



2<sup>nd</sup> International Conference on  
**PEDIATRICS AND HEALTHCARE**  
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## **TITLE: Predicting short term outcomes of infants receiving Ponseti management of Idiopathic Clubfoot**

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### **ABSTRACT**

This study explores a different way of using the most common clubfoot scoring system, the Pirani scale, to provide prognostic information. Current prediction methods have varied results. However, change in midfoot (MFS) and hindfoot (HFS) components, during Ponseti management, has not been investigated.

Therefore, a retrospective study reviewing medical records of 226 children with 335 idiopathic clubfoot (2008-2020) was completed. Group-based trajectory modelling of MFS and HFS identified four subgroups. These subgroups predicted the need for tenotomy.

This is the first report of the existence of four subgroups of idiopathic clubfoot and their ability to predict some short-term treatment outcomes in infants.

### **BIOGRAPHY**

Rachal Quinlan is an Australian paediatric Physiotherapist with a special interest in orthopaedic conditions. After graduating from The University of Sydney (Australia), Rachal worked at The Children's Hospital at Westmead (Sydney, Australia) developing her skills in a variety of senior specialist Physiotherapy positions for ten years. In recognition of her advanced skills Rachal received titling as a Paediatric Physiotherapist from the Australian Physiotherapy Association, in 2015. Rachal has also worked in India and Singapore as a specialist paediatric physiotherapist.

In 2021 Rachal completed her Master of Research through Macquarie University (Sydney, Australia). In 2023 this research, using subgroups of idiopathic clubfoot to predict short-term treatment outcomes, was published in the Journal of Paediatric Orthopaedics.

Rachal is currently on the seasonal teaching staff at Macquarie University. In 2024 she commenced her PhD developing clinical guidelines for the management of lower limb pain in children and adolescents with hypermobility associated conditions.

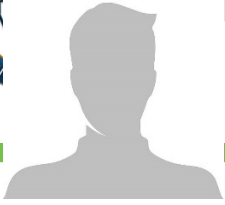
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**Mode of Presentation:** Oral

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