Shoulder Pain and Regional Interdependence: Contributions of the **Cervicothoracic Spine**

Paul Mintken^{*}

Department of Physical Therapy Program, University of Colorado Denver, Colorado, USA

DESCRIPTION

seemingly unrelated impairments in a remote anatomical region cervicothoracic spine. may contribute to, or be associated with, the patient's primary complaint." Up to 40% of patients with shoulder pain present CONCLUSION with dysfunction in the cervicothoracic spine and ribs, they outcomes in patients with shoulder pain following manual therapy statistical quirks. directed solely at the cervicothoracic spine. These findings suggest that a subgroup of individuals with shoulder pain may exist who will respond dramatically to this regional interdependence approach.

We conducted a prospective, cohort study of 80 consecutive Shoulder pain is common, with a reported prevalence between 20- patients with non-specific shoulder pain. Subjects completed a 33%. Additionally, the incidence of shoulder pain in the general series of self-report measures and received a detailed standardized population appears to be increasing. The prognosis for patients history and physical examination consisting of a variety of tests and with a new onset of shoulder pain is generally poor, with recovery measures commonly used to classify individuals with shoulder pain. rates of only 49-59% at an 18-month follow-up. Recurrence rates All subjects received a standardized treatment regimen consisting of are also high. In the year 2000, the direct costs for the treatment of cervicothoracic spine manual therapy, 2 general cervical mobility shoulder pain in the United States topped \$7 billion; the total exercises, and advice to maintain usual activity within the limits of costs for managing shoulder pain are attributable to individuals pain. Subjects were classified as having experienced a successful with persistent or recurrent symptoms. Shoulder pain can be outcome based on a well-accepted reference standard of success, the challenging for both patients and health care providers. On non- patientreported Global Rating of Change. Sensitivity, specificity, specific shoulder pain reported that 77% were diagnosed with and positive and negative likelihood ratios were calculated for all more than one shoulder problem. Many shoulder pathologies potential predictor variables. Univariate techniques and step-wise present with similar examination findings, but vary widely in their logistic regression were used to determine the most parsimonious outcomes and require different intervention approaches. Specific set of variables for prediction of treatment success. Variables diagnosis and classification can be difficult, they only moderate retained in the regression model were used to develop a agreement on the classification of shoulder disorders. Given that multivariate set of prognostic variables to identify patients with shoulder pain is difficult to accurately diagnose."The concept that shoulder pain likely to benefit from manual therapy to the

concluded that dysfunction in these regions may represent an If 3 of 5 variables were present (positive LR=5.3, 95% CI=1.7-16.0) intrinsic cause of shoulder pain. Impairments of the the likelihood of success increased to 89%. All individuals that cervicothoracic spine and ribs triple the risk of developing neck presented with 4 or 5 of the variables had a positive outcome (+LR and shoulder disorders and may worsen prognosis. Current ∞, post-test probability 100%). As this was a preliminary study evidence suggests that the inclusion of manual therapy without a control group, caution must be applied in interpreting interventions improves outcomes in the treatment of individuals these prognostic variables as they may simply identify patients who with shoulder pain. Several studies have reported improved would improve with time regardless of intervention, or they may be

Correspondence to: Paul Mintken, Department of Physical Therapy Program, University of Colorado Denver, Colorado, USA; E-mail: Paul.mintken@ucdenver.edu

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