

Program

AOSpine Advances Courses

- Spinal Trauma—Recent Insights and Advances
- Controversies in Degenerative Care
- Emerging Concepts in Deformity
- Managing Complex Spinal Conditions

Davos, Switzerland December 14–19, 2008



Our purpose and responsibility is to shape our members skills and understanding of spine principles; to establish new values and incentives for the creation of knowledge, the sharing of wisdom, and the development of new tools and techniques that improve patient care, patient outcomes, and the cost effectiveness of spine surgery.

Excellence in Spine

Welcome to Davos

Dear colleagues,

It is our pleasure to welcome you to the AOSpine Advances Courses in Davos 2008. For many years, these courses have been a special highlight in AOSpine's educational program. They bring together participants from all around the world and a highly professional faculty selected from the five AOSpine regions: Asia Pacific, Europe, Latin America, Middle East, and North America.

Being the flagship of AOSpine's education, the format of the courses in Davos has been continuously developed and adapted to the rapidly changing world. During the years, new teaching concepts have been introduced. Traditional *ex cathedra* teaching has been replaced by more and more interactive sessions. Although there are clearly defined irrevocable principles in spine surgery, there are often many ways of doing things to reach our aim—the optimal treatment for our patients. Therefore, one central goal AOSpine is striving for is to induce open-minded critical discussion. We want to be world leaders in spinal education. Davos is the place to show where we are standing today.

This year, we offer four parallel Advances Courses: Trauma, Degenerative Conditions, Deformities, and Complex Spinal Conditions. Thus every participant has had the opportunity to choose according to her or his needs and special interests.

Every lecture session will be concluded by a structured discussion forum highlighting the core messages of the given topic to improve the efficacy of the learning process. During the practical workshops, the majority of the faculty members will be involved to give hands-on support as well as to discuss common as well as special cases. The well established fireside discussions "Spine & Wine" will give another chance to meet the experts in an informal atmosphere. All participants are urged to bring their own cases for presentation. You should not miss this opportunity!

A major change in comparison to earlier years is the interruption of the structured traditional course week by introducing the AOSpine College, a breakout day in the middle of the week. The participants have the possibility to tailor their own program by choosing events of their special interest from a wide variety of offerings: cadaver labs, lectures on spine technology development, economics, teaching and learning, academic advancement, etc. For details, see the specified program of that day.

The AOSpine Courses do not mean only teaching and learning around the spine. They are also an important social event in the beautiful setting of Davos surrounded by the majestic mountains of the Grisons. They offer countless possibilities for sports activities, cultural pleasure, and making friends.

Welcome to the AOSpine Davos Courses 2008!

Sincerely,



Jens Chapman
Chairperson



Dietrich Schlenzka
Chairperson

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Aims of courses

Spinal Trauma—Recent Insights and Advances

Challenges in the management of spinal trauma have produced some of the major breakthroughs in spinal care, especially with regard to implant design. While some problem areas have been successfully addressed, new areas of care concern continue to emerge. The goals of this course are to address the most controversial topics in spinal trauma, such as the management of polytraumatized patients, the emerging role of minimally invasive spine surgery, the treatment of patients with impaired bone structure, and the management of spinal injuries affecting the elderly. New perspectives on spinal cord injury treatment and outcomes measures offer new learning insights for even the experienced surgeon. From the occipitocervical junction to the sacrum, this course shows an integrated approach to understanding spinal trauma and its state-of-the-art treatment.

Controversies in Degenerative Care

From a number of perspectives, the diagnosis and most appropriate management of degenerative spinal disorders have become one of the major emerging health care challenges in the developed world. As fascinating insights in cartilage physiology and management continue to materialize, utilization of surgical technologies have been increasingly questioned. This course seeks to systematically analyze the current state of knowledge regarding the causes of spinal column degeneration, controversies of diagnosis, and the implementation of intervention strategies. A strong emphasis will be placed on presenting the evidence base available for current diagnostic and treatment modalities to enable course participants to critically reflect on commonly held management beliefs regarding these pervasive disorders. Surgical technologies including nonfusion and pain management techniques will be demonstrated, their potential assessed, and their results critically analyzed.

Emerging Concepts in Deformity

The correction of spinal deformities has evolved from a mainly pediatric problem to one of the most profound intervention options for patients afflicted with major spinal disorders. This course covers the entire perspective of deformity management, from infantile disorders to diseases afflicting the elderly. Goals of this course are to provide critical assessment of the use of recently introduced classification systems and decision making with regard to treatment. The applications of intriguing new health technologies, such as image guidance, genetically modulated protein carriers, and electrodiagnostic monitoring are balanced with critical outlooks on patient-reported outcomes and the avoidance of complications. This course covers topics from nonfusion deformity correction technologies to new approaches in rebalancing of the spinal column and safety enhancement strategies. It is designed to appeal to surgeons operating on both adult and pediatric spines.

Managing Complex Spinal Conditions

In the increasingly aging population, metabolic, neoplastic, and infectious diseases more and more affect the spine, frequently causing considerable disability. Similarly, patients with complications from spine surgery can present with taxing multidimensional management challenges. The goals of this course are to explain systematic evaluation strategies and provide insights into effective, yet individualized intervention options for patients suffering from spinal disorders associated with such conditions. This course strives to enhance the participant's approach to balancing the risks and potential benefits by choosing treatment modalities based upon the critical analysis of a wide range of intervention strategies, ranging from percutaneous to comprehensive surgery. Approaches to maximizing successful outcomes include updates on vertebroplasty, surgery in a compromised host, and implementation of comprehensive surgical reconstruction options using atraumatic techniques. This course will appeal to surgeons with a practice focusing on elective procedures for multidimensional spinal problems and those interested in recognizing and managing complications associated with spinal care.

Course chairpersons

Educational Director

Jeffrey Wang
UCLA/Orthopaedic Hospital
Santa Monica, USA

Chairpersons Advances Courses

Jens R Chapman
Harborview Medical Center
Seattle, USA

Dietrich Schlenzka
ORTON Orthopaedic Hospital
& ORTON Research Institute
Helsinki, Finland

Chairperson Masters Course

Michael E Janssen
Spine Education and Research Institute
Denver, USA

Faculty list

For the complete faculty list go to
www.aospine.org/davos2008

Course organization

AOSpine International

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Program guide

Program and badge color

The interactive courses are color-coded corresponding to the color of your badge.

- Red** Spinal Trauma—Recent Insights and Advances
- Green** Controversies in Degenerative Care
- Purple** Emerging Concepts in Deformity
- Yellow** Managing Complex Spinal Conditions

Letter on your badge

The practical workshops are divided into two groups. The letter on your badge (A or B) corresponds to your allocated group.

Number on your badge

The number on your badge refers to the table you will be working on during the practical workshops. The same number also applies to the Spine & Wine sessions in the Hotel Belvedere.

Course venues

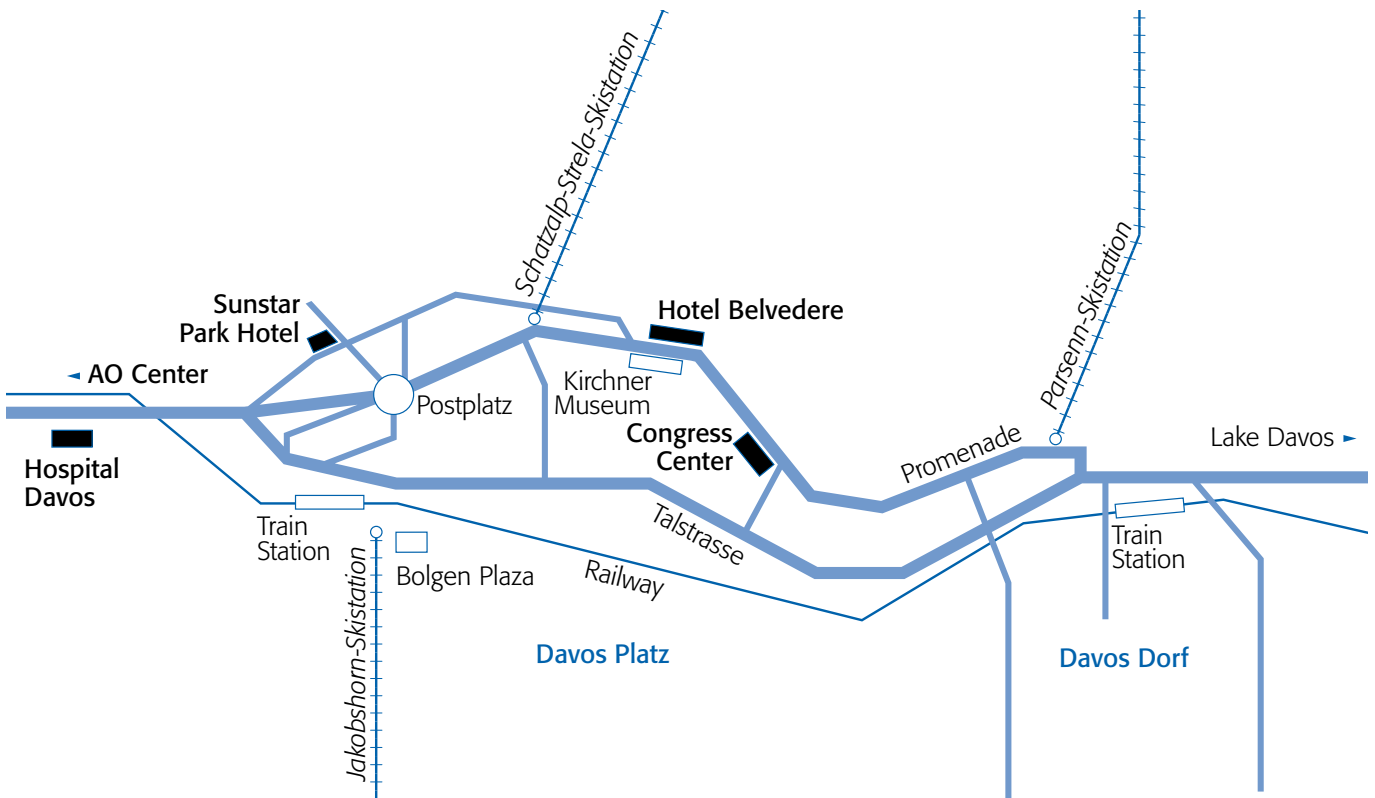
Congress Center Davos
Promenade 92
7270 Davos Platz
Phone +41 81 414 61 11
Fax +41 81 414 64 26

Hotel Steigenberger Belvedere
Promenade 89
7270 Davos Platz
Phone +41 81 415 60 00
Fax +41 81 415 60 01

Hotel Sunstar
Parkstrasse 1
7270 Davos Platz
Phone +41 81 413 14 14
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Secretariat during the courses
AOSpine information desk
Congress Center, House B

Hospital Davos
Promenade 4
7270 Davos Platz
Phone +41 81 414 88 88
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Local buses leave every 10 minutes from the Congress Center and the Postplatz.

Course venue overview

	Spinal Trauma—Recent Insights and Advances	Controversies in Degenerative Care	Emerging Concepts in Deformity	Managing Complex Spinal Conditions
Monday, December 15	<p>Registration of participants Congress Center, House B</p> <p>Lectures (08:00–10:00, combined) Congress Center, Room: Parsenn/Pischa</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p> <p>Lectures Congress Center, Room: Parsenn</p> <p>Spine & Wine Hotel Belvedere, Room: Spina/Rotary</p>	<p>Lectures Congress Center, Room: Pischa</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p> <p>Spine & Wine Hotel Belvedere, Room: Vinothek/Ducan</p>	<p>Registration of participants Hotel Sunstar</p> <p>Lectures (08:00–10:00, combined) Hotel Sunstar, Room: Julier</p> <p>Lectures Hotel Sunstar, Room: Albula</p>	<p>Lectures Hotel Sunstar, Room: Julier</p>
Tuesday, December 16	<p>Lectures Hotel Sunstar, Room: Julier</p>	<p>Lectures Hotel Sunstar, Room: Albula</p>	<p>Lectures Congress Center, Room: Pischa</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p> <p>Spine & Wine Hotel Belvedere, Room: Vinothek/Ducan</p>	<p>Lectures Congress Center, Room: Parsenn</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p> <p>Spine & Wine Hotel Belvedere, Room: Spina/Rotary</p>
Wednesday, December 17	<p>Advances in spine surgery or reinventing the wheel? Congress Center, Room: Parsenn/Pischa</p> <p>Global spine economics Congress Center, Room: Parsenn/Pischa</p> <p>Lunch forum Congress Center, Room: Aspen</p> <p>Seminal learning cases Congress Center, Room: Parsenn/Pischa</p> <p>Surgical cadaver workshops Hospital Davos, Room: Basement, Floor U5</p> <p>Surgeon as scientist Hotel Belvedere, Room: Scaletta</p> <p>Surgeon as teacher Hotel Belvedere, Room: Ducan</p> <p>Surgeon as negotiator Hotel Belvedere, Room: Rotary</p> <p>Surgeon of the future/navigation workshop Congress Center, Basement level</p> <p>AOSpine party Pöstli Club Davos (see separate flyer)</p>			
Thursday, December 18	<p>Lectures Congress Center, Room: Parsenn</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p>	<p>Lectures Congress Center, Room: Pischa</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p>	<p>Lectures Hotel Sunstar, Room: Albula</p>	<p>Lectures Hotel Sunstar, Room: Julier</p>
	Optional navigation workshops Congress Center, Basement level			
Friday, December 19	<p>Lectures Hotel Sunstar, Room: Julier</p>	<p>Lectures Hotel Sunstar, Room: Albula</p>	<p>Lectures Congress Center, Room: Pischa</p> <p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p>	<p>Workshops Congress Center, Room: Jakobshorn/Rinerhorn</p> <p>Lectures Congress Center, Room: Parsenn</p>
	<p>Lectures (afternoon, all together) Congress Center, Room: Parsenn/Pischa</p> <p>Banquet Congress Center</p>			

Monday, December 15, 2008

Location: Congress Center—Room Parsenny/Pischa

TIME	AGENDA ITEM	WHO
08:00–08:05	AOSpine—new perspectives	J Chapman
08:00–08:05	Welcome	J Chapman
08:05–08:20	AOSpine International—global overview	M Janssen
08:20–08:35	Global spine education and research	J Wang
08:35–08:55	Course format/logistics and goals	J Chapman
08:55–09:10	Beyond MRI and x-ray—assessing spine patients	J Fairbank
09:10–09:25	Fusion is not the only end point	A Crockard
09:25–09:30	Discussion	
09:30–10:00	Coffee break	

Location: Congress Center—Room Pischa

Causes and severity assessment of degenerative spinal disorders

TIME	AGENDA ITEM	WHO
10:00–10:15	The normal intervertebral disc	R Emery
10:15–10:30	Facet anatomy—form and function	B Ashman
10:30–10:45	The pathway of disc degeneration—why does it happen?	K Cheung
10:45–11:00	Discography and low back pain—what does it mean?	B Tlay
11:00–11:15	The role of provocative testing—epidurals, facet blocks	M Dauts
11:15–11:30	Quantifying low back pain—how to do it	O Moraes
11:30–12:00	Global panel: Controversies in low back pain assessment	Z Chen, O Hernández, K Wriechert
	Case 1: Single level "black" disc	
	Case 2: Postdiscectomy collapse, positive Modic sign	
	Learning points:	
	1. What causes pain in a degenerative disc?	
	2. How to evaluate a patient with low back pain effectively	
	3. Is there discogenic low back pain?	

12:00–16:00 Lunch break

Monday, December 15, 2008

Location: Sunstar—Room Julier

TIME	AGENDA ITEM	WHO
08:00–08:05	AOSpine—new perspectives	D Schlenzka
08:00–08:05	Welcome	D Schlenzka
08:05–08:20	AOSpine International—global overview	M Grevitt
08:20–08:35	Global spine education and research	K Cheung
08:35–08:55	Course format/logistics and goals	D Schlenzka
08:55–09:10	Beyond MRI and x-ray—assessing spine patients	T Lund
09:10–09:25	Fusion is not the only end point	P Fritzell
09:25–09:30	Discussion	
09:30–10:00	Coffee break	

Location: Sunstar—Room Albulia

Deformity assessment—diagnosis and classification controversies

TIME	AGENDA ITEM	WHO
10:00–10:15	Conceptual approaches to spinal deformity	M Dekutoski
10:15–10:30	Critical review of adolescent idiopathic scoliosis classification systems	M Grevitt
10:30–10:45	Influence of spinal deformity on cardiopulmonary and nutritional function	K Schnake
10:45–11:00	What outcomes tests apply for scoliosis surgery?	F Pellisé
11:00–11:15	The importance of sagittal balance	T Wagner
11:15–11:30	Tethered cord and primary cord pathology in spinal deformity	C Kuntz IV
11:30–12:00	Global panel: Controversies in spinal deformity assessment	J Cheng, E Dawies, Y Nohara
	Case 1: Double major adolescent idiopathic scoliosis	
	Case 2: Neuromuscular scoliosis	
	Learning points:	
	1. Current standard of deformity measurement and classification	
	2. How to identify tethered cord and primary cord pathology	

12:00–16:00 Lunch break

Monday, December 15, 2008

Location: Sunstar—Room Julier

TIME	AGENDA ITEM	WHO
08:00–08:05	AOSpine—new perspectives	D Schlenzka
08:00–08:05	Welcome	D Schlenzka
08:05–08:20	AOSpine International—global overview	M Grevitt
08:20–08:35	Global spine education and research	K Cheung
08:35–08:55	Course format/logistics and goals	D Schlenzka
08:55–09:10	Beyond MRI and x-ray—assessing spine patients	T Lund
09:10–09:25	Fusion is not the only end point	P Fritzell
09:25–09:30	Discussion	
09:30–10:00	Coffee break	

Location: Sunstar—Room Julier

Osteopenia in the spinal column

TIME	AGENDA ITEM	WHO
10:00–10:15	Making the call—diagnosing osteopenia	A Alanay
10:15–10:30	Pharmacological management of osteopenia	G Zaveri
10:30–10:45	Vertebral osteonecrosis (Kümmel disease)—etiology and diagnosis	R Postigo
10:45–11:00	Advances in vertebroplasty	P Heini
11:00–11:15	Vertebral augmentation with kyphoplasty and non-polydimethylmethacrylate substances	J France
11:15–11:30	Surgery in the osteoporotic spine	R Molinari
11:30–12:00	Global panel: Controversies in osteopenia management	R Emery, D Kwok, M Valacco
	Case 1: Multilevel osteopenic insufficiency fractures of the thoracolumbar junction	
	Case 2: Hardware pullout in osteopenic bone—salvage options?	
	Learning points:	
	1. Efficient diagnosis of osteopenia	
	2. What impact does nonoperative care have on surgery in an osteopenic spine?	
	3. How to do surgery in an osteopenic spine	

12:00–16:00 Lunch break

Perioperative spinal infections		I Kalifas
16:00–16:15	Incidence and epidemiology of perioperative spinal infections	M Alvarado
16:15–16:30	Management of early postoperative soft-tissue infections—frequently asked questions	M Cruenberg
16:30–16:45	Postoperative vertebral osteomyelitis—what to do	BJ Shin
16:45–17:00	Prevention of perioperative spinal infections—what works?	T Lund
17:00–17:30	Global panel: Perioperative infections—prevention and management strategies Case 1: Recurrent deep soft-tissue infections after elective posterior instrumentation Case 2: Hardware failure with postoperative vertebral osteomyelitis	J Bernal, I Tabsh, G Vlok
Learning points: 1. Effective prevention strategies 2. Preferred treatment of soft-tissue infections 3. Managing postoperative vertebral osteomyelitis		R Postigo
Optimizing patients for spine surgery		R Postigo
17:45–17:55	Risk factors for poor outcomes—what should we look for before we cut?	R Postigo
17:55–18:05	Good nutrition and successful spine surgery	L Gatam
18:05–18:15	Preoperative weight loss and conditioning—is it helpful?	R McGuire
18:15–18:30	What measures should we implement for elective spine surgery?	R Postigo

Congenital and early growth abnormalities		J Wilson-MacDonald
16:00–16:15	Overview of congenital scoliosis	U Aydinli
16:15–16:30	Growing rods vs bracing in infantile scoliosis	E Davies
16:30–16:45	Vertical thoracic distraction experience—indications and complications	J Smith
16:45–17:00	Growth modulation—stapling and column tethering	H Shaker
17:00–17:30	Global panel: Avoiding fusion surgery in the growing spinal column Case 1: Congenital scoliosis Case 2: Dysplasia	Y Behairy, WJ Shen, T Wagner
Learning points: 1. Growth and deformity prediction in scoliosis of the very young 2. Nonfusion intervention options—pros and cons of various approaches		R Dunn
17:30–17:45	Spine stretch	R Dunn
Making deformity surgery safe		C Shaffrey
17:45–17:55	Neuromonitoring in deformity surgery—how helpful is it?	R Chapa
17:55–18:05	Nutritional support in spinal deformity surgery	T Wagner
18:05–18:15	Posterior ischemic optic neuropathy—what the surgeon should know	R Dunn
18:15–18:30	Intraoperative neurological deterioration	R Dunn

Comparison of fusion strategies for low back pain		A Patel
16:00–16:15	Comparison of surgical outcomes—anterior/posterior	P Fritzell
16:15–16:30	Bone graft substitutes	J Wang
16:30–16:45	ALIF vs PLIF—two level discogenic low back pain	A Patel
Location: Congress Center—Room Jakobshorn/Rinethorn		
Interactive workshop—thoracolumbar single level fusion strategies		A Betemps, P Lichina
16:45–18:15	Practical exercises/case discussions: Thoracolumbar fusion techniques Room A/Jakobshorn D Ajit Singh, A Alanay, A Diwan, S Fruensgaard, O Moraes, Y Wang Room B/Rinethorn Y Kawaguchi, K Schnake, J Schuster, P Vorlat	
18:15–18:30	Break and travel to Spine & Wine	
Location: Belvedere		
Spine & Wine		
18:30–19:30	Fireside discussions Room Vinothek Badge no 80–83 B Ashman, L Gatam, O Hernández, B Jeanneret Room Ducan Badge no 84–87 M Daubs, M Dekutoski, R Molinari, K Schnake	

Spinal cord injury—assessment and treatment		M Fehlings
Location: Congress Center—Room Paiseem		
16:00–16:15	Pathophysiology and classification	R Chesnut
16:15–16:30	Steroids and spinal cord injury—the debate goes on	M Abdel-Wanis
16:30–16:45	Emergent nonpharmacological management	A Hilibrand
16:45–17:15	Global panel: Management controversies in spinal cord injury Case: Dislocated C5/6, ASIA A, MS 10	B Ashman, FR Borges Ribeiro, CC Wong
Learning points: 1. Optimal nonoperative treatment 2. Timing of intervention—complete vs incomplete 3. Emergent intervention indications		
17:15–17:30	Outlook on regenerative strategies	M Fehlings
17:30–17:35	Conclusions and questions	M Fehlings
17:35–17:45	Spine stretch	
Complex diagnostic challenges		A Kroedel
17:45–18:00	Missed spinal injuries—who is affected?	G Zaveri
18:00–18:15	Clearing the pediatric spine	J Chapman
18:15–18:30	Missed cervical spinal injury in a polytraumatized patient	L Anderberg
18:30–18:45	Break and travel to Spine & Wine	
Location: Belvedere		
Spine & Wine		
18:45–19:45	Fireside discussions Room Spina Badge no 60–63 A Diwan, R Sasso, S Satoh, G Zaveri Room Rotary Badge no 64–67 Z Klezi, A Patel, J Soustiel, G Vlok	

Tuesday, December 16, 2008

Location: Congress Center—Room Parsenn

TIME	AGENDA ITEM	WHO
Metastatic disease to the spine		
08:00–08:15	Effective staging of patients with metastatic disease	S Boriani
08:15–08:30	Decision making—surgery, radiation, combined care, or palliative management	J Timothy
08:30–08:45	Advances in radiotherapy	L Rhimes
08:45–09:00	Surgical intervention strategies	B Jeanneret
09:00–09:15	Managing early complications of care	O Hernández
09:15–09:30	Treatment of recurrent disease	M Dekutoski
09:30–10:00	Global panel: Management controversies in metastatic diseases	J Cheng, M Taricco, G Zaveri
Case 1: Multilevel breast or prostate metastases to thoracic spine. Case 2: Renal cell carcinoma to spine		
Learning points: 1. Streamlined diagnostic approaches 2. Indications for surgery vs nonoperative care 3. Complications of care		
10:00–10:30	Coffee break	
Location: Congress Center—Room Jakobshorn/Rinehorn		
Interactive workshop—Rebuilding the unstable thoracolumbar spine		
M Dekutoski, B Jeanneret		
10:30–12:00	Practical exercises/case discussions	
Rebuilding the unstable thoracolumbar spine		
Room A/Jakobshorn D Ajit Singh, S Boriani, O Hernández, Z Klezl, H Shaker, G Vlok		
Room B/Rinehorn J Cheng, D Kwok, G Zaveri		
12:00–16:00	Lunch break	

Tuesday, December 16, 2008

Location: Congress Center—Room Pischa

TIME	AGENDA ITEM	WHO
Adolescent deformities		
08:00–08:15	Update on causation and nonoperative care	J Wilson-MacDonald
08:15–08:30	Overview of anterior surgical treatment	M Grevitt
08:30–08:45	Posterior treatment	K Schnake
08:45–09:00	Determining levels of fixation—caudal and cranial consideration	P Licina
09:00–09:15	What is more important—curve correction or balance?	KV Menon
09:15–09:30	Neurological deterioration	E Woodard
09:30–10:00	Global panel: Management controversies in adolescent idiopathic scoliosis	A Alanay, A Betemps, L Gatam
Case 1: Convex midthoracic curve Case 2: Lumbar curve—decompensated		
Learning points: 1. Current role of nonoperative care for adolescent idiopathic scoliosis 2. Indications for surgery 3. Outcomes of various surgical approaches in adolescent idiopathic scoliosis 4. Determining appropriate levels of fixation		
10:00–10:30	Coffee break	
Neuromuscular scoliosis		
J Smith, C Shaffrey		
10:30–10:45	Surgical challenges in neuromuscular scoliosis	
10:45–11:00	Neurofibromatosis	M Abdel-Wanis
11:00–11:15	Special problems in myelomeningocele	E Davies
11:15–11:30	Pelvic fixation	T Wagner
11:30–12:00	Global panel: Insights into managing neuromuscular scoliosis	A Alanay, J France, K Schnake
Case 1: Spastic CP—decompensated curve Case 2: Postopilio decompensation in adult patients		
Learning points: 1. Differential diagnosis of neuromuscular scoliosis 2. Indications for surgical vs nonoperative care 3. Complications of surgery in neuromuscular scoliosis		
12:00–16:00	Lunch break	

Tuesday, December 16, 2008

Location: Sunstar—Room Albula

TIME	AGENDA ITEM	WHO
Managing low back pain—nonoperative vs operative		
J Fairbank		
08:00–08:15	Natural course history of discogenic low back pain	T Lund
08:15–08:30	Efficacy of nonoperative low back pain measures—cognitive intervention, physical therapy, opioids	M Dauts
08:30–08:45	Comparing surgery and nonoperative care results	J Fairbank
08:45–09:00	When does fusion for low back pain work?	P Fritzell
09:00–09:15	Unhappy patient after successful fusion	D Kwok
09:15–09:30	Nonunion after attempted fusion—what to do?	KD Riew
09:30–10:00	Global panel: Low back pain management	FR Borges Ribeiro, Y Nohara, K Wiechert
Case: 2- or 3-level disc degeneration		
Learning points: 1. When to operate and when to use nonoperative care 2. Outcomes of fusion surgery for low back pain 3. What to do when fusion fails?		
10:00–10:30	Coffee break	
Managing low back pain—disc replacement		
R Chapa		
10:30–10:45	Technical principles and indications	K Wiechert
10:45–11:00	Surgical approaches for lumbar disc arthroplasty	S Brau
11:00–11:15	Outcomes after disc arthroplasty—the evidence	M Janssen
11:15–11:30	Failed disc arthroplasty—what to do?	P Licina
11:30–12:00	Global panel: Disc replacement	J Fairbank, P Fritzell, R McGuire
Case: Black disc L4/5 and low back pain		
Learning points: 1. Understand technical principles of disc arthroplasty 2. When and how to perform? 3. Solutions for failed arthroplasty		
12:00–16:00	Lunch break	

Tuesday, December 16, 2008

Location: Sunstar—Room Jullier

TIME	AGENDA ITEM	WHO
Thoracolumbar fractures		
A Patel		
08:00–08:15	Assessment of injury severity	J France
08:15–08:30	Nonoperative treatment—indications, limits, and outcomes	E Davies
08:30–08:45	Comparison—anterior vs posterior surgery	A Kroedel
08:45–09:00	Results of minimally invasive thoracolumbar surgery	R Emery
09:00–09:10	Preferred treatment—type A burst injuries	M Valacco
09:10–09:20	Preferred treatment—type B flexion-distraction injuries	Z Klezl
09:20–09:30	Preferred treatment—type C fracture dislocation	R Molinari
09:30–10:00	Global Panel: Management controversies in thoracolumbar fractures	C Bellabarba, Z Chen, J Soustiel
Case: Unstable T12 burst fracture, ASIA E, MS 100		
Learning points: 1. Effective assessment and classification strategies 2. When to operate, when to treat nonoperatively? 3. What is the best surgical strategy?		
10:00–10:30	Coffee break	
Lower lumbar and lumbosacral trauma		
C Bellabarba		
10:30–10:45	What is different about lower lumbar spinal trauma?	R Molinari
10:45–11:00	Short or long-segment posterior fixation?	R Chesnut
11:00–11:15	Lumbosacral dislocations	A Betemps
11:15–11:30	Sacral fractures	C Bellabarba
11:30–12:00	Global panel: Preferred approaches	O Moraes, J Schuster, M Valacco
Case 1: Denis Zone 3 injury, spinal cord injury Case 2: L4 burst fracture, ASIA E, MS 100, isolated injury		
Learning points: 1. When to operate? 2. How to operate? 3. Controversies		
12:00–16:00	Lunch break	

<p>Lower cervical spinal trauma A Hilibrand</p> <p>16:00–16:15 Assessment and classification M Fehlings</p> <p>16:15–16:30 Nonoperative care—indications and results B Ashman</p> <p>16:30–16:45 Anterior vs posterior surgery in subaxial trauma A Kroedel</p> <p>16:45–17:00 Vertebral artery injuries A Crockard</p> <p>17:00–17:10 Preferred treatment—type A burst injuries M Valacco</p> <p>17:10–17:20 Preferred treatment—central cord syndrome R Emery</p> <p>17:20–17:30 Preferred treatment—unilateral facet fractures A Sadao Iiutaka</p> <p>17:30–17:55 Global panel: Management controversies in lower cervical spinal fractures B Jeanneret, P Licina, J Matta</p> <p>Case: Unstable C6 burst fracture, ASIA A, MS 20</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. Effective assessment and classification strategies 2. Is there a role for halo treatment? 3. Define the role of anterior, posterior, and combined surgery <p>17:55–18:00 Spine stretch</p> <p>Managing pediatric cervical spinal injuries J Soustiel</p> <p>18:00–18:15 Management options and results J Schuster</p> <p>18:15–18:30 Discussion</p>	<p>Lumbar spinal stenosis Y Nohara</p> <p>16:00–16:15 Observations on stenosis—classification and natural course history E Woodard</p> <p>16:15–16:30 Comparison on decompression techniques S Satoh</p> <p>16:30–16:45 Fusion for stenosis surgery—when? A Betemps</p> <p>16:45–17:00 Interspinous spacers—advancement or temporizer? P Pavlov</p> <p>17:00–17:30 Global panel: Controversies in stenosis management M Daubs, T Lund, G Zaveri</p> <p>Case: Stable grade L4/5 degenerative spondylolisthesis with stenosis</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. When to operate? 2. How to operate? 3. Role of nonfusion devices <p>17:30–17:45 Spine stretch</p> <p>Degenerative scoliosis E Woodard</p> <p>17:45–18:00 Classification and natural course history T Wagner</p> <p>18:00–18:15 Surgery—results M Grevitt</p> <p>18:15–18:30 Decompression surgery only? L Papavero</p> <p>18:30–19:00 Global panel: Indications FR Borges Ribeiro, Y Kawaguchi, R Molinari</p> <p>Case: Decompensated degenerative scoliosis in elderly female with stenosis</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. Nonoperative care options and natural course history 2. Optimizing surgical outcomes 3. Understanding complications of degenerative scoliosis surgery 	<p>Dealing with impaired bone M Gruenberg</p> <p>16:00–16:15 Comparison of biomechanical properties of posterior thoracolumbar fixation techniques K Schnake</p> <p>16:15–16:30 Bailout options for fixation in dysplastic bone WJ Shen</p> <p>16:30–16:45 Diagnosis and treatment of nonunion in spinal deformity surgery J Cheng</p> <p>16:45–17:00 Understanding and treating Charcot arthropathy J Chapman</p> <p>Location: Congress Center—Room Jakobshorn/Rinerhorn</p> <p>Interactive workshop—thoracolumbar instrumentation techniques U Aydinli, M Dekutoski</p> <p>17:00–18:30 Practical exercises/case discussions: Thoracolumbar instrumentation techniques</p> <p>Room A/Jakobshorn A Alanay, K Cheung, M Gruenberg, K Schnake, WJ Shen, G Vloek</p> <p>Room B/Rinerhorn M Abdel-Wanis, E Davies, KV Menon, C Shaffrey</p> <p>18:30–18:45 Break and travel to Spine & Wine</p> <p>Location: Belvedere</p> <p>Spine & Wine</p> <p>18:45–19:45 Fireside discussions</p> <p>Room Vinothek Badge no 70–73 E Davies, P Licina, K Schnake, J Soustiel</p> <p>Room Ducan Badge no 74–77 M Grevitt, KV Menon, Y Nohara, J Wilson-MacDonald</p>	<p>Primary spinal column lesions S Boriani</p> <p>16:00–16:15 Review of common spinal injuries R Dunn</p> <p>16:15–16:30 Indications for local ablative treatment J France</p> <p>16:30–16:45 Indications for radical resection J Timothy</p> <p>16:45–16:55 Sacral chordoma S Boriani</p> <p>16:55–17:00 Spine stretch</p> <p>Neural element diseases J Timothy</p> <p>17:00–17:15 Review of common lesions J Timothy</p> <p>17:15–17:30 Treatment outcomes C Kuntz IV</p> <p>17:30–17:45 Pitfalls O Moraes</p> <p>17:45–18:00 Craniocervical chordoma R Postigo</p> <p>18:00–18:15 Break and travel to Spine & Wine</p> <p>Location: Belvedere</p> <p>Spine & Wine</p> <p>18:15–19:15 Fireside discussions</p> <p>Room Spina Badge no 90–93 R Chapa, T Lund, R McGuire</p> <p>Room Rotary Badge no 94–97 S Boriani, R Dunn, O Moraes, F Pellisé</p>
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AOSpine College Day, Wednesday December 17, 2008

TIME	AGENDA ITEM	WHO	WHERE
Spine forum A global exchange of ideas			Congress Center
08:30–10:00	Advances in spine surgery or reinventing the wheel?	J Chapman	
08:30–08:50	Special invited guest lecture: adjacent segment degeneration	A Hilibrand	
08:50–09:00	The case for motion preservation	M Janssen	Parsenn/Pischa
09:00–09:10	Spinal motion preservation is a mistake and marketing ploy	P Licina	
09:10–09:20	The case for dynamic stabilization	C Kuntz IV	
09:20–10:00	Public discussion: is motion preservation the future, an alternative, or pure marketing?		
10:00–10:30	Coffee break		
10:30–12:00	Global spine economics	J Wilson-MacDonald	
10:30–10:40	Overview of cost development of spine care around the world	M Grevitt	
10:40–11:00	Special invited guest lecture: do the results justify the means? High-tech spinal treatment in an outcomes perspective	J Fairbank	Parsenn/Pischa
11:00–11:10	Arguments in favor to further high-tech spinal developments	E Woodard	
11:10–11:20	Concentrate on the essentials: curtail spinal care to the essentials	KV Menon	
11:20–12:00	Discussion: Imbalance of spinal care needs around the world How should we spend spine R&D dollars and clinical funds?		
12:15–14:00	AOSpine lunch forum (boxed lunches provided)	M Janssen	
12:15–12:30	Midweek course summary: how are we doing	J Chapman, D Schlenzka	
12:30–13:00	Discussion		Aspen
13:00–13:15	Visions for AOSpine education of the future	R McGuire	
13:15–13:35	Special invited guest lecture: teaching the teachers—what works?	T Lund	
13:35–13:50	Learning by proxy: future surgeon education	J Wang	
13:50–14:00	Discussion		
14:05–16:05	“Seminal learning cases” presented by AOSpine faculty around the world Faculty case selections featuring “my best case—my worst case” scenarios	A Kroedel, P Heini, P Licina, A Crockard	Parsenn/Pischa
Surgical cadaver workshops (all cadaver labs are strictly limited to 40 participants per session, sign-up necessary) Transport information see page 11			
Surgeon as learner			Hospital Davos
08:00–09:30	Percutaneous spine techniques	D Kwok, K Schnake, K Wiechert, P Heini, P Pavlov	
10:15–11:45	Minimally invasive surgery	FR Borges Ribeiro, O Moraes, J Schuster, A Patel, A Korge	
12:30–14:00	Cervical disc arthroplasty	R Bertagnoli, R Sasso, R Emery, C Shaffrey	Basement level, U5
14:45–16:15	Lumbar disc arthroplasty	M Janssen, S Brau, J Cheng, B Tay	
Academic advancement sessions			
Surgeon as scientist			Hotel Belvedere
08:30–10:00	Setting up and running a prospective study and data base: the AOCID experience	B Hanson, B Kopjar	
10:30–12:00	Grant writing: how to do it	B Kopjar, D Riew, R Chesnut	Scaletta
12:30–14:00	Getting your scientific paper published	A Hilibrand, M Fehlings	
14:30–16:00	Running a successful basic science lab: practical tips	K Cheung, C Kuntz IV	
Surgeon as teacher			
08:30–10:00	Effective AOSpine teaching	L Hadfield-Law, M Daubs	
10:30–12:00	Using PowerPoint for teaching	B Ashman, D Webb	Ducan
12:30–14:00	How to be an effective lecturer	KV Menon, J O'Dowd	
14:30–16:00	E-learning: a new way to disseminate knowledge	M Dekutoski, M Alvarado	
Surgeon as negotiator			
08:30–10:00	The power of “yes”—secrets to successful negotiations	M Dissel, B McConaty, R McGuire	
10:30–12:00	Secrets to a successful interview	B McConaty, Z Klezl, R Molinari	Rotary
12:30–14:00	Surviving in a medical legal world	R Chesnut, B McConaty, G Zaveri	
14:30–16:00	Protecting intellectual property and assets of physicians	E Woodard, K Safft, M Grevitt	
Surgeon of the future			Congress Center
08:30–10:00	Navigational workshop: Instrumenting in the C-, T-, and L-spine	T Lund, P Vorlat	Basement level
10:30–11:30	Navigational workshop: Instrumenting in the C-, T-, and L-spine	T Lund, P Vorlat	

If you have not yet registered for the above mentioned cadaver workshop sessions, and you are interested to participate, please visit us at our information desk in the Congress Center, House B.

AOSpine College Day Cadaver Workshop

Wednesday, 17 December 2008, Hospital Davos

Topics:

- Percutaneous spine techniques
- Minimally invasive surgery
- Cervical disc arthroplasty
- Lumbar disc arthroplasty

For registration and further information please visit us at the AOSpine information desk in the Congress Center, House B.

Limited number of seats available.



TIME	AGENDA ITEM	WHO
Thursday, December 18, 2008		
Location: Sunstar—Room Julier		
	Vertebral osteomyelitis/discitis	G Zaveri
08:00–08:15	Insights into pathophysiology, epidemiology, and assessment	FR Borges Ribeiro
08:15–08:30	Epidural abscess—diagnosis and management	C Kuntz IV
08:30–08:45	Nonoperative management of spinal column infections—results	D Ajit Singh
08:45–09:00	Surgical intervention for vertebral osteomyelitis	F Pellisé
09:00–09:15	Patients with multilevel diseases—how to approach them	J France
09:15–09:30	Complications of osteomyelitis management	M Gruenberg
09:30–10:00	Global panel: Management controversies in osteomyelitis	R Emery, J Matta, CC Wong
	Case 1: Cervical epidural abscess	
	Case 2: Lumbar osteomyelitis/discitis	
	Learning points: 1. When is surgery indicated? 2. What is the preferred timing for surgical intervention? 3. What is the standard of nonoperative care?	
10:00–10:30	Coffee break	
	Nonpyogenic infections	K Cheung
10:30–10:45	Tuberculosis of the spine—emerging trends and concerns	U Aydinli
10:45–11:00	Pott disease—long-term outlook on treatment results	KV Menon
11:00–11:15	Kyphosis correction in Pott disease—is it necessary?	K Cheung
11:15–11:30	Rare spinal infections	U Aydinli
11:30–12:00	Global panel: Treatment controversies in Pott disease	Z Chen, L Gatam, R Postigo
	Case 1: Mildly kyphotic thoracic tuberculosis, intact	
	Case 2: Highly kyphotic thoracic tuberculosis, incomplete	
	Learning points: 1. When to operate for Pott disease? 2. What are the results of surgical intervention? 3. What are the concerns for healthcare providers treating tuberculosis?	
12:00–16:00	Lunch break	

TIME	AGENDA ITEM	WHO
Thursday, December 18, 2008		
Location: Sunstar—Room Albulá		
	Isthmic and dysplastic spondylolisthesis	D Schlenzka
08:00–08:15	How do we assess spondylolisthesis? Clinical and radiographic perspectives	Y Nohara
08:15–08:30	Strategies in pediatric low-grade slips	R Postigo
08:30–08:45	High-grade slips—the case for reduction	C Shaffrey
08:45–09:00	High-grade spondylolisthesis—the case for fusion in situ	D Schlenzka
09:00–09:15	Adult isthmic spondylolisthesis—treatment concepts	Z Klezl
09:15–09:30	The role of minimally invasive surgery for spondylolisthesis	O Moraes
09:30–10:00	Global panel: Controversies in spondylolisthesis surgery	S Fruensgaard, D Kwok, M Tarocco
	Case 1: Pediatric high-grade isthmic L5/S1 spondylolisthesis	
	Case 2: Adult low-grade L5/S1 isthmic spondylolisthesis	
	Learning points: 1. When is surgery indicated? 2. What are the outcomes of spondylolisthesis surgery? 3. What are the preferred treatment options for various types of spondylolisthesis?	
10:00–10:30	Coffee Break	
	Cervical spinal deformities	L Papavero
10:30–10:45	Treatment of lower cervical spinal kyphosis	I Kalfas
10:45–11:00	Effect of cervical arthroplasty on cervical kyphosis	B Tay
11:00–11:15	Cervicothoracic junctional kyphosis	I Tabsh
11:15–11:30	Upper cervical spinal kyphosis	J Soustiel
11:30–12:00	Global panel: Treating cervical kyphosis	M Abdel-Wanis, E Davies, R Molinari
	Case 1: Posttraumatic midcervical kyphosis	
	Case 2: High-grade spondylotic kyphosis with myelopathy	
	Learning points: 1. What is the clinical impact of cervical kyphosis? 2. What are the principles of surgical intervention? 3. What are typical complications of cervical deformity correction surgery?	
12:00–16:00	Lunch break	

TIME	AGENDA ITEM	WHO
Thursday, December 18, 2008		
Location: Congress Center—Room Pischá		
	Cervical spondylolysis—reconstruction techniques	KD Riew
08:00–08:15	Assessment of the patient with spondylotic neck	M Valacco
08:15–08:30	Radulopathy—nonoperative care and its outcomes	J Schuster
08:30–08:45	Radulopathy—decompression alone or fusion?	KD Riew
08:45–09:00	The adjacent segment degeneration controversy	A Hilibrand
09:00–09:15	Arthroplasty—results in comparison to fusion	B Tay
09:15–09:30	Thoracic disc herniation—current recommendations	J Chapman
09:30–10:00	Global panel: Management controversies in cervical spondylolysis	L Gatam, A Kroedel, S Satoh
	Case 1: C5/6, C6/7 spondylolysis with radiculopathy	
	Case 2: Large midthoracic HNP, myelopathy	
	Learning points: 1. What type of nonoperative care and how long? 2. What surgical care is preferred for cervical radiculopathy? 3. What are the treatment recommendations for thoracic HNP?	
10:00–10:30	Coffee break	
	Interactive workshop—reconstruction for cervical spondylolysis	L Aderberg, KD Riew
10:30–12:00	Practical exercises/case discussions: Reconstruction of the degenerative cervical spine	
	Room A/Jakobshorn	
	R Emery, Y Kawaguchi, J Matta, L Rhines, G Vlok, T Wagner	
	Room B/Rinerhorn	
	A Hilibrand, O Moraes, WJ Shen, P Vorlat	
12:00–16:00	Lunch break	

TIME	AGENDA ITEM	WHO
Thursday, December 18, 2008		
Location: Congress Center—Room Parsem		
	Upper cervical spinal trauma	R Dunn
08:00–08:15	Atlas fractures and transverse atlantal ligament injuries—assessment, classification, and treatment	B Jeanneret
08:15–08:30	Classification of odontoid fractures and pathoanatomy	A Hilibrand
08:30–08:45	When and how to treat odontoid screw fixation—when and how?	M Alvarado
08:45–09:00	Comparison of posterior C1/2 fixation options	R Sasso
09:00–09:15	Geriatric odontoid fractures	A Crockard
09:15–09:30	Global panel: Resolving controversies—odontoid fractures	R Sasso, J Cheng, M Grevitt, HI Park
	Case: Displaced geriatric type II odontoid fracture, ASIA E, MS 100	
	Learning points: 1. Is halo use outdated? 2. When and what type of surgery? 3. What are the management pitfalls?	
10:00–10:30	Coffee break	
	Junctional cervical spinal trauma—craniocervical and cervicothoracic injuries	C Kuntz IV
10:30–10:45	Craniocervical trauma—classification and emergent management	C Bellabarba
10:45–11:00	Techniques of craniocervical fusion	A Crockard
11:00–11:15	Cervicothoracic trauma	R McGuire
11:15–11:30	Multilevel cervical spinal fractures	B Jeanneret
11:30–12:00	Global panel: Preferred approaches	B Ashman, Z Klezl, A Patel
	Case 1: AOD with spinal cord injury	
	Case 2: C7/T1 fractures/DI	
	Learning points: 1. Avoiding missed injuries 2. Optimal treatment 3. Controversies	
12:00–16:00	Lunch break	

<p>Treatment of complex spinal trauma (ankylosing spondylitis fractures, geriatric patients)</p> <p>16:00–16:15 Overview of spinal injuries in ankylosing conditions J Chapman M Abdel-Wanis</p> <p>16:15–16:30 Avoiding complications in elderly patients M Gruenberg</p> <p>16:30–16:45 Staging spinal treatment in the polytraumatized patient R Molinari</p> <p>Location: Congress Center—Room Jakobshorn/Rinerhorn</p>	<p>Spondylitic myelopathy</p> <p>16:00–16:15 Natural course history and evaluation of cervical spondylitic myelopathy P Vela R Sasso</p> <p>16:15–16:30 Anterior vs posterior decompression fusion surgery Y Behairy</p> <p>16:30–16:45 Technique and results of laminoplasty and laminectomy alone S Satoh</p> <p>16:45–17:00 Results of AOSpine multicenter cervical spondylitic myelopathy treatment trial M Fehlings</p> <p>17:00–17:30 Global panel: Care controversies in cervical spondylitic myelopathy management R Chesnut, J Soustiel, M Taricco</p> <p>Case 1: Mildly kyphotic neck with moderate myelopathy</p> <p>Case 2: Widespread OPLL with advanced myelopathy</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. What is the pattern of disease progression of cervical spondylitic myelopathy? 2. What are the results of surgical intervention depending upon disease severity? 3. What are the common complications? 	<p>Degenerative scoliosis</p> <p>16:00–16:15 Overview of degenerative scoliosis and natural course history C Shaffrey FR Borges Ribeiro</p> <p>16:15–16:30 Decompression surgery only—when and how? J Schuster</p> <p>16:30–16:45 Limited fixation in degenerative lumbar scoliosis M Valacco</p> <p>16:45–17:00 Comprehensive deformity correction and results T Lund</p> <p>17:00–17:25 Global panel: Management controversies in degenerative scoliosis L Gatam, P Heini, T Wagner</p> <p>Case 1: Compensated degenerative lumbar scoliosis with stenosis above lumbar instrumentation</p> <p>Case 2: Junctional breakdown above lumbar instrumentation</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. What are the disease implications of adult de novo degenerative scoliosis? 2. What are typical surgical management concerns? 3. How to manage patients with osteopenic bone? <p>17:25–17:30 Spine stretch</p>	<p>Rheumatoid arthritis of the spine</p> <p>16:00–16:15 Primary inflammatory arthritic disorders A Crockard Z Klezl</p> <p>16:15–16:30 Natural course history of rheumatoid disease of the cervical spine KD Riew</p> <p>16:30–16:45 Surgical intervention in rheumatoid cervical disease B Jeanneret</p> <p>16:45–17:00 Lumbar surgery in patients with rheumatoid arthritis M Daubs</p> <p>17:00–17:25 Global panel: Management controversies of rheumatoid arthritis A Betemps, M Dekutoski, Y Kawaguchi</p> <p>Case 1: Moderate C1/2 instability</p> <p>Case 2: Lumbar degenerative scoliosis with stenosis in connective tissue disease</p> <p>Learning points:</p> <ol style="list-style-type: none"> 1. What is the pattern of disease progression of upper cervical spinal deformity in rheumatoid arthritis? 2. When is surgery in cervical rheumatoid arthritis indicated? 3. What are concerns in thoracolumbar surgery in patients with connective tissue disease? <p>17:25–17:30 Spine stretch</p>
<p>Interactive workshop—cervical spinal trauma</p> <p>16:45–18:15 Practical exercises/case discussions: Cervical spinal trauma</p> <p>Room A/Jakobshorn J Bernal, J Matta, R McGuire, A Sadao Iutaka, B Tay, J Timothy</p> <p>Room B/Rinerhorn A Alanay, C Kuntz IV, B Shin, CC Wong</p>	<p>Pain management</p> <p>17:30–17:45 Dorsal column stimulators and opiate pumps—Indication and results J Cheng A Patel</p> <p>17:45–18:00 Cognitive behavioral therapy—what is it, and what are the results? T Lund</p> <p>18:00–18:15 Chronic neck pain after fusion J Cheng</p>	<p>Thoracic kyphosis</p> <p>17:30–17:45 Implications of thoracic kyphosis J Smith</p> <p>17:45–18:00 Scheuermann disease—current concepts P Licina</p> <p>18:00–18:15 Osteopenic thoracic fractures—management options P Heini</p> <p>18:15–18:30 Thoracic spondylitic myelopathy with hyperkyphosis U Aydinli</p>	<p>Arthritic disorders of the spine</p> <p>17:30–17:45 General management concerns of patients with arthritic disorders—NSAID, BMP B Jeanneret J France</p> <p>17:45–18:00 Ankylosing spondylitis and DISH—management concerns C Bellabarba</p> <p>18:00–18:15 Corrective osteotomy in ankylosing spondylitis K Schnake</p> <p>18:15–18:30 Failed ankylosing spondylitis deformity correction O Hernández</p>

Friday, December 19, 2008

Location: Sunstar—Room Julier

TIME	AGENDA ITEM	WHO
08:00–08:15	Osteopenic fractures	P Heini
08:15–08:30	Incidence and pathophysiology	J Bernal
08:30–08:45	Primer on nonsurgical care	A Patel
08:45–09:00	Vertebroplasty or kyphoplasty?	P Heini
09:00–09:15	Alternative biosubstances	J France
09:15–09:30	Surgical intervention—indications and results	K Schnake
09:30–09:45	Deformity correction in osteoporotic bones	A Diwan
09:45–10:00	Global panel: Management controversies in osteopenic spinal fractures	Z Klezl, M Valacco, J Wang
10:00–10:30	Case 1: Single level T12 osteopenic burst fracture, ASIA E, MS 100 Case 2: Multi level osteopenic fractures with deficit	
10:30–10:45	Posttraumatic conditions	M Dekutoski
10:45–11:00	Assessment and impact of posttraumatic kyphosis—what is "acceptable"?	T Wagner
11:00–11:15	Posttraumatic thoracolumbar deformity correction—concepts and results	M Dekutoski
11:15–11:30	Posttraumatic spondylomyelia and related conditions	J France
11:30–12:00	Fixed posttraumatic cervical kyphosis—correction options and outcomes	J France
12:00–16:00	Global panel: Management controversies in posttraumatic conditions Case 1: Cervical kyphosis with spondylomyelia in ASIA A patients Case 2: Fixed kyphosis ASIA E thoracolumbar fractures	Y Behairy, F Pellisé, WJ Shen
12:00–16:00	Lunch break	

Friday, December 19, 2008

Location: Sunstar—Room Albula

TIME	AGENDA ITEM	WHO
08:00–08:15	Strategies in disc regeneration	K Cheung
08:15–08:30	Disc ablation—is this still relevant?	A Diwan
08:30–08:45	Cartilage regeneration	J Wang
08:45–09:00	Annular repair and reconstruction	B Tay
09:00–09:15	Nucleus replacement	P Pavlov
09:15–09:30	Posterior disc "stabilization"	E Davies
09:30–10:00	Disc transplantation	K Cheung
10:00–10:30	Global panel: Disc regeneration	O Hernández, A Patel, J Soustiel
10:30–10:45	Case 1: Dark disc L4/5 in young patient with broad protrusion	
10:45–11:00	Case 2: Early postdiscectomy collapse, midlumbar spine	
11:00–11:30	Learning points: 1. What are the individual advantages and shortcomings of each intervention? 2. Are there any clinical indications for these strategies?	
11:30–12:00	Preventing the multilevel back	J Wilson-MacDonald
12:00–16:00	Nonunion	FR Borges Ribeiro, R Dunn, C Shaffrey, T Lund
16:00–16:30	Adjacent segment disease	A Patel, R Postigo, S Satoh
16:30–17:00	Flatback	
17:00–17:30	Patient related factors	
17:30–18:00	Global panel: Recommendations and principles	
18:00–18:30	Case 1: Breakdown above L4–S1 fusion	
18:30–19:00	Case 2: Flatback after multilevel fusion	
19:00–19:30	Learning points: 1. What are the main causes of unsatisfactory outcomes in back surgery? 2. How can they be avoided? 3. If they occur how can they be salvaged?	
19:30–20:00	Lunch break	

Friday, December 19, 2008

Location: Congress Center—Room Pischa

TIME	AGENDA ITEM	WHO
08:00–08:15	Fixed deformity correction	B Jeanneret
08:15–08:30	Posterior treatment options	C Kuntz IV
08:30–08:45	Decision-making anterior/posterior/combined	M Grevitt
08:45–09:00	Single staged costotransversectomy-based deformity correction	C Bellabarba
09:00–09:15	Posttraumatic kyphosis—management insights	M Abdel-Wanis
09:15–09:30	Straightening the spine in ankylosing spondylitis	G Zaveri
09:30–09:45	Managing perioperative neurological deterioration in kyphocorrection	WJ Shen
09:45–10:00	Global panel: Management controversies	U Aydinli, L Gatam, S Satoh
10:00–10:30	Case 1: Postfusion lumbar flatback Case 2: Severe kyphosis in ankylosing spondylitis	
10:30–11:00	Learning points: 1. What are the options for surgical correction of kyphosis? 2. What are typical complications associated with kyphocorrection surgery? 3. Principles of kyphocorrection in ankylosing spondylitis	
11:00–10:30	Coffee break	
10:30–12:00	Interactive workshop—complex focal deformities	U Aydinli, G Zaveri
12:00–16:00	Practical exercises/case discussions: Complex focal deformities PSO, anterior/posterior-anterior	
16:00–16:30	Room A/Jakobshorn	M Abdel-Wanis, L Gatam, M Grevitt, R Molinari, J Schuster, P Vorlat
16:30–17:00	Room B/Rinerhorn	C Bellabarba, A Diwan, Y Nohara, K Schnake
17:00–16:00	Lunch break	

Friday, December 19, 2008

Location: Congress Center—Room Jakobshorn/Rinerhorn

TIME	AGENDA ITEM	WHO
08:00–09:30	Interactive workshop—surgery in the cervical spine with complex disorders	R Chesnut, A Kroedel
09:30–10:00	Practical exercises/case discussions: Surgery in the cervical spine with complex disorders	
10:00–10:30	Upper cervical spinal instrumentation, comprehensive lower cervical spinal reconstruction	
10:30–11:00	Room A/Jakobshorn	D Ajit Singh, L Anderberg, KD Riew, Y Sun, M Taricco, K Wiechert
11:00–11:30	Room B/Rinerhorn	HJ Park, A Sadao Iutaka, J Timothy, E Woodard
11:30–12:00	Coffee break	
12:00–16:00	Management controversies of the cervical spine	R Sasso
16:00–16:30	Location: Congress Center—Room Parsenn	
16:30–17:00	Odontoid resections—unnecessary?	R Sasso
17:00–17:30	When are odontoid resections necessary?	A Crockard
17:30–18:00	Anterior decompression and fusion in cervical kyphosis?	P Vela
18:00–18:30	Posterior surgery in cervical kyphosis?	A Kroedel
18:30–19:00	Dysphagia following cervical spine surgery	KD Riew
19:00–19:30	Vertebral artery injuries	A Crockard
19:30–20:00	Global panel: Case controversies	B Jeanneret, Y Sun, E Woodard
20:00–20:30	Case 1: Basisvertebral invagination with prominent odontoid spine in a rheumatoid arthritis patient	
20:30–21:00	Case 2: Subaxial stepladder arthritis patient	
21:00–21:30	Learning points: 1. What are the indications for and complications of odontoid resection? 2. When is anterior neck surgery preferable over posterior surgery? 3. How to prevent and how to manage dysphagia and vertebral artery injuries	
21:30–22:00	Lunch break	

Joint session: all courses in Congress Center—Room Pischa/Parsem

Success in spine surgery—putting it all together

16:00–16:10	Measuring success in spine surgery	J Fairbank
16:10–16:20	Degenerative conditions of lumbar spine—indications for nucleus replacement	J Cheng
16:20–16:30	Discussion	
16:30–16:40	Pediatric spine—outlook and directions	J Smith
16:40–16:50	Adult spinal deformities—outlook and directions	M Gruenberg
16:50–17:00	Discussion	
17:00–17:10	Fractures—challenges	M Fehlings
17:10–17:20	Tumors—outlook and directions	S Boriani
17:20–17:30	Discussion	
17:30–17:45	Course review and closure	J Chapman, M Janssen, D Schlenzka

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Accreditation

AOSpine courses are accredited for continuing medical education (CME) programs. The number of credit points or hours varies from country to country. The final information and number of credit points will be distributed with the course certificate.

Course certificates

Please claim your certificates at the AOSpine information desk on Friday at the following course venue:

Hotel Sunstar:

Spinal Trauma—Recent Insights and Advances

Controversies in Degenerative Care

Congress Center:

Emerging Concepts in Deformity Care

Managing Complex Spinal Conditions

There will be no activities in the Hotel Sunstar on Friday afternoon. The closing session for all courses will take place in the Congress Center, room Pische/Parsenn.

Course information

AOSpine information desks—opening hours

Congress Center, House B
Hotel Sunstar, Lobby (Mo–Fr)
Sunday 14:00–17:00
Monday–Friday 07:45–19:00

Course information for faculty and participants

AO Foundation welcome desk—opening hours

at the main entrance of the Congress Center
Sunday 15:00–17:00
Monday–Friday 07:45–19:00

Security check

Please always wear your badge. Anyone arriving without a badge will not be admitted to the Congress Center.

Mobile phone use

The use of mobile phones is not allowed in the lecture halls and in practical exercises rooms. Please be considerate of others and turn your mobile phone off.

Intellectual property

Course materials, presentations, and case studies are the intellectual property of the course faculty. Recording, photographing, or copying of lectures, practical exercises, or any course materials is absolutely forbidden.

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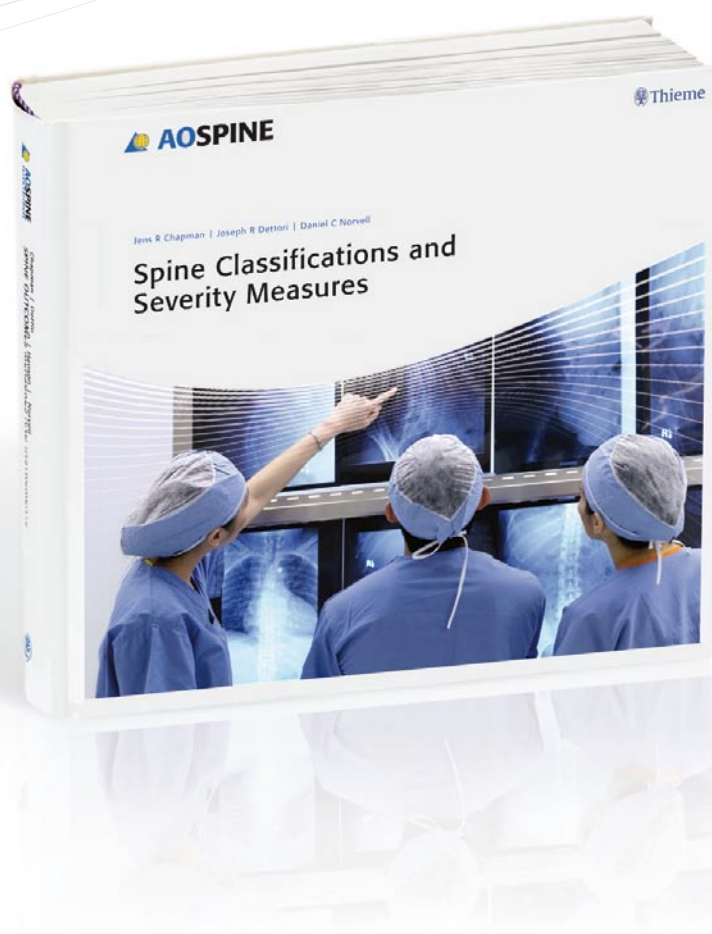
No insurance

The course organization does not take out insurance to cover participants against accidents or other risks. Personal belongings deposited in the Congress Center and in the other course facilities are the responsibility of the individual participant.

Banquet

Friday, 20:00, at the Congress Center
Banquet cards can be purchased/returned at the AO Foundation information desk until Monday evening. Afterward reimbursement is no longer possible.

Spine Classifications and Severity Measures



Jens R Chapman | Joseph R Dettori | Daniel C Norvell
542 pages, 965 pictures/illustrations, ISBN 978-3-13-146441-5, € 249.95

10% discount for AOSpine subscribed members.
Order your book on-site in the Congress Center now!

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**Find out more at
www.globalspinecongress.org**

Business facilities at course venues

Business Centers

Services

- Internet and email access
- Printing possibility
- www.aospine.org/davos2008 offering course-related information, videos, a link to Davos Tourismus, etc.

Locations

- Congress Center Foyer C2
- Hotel Sunstar next to the "Julier" lecture room

Opening hours

- Opens 30 minutes before the first course of the day starts
- Closes 30 minutes after the last course of the day ends

Disclaimer

The use of your own computer in the Business Center network is inherently not secure. We strongly recommend that you take appropriate actions to protect your computer against unauthorized use or theft (eg, Firewall, VPN-Connection, VirusScanner, etc). AOSpine cannot be held responsible for any data loss or theft.

Wireless network

A special wireless network "AOBusiness" is accessible and free for everybody.

Locations

- Congress Center at public places
- Hotel Sunstar at the business center

How to connect

- Open the Wireless Network Connection window
- Choose the "AOBusiness" network and click on the Connect button
- The AOBusiness wireless network requires a WPA network key. The network key is: aodavos1291
- Then click the Connect button

For further information

AO Foundation

Phone +41 81 414 28 70

Email it.support@aofoundation.org

Transportation

Special bus for course participants

Monday to Friday

- | | |
|-------------|------------------------------------|
| Morning | local bus every 10 minutes |
| 11:50–12:15 | Congress Center–mountain railways |
| 15:35 | Mountain railways–Congress Center* |
| Evening | local bus every 10 minutes |

Wednesday

Buses to the hospital leave 45 minutes before each workshop from the Congress Center parking lot.

Thursday to Friday

- | | |
|-------|---------------------------|
| 12:15 | Congress Center–AO Center |
| 13:30 | AO Center–Congress Center |


Friday

19:45 (before banquet) Hotels–Congress Center
from 23:00 Congress Center–Hotels

- * if required the bus will drop you off at the Hotel Sunstar

Bus meeting points for the banquet:

Flüela (Victoria, Bünda)
 Seehof (Parsenn)
 Meierhof (Zauberberg)
 Dischma (Concordia, Cresta, Edelweiss, Sonnenberg)
 Belvedere (Panorama)
 Central (Crystal)
 Schweizerhof (Europe)
 Posthotel (ArtHaus)
 National (Esplanade, Strela)
 Sunstar Park (Sunstar, Club Hotel)
 Bahnhof Terminus



AOSpine Global Interactive Course Program 2009

26–30 October 2009

Kuala Lumpur Convention
Centre, Kuala Lumpur,
Malaysia

For the very first time, AOSpine's annual Advances and College Course program is coming to Asia. The 2009 program will feature the interactive educational structure that has proved so successful at our Davos-based courses, together with some innovative new sessions.

- Participate in Advances Courses, interactive modules, workshops and Plenary lectures (with Masters "College" course)
- Learn the latest procedures, techniques and tips from expert surgeons—with live surgery demonstration, animal and cadaver surgeries
- Enjoy tours, cultural and social events

Don't miss this opportunity!

For more information visit
www.aospine.org/kl2009

Sports and culture

Skiing/snowboarding

Please show your badge at the bottom of the station of the Parsenn and Jakobshorn mountain railway to obtain a skipass for a special price. Accompanying persons can also benefit from this offer. They have to claim a visitor badge at the AO Foundation information desk in the Congress Center.

Storage of ski equipment

Skis can be left in a storage room outside of the Congress Center and in the ski room of the Hotel Sunstar (next to the entrance). Due to lack of space, we kindly ask the accompanying persons to take their skis back to the hotel every day. During the lunch break shoes and briefcases can be left in the cloakroom of the Congress Center and the Hotel Sunstar. Personal belongings are the responsibility of the individual participant.

Ski school

The Ski School Davos will take reservations for lessons:
Daily 08:30–12:00
13:30–18:00

Ski lessons may also be booked directly at the ski school office, phone +41 81 416 24 54
1x half day CHF 45.00
5x half day CHF 200.00

Wellness pool center eau-là-là

Monday to Friday 10:00–22:00
Saturday 10:00–18:00
Thursday 14:00–22:00 women's wellness day

Please show your badge at the entrance to obtain a ticket at a reduced price.

Indoor pool CHF 6.50 instead of CHF 8.00.

Indoor pool and wellness center CHF 20.00 instead of CHF 23.00.

Other sports

Cross-country skiing, ice-skating, swimming, tennis, squash, horseback riding, tandem flights (hang gliding and paragliding).

For further information please contact Davos Tourismus

Phone +41 81 415 21 21

Email info@davos.ch

Museums

You can find all museum links on www.aospine.org/davos 2008

Dress code

During the course: casual or sportswear

No ski shoes allowed at the course venues.

Banquet: formal

Davos is a mountain resort. Warm clothes and suitable shoes are advisable.

Sponsors

We would like to thank the following course grantors—without their support this event would not be possible:

Synthes for their financial grant and course material

BrainLab for the material for computer assisted surgery

BMW for the limousine service



The AOSpine community—
delivering the knowledge,
experience, and evidence to
improve patient care, patient
outcomes, and ensure cost
effective spine surgery.