

RESEARCH – MURPHY*continued from page 12*

tebral muscle tension.

4. Abnormal or blocked joint play and end-feel.
5. Sensorimotor changes in the upper extremity.

"The most reliable spinal-dysfunction-indicator is tenderness with palpation of the dysfunctional joint." **[Important]**

To assess joint dysfunction, cervical range of motion also has good reliability.

In this study, cervical spinal dysfunction was defined as having both restricted intersegmental range of motion and tenderness to palpation of the restricted joint.

"The spinal manipulations carried out in this study were high velocity, low amplitude thrusts to the spine held in lateral flexion, with slight rotation and slight extension. This is a standard manipulative technique used by manipula-

tive physicians, physiotherapists and chiropractors."

High velocity manipulation was chosen for this study because previous research has shown that only high-velocity manipulations alter reflex EMG activity and therefore would be more likely to alter afferent input to the central nervous system. **[Important]**

The non-manipulative passive head movement procedures entailed passively placing the subjects head in the same position that would be used to manipulate the cervical spine, and

then returning the subjects head to the neutral position without doing a manipulation.

Immediately following the intervention (high-velocity manipulation or passive cervical set-up motion), three SEPs were recorded at 1-10 minutes, 10-20 minutes, and 20-30 minutes.

RESULTS:

The high-velocity manipulation subjects showed significant cortical SEP amplitude attenuation at various locations.

CONTINUED ON PAGE 19

CHIRO SECURE™

Next Generation Chiropractic Malpractice Insurance



Dr. Stuart Hoffman ChiroSecure President

Also Available:

- **Business Owners**
- **Life/Health**
- **Disability Insurance**
- **Retirement Planning**
- **Equipment Leasing**

Call today for a FREE quote!

1-866-802-4476

www.chirosecure.com

The most Comprehensive Coverage available – at the most Competitive Rates!

1. **Legal and Audit Expense Coverage** — Includes up to \$50,000 defense and audit expense coverage for:
 - Board
 - HIPAA
 - Billing errors and omissions
 - Insurance Audit
2. **Unlimited Sexual misconduct defense coverage**
3. **True Consent to settle** — Claims will not be settled without your consent
4. **National Network of expert Attorneys**

Serving Chiropractors for over 16 years

A+ Rated Underwriter

This is intended as a summary only. It does not include all the terms, coverage, exclusions, limitations and conditions of the actual contract language. The policy and endorsements must be read for those details. This policy is currently approved in most states. We await remaining state approval for our enhanced coverage features. Please ask about your state.