

Neuro-Rehabilitation of the Spine

Scoliosis - Posture - Pain

Online Webinar - available from October 30th, 2020

Final schedule to be confirmed

Aims & Learning Objectives

After completing the course, you will be able to:

- Appreciate that scoliosis can be considered a neuro-musculoskeletal conditions
- Understand the brains/nervous systems influence on scoliosis and posture, specifically from the vestibular system and other spinal control centres
- Learn the latest evidence-based clinical neuroscience that is emerging in the causes and management for idiopathic scoliosis
- How to perform a multi-modal, brain-based assessment, including proprioceptive, vestibular, cerebellar, and cortical tests
- Consider how primitive and postural reflexes influence early neuro-musculoskeletal development
- Learn advanced techniques and protocols for managing idiopathic scoliosis and poor posture that consider spine, TMJ, eye movements, vestibular, sensorimotor integration, and advanced neuromodulation therapies
- Add these neuro-rehabilitation therapies to existing scoliosis techniques,

This course is suitable for any manual therapy practitioner, with little or no training in clinical (functional) neurology

Scoliosis and Posture – a brain-based perspective

Scoliosis as a proprioceptive, sensorimotor integration or vestibular problem?

- what does the evidence say?

Neurology of spinal control and posture

Neuro-development

- The role of primitive reflexes

Proprioception - Assessment and Rehabilitation (theory and practical)

- Body awareness
- Spinal
- TMJ

Sensorimotor - Assessment and Rehabilitation (theory and practical)

- Sensory discrimination
- Reaction time

Vestibular - Assessment and Rehabilitation (theory and practical)

- Central vestibular networks and integration

Oculomotor - Assessment and Rehabilitation (theory and practical)

- Eye movement influence and strategies

Balance - Assessment and Rehabilitation (theory and practical)

- Advanced sensorimotor influence on balance

Neuromodulation – Rehabilitation (theory and practical)

- Use of innovative therapies
- Low level laser therapy

Integrative management and case studies

- Assessment and Management (theory and practical)

All applications are evidence-based, easy to use, reliable and reproducible and aimed for no/low clinic technology

Q+A

- A follow-up live recorded webinar, answering any questions from seminar attendees
- The recording will be uploaded and part of your online content

Accreditation

12+ hours

Instructor

Dr Carlo Rinaudo BMedSci(Hons) (*Syd Uni*), MChiro (*Macq Uni*), ICSSD, DACNB, PhDc (*UNSW*) **Chiropractor – Neuro-Rehabilitation**

Carlo Rinaudo is a registered Chiropractor from Australia with post-graduate training in clinical neuroscience and sports. Dr Rinaudo is the clinic director of a multidisciplinary clinic, focused on helping people with dizziness, concussion and balance related conditions. He is currently undertaking a PhD in Vestibular (balance) therapy at University of New South Wales and Neuroscience Research Australia (www.NeuRA.edu.au), working alongside leading researchers and Neurologist in the field. He is a frequent speaker at national and international events, presenting his research findings at conferences or teaching practitioners about vestibular rehabilitation, including at the 2017 and 219 ECU and WFC conference

Dr Carlo Rinaudo is an engaging presenter, uniquely combining 20 years of clinical experience with current research from multi-disciplined fields, providing an enjoyable and easy-approach 'knowledge translation' for the everyday healthcare practitioner.