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Area of Expertise

In 2007, the National Health Interview Survey reported that 83 million adults spent \$33.9 billion out-of-pocket on complementary and alternative medicine (CAM) therapies in the United States. Surprisingly, little is known about how CAM therapies promote health.

Dr. Lisa Hodge's lab studies the effects of CAM on the lymphatic and immune systems. The lymphatic system preserves tissue health, aids in the digestion of food, and stimulates immunity by moving tissue fluid into circulation. Failure of the lymphatic system has been implicated in diseases such as inflammation, autoimmunity, cardiovascular disease, obesity, and edema. Her research examines the effect of CAM therapies on diseases such as pneumonia, inflammatory bowel disease, edema, and cancer. By stimulating the lymphatic system, CAM therapies (such as osteopathic manipulation) may boost the immune system and drain inflammatory substances, dead cells, microbes, and toxins from diseased tissue. Studies such as these are essential to identify the mechanism(s) of action of CAM therapies and provide an evidence-base for their clinical use.

Qualifications

PhD in Microbiology and Immunology, UNT Health Science Center
BS in Microbiology, University of Texas at Arlington

Recent Publications

Effect of abdominal lymphatic pump treatment on disease activity in a rat model of inflammatory bowel disease

Schander, A., Castillo, R., Paredes, D. & Hodge, L. M., May 2020, In: Journal of the American Osteopathic Association. 120, 5, p. 337-344 8 p.

Lymphatic pump treatment mobilizes bioactive lymph that suppresses macrophage activity in vitro

Castillo, R., Schander, A. & Hodge, L. M., Jul 2018, In: Journal of the American Osteopathic Association. 118, 7, p. 455-461 7 p.

Connecting (T)issues: How research in fascia biology can impact integrative oncology

Langevin, H. M., Keely, P., Mao, J., Hodge, L. M., Schleip, R., Deng, G., Hinz, B., Swartz, M. A., De Valois, B. A., Zick, S. & Findley, T., 1 Nov 2016, In: Cancer Research. 76, 21, p. 6159-6162 4 p.

Lymphatic pump treatment as an adjunct to antibiotics for pneumonia in a rat model

Hodge, L. M., Creasy, C., Carter, K. R., Orlowski, A., Schander, A. & King, H. H., May 2015, In: Journal of the American Osteopathic Association. 115, 5, p. 306-316 11 p.

Antigen-pulsed bone marrow-derived and pulmonary dendritic cells promote Th2 cell responses and immunopathology in lungs during the pathogenesis of murine mycoplasma pneumonia

Dobbs, N. A., Zhou, X., Pulse, M., Hodge, L. M., Schoeb, T. R. & Simecka, J. W., 1 Aug 2014, In: Journal of Immunology. 193, 3, p. 1353-1363 11 p.

Lymphatic pump treatment repeatedly enhances the lymphatic and immune systems

Schander, A., Padro, D., King, H. H., Downey, H. F. & Hodge, L. M., 1 Dec 2013, In: Lymphatic Research and Biology. 11, 4, p. 219-226 8 p.

Thoracic and abdominal lymphatic pump techniques inhibit the growth of S. pneumoniae bacteria in the lungs of rats

Creasy, C., Schander, A., Orlowski, A. & Hodge, L. M., 1 Sep 2013, In: Lymphatic Research and Biology. 11, 3, p. 183-186 4 p.

Osteopathic manual treatment in patients with diabetes mellitus and comorbid chronic low back pain: Subgroup results from the osteopathic trial

Licciardone, J. C., Kearns, C. M., Hodge, L. M. & Minotti, D. E., 2013, In: Journal of the American Osteopathic Association. 113, 6, p. 468-478 11 p.

Associations of cytokine concentrations with key osteopathic lesions and clinical outcomes in patients with nonspecific chronic low back pain: Results from the osteopathic trial

Licciardone, J. C., Kearns, C. M., Hodge, L. M. & Bergamini, M. V. W., Sep 2012, In: Journal of the American Osteopathic Association. 112, 9, p. 596-605 10 p.

Osteopathic lymphatic pump techniques to enhance immunity and treat pneumonia

Hodge, L. M., Mar 2012, In: International Journal of Osteopathic Medicine. 15, 1, p. 13-21 9 p.

Sponsored Projects

A Novel Approach to Study the Effect of Osteopathic Manipulative Techniques on Tissue Edema in Rats with Impaired Lymphatic Function

Hodge, L. & Seals, R.

American Academy of Osteopathy

15/06/17 → 15/06/18

Drug Free Communities Support Program

Hodge, L., HODGE, L., HODGE, L. & HODGE, L.

National Institutes of Health

30/09/05 → 29/09/14

Lymphatic Pump Technique as a Treatment Modality for Inflammatory Bowel Disease - Fellow, Art Schander

Hodge, L.

American Osteopathic Association

1/08/12 → 31/07/13

Lymphatic Pump Treatment as an Adjunctive Therapy for the Treatment of Pneumonia

Hodge, L.

American Osteopathic Association

1/09/13 → 29/02/16

Mechanisms of Action of OMT for Chronic Low Back Pain

Licciardone, J. & Hodge, L.

American Osteopathic Association

1/09/09 → 31/03/12

Mechanisms of Lymphatic Pump-Enhancement of Immune Function

Hodge, L. & HODGE, L. M.

National Center for Complementary and Integrative Health

1/01/09 → 31/12/13

Osteopathic Lymphatic Pump Technique as a Treatment for Inflammatory Bowel

Hodge, L.

American Academy of Osteopathy

1/03/14 → 28/02/15

Osteopathic Manipulative Treatment of Somatic Dysfunction and Chronic Low Back Pain in Patients with Type 2 Diabetes Mellitus

Licciardone, J., Hodge, L., Aryal, S. & Mason, D.

American Osteopathic Association

1/09/13 → 31/12/15

The Effect of Lymphatic Pump Treatment on the Clearance of Influenza and Influenza Complicated by Bacterial Pneumonia

Hodge, L.

American Osteopathic Association

1/09/10 → 31/08/12

The Effect of Lymphatic Pump Techniques on Tumor Growth and Metastasis with TCOM Student Callum McCormick

Hodge, L.

Intramural Research(UNTHSC)

1/09/13 → 31/08/14

The Effects of Lymphatic Pump Treatment on the Immune Response During Acute Pneumonia

Hodge, L., Seals, R. & Aryal, S.

American Osteopathic Association

1/09/18 → 31/08/20

The Role of the Lymphatic System During Breast Cancer Metastasis

Hodge, L.

Intramural Research(UNTHSC)

1/10/14 → 30/09/15