

Innovations in Education

Force Sensing Table Technology®



*Dual input package displayed in picture (computer and monitor not included)

Force Sensing Table Technology[®] (FSTT)^{*} as a Learning Assessment Tool

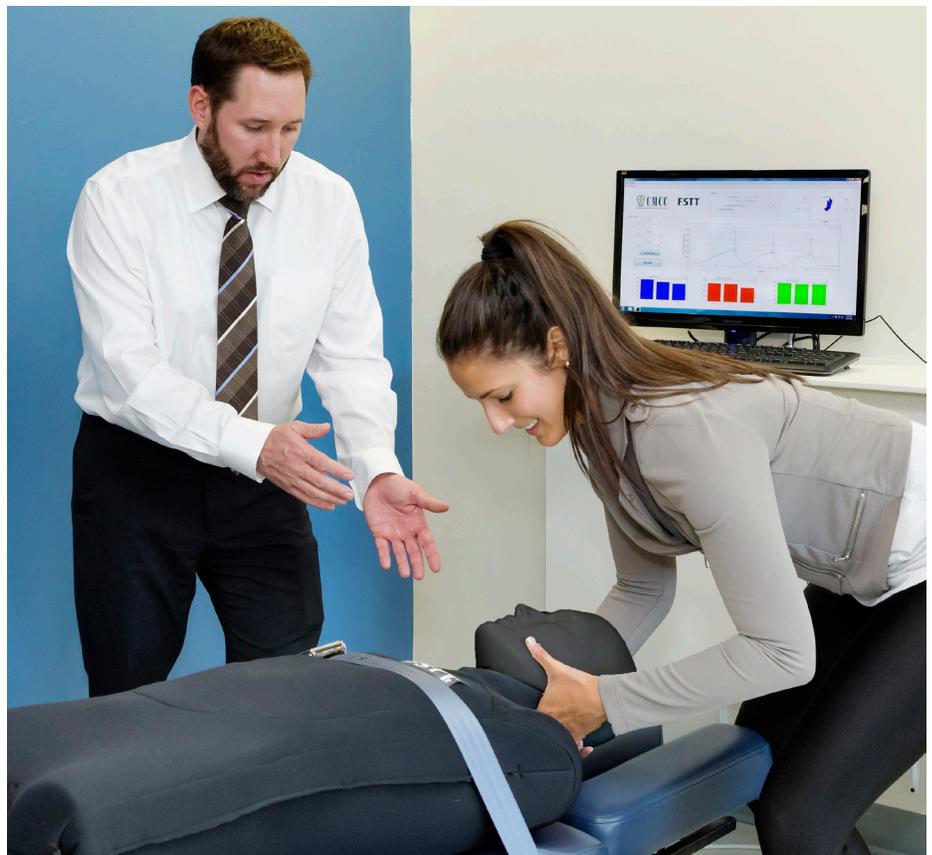
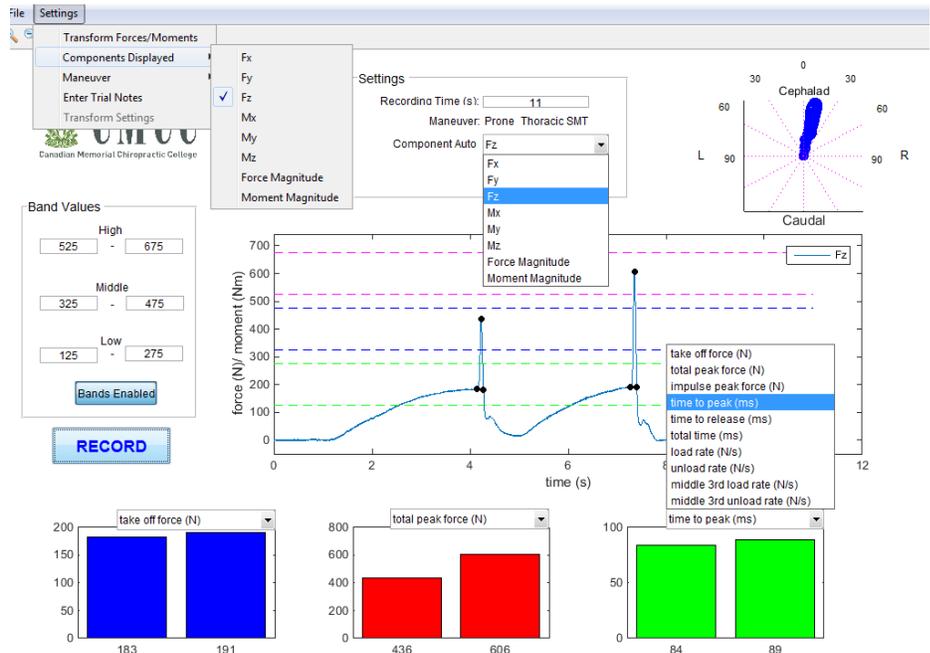
†Patent Pending

To enhance the development of motor skills used to deliver spinal manipulation, the Canadian Memorial Chiropractic College integrated force plate technology into therapeutic tables and hand held sensors. This force sensing technology provides instantaneous data on loads transmitted/applied by the manual therapist and offer both students with immediate objective feedback about their performance through a display of their force-time profile.

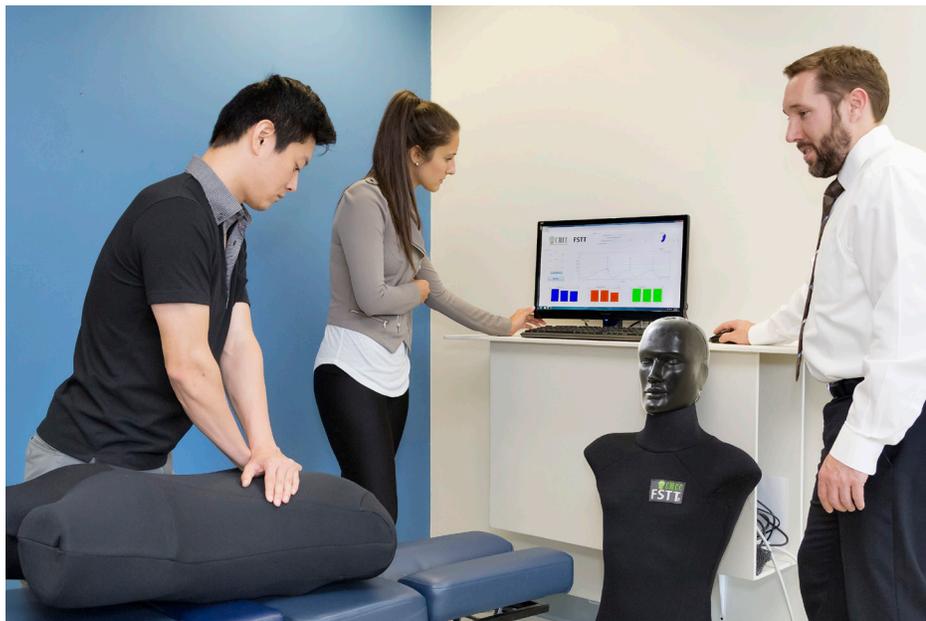
The skills of students can be directly quantified and compared to expert force-time profiles and students can then use this objective feedback to model the desired behavior rather than rely on observational and intrinsic feedback alone.



The FSTT[®] system is intended to be used for teaching and learning, assessment and research purposes.



Traditional FSTT[®] Package



FSTT Equipment

- **Treatment table with embedded force plate system**
 - multi-directional headpiece, cervical and pelvic drop enabled, arm rests, and ankle rest extension
 - table height can be ordered to user preference. Various cushion colours available to choose from
- **FSTT[®] data collection software on USB key ready for deployment on most Windows desktop computers (Windows and PC not included)**
- **Human Analogue Mannequin (HAM[®]) for manipulation training**
 - Flexible neck for cervical procedures
 - Compliant superficial tissue simulation
 - Compliant thoracic compression simulation
 - Anatomically correct body landmarks

FSTT Features

- **Continuous recording for repeated measure rehearsals with automated digitizing function to display visual knowledge of results output**
 - Baseline pre-load values (take off force)
 - Force amplitude (total peak force & impulse peak force)
 - Rate-of-rise in force (average or middle third)
 - Duration of Impulse (time to peak, to release & total time)
 - Direction of Impulse
- **Saves results for reflective practice and contrasting with new efforts**
- **Functionality**
 - Relative performance comparison (force and moment)
 - Accurate force measures
 - Operational for some extremity manipulation
 - User-definable gold standards vs literature-based gold standards

FSTT Benefits

- **Turn Key Operation**
 - Baseline pre load values (take off force)
 - Force amplitude (total peak force & impulse peak force)
 - Rate of rise in force (load rate & unload rate)
 - Duration of Impulse (*time to peak, to release & total time*)
- **Documents student progress in the learning of adjusting and other manual treatment methods**
- **Enhances tutor coaching methods**
 - Objective knowledge of results
 - Enables standards for performance defined by faculty or based on the literature
- **Allows evaluation of procedures to all spinal regions and evaluation of many extremity procedures**

New Dual Input FSTT® Package/Upgrade Available



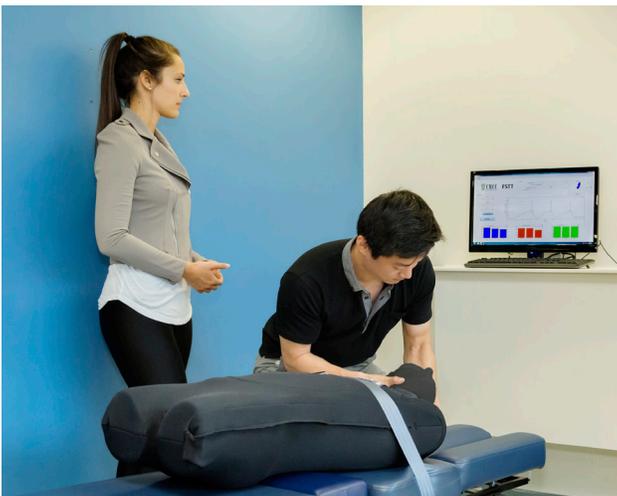
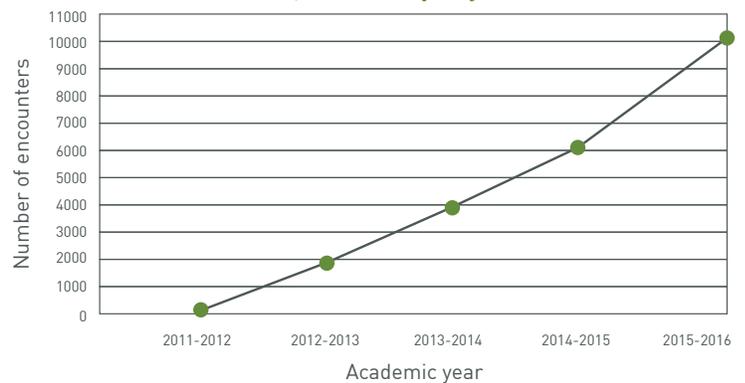
Improve your ability to evaluate more spinal and extremity procedures. Measure applied forces in 3D right at the doctor patient interface with a small handheld sensor. Contact us for more information or to arrange a demonstration.

Voluntary Learner Education, Outside of Class time (Institutional Enrolment Approx. 740)

Enthusiastic learner engagement with FSTT® is demonstrated by the sharp increase in voluntary student time committed to practicing of treatment techniques.

Students having difficulty developing skills who use reflection time with FSTT® have been shown to raise their skill levels with less than one hour of dedicated time in our simulation lab (HEQCO report).

Maintained 10,000 visits per year since 2015-2016



Warranty and Pricing

available upon request.

†Patent Information

Manipulative treatment training system and mannequin: international patent pending, FSTT® system, No.2869517

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