

Idiopathic Scoliosis – Dynamic Corrective Brace Treatment Concept, Principles & Practice

The workshop session will cover five main topics:

1. Idiopathic Scoliosis – The Latest Etiopathogenic Hypothesis

Dr Christine Coillard a French Paediatric Orthopaedic Surgeon spent the last 10 years in Scoliosis research trying to establish the Etiology and pathogenesis of this disease. In light of the better understanding gained SpineCor Dynamic Corrective Brace treatment was developed. Her hypothesis covers the complex interaction of five major factors involved in progressive spinal deformities.

- i) Neuro logical dysfunction
- ii) Muscular dysfunction
- iii) Osseous deformity
- iv) Genetics
- v) Hormonal maturation

2. Dynamic Bracing Concept

Dynamic treatment works essentially to reverse the four major components of the deformity

- Postural disorganization
- Muscular imbalance
- Abnormal neurological feedback
- Osseous deformity

Key to effective treatment is classification of the scoliosis using the new SpineCor classification system. This classification is based on both three dimensional posture and radiological data. The abnormal posture is essentially reversed by the action of the brace this in turn opens the curve. Curve reduction is slow but progressive unlike the pattern seen with rigid braces overtime, however, the correction achieved by dynamic bracing is equal or better than that achieved by rigid bracing.

3. Radiological Classification

Case studies will be examined to demonstrate the different classifications and how the radiographs relate to the postural presentation of each clinically.

4. Corrective Movement & Brace Fitting

Case studies and demonstration of brace fitting using a model will show the corrective movements and brace fittings for each curve classification.

5. Case Studies & Treatment Results

Presentation of case studies from pre-treatment to follow-up five years after brace weaning demonstrate the ultimate benefits of dynamic treatment with treatment of different curves at different stages of maturity. Clinical study results of larger groups from different centers demonstrate the reproducibility of treatment outcomes.

SPEAKER

Andrew J Mills MBAPO MISPO

A UK certified orthotist with some 23 years experience in conservative management of scoliosis. Over the last 7 years he has gained significant experience in SpineCor Dynamic Corrective Brace Treatment having treated over 350 patients in the UK.

As well as treating patients at 3 specialist Spinal Deformity Clinics in the UK, Mr Mills is also the CEO of The SpineCorporation Limited and is extensively involved in training doctors, orthotists and physiotherapists throughout Europe in dynamic corrective brace treatment.