

ISPN 2024 Pre-Congress Course 1:

The Growing Pediatric Spine: Challenges and Solutions

Date: Sunday, October 13, 2024

Time: 08:00 - 12:30

Course Directors: Richard Anderson and Mari Groves

Faculty: Chris Bonfield, Guirish Solanki, Dominic Thompson, David Bauer

This half-day course will explore and discuss the numerous clinical challenges seen when caring for children with spinal disorders together with management solutions. Topics will include idiopathic scoliosis as well as congenital, infectious, neoplastic, and traumatic processes that lead to spinal instability and deformity. The course will be divided into three parts including didactic, hands-on (sawbones), and case based discussion. Expert faculty from around the globe will discuss overall management, operative techniques, and clinical pearls.

Outline:

1. Part I (Didactic): (8-9:40am); *8-minute talks*
 - a. Challenges of the CVJ/subaxial cervical spine: Congenital anomalies and deformity, **Guirish Solanki**
 - b. Challenges of the pediatric spine: trauma, **David Bauer**
 - c. Scoliosis classification and management, **Mari Groves**
 - d. Spondylolysis and spondylolisthesis: when should we operate and how? **Chris Bonfield**
 - e. Challenges of the pediatric spine: Infection, **Dominic Thompson**
 - f. Challenges of the pediatric spine: Neoplasia, **David Bauer**
 - g. Challenges of the pediatric spine: Spinal cord injury, **Chris Bonfield**
 - h. Management techniques: Cervical and thoracolumbar traction, **Richard Anderson**
 - i. Management techniques: Spinal osteotomy classification and techniques, **Mari Groves**
2. Hands-on practical course with models (entire spine models including occiput and pelvis):
Surgical techniques (10-11:20am) *Richard Anderson roving*
 - a. CVJ/cervical spine instrumentation: Occipital fixation, C1-C2 fixation techniques, subaxial instrumentation, **Guirish Solanki, Dominic Thompson**
 - b. Thoracolumbar spine instrumentation and osteotomies: Pedicle screw fixation, hooks, sublaminar options; vertebral column resection, pedicle subtraction osteotomy, posterior column osteotomy, **Mari Groves, David Bauer**
 - c. Lumbar and pelvic fixation: Lumbar pedicle screws, S2AI, iliac screws, **Chris Bonfield, Richard Anderson**



3. Case-based discussion (11:30am-12:30pm)
 - a. Round table discussion with faculty presenting a variety of cases; participants will be encouraged to bring and present cases for discussion