

# **Three separate studies, by researchers from 4 colleges and universities confirm reliability of the Insight SEMG**

1. The largest and most recent is collaborative study by researchers from the Florida Atlantic University College of Biomedical Science and Life University found that the Insight(tm) surface EMG technology demonstrated excellent reliability.

***"This study revealed excellent inter-examiner and intra-examiner reliability of static paraspinal surface electromyography in a large number of subjects."***

The SEMG reliability aspect of the study we did has been presented at research conferences on two occasions (the second will be next week) and published twice as part of proceedings of those conferences:

McCoy, M., Blanks, R., Campbell, I., Stone, P., Fedorchuk, C., George, I., Jastremski, N., Butaric, L. Inter-examiner and Intra-examiner Reliability of Static Paraspinal Surface Electromyography. Presentation. 2006 International Research and Philosophy Conference. Sherman College of Straight Chiropractic. Spartanburg, SC. November 3-5, 2006.

McCoy, M., Blanks, R., Campbell, I., Stone, P., Fedorchuk, C., George, I., Jastremski, N., Butaric, L. Inter-examiner and Intra-examiner Reliability of Static Paraspinal Surface Electromyography. Proceedings of the 2006 International Research and Philosophy Conference. Sherman College of Straight Chiropractic. Spartanburg, SC. November 3-5, 2006. *J. Vertebral Subluxation Res.* November 27, 2006

McCoy, M., Blanks, R., Campbell, I., Stone, P., Fedorchuk, C., George, I., Jastremski, N., Butaric, L. Inter-examiner and Intra-examiner Reliability of Static Paraspinal Surface Electromyography. Poster Presentation. Association of Chiropractic Colleges Research Agenda Conference. March 15-18, 2007.

McCoy, M., Blanks, R., Campbell, I., Stone, P., Fedorchuk, C., George, I., Jastremski, N., Butaric, L. Inter-examiner and Intra-examiner Reliability of Static Paraspinal Surface Electromyography. Proceedings of the Association of Chiropractic Colleges Research Agenda Conference. March 15-18, 2007. *Journal of Chiropractic Education.* Spring 2007.

2. The second study was the basis of a dissertation by Hazel Faulkner, D.C., for an M.Sc. degree from the Institute of Medicine, Health and Social Care, University of Portsmouth.

***"These results show that those subjects who have received recent and regular chiropractic adjustment have excellent reliability."***

Faulkner HC: Test-retest reliability of sEMG paraspinal scans: A comparative study. Institute of Medicine, Health and Social Care. University of Portsmouth. M.Sc. dissertation. August 2006.

3. The third study was conducted at the New Zealand College of Chiropractic. It examined both reliability and pre/post sEMG changes.

***"Under the conditions of this study, using the Insight Subluxation Station, it is concluded that sEMG is an objective measure of change which can be used as an assessment of patient progress."***

Kelly S, Boone WR: The clinical application of surface electromyography as an objective measure of change in the chiropractic assessment of patient progress: a pilot study. *Journal of Vertebral Subluxation Research* 1998;2(4):1-7.