

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

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)
 - a. Challenges of the CVJ/subaxial cervical spine: Congenital anomalies and deformity
 - b. Challenges of the CVJ/subaxial spine: trauma
 - c. Challenges of the thoracolumbar spine: trauma
 - d. Scoliosis classification and management
 - e. Spondylolysis and spondylolisthesis: when should we operate and how?
 - f. Challenges of the pediatric spine: Infection
 - g. Challenges of the pediatric spine: Neoplasia
 - h. Challenges of the pediatric spine: Spinal cord injury
 - i. Management techniques: Cervical and thoracolumbar traction
 - j. Management techniques: Spinal osteotomy classification and techniques
2. Hands-on practical course with sawbones (entire spine models including occiput and pelvis): Surgical techniques (10-11:20am)
 - a. CVJ/cervical spine instrumentation: Occipital fixation, C1-C2 fixation techniques, subaxial instrumentation
 - b. Thoracolumbar spine instrumentation: Pedicle screw fixation, hooks, sublaminar options
 - c. Spinal osteotomy techniques : Vertebral column resection, pedicle subtraction osteotomy, posterior column osteotomy
 - d. Pelvic fixation : S2AI, iliac screws
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