

Hugh Williamson Royal Children's Hospital, Melbourne

Clinical Gait Analysis Course

Identifying the impairments that affect walking

This is an introduction to the capture, processing and interpretation of clinical gait analysis data. The approach is that used for children with cerebral palsy who have gait analysis to help planning complex orthopaedic surgery but will be informative to anyone involved in instrumented clinical gait analysis. This course is being conducted by local and international faculty headed by Prof Kerr Graham, Director, Hugh Williamson Gait Laboratory, Melbourne, Prof Richard Baker, University of Salford, UK and Dr Adam Shortland, One Small Step Gait Laboratory, Guys Hospital. London, UK.

Day one		
9:00	Introduction	Prof Kerr Graham
9:15	Basic concepts/Phases of Gait/Temporal/spatial	Prof Richard Baker
9:45	Installing and maintaining a gait laboratory	Dr Morgan Sangeux
10:30	Break	
11:00	The conventional gait model & marker placement	Prof Richard Baker
11:30	Functional joint modelling	Dr Morgan Sangeux
12:10	Marker placement practical demonstration	Groups
13:00	Lunch	
14:00	Normal gait kinematics	Prof Richard Baker
15:00	Break	
16:00	Physical exam and problem solving	Dr Jill Rodda
17:00	Quality assurance	Prof Richard Baker
17:30	Finish	
17:30- 18:30	Welcome drinks at Rydges	

Day two		
8:30	Normal gait kinetics and muscle activity	Dr Adam Shortland
9:30	The gait analysis process	Prof Richard Baker
9:45	Overview of impairment focussed interpretation	Prof Richard Baker
10:30	Break	
11:00	Gait dysfunction in CP	Prof Kerr Graham
11:30	Recognising features due to bone and joint pathology	Prof Richard Baker
12:00	Recognising features due to neuromuscular pathology: Spasticity	Dr Adam Shortland
12:30	Guided case study	Ms Tandy Hastings-Ison
13:00	Lunch	
14:00	Case study in groups	Groups
15:30	Break	
16:00	Review of cases	Groups facilitated by Adam
16:45	Beyond barefoot walking at self-selected speed	Prof Richard Baker
17:15	Finish	



19:00	Course dinner at Carlton Restaurant	
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Day three		
8:30	Recognising features due to neuromuscular pathology: Muscle contracture and weakness	Dr Adam Shortland
9:30	Case studies in groups	Groups
10:45	Break	
11:15	Review of cases	Groups facilitated by Richard
12:00	EMG Demonstration and interpretation	Dr Adam Shortland
13:00	Lunch	
14:00	Gait improvement surgery	Prof Kerr Graham
15:00	Post-surgical rehabilitation	Ms Pam Thomason
15:30	Break	
16:00	Outcome evaluation	Prof Richard Baker & Ms Pam Thomason
16:30	Summary and review	Kerr Richard Adam
16:45	Finish	
16:50- 17:50	Walk to RCH to tour the new Gait Laboratory	optional