## Health Technology Assessment Brief: Ctrac™ Splint

## December 7, 2005 Department of Labor and Industries Office of the Medical Director

**Company:** MeDevice Corp.

**Product:** Ctrac for CTS

**Purpose:** Ctrac for CTS is a pneumatic splint designed to treat symptoms of carpal tunnel

syndrome (CTS) by elongating or stretching the transverse carpal ligament (TCL). CTS is a condition resulting from pressure within the carpal tunnel acting on the median nerve which can produce symptoms including pain, tingling, numbness and weakness of the hand. As a result of these symptoms, CTS can interfere with

work and non-work activities including sleep.

Common treatments for CTS include splinting, anti-inflammatory medications,

occupational therapy and surgery.

FDA Status: Class I, registered and classified as "Apparatus, traction, non-powered"

**Evidence:** No studies on CTrac have been published.

Porrata H, et al. "New Splint for Carpal Tunnel Syndrome Unresponsive to Conservative

Therapy." Unpublished. 2000.

Table 1: Study description.

	Primary			Baseline Pop	Assessor	Intention to
Rating	Outcome	Inclusion	Exclusion	Char	Blinded	Treat
Class IV – controlled trial, w/o blinding, independent assessment, objective outcome measurement	patients graded as poor, fair, good, excellent at end of week	Referred to Saint Vincent's Hospital of New York City. Failed conservative therapy defined as persistence of symptoms of CTS and VAS of 5 or more out of 10, at least 4 months	hypothyroidism, osteoarthritis of the hand, septic or rheumatoid arthritis of the hand, renal	31 subjects: average age treated group (n=19) 51.3, average age control group (n=12) 60.8 years, average 24.3 weeks from index surgery to use of device.	No	No

Table 2: Results from Porrata study.

## Results

VAS scores	Treated Group N=19	Control Group N=12
Pain Baseline	8.52	8.41
4 weeks	1.05*	7.75
Tingling Baseline	8.15	8.08
4 weeks	0.95	7.75
Numbness Baseline	8.47	8.16
4 weeks	0.95	8.00
Patient Satisfaction	Treated Group N=19	Control Group N±12
Excellent	15 (79%)	0
Good	4(21%)	0
Fair	0	3(25%)
Poor	0	9(75%)

Costs: Ctrac purchase price is \$295.

## **Insurers:**

According to the product representative, approximately 12 workers compensation insurers in California have authorized the individual purchases of Ctrac on a total of approximately 12 claims.