

Accepted Manuscript

Comparison of two lumbar manual therapies on temporal summation of pain in healthy volunteers

Charles W. Penza, Maggie E. Horn, Steven Z. George, Mark D. Bishop



PII: S1526-5900(17)30659-4

DOI: [10.1016/j.jpain.2017.07.007](https://doi.org/10.1016/j.jpain.2017.07.007)

Reference: YJPAI 3448

To appear in: *Journal of Pain*

Received Date: 25 October 2016

Revised Date: 6 July 2017

Accepted Date: 11 July 2017

Please cite this article as: Penza CW, Horn ME, George SZ, Bishop MD, Comparison of two lumbar manual therapies on temporal summation of pain in healthy volunteers, *Journal of Pain* (2017), doi: 10.1016/j.jpain.2017.07.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Title: Comparison of two lumbar manual therapies on temporal summation of pain in healthy volunteers**

2
3 **Authors: (4)**

4 *Names:*

5 Charles W. Penza^a; Maggie E. Horn^b; Steven Z. George^c; Mark D. Bishop^d

6
7 *Affiliations:*

8 ^a Adjunct Associate Research Scientist, Center for Pain Research and Behavioral Health, University of Florida.

9 Gainesville, FL USA. chaz.gay@ufl.edu

10 ^b Assistant Professor, Department of Orthopedic Surgery and Doctor of Physical Therapy Division. Duke

11 University. Durham, NC USA. maggie.horn@duke.edu

12 ^c Professor and Vice Chair of Clinical Research and Director of Musculoskeletal Research for the Duke Clinical

13 Research Institute, Duke University. Durham, NC USA. szgeorge@duke.edu

14 ^d Associate Professor, Department of Physical Therapy, College of Public Health and Health Professions,

15 University of Florida. Gainesville, FL USA. bish@ufl.edu

16
17 **Corresponding Author:**

18 Charles W. Penza DC, PhD

19 Center for Pain Research and Behavioral Health

20 University of Florida

21 Box 100154, UFHSC

22 Gainesville, FL 32610 -0154

23 Phone: (352) 273-5220

24 Fax: (352) 273-6109

25 Email: chaz.gay@ufl.edu

26
27 **Disclosures**

28 *Funding Sources*

29 Support for this study was provided by funds from the University of Florida and the National Institute of

30 Health through the National Center of Complementary and Integrative Health (grant numbers: R01AT006334

31 and F32 AT007729).

32 *Potential Conflicts of Interest*

33 No conflicts of interest are reported for this study.

Download English Version:

<https://daneshyari.com/en/article/8605364>

Download Persian Version:

<https://daneshyari.com/article/8605364>

[Daneshyari.com](https://daneshyari.com)