

OXFORD FOOT MODEL

- _ CLINICALLY TESTED
- _ RUNS SEAMLESSLY
- _ BACKWARDS COMPATIBLE
- _ EASY TO USE
- _ USE IT AT NO COST

THE OXFORD FOOT MODEL IS A CLINICALLY TESTED AND VALIDATED MODEL WHICH CAN QUICKLY ADD A VALUABLE DIMENSION TO YOUR STUDIES.





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OXFORD FOOT MODEL KEY BENEFITS

- _ CLINICALLY TESTED AND VALIDATED MODEL FOR DETAILED FOOT ANALYSIS
- _ IMPLEMENTED AS A PLUG-IN TO RUN SEAMLESSLY IN VICON NEXUS
- _ BACKWARDS COMPATIBLE WITH VICON WORKSTATION
- _ EASY TO USE – RUNS TOGETHER WITH PLUG-IN GAIT
- _ FREE FOR ALL USERS OF VICON NEXUS OR VICON WORKSTATION

OVERVIEW

The Oxford Foot Model has been developed by the Nuffield Orthopaedic Centre (NOC) in Oxford, a world-leading center for clinical and research gait analysis, in collaboration with Oxford University. Implemented by Vicon, the model is now available as a plug-in that seamlessly integrates with the Vicon Nexus and Vicon Workstation one-click processing pipelines.

CLINICALLY VALIDATED

The NOC has used the Oxford Foot Model clinically for several years, and has published many clinical papers on the validation of the model during this time. A significant number of peer-reviewed publications support the model's reliability and validity – see below for references. Based on two main foot segments - hindfoot and forefoot - plus a separate hallux segment, the model outputs adjusted kinematics for the ankle as well as the added inter-segment angles.

REFERENCES

CARSON, M. C., HARRINGTON, M. E., THOMPSON, N., O'CONNOR, J. J., AND THEOLOGIS, T. N. Kinematic analysis of a multi-segment foot model for research and clinical applications: A repeatability analysis. *J Biomech* 34, 10 (2001), 1299–307.

THEOLOGIS, T., HARRINGTON, M., THOMPSON, N., AND BENSON, M. Dynamic foot movement in children treated for congenital talipes equinovarus. *J Bone Joint Surg* 85, 4 (2003), 572–577.

Stebbins, J., Harrington, M., Thompson, N., Zavatsky, A. and Theologis, T. (2006). Repeatability of a model for measuring foot kinematics in children. *Gait and Posture*, 23 (4), 401-410.

Stebbins, J., Harrington, M., Giacomozzi, C. Thompson, N., Zavatsky, A. & Theologis, T. (2003). Analysis of foot motion and loading of healthy children during gait. Proceedings of the International Society of Biomechanics Congress, Dunedin, NZ.

SEAMLESS

The Oxford Foot Model has been implemented as a Vicon plug-in to run seamlessly in the one-click processing pipeline within Vicon Nexus, where it appears alongside standard plug-ins such as Plug-in Gait and Plug-in Modeler. Start using the foot model simply by adding one more processing step to the pipeline, which is automatically executed without complicating your existing workflow. This plug-in is also fully compatible with Vicon Workstation.

COMPATIBLE WITH THE CONVENTIONAL GAIT MODEL

The Oxford Foot Model's marker set is an extension to the Conventional Gait Model, implemented in Vicon Plug-in Gait. This means that you can conduct a detailed foot analysis at the same time as you work through the standard gait data acquisition. There is no need to remove one marker set and attach another, and you get results

from both models for the same gait cycle. Easier for the patient, and easier for you. Output from the foot model appears as extra data next to the standard Plug-in Gait kinematics and kinetics, allowing you to choose what added information you wish to use.

USE IT AT NO EXTRA COST

The Oxford Foot Model is available to all Vicon Nexus and Vicon Workstation users at no extra cost. Try it out and see how it can quickly add a valuable dimension to your clinical studies.

COMMUNICATE

For further information on Oxford Foot Model and other Vicon products please contact your nearest office or email info@vicon.com

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