects on  
back pain presented in  
this book can be found  
in other texts. The  
organization of the  
material is unique,  
however. Our approach  
is to start by listening to  
and looking at the  
patient. It becomes  
apparent, then, that  
patients can be  
classified into one of the  
syn dromes described in*

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*chapters 4 through 13.*  
*We believe that this*

*syndrome classification,  
which is quite simple to  
make clinically, will  
allow you to diagnose  
and treat your patients  
more effectively. To set  
the stage for the  
syndrome chapters the  
first three chapters of  
the book are generic to  
the remaining chapters.  
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*epidemiology,  
pathology, biomechanics,*

*etiologic theory,*

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*treatment modalities*

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*back syndromes. They*

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*entities.*

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expertise in current and  
innovative management  
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optimal outcomes in the  
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group of authorities  
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therapy, outcomes  
assessment, and  
alternatives to  
traditional nonoperative  
treatment. The editors  
have also added  
chapters on preparation  
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approaches, spinal  
instrumentation, and  
bone grafts. Chapters  
on specific disorders  
have a consistent*

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*perspectives on this*

*primary clinical*

*concern. Presents a new*

*section on The Failed*

*Back that systematically*

*covers even the most*

*complex problems.*

*Spinal disorders in very*

*young children may be*

*caused by a variety of*

*conditions. The*

*treatment of such*

*conditions is often*

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*challenging due to the age of the patient and the progressive nature of the deformity. There also may be associated problems such as congenital anomalies, respiratory insufficiency, and neurological problems. Depending on the etiology of the deformity, these children are often cared*



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specialists including  
pediatricians, pediatric  
orthopaedists or  
orthopaedic spine  
surgeons, neurologists,  
pediatric surgeons,  
pediatric  
neurosurgeons,  
oncologists, and/or  
pulmonologists. Health  
professionals in all of  
the mentioned  
disciplines are involved*

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these patients, which is*

*why compiling a  
comprehensive textbook  
that is not limited to  
orthopedic specialists is  
essential. This textbook  
will effectively help to  
standardize the care of  
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professionals such as  
nurses, physical  
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illustrations to provide  
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provide an overall  
enhanced learning  
experience.*

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forefront of the  
nuances of spine  
surgery and  
related specialties  
with updates on  
new techniques  
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changing  
treatment options  
and drug  
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overview of the  
secrets you must  
know for success  
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infection and  
revision surgery,  
nearly 40 different  
procedures are  
highlighted, from  
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laminectomy to  
percutaneous  
screws,  
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a resident will  
need to know:  
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diagnosis, OR set-  
up and  
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protocols, and  
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dura or performing  
a lateral interbody  
fusion, spinal  
surgery is a  
technical pursuit,  
and having a firm  
grasp of the details  
can ultimately  
determine the  
procedure's  
success. Written*

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veterans in*

*orthopedic surgery  
and neurosurgery,  
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detailed, user-  
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tion syndrome).*

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the developmental  
anatomy and  
underlying  
anatomy  
associated with  
the syndrome and  
examines  
biomechanics  
related to*

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covers*

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*including clinical*

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*as MRI and CT.*

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*current literature,*  
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*the book supplies*

*guidance on the*

*approach to a*

*potential disc*

*rupture, surgical*

*and medical*

*strategies, and*

*management of*

*the patient.*

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*complete*

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*understanding of  
intervertebral disc  
disease, the book  
describes and  
discusses the  
controversies and  
issues surrounding  
this topic,  
acknowledging the  
gaps in our  
knowledge.*

*Advances in*

*Page 118/248*

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*Intervertebral Disc  
Disease in Dogs*

*and Cats presents  
up-to-date, reliable  
information on this  
common condition  
for veterinary  
surgeons and  
general  
practitioners. Key  
features Describes  
the current*

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disease in dogs  
and cats Provides  
a state-of-the-art,  
complete resource  
focused entirely on  
this common  
clinical problem  
Gives an objective  
picture of the  
controversies  
around*



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disease in canine  
and feline patients  
Presents evidence-  
based and  
clinically relevant  
information for  
understanding and  
treating  
intervertebral disc  
disease Offers  
clear clinical*

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cervical spine.*

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have contributed  
to this text on the  
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generated by  
diseases and  
trauma to the  
cervical spine.*

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used by residents  
nationwide. Board  
pearls are  
indicated with an*

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*concepts and flag  
important clinical*

*and board-eligible  
aspects of each*

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are divided into*

*major subspecialty  
areas written by*

*author teams with  
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also a trusted  
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practice needs.*

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treatments and  
rehabilitation along  
with rheumatologic*

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treatments,  
including new  
criteria for  
diagnosis Addition  
of color to highlight  
artwork and  
content areas Key  
Features: Board  
"Pearls" are  
highlighted with an  
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and stress high-  
yield aspects of  
each topic Covers  
all topics on the  
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Residents (SAE-R)  
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physicians with  
special interest  
and expertise in  
their respective  
areas and  
reviewed by senior  
specialists in those  
areas Organizes  
information in  
outline format and  
by topic for easy*

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over 500 detailed

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*clarify concepts*

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and the gold  
standard for  
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practical guidance  
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to perform every  
procedure, and  
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*data in preparation  
for surgical cases*

*or patient*

*evaluation. Drs.*

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*other expert*

*contributors from*

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that this 4-volume  
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outcomes with  
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in making informed  
clinical choices for  
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provide  
comprehensive  
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*management of*

*disorders of the*

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*techniques used in*

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*tools you need to*

*hone your skills*

*and increase your*

*knowledge in this*

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*challenging area.*

*Clearly organized*

*and extensively*

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*features*

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*both*

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*and orthopaedic*

*surgeons to*

*present a truly*

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including  
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instrumentation,  
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spinal disorders,  
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preservation  
strategies, non-  
surgical  
management, and  
complication  
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well as*

*controversies.*

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techniques,  
complex  
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degenerative

diseases, and

trauma. Presenting

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separate chapter on  
pain syndromes  
also is included.

Spine-related pain is  
the world's leading  
disabling condition,  
affecting every  
population and a  
frequent reason for  
seeking medical  
consultation and  
obtaining imaging  
studies. Numerous  
spinal phenotypes

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(observations/traits)

and their respective

measurements

performed on

various spine

imaging have been

shown to directly

correlate and predict

clinical outcomes.

Atlas of Spinal

Imaging

Phenotypes:

Classifications and

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Measurements is a comprehensive visual resource that highlights various spinal phenotypes on imaging, describes their clinical and pathophysiological relevance, and discusses and illustrates their respective measurement

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techniques and  
classifications.

Helps readers better  
understanding  
spinal phenotypes  
and their imaging,  
and how today's  
knowledge will  
facilitate new  
targeted drug  
discovery, novel  
diagnostics and  
biomarker  
discovery, and

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outcome  
predictions.

Features step-by-step instructions on performing the radiographic measurements with examples of normal and pathologic images to demonstrate the various presentations. Presents clinical

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correlation of the phenotypes as well as the radiographic measurements with landmark

references. Includes validated

classification

systems that

complement the

phenotypes and

radiographic

measurements.

Complies the



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knowledge and expertise of Dr. Dino Samartzis, the preeminent global authority on spinal phenotypes who has discovered and proposed new phenotypes and classification schemes; Dr. Howard S. An, a leading expert in patient management

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and at the forefront  
of 3D imaging of

various spinal  
phenotypes; and Dr.  
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illustrated book  
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information of  
outstanding quality  
on the presentation  
and management of  
the entire range of  
sports injuries and  
conditions likely to  
be encountered by  
the sports medicine  
physician, as well as  
many other topics  
relating to sports  
activity, events, and  
outcomes. It is the

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product of close  
collaboration among  
members of several  
ISAKOS

committees, and the  
chapter authors are  
clinicians and  
scientists from  
across the world  
who are  
acknowledged  
experts in sports  
medicine and  
orthopedics. The

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book opens by discussing fundamental topics and principles, covering subjects such as the biomechanics of injuries, physiological demands in sports practice, sports activity at different ages, nutrition and hydration, strength

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and conditioning,  
injury prevention,  
recovery,  
rehabilitation, and  
return to play.

Subsequent  
chapters focus in  
depth on  
overtraining injuries,  
neurological  
disorders, sports  
trauma to different  
parts of the body,  
and special clinical

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conditions. Further topics to be addressed are different scenarios in sports (e.g., indoor vs outdoor), sports equipment, biologic treatment of sports injuries, major sporting events, and patient-recorded outcome measures.

The treatment of

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Spinal deformities  
has developed at an  
amazing pace over  
the last several  
decades. This text,  
an official product of  
the Scoliosis  
Research Society,  
addresses this  
complex field in a  
single,  
comprehensive  
volume.

This multi-faceted

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book provides readers with comprehensive guidance to spine pain care. Unique in structure, the contents integrate various specialties involved in spine pain care, thereby bringing in new prospective and expanding readership. This six

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part reference  
begins with a review  
on the epidemiology  
and economic  
impacts that present  
clinical and financial  
challenges for spine  
pain care. Part two  
then brings the  
reader into a review  
of the anatomy,  
pathophysiology,  
and etiology of  
spine pain.

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Subsequent parts then dive into clinical evaluation tactics, unique disease conditions and treatment options. Finally, the book closes with two chapters discussing the challenges of spine pain medicine and the potential future directions of the

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residents and  
fellows as a  
supplementary  
educational  
material.

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Avoidance, and  
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The Lumbar Spine

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Imaging Phenotypes

Spinal Deformities

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of the thoracic spine,

from the World

Federation of

Neurosurgical

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include spinal

tumours, spine

biomechanics, spinal

deformity and

infections of the

thoracic spine.

Procedures covered



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and reconstruction of

the thoracic spine.

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and tables, this

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postgraduate students,  
junior consultants and  
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Spinal disorders,  
especially neck and  
back pain, are  
frequent yet  
challenging for  
physicians to manage.  
While most texts are  
highly subspecialized

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well as exploring

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conditions, and

neuromodulation.

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including physical  
therapists,  
radiologists,  
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orthopedic spine  
surgeons, and  
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chapter contains key  
points to summarize  
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fundamental

diagnostic and

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information needed to

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'best practice' care for

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making it a must-read  
for physicians of any  
training level that may  
encounter or treat  
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fills a need in the  
developing area of  
Pain Medicine. It  
provides physicians  
with an up-to-date  
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minimally invasive  
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sacroiliac joint

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radiology of the spinal

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providing a more

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and describes how to

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orthopaedic surgeons

to round out the strong

coverage provided by

the many

neurosurgeon

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authoritative coverage  
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demonstrate how to  
perform every  
procedure step by  
step. Provides more  
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majority of existing  
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om een  
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misdad in te vangen.  
Meena Kandasamy  
balanceert tussen  
ingetogen woede en  
een opvallende  
speelsheid, tussen



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geduchte kritiek, en  
biedt op deze manier  
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die hebben  
bijgedragen aan de  
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moderne India.

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Eismont, Gordon R.  
Bell, Jeffrey S.  
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developments in your  
practice. Highlights  
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key points throughout  
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