

Tentative Outline

Special Issues for: CURRENT PEDIATRIC REVIEWS

Guest Editor: Tim O'Brien

Clinical Gait Analysis in Paediatric Disorders

Aims and Scope:

The proposed Edition will contain 40,000 to 45,000 words. It will be richly illustrated with many colour diagrams. These are necessary to distinguish right (red) from left (blue) sides. The writing should be completed by June 1st 2015.

We intend to share our 25 years experience of a Clinical Gait Laboratory with your readers. We have a vast portfolio of clinical conditions with characteristic and sometimes diagnostic walking patterns. The Chapter on the Neurology of Walking by O'Brien and Fitzgerald is in three sections and is the first comprehensive approach to explaining the complexity of the mechanisms that result in the smooth transfer of the body while walking. A full explanation of the gait cycle and the muscles involved at each stage is included. We have defined the diagnostic patterns of Charcot Marie Tooth, Idiopathic toe walking, and Knee Extensor Disruption which will be illustrated. This will form the central part of the Edition around which the other chapters are constructed. We have traced a population of children with Cerebral Palsy and will define the optimal treatment for this condition based on objective data and not empiricism. We will define how the Gait Laboratory plays a central role in our Clinic helping to differentiate Idiopathic Toe Walking from more serious conditions such as Cerebral Palsy and Neuromuscular diseases. Special attention will be given to the recognition of gait deterioration in adolescence in CP with the early diagnosis of Knee Extensor Disruption. We will deal with the novel uses of the Gait Laboratory in the assessment of leg length discrepancy pioneered at our Clinic particularly in functional rather than static assessment. The volume will be of great interest to all Paediatricians, Neurologists, Specialist trainees and Orthopaedic Surgeons.

Tentative submission deadline:

June, 2015