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Qigong and the Treatment and Prevention of Cancer: A Bibliography

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ABSTRACT

Qigong is a subfield of Traditional Chinese Medicine (TCM) that has been around for more than 4,000 years. It is also a subfield of health economics. Practicing qigong exercises on a regular basis can improve health and cause the body to function more efficiently. Numerous studies have shown that the regular practice of various qigong exercises can help in the treatment and even the prevention of certain diseases. This bibliography provides the citations to 30 years of medical studies that have been conducted on the use of qigong to treat and prevent cancer.

The bibliography is categorized by type of cancer, which makes it possible to find relevant studies on various types of cancer more easily. The present bibliography is part of a series on the economics of qigong, focusing on the healthcare benefits to be gained by the practice of qigong. Other studies in this series are listed at the end of this bibliography.

Key Words: cancer, qigong, chi gong, chi kung, health qigong, medical qigong, traditional Chinese medicine, TCM, tai chi, taiji chuan, 氣功, 气功, 氣功, 기공

JEL Codes: D60, I00, I10, I12, I19, Y50

METHODOLOGY

The PubMed.gov database was used to find studies on qigong and the prevention and treatment of cancer.

CANCER STUDIES

BIOSOCIALITY AND CANCER

Li, F., & Wang, C. (2020). "A Good Guy" Again: Biosociality in a Cancer Self-help Organization. *Medical anthropology*, 1–14. Advance online publication.
<https://doi.org/10.1080/01459740.2020.1775219>

BONE DENSITY

Fong, S., Choi, A., Luk, W. S., Yam, T., Leung, J., & Chung, J. (2018). Bone Mineral Density, Balance Performance, Balance Self-Efficacy, and Falls in Breast Cancer Survivors With and Without Qigong Training: An Observational Study. *Integrative cancer therapies*, 17(1), 124–130. <https://doi.org/10.1177/1534735416686687>

BREAST CANCER

Chen, Z., Meng, Z., Milbury, K., Bei, W., Zhang, Y., Thornton, B., Liao, Z., Wei, Q., Chen, J., Guo, X., Liu, L., McQuade, J., Kirschbaum, C., & Cohen, L. (2013). Qigong improves quality of life in women undergoing radiotherapy for breast cancer: results of a randomized controlled trial. *Cancer*, 119(9), 1690–1698.
<https://doi.org/10.1002/cncr.27904>

- Cohen, L., Chen, Z., Arun, B., Shao, Z., Dryden, M., Xu, L., Le-Petross, C., Dogan, B., McKenna, B. J., Markman, M., & Babiera, G. (2010). External qigong therapy for women with breast cancer prior to surgery. *Integrative cancer therapies*, 9(4), 348–353. <https://doi.org/10.1177/1534735410387424>
- Fong, S., Choi, A., Luk, W. S., Yam, T., Leung, J., & Chung, J. (2018). Bone Mineral Density, Balance Performance, Balance Self-Efficacy, and Falls in Breast Cancer Survivors With and Without Qigong Training: An Observational Study. *Integrative cancer therapies*, 17(1), 124–130. <https://doi.org/10.1177/1534735416686687>
- Fong, S. S., Ng, S. S., Luk, W. S., Chung, J. W., Ho, J. S., Ying, M., & Ma, A. W. (2014). Effects of qigong exercise on upper limb lymphedema and blood flow in survivors of breast cancer: a pilot study. *Integrative cancer therapies*, 13(1), 54–61. <https://doi.org/10.1177/1534735413490797>
- Fong, S. S., Ng, S. S., Luk, W. S., Chung, J. W., Chung, L. M., Tsang, W. W., & Chow, L. P. (2013). Shoulder Mobility, Muscular Strength, and Quality of Life in Breast Cancer Survivors with and without Tai Chi Qigong Training. *Evidence-based complementary and alternative medicine : eCAM*, 2013, 787169. <https://doi.org/10.1155/2013/787169>
- Huang, S. M., Tseng, L. M., Chien, L. Y., Tai, C. J., Chen, P. H., Hung, C. T., & Hsiung, Y. (2016). Effects of non-sporting and sporting qigong on frailty and quality of life among breast cancer patients receiving chemotherapy. *European journal of oncology nursing : the official journal of European Oncology Nursing Society*, 21, 257–265. <https://doi.org/10.1016/j.ejon.2015.10.012>
- Husebø, A., & Husebø, T. L. (2017). Quality of Life and Breast Cancer: How Can Mind-Body Exercise Therapies Help? An Overview Study. *Sports (Basel, Switzerland)*, 5(4), 79. <https://doi.org/10.3390/sports5040079>
- Kreutz, C., Schmidt, M. E., & Steindorf, K. (2019). Effects of physical and mind-body exercise on sleep problems during and after breast cancer treatment: a systematic review and meta-analysis. *Breast cancer research and treatment*, 176(1), 1–15. <https://doi.org/10.1007/s10549-019-05217-9>
- Larkey L, Huberty J, Pedersen M, Weihs K. Qigong/Tai Chi Easy for fatigue in breast cancer survivors: Rationale and design of a randomized clinical trial. *Contemp Clin Trials*. 2016;50:222-228. doi:10.1016/j.cct.2016.08.002
- Larkey, L. K., Roe, D. J., Smith, L., & Millstine, D. (2016). Exploratory outcome assessment of Qigong/Tai Chi Easy on breast cancer survivors. *Complementary therapies in medicine*, 29, 196–203. <https://doi.org/10.1016/j.ctim.2016.10.006>
- Larkey, L. K., Roe, D. J., Weihs, K. L., Jahnke, R., Lopez, A. M., Rogers, C. E., Oh, B., & Guillen-Rodriguez, J. (2015). Randomized controlled trial of Qigong/Tai Chi Easy on

cancer-related fatigue in breast cancer survivors. *Annals of behavioral medicine : a publication of the Society of Behavioral Medicine*, 49(2), 165–176.
<https://doi.org/10.1007/s12160-014-9645-4>

Lee, T. I., Chen, H. H., & Yeh, M. L. (2006). Effects of chan-chuang qigong on improving symptom and psychological distress in chemotherapy patients. *The American journal of Chinese medicine*, 34(1), 37–46. <https://doi.org/10.1142/S0192415X06003618>

Liu, P., You, J., Loo, W., Sun, Y., He, Y., Sit, H., Jia, L., Wong, M., Xia, Z., Zheng, X., Wang, Z., Wang, N., Lao, L., & Chen, J. (2017). The efficacy of Guolin-Qigong on the body-mind health of Chinese women with breast cancer: a randomized controlled trial. *Quality of life research : an international journal of quality of life aspects of treatment, care and rehabilitation*, 26(9), 2321–2331. <https://doi.org/10.1007/s11136-017-1576-7>

Liu, W., Schaffer, L., Herrs, N., Chollet, C., & Taylor, S. (2015). Improved sleep after Qigong exercise in breast cancer survivors: A pilot study. *Asia-Pacific journal of oncology nursing*, 2(4), 232–239. <https://doi.org/10.4103/2347-5625.170537>

Matthews, E. E., Janssen, D. W., Djalilova, D. M., & Berger, A. M. (2018). Effects of Exercise on Sleep in Women with Breast Cancer: A Systematic Review. *Sleep medicine clinics*, 13(3), 395–417. <https://doi.org/10.1016/j.jsmc.2018.04.007>

Myers, J. S., Mitchell, M., Krigel, S., Steinhoff, A., Boyce-White, A., Van Goethem, K., Valla, M., Dai, J., He, J., Liu, W., Sereika, S. M., & Bender, C. M. (2019). Qigong intervention for breast cancer survivors with complaints of decreased cognitive function. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 27(4), 1395–1403. <https://doi.org/10.1007/s00520-018-4430-8>

Osypiuk, K., Ligibel, J., Giobbie-Hurder, A., Vergara-Diaz, G., Bonato, P., Quinn, R., Ng, W., & Wayne, P. M. (2020). Qigong Mind-Body Exercise as a Biopsychosocial Therapy for Persistent Post-Surgical Pain in Breast Cancer: A Pilot Study. *Integrative cancer therapies*, 19, 1534735419893766. <https://doi.org/10.1177/1534735419893766>

Panchik, D., Masco, S., Zinnikas, P., Hillriegel, B., Lauder, T., Suttmann, E., Chinchilli, V., McBeth, M., & Hermann, W. (2019). Effect of Exercise on Breast Cancer-Related Lymphedema: What the Lymphatic Surgeon Needs to Know. *Journal of reconstructive microsurgery*, 35(1), 37–45. <https://doi.org/10.1055/s-0038-1660832>

Porter, D., Cochrane, S., & Zhu, X. (2017). Current Usage of Traditional Chinese Medicine for Breast Cancer-A Narrative Approach to the Experiences of Women with Breast Cancer in Australia-A Pilot Study. *Medicines (Basel, Switzerland)*, 4(2), 20. <https://doi.org/10.3390/medicines4020020>

Stan, D. L., Collins, N. M., Olsen, M. M., Croghan, I., & Pruthi, S. (2012). The evolution of mindfulness-based physical interventions in breast cancer survivors. *Evidence-based*

complementary and alternative medicine : eCAM, 2012, 758641.
<https://doi.org/10.1155/2012/758641>

- Yan, X., Shen, H., Jiang, H., Hu, D., Zhang, C., Wang, J., & Wu, X. (2010). External Qi of Yan Xin Qigong Induces apoptosis and inhibits migration and invasion of estrogen-independent breast cancer cells through suppression of Akt/NF-kB signaling. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 25(2-3), 263–270. <https://doi.org/10.1159/000276560>
- Yeh, M. L., Lee, T. I., Chen, H. H., & Chao, T. Y. (2006). The influences of Chan-Chuang qigong therapy on complete blood cell counts in breast cancer patients treated with chemotherapy. *Cancer nursing*, 29(2), 149–155. <https://doi.org/10.1097/00002820-200603000-00012>
- Ying, W., Min, Q. W., Lei, T., Na, Z. X., Li, L., & Jing, L. (2019). The health effects of Baduanjin exercise (a type of Qigong exercise) in breast cancer survivors: A randomized, controlled, single-blinded trial. *European journal of oncology nursing : the official journal of European Oncology Nursing Society*, 39, 90–97.
<https://doi.org/10.1016/j.ejon.2019.01.007>
- Zhang, Q., Gao, X., Liu, S., Yu, L., Zhu, J., & Qiu, S. (2020). Therapies for cognitive impairment in breast cancer survivors treated with chemotherapy: A protocol for systematic review. *Medicine*, 99(19), e20092.
<https://doi.org/10.1097/MD.00000000000020092>

CANCER IN MEN

- Ford, C. G., Vowles, K. E., Smith, B. W., & Kinney, A. Y. (2020). Mindfulness and Meditative Movement Interventions for Men Living With Cancer: A Meta-analysis. *Annals of behavioral medicine : a publication of the Society of Behavioral Medicine*, 54(5), 360–373. <https://doi.org/10.1093/abm/kaz053>

COGNITIVE IMPAIRMENT AND CANCER

- Campbell, K. L., Zadravec, K., Bland, K. A., Chesley, E., Wolf, F., & Janelsins, M. C. (2020). The Effect of Exercise on Cancer-Related Cognitive Impairment and Applications for Physical Therapy: Systematic Review of Randomized Controlled Trials. *Physical therapy*, 100(3), 523–542. <https://doi.org/10.1093/ptj/pzz090>

- Myers, J. S., Mitchell, M., Krigel, S., Steinhoff, A., Boyce-White, A., Van Goethem, K., Valla, M., Dai, J., He, J., Liu, W., Sereika, S. M., & Bender, C. M. (2019). Qigong intervention for breast cancer survivors with complaints of decreased cognitive function. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 27(4), 1395–1403. <https://doi.org/10.1007/s00520-018-4430-8>

Oh, B., Butow, P. N., Mullan, B. A., Clarke, S. J., Beale, P. J., Pavlakis, N., Lee, M. S., Rosenthal, D. S., Larkey, L., & Vardy, J. (2012). Effect of medical Qigong on cognitive function, quality of life, and a biomarker of inflammation in cancer patients: a randomized controlled trial. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 20(6), 1235–1242.
<https://doi.org/10.1007/s00520-011-1209-6>

Zhang, Q., Gao, X., Liu, S., Yu, L., Zhu, J., & Qiu, S. (2020). Therapies for cognitive impairment in breast cancer survivors treated with chemotherapy: A protocol for systematic review. *Medicine*, 99(19), e20092.
<https://doi.org/10.1097/MD.00000000000020092>

Zhang, Y., Luo, Y., & Zeng, Y. (2017). Meta-analysis of meditative/relaxation-based interventions for cognitive impairment in cancer patient. *International journal of nursing sciences*, 4(3), 322–327. <https://doi.org/10.1016/j.ijnss.2017.03.010>

COLORECTAL CANCER

Ho, R., Wan, A., Chan, J., Ng, S. M., Chung, K. F., & Chan, C. (2017). Study protocol on comparative effectiveness of mindfulness meditation and qigong on psychophysiological outcomes for patients with colorectal cancer: a randomized controlled trial. *BMC complementary and alternative medicine*, 17(1), 390. <https://doi.org/10.1186/s12906-017-1898-6>

Loh S. H. (1999). Qigong therapy in the treatment of metastatic colon cancer. *Alternative therapies in health and medicine*, 5(4), 112–111.

Lu, Y., Qu, H. Q., Chen, F. Y., Li, X. T., Cai, L., Chen, S., & Sun, Y. Y. (2019). Effect of Baduanjin Qigong Exercise on Cancer-Related Fatigue in Patients with Colorectal Cancer Undergoing Chemotherapy: A Randomized Controlled Trial. *Oncology research and treatment*, 42(9), 431–439. <https://doi.org/10.1159/000501127>

Yan, X., Shen, H., Jiang, H., Hu, D., Wang, J., & Wu, X. (2013). External Qi of Yan Xin Qigong inhibits activation of Akt, Erk1/2 and NF- κ B and induces cell cycle arrest and apoptosis in colorectal cancer cells. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 31(1), 113–122.
<https://doi.org/10.1159/000343354>

DEPRESSION AND CANCER

Henshall, C. L., Allin, L., & Aveyard, H. (2019). A Systematic Review and Narrative Synthesis to Explore the Effectiveness of Exercise-Based Interventions in Improving Fatigue, Dyspnea, and Depression in Lung Cancer Survivors. *Cancer nursing*, 42(4), 295–306.
<https://doi.org/10.1097/NCC.0000000000000605>

DYSPNEA AND CANCER

Henshall, C. L., Allin, L., & Aveyard, H. (2019). A Systematic Review and Narrative Synthesis to Explore the Effectiveness of Exercise-Based Interventions in Improving Fatigue, Dyspnea, and Depression in Lung Cancer Survivors. *Cancer nursing*, 42(4), 295–306. <https://doi.org/10.1097/NCC.0000000000000605>

FALL PREVENTION AND CANCER

Fong, S., Choi, A., Luk, W. S., Yam, T., Leung, J., & Chung, J. (2018). Bone Mineral Density, Balance Performance, Balance Self-Efficacy, and Falls in Breast Cancer Survivors With and Without Qigong Training: An Observational Study. *Integrative cancer therapies*, 17(1), 124–130. <https://doi.org/10.1177/1534735416686687>

Fong, S. S., Chung, L. M., Tsang, W. W., Leung, J. C., Charm, C. Y., Luk, W. S., Chow, L. P., & Ng, S. S. (2014). Balance Performance in Irradiated Survivors of Nasopharyngeal Cancer with and without Tai Chi Qigong Training. *Evidence-based complementary and alternative medicine : eCAM*, 2014, 719437. <https://doi.org/10.1155/2014/719437>

Fulop, J. A., Grimone, A., & Victorson, D. (2017). Restoring Balance for People with Cancer Through Integrative Oncology. *Primary care*, 44(2), 323–335. <https://doi.org/10.1016/j.pop.2017.02.009>

FATIGUE AND CANCER

Arring, N. M., Barton, D. L., Brooks, T., & Zick, S. M. (2019). Integrative Therapies for Cancer-Related Fatigue. *Cancer journal (Sudbury, Mass.)*, 25(5), 349–356. <https://doi.org/10.1097/PPO.0000000000000396>

Campo, R. A., Agarwal, N., LaStayo, P. C., O'Connor, K., Pappas, L., Boucher, K. M., Gardner, J., Smith, S., Light, K. C., & Kinney, A. Y. (2014). Levels of fatigue and distress in senior prostate cancer survivors enrolled in a 12-week randomized controlled trial of Qigong. *Journal of cancer survivorship : research and practice*, 8(1), 60–69. <https://doi.org/10.1007/s11764-013-0315-5>

Henshall, C. L., Allin, L., & Aveyard, H. (2019). A Systematic Review and Narrative Synthesis to Explore the Effectiveness of Exercise-Based Interventions in Improving Fatigue, Dyspnea, and Depression in Lung Cancer Survivors. *Cancer nursing*, 42(4), 295–306. <https://doi.org/10.1097/NCC.0000000000000605>

Larkey L, Huberty J, Pedersen M, Weihs K. Qigong/Tai Chi Easy for fatigue in breast cancer survivors: Rationale and design of a randomized clinical trial. *Contemp Clin Trials*. 2016;50:222-228. doi:10.1016/j.cct.2016.08.002

- Larkey, L. K., Roe, D. J., Weihs, K. L., Jahnke, R., Lopez, A. M., Rogers, C. E., Oh, B., & Guillen-Rodriguez, J. (2015). Randomized controlled trial of Qigong/Tai Chi Easy on cancer-related fatigue in breast cancer survivors. *Annals of behavioral medicine : a publication of the Society of Behavioral Medicine*, 49(2), 165–176.
<https://doi.org/10.1007/s12160-014-9645-4>
- Lee, Y. H., Lai, G. M., Lee, D. C., Tsai Lai, L. J., & Chang, Y. P. (2018). Promoting Physical and Psychological Rehabilitation Activities and Evaluating Potential Links Among Cancer-Related Fatigue, Fear of Recurrence, Quality of Life, and Physiological Indicators in Cancer Survivors. *Integrative cancer therapies*, 17(4), 1183–1194.
<https://doi.org/10.1177/1534735418805149>
- Lu, Y., Qu, H. Q., Chen, F. Y., Li, X. T., Cai, L., Chen, S., & Sun, Y. Y. (2019). Effect of Baduanjin Qigong Exercise on Cancer-Related Fatigue in Patients with Colorectal Cancer Undergoing Chemotherapy: A Randomized Controlled Trial. *Oncology research and treatment*, 42(9), 431–439. <https://doi.org/10.1159/000501127>
- McQuade, J. L., Prinsloo, S., Chang, D. Z., Spelman, A., Wei, Q., Basen-Engquist, K., Harrison, C., Zhang, Z., Kuban, D., Lee, A., & Cohen, L. (2017). Qigong/tai chi for sleep and fatigue in prostate cancer patients undergoing radiotherapy: a randomized controlled trial. *Psycho-oncology*, 26(11), 1936–1943. <https://doi.org/10.1002/pon.4256>
- Pachman, D. R., Price, K. A., & Carey, E. C. (2014). Nonpharmacologic approach to fatigue in patients with cancer. *Cancer journal (Sudbury, Mass.)*, 20(5), 313–318.
<https://doi.org/10.1097/PPO.0000000000000064>
- Sowada K. M. (2019). Qigong: Benefits for Survivors Coping With Cancer-Related Fatigue. *Clinical journal of oncology nursing*, 23(5), 465–469.
<https://doi.org/10.1188/19.CJON.465-469>
- Wu, C., Zheng, Y., Duan, Y., Lai, X., Cui, S., Xu, N., Tang, C., & Lu, L. (2019). Nonpharmacological Interventions for Cancer-Related Fatigue: A Systematic Review and Bayesian Network Meta-Analysis. *Worldviews on evidence-based nursing*, 16(2), 102–110. <https://doi.org/10.1111/wvn.12352>

GENERAL STUDIES

- Browning, K. K., Kue, J., Lyons, F., & Overcash, J. (2017). Feasibility of Mind-Body Movement Programs for Cancer Survivors. *Oncology nursing forum*, 44(4), 446–456.
<https://doi.org/10.1188/17.ONF.446-456>
- Carlson, L. E., Zelinski, E., Toivonen, K., Flynn, M., Qureshi, M., Piedalue, K. A., & Grant, R. (2017). Mind-Body Therapies in Cancer: What Is the Latest Evidence?. *Current oncology reports*, 19(10), 67. <https://doi.org/10.1007/s11912-017-0626-1>

- Carmady, B., & Smith, C. A. (2011). Use of Chinese medicine by cancer patients: a review of surveys. *Chinese medicine*, 6, 22. <https://doi.org/10.1186/1749-8546-6-22>
- Chan, C. L., Wang, C. W., Ho, R. T., Ng, S. M., Chan, J. S., Ziea, E. T., & Wong, V. C. (2012). A systematic review of the effectiveness of qigong exercise in supportive cancer care. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 20(6), 1121–1133. <https://doi.org/10.1007/s00520-011-1378-3>
- Chang, P. S., & Knobf, T. (2019). Qigong Exercise and Tai Chi in Cancer Care. *Asia-Pacific journal of oncology nursing*, 6(4), 315–317. https://doi.org/10.4103/apjon.apjon_34_19
- Chaoul, A., Milbury, K., Sood, A. K., Prinsloo, S., & Cohen, L. (2014). Mind-body practices in cancer care. *Current oncology reports*, 16(12), 417. <https://doi.org/10.1007/s11912-014-0417-x>
- Chen, K. W., & Turner, F. D. (2004). A case study of simultaneous recovery from multiple physical symptoms with medical qigong therapy. *Journal of alternative and complementary medicine (New York, N.Y.)*, 10(1), 159–162. <https://doi.org/10.1089/107555304322849075>
- Chen, K., & Yeung, R. (2002). Exploratory studies of Qigong therapy for cancer in China. *Integrative cancer therapies*, 1(4), 345–370. <https://doi.org/10.1177/1534735402238187>
- Cho W. C. (2010). Scientific evidence on the supportive cancer care with Chinese medicine. *Zhongguo fei ai za zhi = Chinese journal of lung cancer*, 13(3), 190–194. <https://doi.org/10.3779/j.issn.1009-3419.2010.03.01>
- Dobos, G. J., Kirschbaum, B., & Choi, K. E. (2012). The Western model of integrative oncology: the contribution of Chinese medicine. *Chinese journal of integrative medicine*, 18(9), 643–651. <https://doi.org/10.1007/s11655-012-1200-1>
- Elkins, G., Fisher, W., & Johnson, A. (2010). Mind-body therapies in integrative oncology. *Current treatment options in oncology*, 11(3-4), 128–140. <https://doi.org/10.1007/s11864-010-0129-x>
- Fouladbakhsh, J. M., & Stommel, M. (2010). Gender, symptom experience, and use of complementary and alternative medicine practices among cancer survivors in the U.S. cancer population. *Oncology nursing forum*, 37(1), E7–E15. <https://doi.org/10.1188/10.ONF.E7-E15>
- Kerr C. (2002). Translating "mind-in-body": two models of patient experience underlying a randomized controlled trial of qigong. *Culture, medicine and psychiatry*, 26(4), 419–447. <https://doi.org/10.1023/a:1021772324119>

- Klein, P. J., Baumgarden, J., & Schneider, R. (2019). Qigong and Tai Chi as Therapeutic Exercise: Survey of Systematic Reviews and Meta-Analyses Addressing Physical Health Conditions. *Alternative therapies in health and medicine*, 25(5), 48–53.
- Klein P. (2017). Qigong in Cancer Care: Theory, Evidence-Base, and Practice. *Medicines (Basel, Switzerland)*, 4(1), 2. <https://doi.org/10.3390/medicines4010002>
- Klein, P. J., Schneider, R., & Rhoads, C. J. (2016). Qigong in cancer care: a systematic review and construct analysis of effective Qigong therapy. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 24(7), 3209–3222. <https://doi.org/10.1007/s00520-016-3201-7>
- Koh T. C. (1982). Qigong--Chinese breathing exercise. *The American journal of Chinese medicine*, 10(1-4), 86–91. <https://doi.org/10.1142/S0192415X82000142>
- Larkey, L., Kim, W., James, D., Kishida, M., Vizcaino, M., Huberty, J., & Krishnamurthi, N. (2020). Mind-Body and Psychosocial Interventions May Similarly Affect Heart Rate Variability Patterns in Cancer Recovery: Implications for a Mechanism of Symptom Improvement. *Integrative cancer therapies*, 19, 1534735420949677. <https://doi.org/10.1177/1534735420949677>
- Lee, M. S., Chen, K. W., Sancier, K. M., & Ernst, E. (2007). Qigong for cancer treatment: a systematic review of controlled clinical trials. *Acta oncologica (Stockholm, Sweden)*, 46(6), 717–722. <https://doi.org/10.1080/02841860701261584>
- Lee, M. S., Yang, S. H., Lee, K. K., & Moon, S. R. (2005). Effects of Qi therapy (external Qigong) on symptoms of advanced cancer: a single case study. *European journal of cancer care*, 14(5), 457–462. <https://doi.org/10.1111/j.1365-2354.2005.00599.x>
- Lee, M. S., & Jang, H. S. (2005). Two case reports of the acute effects of Qi therapy (external Qigong) on symptoms of cancer: short report. *Complementary therapies in clinical practice*, 11(3), 211–213. <https://doi.org/10.1016/j.ctcp.2005.01.002>
- Lei, X. F., Bi, A. H., Zhang, Z. X., & Cheng, Z. Y. (1991). The antitumor effects of qigong-emitted external Qi and its influence on the immunologic functions of tumor-bearing mice. *Journal of Tongji Medical University = Tong ji yi ke da xue xue bao*, 11(4), 253–256. <https://doi.org/10.1007/BF02888162>
- Liu, J. P., Han, M., Li, X. X., Mu, Y. J., Lewith, G., Wang, Y. Y., Witt, C. M., Yang, G. Y., Manheimer, E., Snellingen, T., Berman, B., & Gluud, C. (2013). Prospective registration, bias risk and outcome-reporting bias in randomised clinical trials of traditional Chinese medicine: an empirical methodological study. *BMJ open*, 3(7), e002968. <https://doi.org/10.1136/bmjopen-2013-002968>
- Loh, S. Y., Lee, S. Y., Quek, K. F., & Murray, L. (2012). Barriers to participation in a randomized controlled trial of Qigong exercises amongst cancer survivors: lessons learnt.

Asian Pacific journal of cancer prevention : APJCP, 13(12), 6337–6342.
<https://doi.org/10.7314/apjcp.2012.13.12.6337>

Mishra, S. I., Scherer, R. W., Snyder, C., Geigle, P. M., Berlanstein, D. R., & Topaloglu, O. (2012). Exercise interventions on health-related quality of life for people with cancer during active treatment. *The Cochrane database of systematic reviews*, 2012(8), CD008465. <https://doi.org/10.1002/14651858.CD008465.pub2>

Overcash, J., Will, K. M., & Lipetz, D. W. (2013). The benefits of medical qigong in patients with cancer: a descriptive pilot study. *Clinical journal of oncology nursing*, 17(6), 654–658. <https://doi.org/10.1188/13.CJON.654-658>

Pierce B. (2007). The use of biofield therapies in cancer care. *Clinical journal of oncology nursing*, 11(2), 253–258. <https://doi.org/10.1188/07.CJON.253-258>

Rachlin, K., Moore, D. H., & Yount, G. (2013). Infrasound sensitizes human glioblastoma cells to cisplatin-induced apoptosis. *Integrative cancer therapies*, 12(6), 517–527. <https://doi.org/10.1177/1534735412465641>

Sancier K. M. (1999). Therapeutic benefits of qigong exercises in combination with drugs. *Journal of alternative and complementary medicine (New York, N.Y.)*, 5(4), 383–389. <https://doi.org/10.1089/acm.1999.5.383>

Satija, A., & Bhatnagar, S. (2017). Complementary Therapies for Symptom Management in Cancer Patients. *Indian journal of palliative care*, 23(4), 468–479. https://doi.org/10.4103/IJPC.IJPC_100_17

Shneerson, C., Taskila, T., Gale, N., Greenfield, S., & Chen, Y. F. (2013). The effect of complementary and alternative medicine on the quality of life of cancer survivors: a systematic review and meta-analyses. *Complementary therapies in medicine*, 21(4), 417–429. <https://doi.org/10.1016/j.ctim.2013.05.003>

Toneti, B. F., Barbosa, R., Mano, L. Y., Sawada, L. O., Oliveira, I. G., & Sawada, N. O. (2020). Benefits of Qigong as an integrative and complementary practice for health: a systematic review. *Revista latino-americana de enfermagem*, 28, e3317. <https://doi.org/10.1590/1518-8345.3718.3317>

Van Vu, D., Molassiotis, A., Ching, S., & Le, T. T. (2017). Effects of Qigong on symptom management in cancer patients: A systematic review. *Complementary therapies in clinical practice*, 29, 111–121. <https://doi.org/10.1016/j.ctcp.2017.09.005>

Vanderbyl, B. L., Mayer, M. J., Nash, C., Tran, A. T., Windholz, T., Swanson, T., Kasymjanova, G., & Jagoe, R. T. (2017). A comparison of the effects of medical Qigong and standard exercise therapy on symptoms and quality of life in patients with advanced cancer. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 25(6), 1749–1758. <https://doi.org/10.1007/s00520-017-3579-x>

Wang, F. F., Yuan, Y., Song, Y. J., Wu, Y. Q., He, Y., Deng, X. X., Wu, S. L., Dai, D. M., & Wang, M. (2020). Exercise or sport activities for patients with cancer: A protocol for overview of systematic reviews and meta-analyses. *Medicine*, 99(20), e20084. <https://doi.org/10.1097/MD.00000000000020084>

White, J. D., Lin, H., Jia, L., Wu, R. S., Lam, S., Li, J., Dou, J., Kumar, N., Lin, L., & Lao, L. (2017). Proceedings of the Strategy Meeting for the Development of an International Consortium for Chinese Medicine and Cancer. *Journal of global oncology*, 3(6), 814–822. <https://doi.org/10.1200/JGO.2016.005710>

Yan, X., Shen, H., Jiang, H., Zhang, C., Hu, D., Wang, J., & Wu, X. (2006). External Qi of Yan Xin Qigong differentially regulates the Akt and extracellular signal-regulated kinase pathways and is cytotoxic to cancer cells but not to normal cells. *The international journal of biochemistry & cell biology*, 38(12), 2102–2113. <https://doi.org/10.1016/j.biocel.2006.06.002>

Yun, H., Sun, L., & Mao, J. J. (2017). Growth of Integrative Medicine at Leading Cancer Centers Between 2009 and 2016: A Systematic Analysis of NCI-Designated Comprehensive Cancer Center Websites. *Journal of the National Cancer Institute. Monographs*, 2017(52), lgx004. <https://doi.org/10.1093/jncimimonographs/lgx004>

Zeng, Y., Xie, X., & Cheng, A. (2019). Qigong or Tai Chi in Cancer Care: an Updated Systematic Review and Meta-analysis. *Current oncology reports*, 21(6), 48. <https://doi.org/10.1007/s11912-019-0786-2>

Zeng, Y., Luo, T., Xie, H., Huang, M., & Cheng, A. S. (2014). Health benefits of qigong or tai chi for cancer patients: a systematic review and meta-analyses. *Complementary therapies in medicine*, 22(1), 173–186. <https://doi.org/10.1016/j.ctim.2013.11.010>

Zhang, Y. P., Hu, R. X., Han, M., Lai, B. Y., Liang, S. B., Chen, B. J., Robinson, N., Chen, K., & Liu, J. P. (2020). Evidence Base of Clinical Studies on Qi Gong: A Bibliometric Analysis. *Complementary therapies in medicine*, 50, 102392. <https://doi.org/10.1016/j.ctim.2020.102392>

IMMUNE FUNCTION

Oh, B., Butow, P., Mullan, B., Hale, A., Lee, M. S., Guo, X., & Clarke, S. (2012). A critical review of the effects of medical Qigong on quality of life, immune function, and survival in cancer patients. *Integrative cancer therapies*, 11(2), 101–110. <https://doi.org/10.1177/1534735411413268>

INSOMNIA AND CANCER

- Fong, S. S., Ng, S. S., Lee, H. W., Pang, M. Y., Luk, W. S., Chung, J. W., Wong, J. Y., & Masters, R. S. (2015). The effects of a 6-month Tai Chi Qigong training program on temporomandibular, cervical, and shoulder joint mobility and sleep problems in nasopharyngeal cancer survivors. *Integrative cancer therapies*, 14(1), 16–25.
<https://doi.org/10.1177/1534735414556508>
- Garland, S. N., Mahon, K., & Irwin, M. R. (2019). Integrative Approaches for Sleep Health in Cancer Survivors. *Cancer journal (Sudbury, Mass.)*, 25(5), 337–342.
<https://doi.org/10.1097/PPO.0000000000000398>
- Kim, S., Lee, S., Kwon, O., Park, S., Seo, J., & Kim, K. (2015). Qigong program on insomnia and stress in cancer patients: A case series report. *SAGE open medical case reports*, 3, 2050313X14556408. <https://doi.org/10.1177/2050313X14556408>
- Kreutz, C., Schmidt, M. E., & Steindorf, K. (2019). Effects of physical and mind-body exercise on sleep problems during and after breast cancer treatment: a systematic review and meta-analysis. *Breast cancer research and treatment*, 176(1), 1–15.
<https://doi.org/10.1007/s10549-019-05217-9>
- Liu, W., Schaffer, L., Herrs, N., Chollet, C., & Taylor, S. (2015). Improved sleep after Qigong exercise in breast cancer survivors: A pilot study. *Asia-Pacific journal of oncology nursing*, 2(4), 232–239. <https://doi.org/10.4103/2347-5625.170537>
- Matthews, E. E., Janssen, D. W., Djalilova, D. M., & Berger, A. M. (2018). Effects of Exercise on Sleep in Women with Breast Cancer: A Systematic Review. *Sleep medicine clinics*, 13(3), 395–417. <https://doi.org/10.1016/j.jsmc.2018.04.007>
- McQuade, J. L., Prinsloo, S., Chang, D. Z., Spelman, A., Wei, Q., Basen-Engquist, K., Harrison, C., Zhang, Z., Kuban, D., Lee, A., & Cohen, L. (2017). Qigong/tai chi for sleep and fatigue in prostate cancer patients undergoing radiotherapy: a randomized controlled trial. *Psycho-oncology*, 26(11), 1936–1943. <https://doi.org/10.1002/pon.4256>

JOINT MOBILITY

- Fong, S. S., Ng, S. S., Lee, H. W., Pang, M. Y., Luk, W. S., Chung, J. W., Wong, J. Y., & Masters, R. S. (2015). The effects of a 6-month Tai Chi Qigong training program on temporomandibular, cervical, and shoulder joint mobility and sleep problems in nasopharyngeal cancer survivors. *Integrative cancer therapies*, 14(1), 16–25.
<https://doi.org/10.1177/1534735414556508>

LUNG CANCER

Henshall, C. L., Allin, L., & Aveyard, H. (2019). A Systematic Review and Narrative Synthesis to Explore the Effectiveness of Exercise-Based Interventions in Improving Fatigue, Dyspnea, and Depression in Lung Cancer Survivors. *Cancer nursing*, 42(4), 295–306. <https://doi.org/10.1097/NCC.0000000000000605>

Yan, X., Shen, H., Jiang, H., Hu, D., Wang, J., & Wu, X. (2018). YXQ-EQ Induces Apoptosis and Inhibits Signaling Pathways Important for Metastasis in Non-Small Cell Lung Carcinoma Cells. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 49(3), 911–919. <https://doi.org/10.1159/000493223>

Yan, X., Li, F., Dozmorov, I., Frank, M. B., Dao, M., Centola, M., Cao, W., & Hu, D. (2012). External Qi of Yan Xin Qigong induces cell death and gene expression alterations promoting apoptosis and inhibiting proliferation, migration and glucose metabolism in small-cell lung cancer cells. *Molecular and cellular biochemistry*, 363(1-2), 245–255. <https://doi.org/10.1007/s11010-011-1176-8>

LYMPHEDEMA

Panchik, D., Masco, S., Zinnikas, P., Hillriegel, B., Lauder, T., Suttmann, E., Chinchilli, V., McBeth, M., & Hermann, W. (2019). Effect of Exercise on Breast Cancer-Related Lymphedema: What the Lymphatic Surgeon Needs to Know. *Journal of reconstructive microsurgery*, 35(1), 37–45. <https://doi.org/10.1055/s-0038-1660832>

NASOPHARYNGEAL CANCER

Fong, S. S., Ng, S. S., Lee, H. W., Pang, M. Y., Luk, W. S., Chung, J. W., Wong, J. Y., & Masters, R. S. (2015). The effects of a 6-month Tai Chi Qigong training program on temporomandibular, cervical, and shoulder joint mobility and sleep problems in nasopharyngeal cancer survivors. *Integrative cancer therapies*, 14(1), 16–25. <https://doi.org/10.1177/1534735414556508>

Fong, S. S., Wong, J. Y., Chung, L. M., Yam, T. T., Chung, J. W., Lee, Y. M., Chow, L. P., Luk, W. S., & Ng, S. S. (2015). Changes in heart-rate variability of survivors of nasopharyngeal cancer during Tai Chi Qigong practice. *Journal of physical therapy science*, 27(5), 1577–1579. <https://doi.org/10.1589/jpts.27.1577>

Fong SS, Ng SS, Luk WS, Chung LM, Wong JY, Chung JW. Effects of qigong training on health-related quality of life, functioning, and cancer-related symptoms in survivors of nasopharyngeal cancer: a pilot study. *Evid Based Complement Alternat Med*. 2014;2014:495274. doi:10.1155/2014/495274

Fong, S. S., Chung, L. M., Tsang, W. W., Leung, J. C., Charm, C. Y., Luk, W. S., Chow, L. P., & Ng, S. S. (2014). Balance Performance in Irradiated Survivors of Nasopharyngeal Cancer with and without Tai Chi Qigong Training. *Evidence-based complementary and alternative medicine : eCAM*, 2014, 719437. <https://doi.org/10.1155/2014/719437>

Fong, S. S., Ng, S. S., Luk, W. S., Chung, J. W., Leung, J. C., & Masters, R. S. (2014). Effects of a 6-month Tai Chi Qigong program on arterial hemodynamics and functional aerobic capacity in survivors of nasopharyngeal cancer. *Journal of cancer survivorship : research and practice*, 8(4), 618–626. <https://doi.org/10.1007/s11764-014-0372-4>

NON-HODGKIN LYMPHOMA

Chuang, T. Y., Yeh, M. L., & Chung, Y. C. (2017). A nurse facilitated mind-body interactive exercise (Chan-Chuang qigong) improves the health status of non-Hodgkin lymphoma patients receiving chemotherapy: Randomised controlled trial. *International journal of nursing studies*, 69, 25–33. <https://doi.org/10.1016/j.ijnurstu.2017.01.004>

PAIN MANAGEMENT AND CANCER

Bao, Y., Kong, X., Yang, L., Liu, R., Shi, Z., Li, W., Hua, B., & Hou, W. (2014). Complementary and alternative medicine for cancer pain: an overview of systematic reviews. *Evidence-based complementary and alternative medicine : eCAM*, 2014, 170396. <https://doi.org/10.1155/2014/170396>

Deng G. (2019). Integrative Medicine Therapies for Pain Management in Cancer Patients. *Cancer journal (Sudbury, Mass.)*, 25(5), 343–348. <https://doi.org/10.1097/PPO.0000000000000399>

Maindet, C., Burnod, A., Minello, C., George, B., Allano, G., & Lemaire, A. (2019). Strategies of complementary and integrative therapies in cancer-related pain-attaining exhaustive cancer pain management. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 27(8), 3119–3132. <https://doi.org/10.1007/s00520-019-04829-7>

Omura Y. (2004). Special sunrise & sunset solar energy stored papers and their clinical applications for intractable pain, circulatory disturbances & cancer: comparison of beneficial effects between Special Solar Energy Stored Paper and Qigong Energy Stored Paper. *Acupuncture & electro-therapeutics research*, 29(1-2), 1–42. <https://doi.org/10.3727/036012904815901551>

Tang, S. K., Tse, M., Leung, S. F., & Fotis, T. (2019). The effectiveness, suitability, and sustainability of non-pharmacological methods of managing pain in community-dwelling older adults: a systematic review. *BMC public health*, 19(1), 1488. <https://doi.org/10.1186/s12889-019-7831-9>

PROSTATE CANCER

Campo, R. A., Agarwal, N., LaStayo, P. C., O'Connor, K., Pappas, L., Boucher, K. M., Gardner, J., Smith, S., Light, K. C., & Kinney, A. Y. (2014). Levels of fatigue and distress in senior prostate cancer survivors enrolled in a 12-week randomized controlled trial of Qigong. *Journal of cancer survivorship : research and practice*, 8(1), 60–69.
<https://doi.org/10.1007/s11764-013-0315-5>

Kinney, A. Y., Blair, C. K., Guest, D. D., Ani, J. K., Harding, E. M., Amorim, F., Boyce, T., Rodman, J., Ford, C. G., Schwartz, M., Rosenberg, L., Foran, O., Gardner, J., Lin, Y., Arap, W., & Irwin, M. R. (2019). Biobehavioral effects of Tai Chi Qigong in men with prostate cancer: Study design of a three-arm randomized clinical trial. *Contemporary clinical trials communications*, 16, 100431. <https://doi.org/10.1016/j.conc.2019.100431>

McQuade, J. L., Prinsloo, S., Chang, D. Z., Spelman, A., Wei, Q., Basen-Engquist, K., Harrison, C., Zhang, Z., Kuban, D., Lee, A., & Cohen, L. (2017). Qigong/tai chi for sleep and fatigue in prostate cancer patients undergoing radiotherapy: a randomized controlled trial. *Psycho-oncology*, 26(11), 1936–1943. <https://doi.org/10.1002/pon.4256>

Yan, X., Shen, H., Jiang, H., Zhang, C., Hu, D., Wang, J., & Wu, X. (2008). External Qi of Yan Xin Qigong induces G2/M arrest and apoptosis of androgen-independent prostate cancer cells by inhibiting Akt and NF-kappa B pathways. *Molecular and cellular biochemistry*, 310(1-2), 227–234. <https://doi.org/10.1007/s11010-007-9684-2>

QUALITY OF LIFE AND CANCER

Chen, X., Gong, X., Shi, C., Sun, L., Tang, Z., Yuan, Z., Wang, J., & Yu, J. (2018). Multi-focused psychosocial residential rehabilitation interventions improve quality of life among cancer survivors: a community-based controlled trial. *Journal of translational medicine*, 16(1), 250. <https://doi.org/10.1186/s12967-018-1618-0>

Chen, Z., Meng, Z., Milbury, K., Bei, W., Zhang, Y., Thornton, B., Liao, Z., Wei, Q., Chen, J., Guo, X., Liu, L., McQuade, J., Kirschbaum, C., & Cohen, L. (2013). Qigong improves quality of life in women undergoing radiotherapy for breast cancer: results of a randomized controlled trial. *Cancer*, 119(9), 1690–1698.
<https://doi.org/10.1002/cncr.27904>

Cheng, T. C., Lee, Y. H., Mar, C. L., Huang, W. T., & Chang, Y. P. (2020). The Health Promoting Mindfulness or Qigong Educational Programs for Beneficial Lifestyle Changes of Cancer Survivors. *Journal of cancer education : the official journal of the American Association for Cancer Education*, 35(4), 743–750.
<https://doi.org/10.1007/s13187-019-01522-5>

Fong SS, Ng SS, Luk WS, Chung LM, Wong JY, Chung JW. Effects of qigong training on health-related quality of life, functioning, and cancer-related symptoms in survivors of nasopharyngeal cancer: a pilot study. *Evid Based Complement Alternat Med*. 2014;2014:495274. doi:10.1155/2014/495274

Fong, S. S., Ng, S. S., Luk, W. S., Chung, J. W., Chung, L. M., Tsang, W. W., & Chow, L. P. (2013). Shoulder Mobility, Muscular Strength, and Quality of Life in Breast Cancer Survivors with and without Tai Chi Qigong Training. *Evidence-based complementary and alternative medicine : eCAM*, 2013, 787169. <https://doi.org/10.1155/2013/787169>

Huang, S. M., Tseng, L. M., Chien, L. Y., Tai, C. J., Chen, P. H., Hung, C. T., & Hsiung, Y. (2016). Effects of non-sporting and sporting qigong on frailty and quality of life among breast cancer patients receiving chemotherapy. *European journal of oncology nursing : the official journal of European Oncology Nursing Society*, 21, 257–265. <https://doi.org/10.1016/j.ejon.2015.10.012>

Husebø, A., & Husebø, T. L. (2017). Quality of Life and Breast Cancer: How Can Mind-Body Exercise Therapies Help? An Overview Study. *Sports (Basel, Switzerland)*, 5(4), 79. <https://doi.org/10.3390/sports5040079>

Kelley, G. A., & Kelley, K. S. (2015). Meditative Movement Therapies and Health-Related Quality-of-Life in Adults: A Systematic Review of Meta-Analyses. *PLoS one*, 10(6), e0129181. <https://doi.org/10.1371/journal.pone.0129181>

King, M. T., Bell, M. L., Costa, D., Butow, P., & Oh, B. (2014). The Quality of Life Questionnaire Core 30 (QLQ-C30) and Functional Assessment of Cancer-General (FACT-G) differ in responsiveness, relative efficiency, and therefore required sample size. *Journal of clinical epidemiology*, 67(1), 100–107. <https://doi.org/10.1016/j.jclinepi.2013.02.019>

Lin, W. F., Zhong, M. F., Zhou, Q. H., Zhang, Y. R., Wang, H., Zhao, Z. H., Cheng, B. B., & Ling, C. Q. (2019). Efficacy of complementary and integrative medicine on health-related quality of life in cancer patients: a systematic review and meta-analysis. *Cancer management and research*, 11, 6663–6680. <https://doi.org/10.2147/CMAR.S195935>

Loh, S. Y., Lee, S. Y., & Murray, L. (2014). The Kuala Lumpur Qigong trial for women in the cancer survivorship phase-efficacy of a three-arm RCT to improve QOL. *Asian Pacific journal of cancer prevention : APJCP*, 15(19), 8127–8134. <https://doi.org/10.7314/apjcp.2014.15.19.8127>

Mishra, S. I., Scherer, R. W., Geigle, P. M., Berlanstein, D. R., Topaloglu, O., Gotay, C. C., & Snyder, C. (2012). Exercise interventions on health-related quality of life for cancer survivors. *The Cochrane database of systematic reviews*, 2012(8), CD007566. <https://doi.org/10.1002/14651858.CD007566.pub2>

- Oh, B., Butow, P. N., Mullan, B. A., Clarke, S. J., Beale, P. J., Pavlakis, N., Lee, M. S., Rosenthal, D. S., Larkey, L., & Vardy, J. (2012). Effect of medical Qigong on cognitive function, quality of life, and a biomarker of inflammation in cancer patients: a randomized controlled trial. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 20(6), 1235–1242.
<https://doi.org/10.1007/s00520-011-1209-6>
- Oh, B., Butow, P., Mullan, B., Hale, A., Lee, M. S., Guo, X., & Clarke, S. (2012). A critical review of the effects of medical Qigong on quality of life, immune function, and survival in cancer patients. *Integrative cancer therapies*, 11(2), 101–110.
<https://doi.org/10.1177/1534735411413268>
- Oh, B., Butow, P., Mullan, B., Clarke, S., Beale, P., Pavlakis, N., Kothe, E., Lam, L., & Rosenthal, D. (2010). Impact of medical Qigong on quality of life, fatigue, mood and inflammation in cancer patients: a randomized controlled trial. *Annals of oncology : official journal of the European Society for Medical Oncology*, 21(3), 608–614.
<https://doi.org/10.1093/annonc/mdp479>
- Rosenbaum, E., Gautier, H., Fobair, P., Neri, E., Festa, B., Hawn, M., Andrews, A., Hirshberger, N., Selim, S., & Spiegel, D. (2004). Cancer supportive care, improving the quality of life for cancer patients. A program evaluation report. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 12(5), 293–301.
<https://doi.org/10.1007/s00520-004-0599-0>
- Tao, W. W., Jiang, H., Tao, X. M., Jiang, P., Sha, L. Y., & Sun, X. C. (2016). Effects of Acupuncture, Tuina, Tai Chi, Qigong, and Traditional Chinese Medicine Five-Element Music Therapy on Symptom Management and Quality of Life for Cancer Patients: A Meta-Analysis. *Journal of pain and symptom management*, 51(4), 728–747.
<https://doi.org/10.1016/j.jpainsympman.2015.11.027>
- Tao, W., Luo, X., Cui, B., Liang, D., Wang, C., Duan, Y., Li, X., Zhou, S., Zhao, M., Li, Y., He, Y., Wang, S., Kelley, K. W., Jiang, P., & Liu, Q. (2015). Practice of traditional Chinese medicine for psycho-behavioral intervention improves quality of life in cancer patients: A systematic review and meta-analysis. *Oncotarget*, 6(37), 39725–39739.
<https://doi.org/10.18632/oncotarget.5388>
- Vanderbyl, B. L., Mayer, M. J., Nash, C., Tran, A. T., Windholz, T., Swanson, T., Kasymjanova, G., & Jagoe, R. T. (2017). A comparison of the effects of medical Qigong and standard exercise therapy on symptoms and quality of life in patients with advanced cancer. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*, 25(6), 1749–1758. <https://doi.org/10.1007/s00520-017-3579-x>
- Wayne, P. M., Lee, M. S., Novakowski, J., Osypiuk, K., Ligibel, J., Carlson, L. E., & Song, R. (2018). Tai Chi and Qigong for cancer-related symptoms and quality of life: a systematic review and meta-analysis. *Journal of cancer survivorship : research and practice*, 12(2), 256–267. <https://doi.org/10.1007/s11764-017-0665-5>

RECOVERY AND CANCER

Carlson, L. E., Oberoi, D. V., Qureshi, M., & Subnis, U. (2018). Integrative Oncology Trials in the Real World: Assessing the Pragmatism of an Ongoing Integrative Oncology Trial of Mindfulness and T'ai Chi/Qigong. *Journal of alternative and complementary medicine (New York, N.Y.)*, 24(9-10), 926–932. <https://doi.org/10.1089/acm.2018.0208>

Carlson, L. E., Zelinski, E. L., Speca, M., Balneaves, L. G., Jones, J. M., Santa Mina, D., Wayne, P. M., Campbell, T. S., Giese-Davis, J., Faris, P., Zwicker, J., Patel, K., Beattie, T. L., Cole, S., Toivonen, K., Nation, J., Peng, P., Thong, B., Wong, R., & Vohra, S. (2017). Protocol for the MATCH study (Mindfulness and Tai Chi for cancer health): A preference-based multi-site randomized comparative effectiveness trial (CET) of Mindfulness-Based Cancer Recovery (MBCR) vs. Tai Chi/Qigong (TCQ) for cancer survivors. *Contemporary clinical trials*, 59, 64–76.
<https://doi.org/10.1016/j.cct.2017.05.015>

Oberoi, D., Piedalue, K. L., Pirbhail, H., Guirguis, S., Santa Mina, D., & Carlson, L. E. (2020). Factors related to dropout in integrative oncology clinical trials: interim analysis of an ongoing comparative effectiveness trial of mindfulness-based cancer recovery and Tai chi/Qigong for cancer health (The MATCH study). *BMC research notes*, 13(1), 342.
<https://doi.org/10.1186/s13104-020-05172-5>

REHABILITATION

Chen, X., Gong, X., Shi, C., Sun, L., Tang, Z., Yuan, Z., Wang, J., & Yu, J. (2018). Multi-focused psychosocial residential rehabilitation interventions improve quality of life among cancer survivors: a community-based controlled trial. *Journal of translational medicine*, 16(1), 250. <https://doi.org/10.1186/s12967-018-1618-0>

Lee, Y. H., Lai, G. M., Lee, D. C., Tsai Lai, L. J., & Chang, Y. P. (2018). Promoting Physical and Psychological Rehabilitation Activities and Evaluating Potential Links Among Cancer-Related Fatigue, Fear of Recurrence, Quality of Life, and Physiological Indicators in Cancer Survivors. *Integrative cancer therapies*, 17(4), 1183–1194.
<https://doi.org/10.1177/1534735418805149>

Ruddy, K. J., Stan, D. L., Bhagra, A., Jurisson, M., & Cheville, A. L. (2017). Alternative Exercise Traditions in Cancer Rehabilitation. *Physical medicine and rehabilitation clinics of North America*, 28(1), 181–192. <https://doi.org/10.1016/j.pmr.2016.08.002>

SURVIVAL

Oh, B., Butow, P., Mullan, B., Hale, A., Lee, M. S., Guo, X., & Clarke, S. (2012). A critical review of the effects of medical Qigong on quality of life, immune function, and survival in cancer patients. *Integrative cancer therapies*, 11(2), 101–110.
<https://doi.org/10.1177/1534735411413268>

REFERENCES

PubMed.gov. National Library of Medicine, National Center for Biotechnology Information, National Institute of Health. <https://pubmed.ncbi.nlm.nih.gov/>

PAPERS IN THE ECONOMICS OF QIGONG SERIES

- 1 Qigong: A Bibliography of Books and Other Materials, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 1, August 25, 2020. Robert W. McGee. <http://ssrn.com/abstract=3685542>
- 2 A Bibliography of Recent Medical Research on Qigong, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 2, August 31, 2020. Robert W. McGee. <http://ssrn.com/abstract=3685561>
- 3 Ba Duan Jin as a Treatment for Physical Ailments: A Bibliography of Recent Medical Research, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 3, August 31, 2020. Robert W. McGee. <https://ssrn.com/abstract=3685571>
- 4 Wu Qin Xi as a Treatment for Physical Ailments: A Bibliography of Recent Medical Research, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 4, August 31, 2020. Robert W. McGee. <https://ssrn.com/abstract=3685575>
- 5 The Use of Yi Jin Jing to Treat Illness: A Summary of Three Studies, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 5, August 31, 2020. Robert W. McGee. <https://ssrn.com/abstract=3685577>
- 6 Qigong and the Treatment and Prevention of COVID-19, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 6, September 4. Robert W. McGee. <https://ssrn.com/abstract=3686381>

- 7 Qigong and the Treatment and Prevention of Cancer, Fayetteville State University, Broadwell College of Business and Economics, *Studies in the Economics of Qigong*, No. 7, September 14. Robert W. McGee.
<https://ssrn.com/abstract=3692125>

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