

Scientific Studies & Articles Supporting the Efficacy of Noromed Equipment  
(DROM, SEMG and Muscle Testing)

**INDEX OF ARTICLES 1992 — Present**

<b>YEAR</b>	<b>KEYWORD</b>	<b>AUTHOR</b>	<b>TITLE</b>
1992	SEMG	Bittman, B., Cram, J.R.	Surface Electromyography: An Electrophysiological Alternative to Pain Management. Meeting of The American Pain Society. October 1992.
1992	SEMG	Smiley, W.M., Cram, J., Margoles, M., Romano, T., Stiller, J.	Innovations in Soft-Tissue Jurisprudence. Trial Diplomacy Journal. Vol. 15. 199-208, 1992.
1994	Norotrack 360	Kettmann, R.F.	Documenting Clinical Assessment III: Range of Motion Testing Using Norotrack 360. Clinical Chiropractic, April 1994
1994	EMG & SEMG	Donaldson, C.S., Skubick, D.L., Clasby, B.A., Cram, J.R.	Pain Assessment - The Evaluation of Trigger-Point Activity using Dynamic EMG Techniques. American Journal of Pain Assessment, July 1994, Vol 4 (3)
1995	Dynamic ROM	Kettmann, R.F.	A New Look at Motion Testing of the Lumbar Spine: Using Dynamic Motion Recording Devices. Clinical Chiropractic. Jan 1995.
1995	Norotrack 360	Kettmann, R.F.	Real Time Range of Motion Testing Using Norotrack 360. Texas J. of Chiropratic. February 1995.
1996	Dynamic ROM	Christensen, K.D.	Assessment of the Dynamic Motion and Function of the Spine. Chiropractic Products, Feb 1996.
1996	Dynamic ROM	Christensen, K.D., Kettman, R.F.	Lumbar Spine/Pelvic Rhythm During Flexion in the Sagittal Plane. Today's Chiropractic. Sept/Oct 1996.
1996	SEMG	Donaldson, S., Donaldson, M.	Carpal Tunnel Syndrome – A Multi-Etiological Problem. Chiropractic Products, March 1996.
1998	SEMG	Cram, J., Bittman, B.	Surface Electromyography: An Electrophysiological Alternative in Pain Management. Pain Management. Vol. 1. 1998.
1998	EMG	Cram, J.R., Kasman, G.S.	Introduction to Surface Electromyography. Aspen Publications, 1998. Myotronics Inc. Order No. N304. - (Book)
1998	EMG	Kasman, G.S., Cram, J.R., Wolf, S.L.	Clinical Applications of Surface Electromyography. Aspen Publication, 1998. Myotronics, Inc. Order No. N305. - (Book)
1998	EMG	Weiner, R.	Pain Management: A Practical Guide for Clinicians
1999	SEMG	Cram, J.R.	Dynamic Surface Electromyographic Evaluations For Cervical Flexion Studies
1999	SEMG & Dynamic ROM	Cram, J., Kneebone, W.J.	Cervical Flexion: A Study of Dynamic Surface Electromyography and Range of Motion. J. Manipulative & Physiological Therapeutics, Vol. 22. No. 9. 1999.

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2001	SEMG	Kneebone, W.J.	Surface electromyography is a beneficial means of assessing and evaluating muscle action. Chiropractic Products. February 2001.
2001	SEMG	Donaldson, S., Sella, G., Mueller, H.	The Neural Plasticity Model of Fibromyalgia

**Other Studies & Articles Supporting the Efficacy of (DROM, SEMG and Muscle Testing)**  
**INDEX OF ARTICLES 1977 - Present**

<b>YEAR</b>	<b>KEYWORD</b>	<b>AUTHOR</b>	<b>TITLE</b>
1977	EMG	Wolf, S.L., Basmajian, J.V.	Assessment of paraspinal electromyographic activity in normal subjects and in chronic back pain patients using a muscle biofeedback device.
1982	EMG	Wolf, S.L., Nacht, M., Kelly, J.	EMG feedback training during dynamic movement for low back pain patients.
1984	EMG	Kippers, V., Parker, A.W.	Posture related to myoelectric silence of erectors spinae during trunk flexion
1985	EMG	Cram, J.	Clinical EMG for surface recordings: Volume 2
1986	EMG	Triano, J., Schultz, A.	Correlation of objective measure of trunk motion and muscle function with low-back disability ratings.
1988	EMG	Cram, J., Cahn, T.	EMG Muscle Scanning
1991	EMG	Sihvonen, T., Partanen, J., Hanninen, O., Soimakallio, S.	Electric behavior of low back muscles during lumbar pelvic rhythm in low back pain patients and healthy controls.
1994	EMG	Daus, C.	Measuring efficacy with EMG
1999	EMG	Niznik, L.	A look at surface EMG and Dynamic Range of Motion
2000	SEMG	Ambroz, C., Scott, A., Ambroz, A., Talbott, E.O.	Chronic low back pain assessment using surface electromyography.
2002	SEMG	Wimalaratna, H.S., Tooley, M.A., Churchill, E., Preece, A.W., Morgan, H.M.	Quantitative surface EMG in the diagnosis of neuromuscular disorders. Electromyogr Clin Neurophysiol. 2002 Apr-May; 42 (3):167-74.
2005	SEMG	Hogrel, J.Y.	Clinical applications of surface electromyography in neuromuscular disorders. Neurophysiol Clin. 2005 Jul; 35 (2-3):59-71.
2005	SEMG	Geisser, M.E., Ranavava, M., Haig, A.J., Roth, R.S., Zucker, R.,	A meta-analytic review of surface electromyography among persons with low back pain and normal, healthy controls. J. Pain. 2005 Nov;6(11):711-26.

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		Ambroz, C., Caruso, M.	
2006	SEMG	Joines, S.M., Sommerich, C.M., Mirka, G.A., Wilson, J.R., Moon, S.D.	Low-level exertions of the neck musculature: A study of research methods. J Electromyogr Kinesiol, 2006 Feb 22.