

Clinical Gait Analysis – An Impairment Focussed Interpretation Approach

Professor Richard Baker, Exclusive to the University of Salford

The Clinical Gait Analysis Course presents a systematic approach to the interpretation of clinical gait analysis data, to empower health professionals from a range of disciplines to use it to write rigorously documented reports.

The approach – *Impairment Focussed Interpretation* – has been developed by Professor Richard Baker over the last ten years and described in his recent book “*Measuring Walking – a Manual of Clinical Gait Analysis*”.

The course is designed for health professionals already working within clinical gait analysis services, particularly those who already have some role in data interpretation.

Overview

Background on Clinical Gait Analysis

This gait analysis course is based on highly successful courses pioneered by Professor Baker while he worked in Melbourne, Australia. It has been delivered to groups from the UK, Denmark, South Africa, Russia and Thailand since moving to the University of Salford.

Most concepts will be introduced from basic principles. We will not spend very much time on those introductions and those not already familiar with this material may benefit from a little preparation.

Professor Baker’s book “*Measuring Walking – a Manual of Clinical Gait Analysis*” is primarily about the process of making gait analysis measurements but also includes a chapter outlining the approach to interpretation and reporting that will be taught. He has also prepared a series of videos about the biomechanics of walking that you can view on [YouTube](#). He also writes a [blog](#) with many interesting articles about clinical gait analysis and the biomechanics of walking.

Spaces on Professor Richard Baker’s upcoming Clinical Gait Analysis course are limited - click here to guarantee your place or fill out the short form below for more information.

Faculty

Richard Baker PhD CEng

Richard is the world's only Professor of Clinical Gait Analysis. After completing a PhD in Biomechanics he has over 20 years' experience running and managing clinical gait analysis services including 9 years at the internationally renowned Royal Children's Hospital in Melbourne

Geraint Davies FRCS

Geraint Consultant Orthopaedic Surgeon at the Sheffield Children's NHS Foundation Trust where he specialises in the management of children with Cerebral Palsy.

Rob Freeman MA, FRCS

Rob is Consultant Orthopaedic Surgeon at the Robert Jones and Agnes Hunt Orthopaedic Hospital (RJAHOH) in Oswestry, UK.

Caroline Stewart PhD

Caroline is Senior Bioengineer and Manager of the Orthotic and Locomotor Assessment Unit at RJAHOH) and Research Fellow at Keel University. She was Chair of the Clinical Movement Society (UK and Ireland) from 2004 to 2008 and has taught on the ESMAC Gait Course for over ten years.

Richard Jones PhD

Richard is Professor of Clinical Biomechanics at the University of Salford and has been responsible for founding its Clinical Gait Analysis Service.

Julie Reay BSc

Julie is Clinical Gait Analysis Service Manager at the University of Salford. She is a physiotherapist with considerable previous experience in paediatric physiotherapy.

Sarah Jarvis MSc

Sarah is a physiotherapist who has worked in the Orthotic and Locomotor Assessment Unit at Oswestry since 2004 with a special interest in foot and upper limb management.

Delegates

The course is designed for people working in instrumented clinical gait analysis services in the collection and interpretation of data. It will also be of considerable interest for clinicians who make use of clinical gait analysis and want a better understanding of what the data can tell them.

It is anticipated that health professionals from a range of backgrounds will be interested in the course, including physiotherapists, orthopaedic surgeons, physical medicine and rehabilitation specialists, neurologists, prosthetists, orthotists and bio mechanists.

Impairment focussed interpretation was developed as a technique for reporting on data from children with cerebral palsy. Case studies will be primarily from this patient group. The course will include a discussion of how the techniques can be modified and extended for patients with different conditions.

The focus of the course is on identifying the impairments that are causing the patient to walk the way they do. Discussions about clinical management will be left to informal conversations over breaks and lunch.

Learning Outcomes

By the end of this course you will be able to:

- Explain the biomechanics of walking
- Describe the measurement processes of conventional clinical gait analysis
- Recognise artefacts and errors in gait analysis data
- Explain how common impairments affect walking ability in conditions such as cerebral palsy
- Apply impairment-focussed interpretation to analyse clinical gait analysis data.

The course will mix lectures with workshops and group based case-exercises. There will be a strong emphasis on encouraging students to put what they have learnt into practice, culminating in case presentations on the final day when they will be able to showcase what they have learnt. Places will be limited to 64 to ensure that small group work is in small groups!

Strong interest is anticipated in this popular gait analysis course, so early booking has been advised.

If you are interested in learning more about this Clinical Gait Analysis or other courses available, please contact us on 0845 431 0433 or cpd@salford.ac.uk