



Comparison of Gait in Different Support Conditions for Children with Drop Foot

Funded by Innovate UK Biomedical Catalyst Grant No: 10025587

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Background

- Foot drop negatively affects mobility and quality of life¹.
- Current treatments costly and not immediately available².
- Low-cost off the shelf splints effective for adults³.

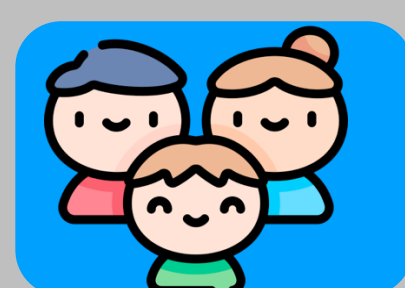


Aim: Compare existing AFOs and Lycra socks with the new OrthoPed splint in children and adolescents with foot drop



Methods

- Target n = 20



- 3 x visits



- Measures: gait speed, biomechanics, patient and parent feedback

Results



Greatest walking distance

401 m, highest average distance



Preserved ankle movement

Significantly more ROM than AFO



Easier with everyday shoes

Significantly preferred over AFO

PARENTS PREFERRED ORTHOPED



Higher comfort than AFO

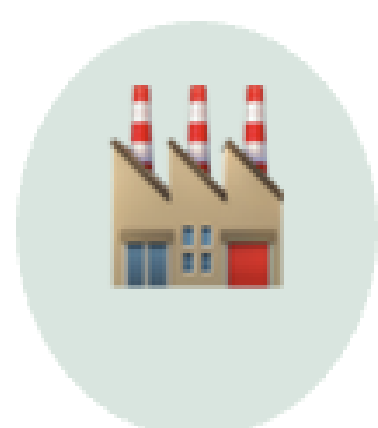
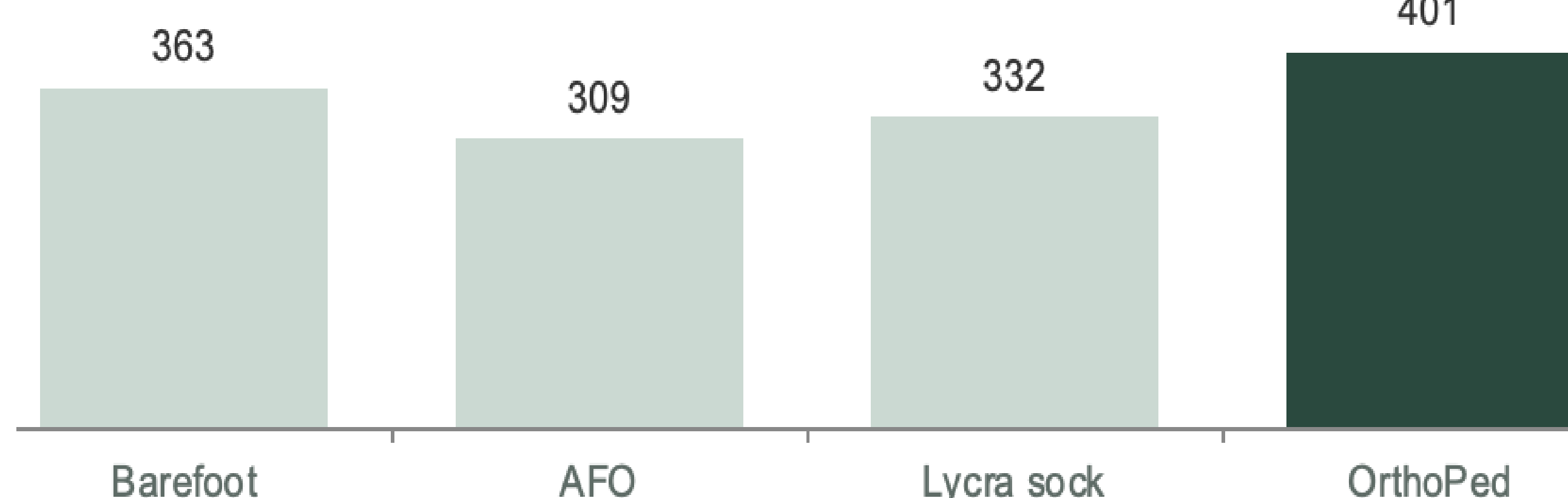


Easier to don with everyday shoes



Easier to use than Lycra sock

Six-Minute Walk (m)



Off the shelf

Pre-manufactured device



Immediate fitting

No casting or waiting



Fewer appointments

One visit, not several



Lower NHS resource use

Time, cost and capacity

Website



"The OrthoPed has changed the way I live my day-to-day life. It has given me back the freedom to walk naturally again. Thank you from the bottom of my heart – you've done a fantastic job!"

References

