



Orthotic Research



AN EVIDENCED BASED AND PRACTICAL APPROACH TO  
**HOW KINETIC ORTHOTICS WORK**  
**USERS MANUAL**

A COLLABORATIVE EFFORT BETWEEN  
QUEENSLAND UNIVERSITY OF TECHNOLOGY AND DANTECK  
*“Researching educational solutions for podiatrists”*

## EXPERIENCE THE EXCLUSIVE WORLD OF “KINETIC ORTHOTICS TESTING” LIKE NEVER BEFORE

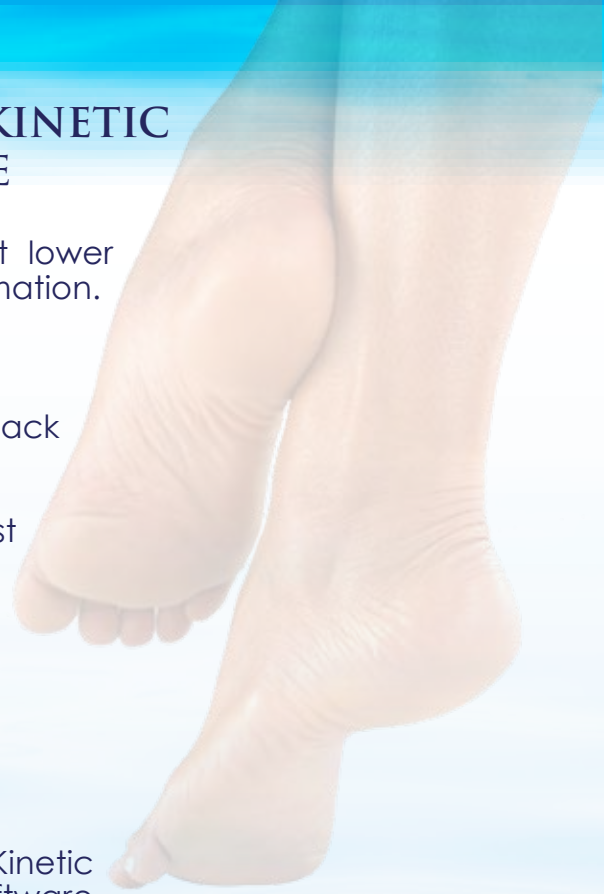
Discover what it's like to perform a range of important lower extremity kinetic tests, beautifully realised and in full 3D animation.

Prove yourself worthy of being a top clinician.

Work with patients. Test your decision making. Get feedback along the way.

Master the challenge of “getting it right” in one of the most sophisticated learning environments developed to date.

Make your own career choices; starting at the bottom and working your way up!



## INSTALLATION

You will require administration privileges in order to install Kinetic Orthotics, It is also advisable to have no unnecessary software running during installation. To access this program you will be required to install “Unity Player” to run the Kinetic Orthotics program. Launcher App should appear automatically.

Once the software has launched, simply press the install button and follow the on-screen prompts.

## SYSTEM REQUIREMENTS

You will require internet access and a Windows or Macintosh computer to run this course. For Windows you will need Windows XP, Vista, or 7. Macintosh users will need Mac OS 10.5 or later.

## TROUBLESHOOTING

If you experience any problems when installing, try clicking on the link again. Check your computer meets the minimum specifications and the known issues.

## AUTOSAVE

“Autosave On” will occur without you doing anything. It's an automatic save feature. Your PC will then save your progress at the specific points throughout the SIM.

## MENU NAVIGATION

Use the left & right arrows and spacebar to use the SIMs. Navigate through menus by mouse clicks. Press Return to confirm a selection or Esc to cancel/back up.



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# HOW TO USE THE PROGRAM

Learning about the “General” theory of kinetic testing under the “Theory” tab.



Learn the “specific theory” of a select range of kinetic tests under the “Thest Theory” tab.



Practice the specific tests in the 3D SIM under the “Test Practise” tab.



Apply your skills to specific cases under the “Cases” tab.

Link Kinetic Testing



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# INTRODUCTION - NAVIGATION

This is the Main Menu. From here you can access the various sections in Kinetic Orthotics.

To navigate this program use the Tabs at the top of the screen to reveal the corresponding menu. Click a menu option with your mouse to access the next component or activity.



Key to "Kinetic Orthotics" are the Kinetic Tests. These are a range of subjective observational tests to guide the practitioner in the development of an appropriate orthotic response for patients in need.

Each of the Kinetic Tests are simulated and are available as practice sessions or included as assessment items in the Case Studies.

## THEORETICAL BASIS

This section provides the theoretical bases behind kinetics and its application to orthotic design and proper foot function



## UNDERSTANDING KINETICS

As foot function is a product of the forces applied, understanding those forces can result in improved treatment. This section introduces the scientific basis behind kinetics, its application to orthotic design and the protocols to achieve optimum patient outcomes.



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# KINETIC TESTS (PRACTICAL)

The kinetic tests are a series of observational tests designed to provide a basis for understanding the forces experienced by the foot and other body structures.



## SIMULATING THE TESTS

These simulations are designed to provide you a basis for conducting Kinetic tests in the real world.

By linking:

- real time video of the performance of the tests
- the theoretical basis for the kinetic tests
- easy to operate 3D model simulations

the authors have provided an introduction to the principles of kinetics. You are encouraged to apply these skills and knowledge in the real world at your earliest convenience.

## CASE STUDIES

Case studies of increasing complexity provide an opportunity to apply your knowledge and skills of kinetics. Your aim is to provide an appropriate level of care to patients with a variety of complaints. The culmination of these case studies includes 2 and 6 week reviews into the success or otherwise of your treatment. The case studies provide automatic access to the assessment sections within each of the Kinetic Tests. The assessment sections are not available from the general welcome section. Successful completion of the Kinetic Tests are required to ensure a successful outcome for your patient.







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