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Yoga research review

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ABSTRACT

This paper is a review of empirical studies, review and meta-analysis publications on yoga from the last few years. The review includes demographics/prevalence of yoga as a practice, bibliometric analyses of the yoga publications and the use of yoga for physical fitness and cognitive function. Most of the studies reviewed here involve yoga effects on psychiatric and medical conditions. These include pregnancy, prenatal and postpartum depression; stress, PTSD, anxiety, and obesity; cardiovascular conditions including hypertension; pain syndromes including arthritis, headaches and low back pain; autoimmune conditions including asthma, type II diabetes and multiple sclerosis; immune conditions including HIV and breast cancer; and aging problems including balance, osteoporosis and Parkinson's. The methods and results of those studies are briefly summarized along with their limitations and suggestions for future research. Basically yoga has been more effective than control and waitlist control conditions, although not always more effective than treatment comparison groups such as other forms of exercise. More randomized controlled studies are needed in which yoga is compared to active exercise groups. Having established the physical and mental health benefits of yoga makes it ethically questionable to assign participants to inactive control groups. Shorter sessions should be investigated for cost-effectiveness and for daily practice. Multiple physical and physiological measures need to be added to the self-report research protocols and potential underlying mechanisms need to be further explored. In the interim, the studies reviewed here highlight the therapeutic effects of yoga, a practice that could come to be called yoga therapy.

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This paper is a review of empirical studies, review and meta-analysis papers on yoga that have been published over the past years (since our last review in 2010) [1]. The term yoga was entered into Pubmed and the selection criteria were empirical studies (single arm, randomized controlled) in which standard treatment, waitlist and treatment comparison groups were compared to yoga groups (of different styles). Systematic reviews, bibliometric analyses and meta-analyses are also included. Exclusion criteria were case studies, qualitative studies, small sample pilot studies and studies in which assessors were not blind. The review includes 2 surveys, 23 single arm trials, 52 randomized controlled trials, 11 systematic reviews and 7 meta-analyses.

Included are brief summaries of papers on the demographics/ prevalence of yoga as a practice, bibliometric analyses of the yoga publications and the use of yoga for grade school, high school and university students as well as for yoga practitioners. The majority of the studies reviewed involve yoga effects on psychiatric and medical conditions. The methods and results of those studies are briefly summarized along with their limitations and suggestions for future research. The psychiatric conditions include prenatal depression, stress, anxiety, posttraumatic stress disorder and eating disorder. The medical conditions include prematurity, cardiovascular (hypertension, elevated cholesterol), pain syndromes (arthritis, low back pain, headaches, fibromyalgia), autoimmune (asthma, diabetes, irritable bowel, chronic fatigue, multiple sclerosis) and immune (HIV, breast cancer) conditions, as well as aging problems (sleep, balance, osteoporosis, Parkinson's). These and underlying mechanism studies are critically reviewed and suggestions are

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