

54 Health Conditions Benefited by Yoga (With References)

Compiled by Timothy McCall, MD (Updated January 2011)

- **Alcoholism and Other Drug Abuse**
- **Anxiety**
- **Asthma**
- **Attention Deficit Hyperactivity Disorder (ADHD)**
- **Autism**
- **Back Pain**
- **Balance Problems**
- **Cancer**
- **Carpal Tunnel Syndrome**
- **Chronic Obstructive Pulmonary Disease (e.g. Emphysema)**
- **Congestive Heart Failure**
- **Depression**
- **Diabetes**
- **Drug Withdrawal**
- **Eating Disorders**
- **Epilepsy**
- **Fibromyalgia**
- **Heart Disease**
- **Hemorrhoids**
- **High Blood Pressure**
- **HIV/AIDS**
- **Infertility**
- **Insomnia**
- **Irritable Bowel Syndrome**
- **Kidney Failure**
- **Mental Developmental Impairment**
- **Menopausal (and Perimenopausal) Symptoms**
- **Migraine and Tension Headaches**
- **Multiple Sclerosis**
- **Neck Pain**
- **Neuroses (e.g. Phobias)**
- **Obesity**
- **Obsessive Compulsive Disorder (OCD)**
- **Osteoporosis**
- **Osteoarthritis (Degenerative Arthritis)**
- **Pain (Chronic)**
- **Pleural Effusion (Fluid Collection in the Lining of the Lung)**
- **Post Heart Attack Rehabilitation**
- **Post-Polio Syndrome**
- **Post-Operative Recovery**
- **Post-Stroke Rehabilitation**
- **Post-Traumatic Stress Disorder (PTSD)**
- **Pregnancy (both normal and complicated)**
- **Psoriasis**
- **Rheumatoid Arthritis**
- **Rhinitis (Inflammation of the Nose)**
- **Schizophrenia**
- **Scoliosis (Curvature of the Spine)**
- **Sexual Function**
- **Sinusitis**
- **Tuberculosis**
- **Urinary Stress Incontinence**

References for 54 Health Conditions Benefited by Yoga

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• Alcoholism and Other Drug Abuse

Shaffer HJ, LaSalvia TA, Stein JP. Comparing Hatha yoga with dynamic group psychotherapy for enhancing methadone maintenance treatment: a randomized clinical trial. *Altern Ther Health Med.* 1997 Jul;3(4):57-66.
Gelderloos P, Walton KG, Orme-Johnson DW, Alexander CN. Effectiveness of the Transcendental Meditation program in preventing and treating substance misuse: a review. *Int J Addict.* 1991 Mar;26(3):293-325.
Raina, N., Chakraborty, PK, Basit, MA et al (2001)- Evaluation of yoga therapy in alcohol dependence. *Indian Journal of Psychiatry*, 43, 171-174

• Anxiety

Bernhard, J., Kristeller, J. and Kabat-Zinn, J. Effectiveness of relaxation and visualization techniques as a adjunct to phototherapy and photochemotherapy of psoriasis. *J. Am. Acad. Dermatol.* (1988) 19:572-73.
McCaul, K.D., Solomon, S. and Holmes, D.S. (1979) Effects of paced respiration and expectation on the physiological and psychological responses to threat. *J. Pers. Soc. Psychol.*, 37:564-571.
Cappo, B.M. And Holmes, D.S. (1984) The utility of prolonged respiratory exhalation for reducing physiological and psychological arousal in non-threatening and threatening situations. *J. Psychosomat. Res.*, 28:265-273.
Clark, D.M., Salkovskis, P.M. And Chalkley, A.J. (1985) Respiratory control as a treatment for panic attacks. *J. Behavo. Ther. Exper. Psychiat.*, 16:22-30.
Javnbakht M, Hejazi Kenari R, Ghasemi M. Effects of yoga on depression and anxiety of women. *Complement Ther Clin Pract.* 2009 May;15(2):102-4.
Vahia NS, Doongaji DR, Jeste DV, et al. Further experience with the therapy based upon concepts of Patanjali in the treatment of psychiatric disorders. *Indian J Psychiatry* 1973;15:32-7.
Vahia NS, Doongaji DR, Jeste DV, Ravindranath S, Kapoor SN, Ardhapurkar I. Psychophysiologic therapy based on the concepts of Patanjali. A new approach to the treatment of neurotic and psychosomatic disorders. *Am J Psychother.* 1973 Oct;27(4):557-65
Harrigan, J. M. A component analysis of yoga: The effects of diaphragmatic breathing and stretching postures on anxiety, personality and somatic/behavioral complaints. *Dissertation Abstracts International*, 1981, 42(4-A):1489.
Platania-Solazzo A, Field TM, Blank J, Seligman F, Kuhn C, Schanberg S, Saab P. Relaxation therapy reduces anxiety in child and adolescent psychiatric patients. *Acta Paedopsychiatr* 1992;55(2):115-20
Michalsen A, Grossman P, Acil A, Langhorst J, Ludtke R, Esch T, Stefano GB, Dobos GJ. Rapid stress reduction and anxiolysis among distressed women as a consequence of a three-month intensive yoga program. *Med Sci Monit.* 2005 Dec;11(12):CR555-561.
Kabat-Zinn, J., Massion, A. O., Kristeller, J., Peterson, L.G., Fletcher, K., Pbert, L., Linderking, W., Santorelli, S. F., Effectiveness of a meditation-based stress reduction program in the treatment of anxiety disorders. *Am. J. Psychiatry* (1992) 149:936-943.
J., Fletcher, K. and Kabat-Zinn, J., Three-year follow-up and clinical implications of a mindfulness-based stress reduction intervention in the treatment of anxiety disorders. *Gen. Hosp. Psychiatry* (1995) 17:192-200.
Kabat-Zinn, J., Chapman, A. and Salmon, P., The relationship of cognitive and somatic components of anxiety to patient preference for alternative relaxation techniques. *Mind/Body Medicine* (1997) 2:101-109.
Streeter CC, Whitfield TH, Owen L, Rein T, Karri SK, Yakhkind A, Perlmutter R, Prescott A, Renshaw PF, Ciraulo DA, Jensen JE. Effects of yoga versus walking on mood, anxiety, and brain GABA levels: a randomized controlled MRS study. *J Altern Complement Med.* 2010 Nov;16(11):1145-52. Epub 2010 Aug 19

• Asthma

Bhole MV. Treatment of bronchial asthma by yogic methods: A report. *Yoga-Mimamsa*, Jan 1967, 9 (3):33-41.
Bhagwat JM, Soman AM, Bhole MV. Yogic treatment of bronchial asthma: A medical report. *Yoga-Mimamsa*, Oct 1981, 20(3):1-12.
Singh V, Wisniewski A, Britton J, Tattersfield A. Effect of yoga breathing exercises (pranayama) on airway reactivity in subjects with asthma. *Lancet.* 1990 Jun 9;335(8702):1381-3.

Jain SC, Talukdar B. Evaluation of yoga therapy programme for patients of bronchial asthma. Singapore Med J. 1993 Aug;34(4):306-8.

Nagarathna R, Nagendra HR. Yoga for bronchial asthma: a controlled study. Br Med J. 1985 Oct 19;291(6502):1077-9.

Nagendra HR, Nagarathna R. An integrated approach of yoga therapy for bronchial asthma: a 3-54-month prospective study. J Asthma. 1986;23(3):123-37.

Sabina AB, Williams AL, Wall HK, Bansal S, Chupp G, Katz DL. Yoga intervention for adults with mild-to-moderate asthma: a pilot study. Ann Allergy Asthma Immunol. 2005 May;94(5):543-8.

Vedanthan PK, Kesavalu LN, Murthy KC, Duvall K, Hall MJ, Baker S, Nagarathna S. Clinical study of yoga techniques in university students with asthma: a controlled study. Allergy Asthma Proc. 1998 Jan-Feb;19(1):3-9.

Sodhi C, Singh S, Dandona PK. A study of the effect of yoga training on pulmonary functions in patients with bronchial asthma. Indian J Physiol Pharmacol. 2009 Apr-Jun;53(2):169-74.

- **Attention Deficit Hyperactivity Disorder (ADHD)**

Jensen PS, Kenny DT. The effects of yoga on the attention and behavior of boys with Attention-Deficit/ hyperactivity Disorder (ADHD). J Atten Disord. 2004 May;7(4):205-16.

- **Autism**

Radhakrishna S. Application of integrated yoga therapy to increase imitation skills in children with autism spectrum disorder. Int J Yoga. 2010 Jan;3(1):26-30.

- **Back Pain**

Kabat-Zinn J, Lipworth L, Burney R. The clinical use of mindfulness meditation for the self-regulation of chronic pain. J Behav Med. 1985 Jun;8(2):163-90.

Tekur P, Singphow C, Nagendra HR, Raghuram N. Effect of short-term intensive yoga program on pain, functional disability and spinal flexibility in chronic low back pain: a randomized control study. J Altern Complement Med. 2008 Jul;14(6):637-44.

Galantino ML, Bzdewka TM, Eissler-Russo J, et al. The impact of modified Hatha yoga on chronic low back pain: a pilot study. Altern Ther Health Med 2004; 10:56-58.

Williams K, Steinberg L, Petronis J. Therapeutic application of Iyengar yoga for healing chronic low back pain. International Journal of Yoga Therapy. 2003;13:55-67.

Williams KA, Petronis J, Smith D, Goodrich D, Wu J, Ravi N, Doyle EJ Jr, Gregory Juckett R, Munoz Kolar M, Gross R, Steinberg L. Effect of Iyengar yoga therapy for chronic low back pain. Pain. 2005 May;115(1-2):107-17.

Sherman KJ, Cherkin DC, Erro J, Miglioretti DL, Deyo RA. Comparing yoga, exercise, and a self-care book for chronic low back pain: a randomized, controlled trial. Ann Intern Med. 2005 Dec 20;143(12):849-56.

Groessler EJ, Weingart KR, Aschbacher K, Pada L, Baxi S. Yoga for veterans with chronic low-back pain. J Altern Complement Med. 2008 Nov;14(9):1123-9.

Saper RB, Sherman KJ, Cullum-Dugan D, Davis RB, Phillips RS, Culpepper L. Yoga for chronic low back pain in a predominantly minority population: a pilot randomized controlled trial. Altern Ther Health Med. 2009 Nov-Dec;15(6):18-27.

Cox H, Tilbrook H, Aplin J, Semlyen A, Torgerson D, Trehwela A, Watt I. A randomised controlled trial of yoga for the treatment of chronic low back pain: results of a pilot study. Complement Ther Clin Pract. 2010 Nov;16(4):187-93. Epub 2010 Jun 12.

- **Balance Problems**

Hart CE, Tracy BL. Yoga as steadiness training: effects on motor variability in young adults. J Strength Cond Res. 2008 Sep;22(5):1659-69.

Brown KD, Koziol JA, Lotz M. A yoga-based exercise program to reduce the risk of falls in seniors: a pilot and feasibility study. J Altern Complement Med. 2008 Jun;14(5):454-7.

Tüzün S, Aktas I, Akarirmak U, Sipahi S, Tüzün F. Yoga might be an alternative training for the quality of life and balance in postmenopausal osteoporosis. Eur J Phys Rehabil Med. 2010 Mar;46(1):69-72.

Schmid AA, Van Puymbroeck M, Koceja DM. Effect of a 12-week yoga intervention on fear of falling and balance in older adults: a pilot study. Arch Phys Med Rehabil. 2010 Apr;91(4):576-83.

Ulger O, Yağlı NV. Effects of yoga on balance and gait properties in women with musculoskeletal problems: A pilot study. Complement Ther Clin Pract. 2011 Feb;17(1):13-5. Epub 2010 Jul 15.

- **Cancer**

- Culos-Reed, S, Carlson, LE, et al, Discovering the physical and psychological benefits of yoga for cancer survivors, *International Journal of Yoga Therapy*, 2004 (14), 45-52.
- Cohen L, Warneke C, et al. Psychological adjustment and sleep quality in a randomized trial of the effects of a Tibetan yoga intervention in patients with lymphoma. *Cancer*. 2004 May 15;100(10):2253-60.
- Rao MR, Raghuram N, Nagendra HR, Gopinath KS, Srinath BS, Diwakar RB, Patil S, Bilimagga SR, Rao N, Varambally S. Anxiolytic effects of a yoga program in early breast cancer patients undergoing conventional treatment: a randomized controlled trial. *Complement Ther Med*. 2009 Jan;17(1):1-8. Epub 2008 Oct 14.
- Moadel AB, Shah C, Wylie-Rosett J, Harris MS, Patel SR, Hall CB, Sparano JA. Randomized controlled trial of yoga among a multiethnic sample of breast cancer patients: effects on quality of life. *J Clin Oncol*. 2007 Oct 1;25(28):4387-95.
- Danhauer SC, Mihalko SL, Russell GB, Campbell CR, Felder L, Daley K, Levine EA. Restorative yoga for women with breast cancer: findings from a randomized pilot study. *Psychooncology*. 2009 Apr;18(4):360-8.
- Raghavendra RM, Vadiraja HS, Nagarathna R, Nagendra HR, Rekha M, Vanitha N, Gopinath KS, Srinath BS, Vishweshwara MS, Madhavi YS, Ajaikumar BS, Ramesh BS, Nalini R, Kumar V. Effects of a yoga program on cortisol rhythm and mood states in early breast cancer patients undergoing adjuvant radiotherapy: a randomized controlled trial. *Integr Cancer Ther*. 2009 Mar;8(1):37-46.
- Duncan MD, Leis A, Taylor-Brown JW. Impact and outcomes of an iyengar yoga program in a cancer centre. *Curr Oncol*. 2008 Aug;15 Suppl 2:s109.es72-8.
- Specia M, Carlson LE, Goodey E, Angen M, A randomized, wait-list controlled clinical trial: the effect of a mindfulness meditation-based stress reduction program on mood and symptoms of stress in cancer outpatients. *Psychosom Med* 2000 Sep-Oct;62(5):613-22.
- Walker LG, Walker MB, et al. guided imagery and relaxation therapy can modify host defences in women receiving treatment for locally advanced breast cancer. *Br J Surg* 1997 ;84(1S):31.
- Ulger O, Yağlı NV. Effects of yoga on the quality of life in cancer patients. *Complement Ther Clin Pract*. 2010 May;16(2):60-3.
- Vadiraja HS, Rao MR, Nagarathna R, Nagendra HR, Rekha M, Vanitha N, Gopinath KS, Srinath BS, Vishweshwara MS, Madhavi YS, Ajaikumar BS, Bilimagga SR, Rao N. Effects of yoga program on quality of life and affect in early breast cancer patients undergoing adjuvant radiotherapy: a randomized controlled trial. *Complement Ther Med*. 2009 Oct-Dec;17(5-6):274-80.
- Chandwani KD, Thornton B, Perkins GH, Arun B, Raghuram NV, Nagendra HR, Wei Q, Cohen L. Yoga improves quality of life and benefit finding in women undergoing radiotherapy for breast cancer. *J Soc Integr Oncol*. 2010 Spring;8(2):43-55.
- Speed-Andrews AE, Stevinson C, Belanger LJ, Mirus JJ, Courneya KS. Pilot evaluation of an Iyengar yoga program for breast cancer survivors. *Cancer Nurs*. 2010 Sep-Oct;33(5):369-81.

- **Carpal Tunnel Syndrome**

Garfinkel MS, Singhal A, Katz WA, Allan DA, Reshetar R, Schumacher HR Jr. Yoga based intervention for carpal tunnel syndrome: a randomized trial. *JAMA*. 1998 Nov 11;280(18):1601-3.

- **Chronic Obstructive Pulmonary Disease (e.g. Emphysema)**

- Tandon MK. Adjunct treatment with yoga in chronic severe airways obstruction. *Thorax*. 1978 Aug;33(4):514-7.
- Kulpati DD, Kamath RK, Chauhan MR. The influence of physical conditioning by yogasanas and breathing exercises in patients of chronic obstructive lung disease. *J Assoc Physicians India*. 1982 Dec;30(12):865-8.
- Pomodori L, Campigotto F, Amatya TM, Bernardi L, Cogo A. Efficacy and tolerability of yoga breathing in patients with chronic obstructive pulmonary disease: a pilot study. *J Cardiopulm Rehabil Prev*. 2009 Mar-Apr;29(2):133-7.
- Donesky-Cuenco D, Nguyen HQ, Paul S, Carrieri-Kohlman V. Yoga therapy decreases dyspnea-related distress and improves functional performance in people with chronic obstructive pulmonary disease: a pilot study. *J Altern Complement Med*. 2009 Mar;15(3):225-34.
- Behera D. Yoga therapy in chronic bronchitis. *J Assoc Physicians India*. 1998 Feb;46(2):207-8.
- Fulambarker A, Farooki B, Kheir F, Copur AS, Srinivasan L, Schultz S. Effect of Yoga in Chronic Obstructive Pulmonary Disease. *Am J Ther*. 2010 Oct 22. [Epub ahead of print]

- **Congestive Heart Failure**

Bernardi L, Spadacini G, Bellwon J, Hajric R, Roskamm H, Frey AW. Effect of breathing rate on oxygen saturation and exercise performance in chronic heart failure. *Lancet*. 1998 May 2;351(9112):1308-11.

Pullen PR, Nagamia SH, Mehta PK, Thompson WR, Benardot D, Hammoud R, Parrott JM, Sola S, Khan BV. Effects of yoga on inflammation and exercise capacity in patients with chronic heart failure. *J Card Fail.* 2008 Jun;14(5):407-13.
Pullen PR, Thompson WR, Benardot D, Brandon LJ, Mehta PK, Rifai L, Vadnais DS, Parrott JM, Khan BV. The Benefits of Yoga for African American Heart Failure Patients. *Med Sci Sports Exerc.* 2009 Nov 27. [Epub ahead of print]

- **Depression**

Khumar SS, Kaur P, Kaur S. Effectiveness of shavasana on depression among university students. *Indian J Clin Psychol* 1993; 20: 82-87.
Woolery A, Myers H, Sternlieb B, Zeltzer L. A yoga intervention for young adults with elevated symptoms of depression. *Altern Ther Health Med.* 2004 Mar Apr;10(2):60-3
Shapiro D, Cook IA, Davydov DM, Ottaviani C, Leuchter AF, Abrams M. Yoga as a Complementary Treatment of Depression: Effects of Traits and Moods on Treatment Outcome. *Evid Based Complement Alternat Med.* 2007 Dec;4(4):493-502.
Miller JJ, Fletcher K, Kabat-Zinn J. Three-year follow-up and clinical implications of a mindfulness meditation-based stress reduction intervention in the treatment of anxiety disorders. *Gen Hosp Psychiatry.* 1995 May;17(3):192-200.
Butler LD, Waelde LC, Hastings TA, Chen XH, Symons B, Marshall J, Kaufman A, Nagy TF, Blasey CM, Seibert EO, Spiegel D. Meditation with yoga, group therapy with hypnosis, and psychoeducation for long-term depressed mood: a randomized pilot trial. *J Clin Psychol.* 2008 Jul;64(7):806-20.
Davidson RJ, Kabat-Zinn J, Schumacher J, Rosenkranz M, Muller D, Santorelli SF, Urbanowski F, Harrington A, Bonus K, Sheridan JF. Alterations in brain and immune function produced by mindfulness meditation. *Psychosom Med.* 2003 Jul-Aug;65(4):564-70.
Uebelacker LA, Tremont G, Epstein-Lubow G, Gaudiano BA, Gillette T, Kalibatseva Z, Miller IW. Open trial of Vinyasa yoga for persistently depressed individuals: evidence of feasibility and acceptability. *Behav Modif.* 2010 May;34(3):247-64
Chen KM, Chen MH, Lin MH, Fan JT, Lin HS, Li CH. Effects of yoga on sleep quality and depression in elders in assisted living facilities. *J Nurs Res.* 2010 Mar;18(1):53-61.
Streeter CC, Whitfield TH, Owen L, Rein T, Karri SK, Yakhkind A, Perlmutter R, Prescott A, Renshaw PF, Ciraulo DA, Jensen JE. Effects of yoga versus walking on mood, anxiety, and brain GABA levels: a randomized controlled MRS study. *J Altern Complement Med.* 2010 Nov;16(11):1145-52. Epub 2010 Aug 19

- **Diabetes**

Shembekar, AG and Kate, SK. Yoga exercises in the management of diabetes mellitus. *Journal of the Diabetes Association of India,* 1980 (20) 167-171.
Jain SC, Uppal A, Bhatnagar SO, Talukdar B. A study of response pattern of non insulin dependent diabetics to yoga therapy. *Diabetes Res Clin Pract.* 1993 Jan;19(1):69-74.
Monro R E, Power J, Coumar A, Nagarathna R, Dandona P 1992 Yoga Therapy for NIDDM. *Complementary Medical Research* 6: 66–88.
Singh S, Malhotra V, Singh KP, Madhu SV, Tandon OP. Role of yoga in modifying certain cardiovascular functions in type 2 diabetic patients. *Assoc Physicians India.* 2004 Mar;52:203-6.
Malhotra V, Singh S, Singh KP, Gupta P, Sharma SB, Madhu SV, Tandon OP. Study of yoga asanas in assessment of pulmonary function in NIDDM patients. *Indian J Physiol Pharmacol.* 2002 Jul;46(3):313-20.
Singh S, Malhotra V; Singh KP; Sharma SB; Madhu SV; Tandon OP. A preliminary report on the role of Yoga Asanas on oxidative stress in non-insulin dependent diabetes mellitus. *Indian Journal of Clinical Biochemistry.* 2001 Jul; 16(2): 216-20
Malhotra V, Singh S, Tandon OP, Sharma SB. The beneficial effect of yoga in diabetes. *Nepal Med Coll J.* 2005 Dec;7(2):145-7.
Malhotra V, Singh S, Tandon OP, Madhu SV, Prasad A, Sharma SB. Effect of Yoga asanas on nerve conduction in type 2 diabetes. *Indian J Physiol Pharmacol.* 2002 Jul;46(3):298-306.

- **Drug Withdrawal**

Chauhan, SKS. Role of yogic exercises in the Withdrawal [sic] Symptoms of Drug Addicts, *Yoga Mimamsa.* 1992 Jan; 30 (4): 21-23.

- **Eating Disorders**

Daubenmier, JJ. The relationship of yoga, body awareness, and body responsiveness to self-objectification and disordered eating. *Psychol of Women Q,* Vol 29 (2), June 2005, pp. 207-219.

Carei TR, Fyfe-Johnson AL, Breuner CC, Brown MA. Randomized controlled clinical trial of yoga in the treatment of eating disorders. *J Adolesc Health*. 2010 Apr;46(4):346-51.

- **Epilepsy**

Panjwani U, Selvamurthy W, Singh SH, Gupta HL, Thakur L, Rai UC. Effect of Sahaja yoga practice on seizure control & EEG changes in patients of epilepsy. *Indian J Med Res*. 1996 Mar;103:165-72.

Rajesh B, Jayachandran D, Mohandas G, Radhakrishnan K. A pilot study of a yoga meditation protocol for patients with medically refractory epilepsy. *J Altern Complement Med*. 2006 May;12(4):367-71.

Sathyaprabha TN, Satishchandra P, Pradhan C, Sinha S, Kaveri B, Thennarasu K, Murthy BT, Raju TR. Modulation of cardiac autonomic balance with adjuvant yoga therapy in patients with refractory epilepsy. *Epilepsy Behav*. 2008 Feb;12(2):245-52.

- **Fibromyalgia**

da Silva GD, Lorenzi-Filho G, Lage LV. Effects of yoga and the addition of Tui Na in patients with fibromyalgia. *J Altern Complement Med*. 2007 Dec;13(10):1107-13.

Randolph, PD, Caldera YM, Tacone AM et al. The long-term combined effects of medical treatment and a mindfulness-based behavioral program for the multidisciplinary management of chronic pain in West Texas. *Pain Digest* (1999) 9:103-112.

Kenneth H. Kaplan, M.D, Don L. Goldenberg, M.D., and Maureen Galvin Nadeau, M.S., C.S., The Impact of a Meditation-Based Stress Reduction Program on Fibromyalgia. *General Hospital Psychiatry* 15, 284-289, 1993.

Kabat-Zinn J. An outpatient program in behavioral medicine for chronic pain patients based on the practice of mindfulness meditation: theoretical considerations and preliminary results. *Gen Hosp Psychiatry*. 1982 Apr;4(1):33-47.

Schmidt S, Grossman P, Schwarzer B, Jena S, Naumann J, Walach H. Treating fibromyalgia with mindfulness-based stress reduction: Results from a 3-armed randomized controlled trial. *Pain*. 2010 Dec 10. [Epub ahead of print]

Carson JW, Carson KM, Jones KD, Bennett RM, Wright CL, Mist SD. A pilot randomized controlled trial of the Yoga of Awareness program in the management of fibromyalgia. *Pain*. 2010 Nov;151(2):530-9.

- **Heart Disease**

Friedell, A. (1948). Automatic attentive breathing in angina pectoris. *Minnesota Medicine*, 31, 875-881.

Bernardi L, Spadacini G, et al. Effect of breathing rate on oxygen saturation and exercise performance in chronic heart failure. *Lancet*. 1998 May 2;351(9112):1308-11.

Ornish DM, Scherwitz LW, Doody RS, Kesten D, McLanahan SM, Brown SE, DePuey G, Sonnemaker R, Haynes C, Lester J, McAllister GK, Hall RJ, Burdine JA, Gotto AM. Effects of stress management training and dietary changes in treating ischemic heart disease. *JAMA*. 1983;249:54-59

Ornish DM, Brown SE, Scherwitz LW, et al. Can lifestyle changes reverse coronary atherosclerosis? The Lifestyle Heart Trial. *The Lancet*. 1990; 336:129-133.

Gould KL, Ornish D, Scherwitz L, et al. Changes in myocardial perfusion abnormalities by positron emission tomography after long-term, intense risk factor modification. *JAMA*. 1995;274:894-901.

Koertge J, Weidner G, Elliott-Eller M, Scherwitz L, Merritt-Worden TA, Marlin R, Lipsenthal L, Guarneri M, Finkel R, Saunders Jr DE, McCormac P, Scheer JM, Collins RE, Ornish D. Improvement in medical risk factors and quality of life in women and men with coronary artery disease in the Multicenter Lifestyle Demonstration Project. *Am J Cardiol*. 2003 Jun 1;91(11):1316-22.

Ornish D. Avoiding revascularization with lifestyle changes: The Multicenter Lifestyle Demonstration Project. *Am J Cardiol*. 1998 Nov 26;82(10B):72T-76T.

Yogendra J, Yogendra HJ, Ambardekar S, Lele RD, Shetty S, Dave M, Husein N. Beneficial effects of yoga lifestyle on reversibility of ischaemic heart disease: caring heart project of International Board of Yoga. *J Assoc Physicians India*. 2004 Apr; 52:283-9.

Mahajan AS, Reddy KS, Sachdeva U. Lipid profile of coronary risk subjects following yogic lifestyle intervention. *Indian Heart J*. 1999 Jan-Feb;51(1):37-40.

Khare KC; Rai S. Study of lipid profile in post myocardial infarction subjects following yogic life style intervention. *Indian Practitioner*. 2002 Jun; 55(6): 369-73.

Singh RB, Singh NK, Rastogi SS, Mani UV, Niaz MA. Effects of diet and lifestyle changes on atherosclerotic risk factors after 24 weeks on the Indian Diet Heart Study. *Am J Cardiol*. 1993 Jun 1;71(15):1283-8.

- **Hemorrhoids**

Agarwal, B and Mahajan, K, presentation at Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) 2008 Annual Scientific Session and Postgraduate Course, Philadelphia.

- **High Blood Pressure**

C. H. Patel, "Yoga and bio-feedback in the management of hypertension," *Lancet*, vol. 2, no. 837, pp. 1053-5, 1973.

Patel C, "12-month follow-up of yoga and bio-feedback in the management of hypertension.", *Lancet*, v1, n7898, Jan 11 1975, pp. 62-4.

Sundar S, Agrawal S, Singh V, Bhattacharya S, Udupa K, Vaish S. Role of yoga in management of essential hypertension. *Acta Cardiol* 1984; 39: 203-8

Datey KK, Deshmukh SN, Dalvi CP, Vinekar SL. "Shavasana": A yogic exercise in the management of hypertension. *Angiology*. 1969 Jun;20(6):325-33.

Murugesan R., Govindarajulu, N., Bera, TK. Effect of selected yogic practices on the management of hypertension. *Indian Journal of Physiology & Pharmacology*. (2000). 44, 207-10.

Alexander CN, Schneider RH, et al. Trial of stress reduction for hypertension in older African Americans. II. Sex and risk subgroup analysis. *Hypertension*. 1996 Aug;28(2):228- 37.

Barnes VA, Treiber FA, Johnson MH. Impact of transcendental meditation on ambulatory blood pressure in African-American adolescents. *Am J Hypertens*. 2004 Apr;17(4):366-9.

Viskoper R, Shapira I, et al. Nonpharmacologic treatment of resistant hypertensives by Device-Guided slow breathing exercises. 2003 Jun;16(6):484-7.

- **HIV/AIDS**

Robinson FP, Mathews HL, Witek-Janusek L. Psycho-endocrine-immune response to mindfulness-based stress reduction in individuals infected with the human immunodeficiency virus: a quasiexperimental study. *J Altern Complement Med*. 2003 Oct;9(5):683-94.

- **Infertility**

Domar AD, Clapp D, Slawsby EA, Dusek J, Kessel B, Freizinger M. Impact of group psychological interventions on pregnancy rates in infertile women, by in *Fertil Steril*. 2000 Apr; 73(4): 805-11.

Distress and conception in infertile women: a complementary approach. By Domar AD, Friedman R, Zuttermeister PC in *J Am Med Womens Assoc*. 1999 Fall; 54(4): 196-8.

- **Insomnia**

Perceived benefits in a behavioral-medicine insomnia program: a clinical report, by Jacobs GD, Benson H and Friedman R in the *American Journal of Medicine*, 1996 Feb;100(2):212-6.

Khalsa SB. Treatment of chronic insomnia with yoga: a preliminary study with sleep-wake diaries. *Appl Psychophysiol Biofeedback*. 2004 Dec;29(4):269-78.

Cohen L, Warneke C, et al. Psychological adjustment and sleep quality in a randomized trial of the effects of a Tibetan yoga intervention in patients with lymphoma. *Cancer*. 2004 May 15;100(10):2253-60.

Chen KM, Chen MH, Lin MH, Fan JT, Lin HS, Li CH. Effects of yoga on sleep quality and depression in elders in assisted living facilities. *J Nurs Res*. 2010 Mar;18(1):53-61.

- **Irritable Bowel Syndrome**

Taneja I, Deepak KK, et al. Yogic versus conventional treatment in diarrhea predominant irritable bowel syndrome: a randomized control study. *Appl Psychophysiol Biofeedback*. 2004 Mar;29(1):19-33.

Keefer L, Blanchard EB. The effects of relaxation response meditation on the symptoms of irritable bowel syndrome: results of a controlled treatment study. *Behav Res Ther*. 2001 Jul;39(7):801-11.

Keefer L, Blanchard EB. A one year follow-up of relaxation response meditation as a treatment for irritable bowel syndrome. *Behav Res Ther*. 2002 May;40(5):541-6.

Kumar, Virendra. A study on the therapeutic potential of some hathayogic methods in the management of irritable bowel syndrome. *The Journal of The International Association of Yoga Therapists*, 1992, no. 3, pp. 25-38.

- **Kidney Failure**

Yurtkuran M, Alp A, Yurtkuran M, Dilek K. A modified yoga-based exercise program in hemodialysis patients: a randomized controlled study. *Complement Ther Med*. 2007 Sep;15(3):164-71.
Telles S, Balkrishna A. Yoga and diet change influence renal functions in the obese. *Med Sci Monit*. 2010 Oct 1;16(10):LE15.

- **Mental Developmental Impairment**

Uma K, Nagendra HR, Nagarathna R, Vaidehi S, Seethalakshmi R. The integrated approach of yoga: a therapeutic tool for mentally retarded children: a one-year controlled study. *J Ment Defic Res*. 1989 Oct;33 (Pt 5):415-21.

- **Menopausal (and Perimenopausal) Symptoms**

Irvin JH, Domar AD, Clark C, Zuttermeister PC, Friedman R. The effects of relaxation response training on menopausal symptoms. *J Psychosom Obstet Gynaecol*. 1996;17:202- 7.

Freedman RR, Woodward S. Behavioral treatment of menopausal hot flushes: evaluation by ambulatory monitoring. *Am J Obstet Gynecol*. 1992;167:436-9.

Carson JW, Carson KM, Porter LS, Keefe FJ, Seewaldt VL. Yoga of Awareness program for menopausal symptoms in breast cancer survivors: results from a randomized trial. *Support Care Cancer*. 2009 Feb 12.

Chattha R, Nagarathna R, Padmalatha V, Nagendra HR. Effect of yoga on cognitive functions in climacteric syndrome: a randomised control study. *BJOG*. 2008 Jul;115(8):991-1000.

Chattha R, Raghuram N, Venkatram P, Hongasandra NR. Treating the climacteric symptoms in Indian women with an integrated approach to yoga therapy: a randomized control study. *Menopause*. 2008 Sep-Oct;15(5):862-70.

Booth-LaForce C, Thurston RC, Taylor MR. A pilot study of a Hatha yoga treatment for menopausal symptoms. *Maturitas*. 2007 Jul 20;57(3):286-95.

- **Migraine and Tension Headaches**

John PJ, Sharma N, Sharma CM, Kankane A. Effectiveness of yoga therapy in the treatment of migraine without aura: a randomized controlled trial. *Headache*. 2007 May;47(5):654-61.

Kabat-Zinn J. An outpatient program in behavioral medicine for chronic pain patients based on the practice of mindfulness meditation: theoretical considerations and preliminary results. *Gen Hosp Psychiatry*. 1982 Apr;4(1):33-47.

Latha S & KV Kaliappan. Efficacy of yoga therapy in the management of headaches. *Journal of Indian Psychology*, 1992, Vol.10, Nos.1& 2 p. 41-47

Prabhakar, S.; Verma, S.K.; Grover, P.; Chopra, J.S. Role of Yoga in the treatment of Psychogenic Headache. *Neurology India* 1991 Jan; 39(1): 11-8

- **Multiple Sclerosis**

Oken BS, Kishiyama S, Zajdel D, Bourdette D, Carlsen J, Haas M, Hugos C, Kraemer DF, Lawrence J, Mass M. Randomized controlled trial of yoga and exercise in multiple sclerosis. *Neurology*. 2004 Jun 8;62(11):2058-64.

- **Neck Pain**

Yogitha B, Nagarathna R, John E, Nagendra H. Complimentary effect of yogic sound resonance relaxation technique in patients with common neck pain. *Int J Yoga*. 2010 Jan-Jun; 3(1): 18-25. doi: 10.4103/0973-6131.66774. PMID: PMC2952120

- **Neuroses (e.g. Phobias)**

Vahia NS, Doongaji DR, Jeste DV, Kapoor SM, Ardhapurkar I and Ravindranath S: Further experience with the therapy based upon concepts of Patanjali in the treatment of psychiatric disorders. *Indian Journal of Psychiatry* 15:32-37, 1973.

- **Obesity**

Telles S, Naveen VK, Balkrishna A, Kumar S. Short term health impact of a yoga and diet change program on obesity. *Med Sci Monit*. 2010 Jan;16(1):CR35-40

- **Obsessive Compulsive Disorder (OCD)**

Shannahoff-Khalsa DS, Beckett LR. Clinical case report: efficacy of yogic techniques in the treatment of obsessive compulsive disorders. *Int J Neurosci*. 1996 Mar;85(1-2):1-17.

Shannahoff-Khalsa, DS, Ray LE, Levine, S, Gallen, CC, Schwartz, BJ, Sidorowich, JJ, Randomized Controlled Trial of Yogic Meditation Techniques for Patients with Obsessive Compulsive Disorders, *CNS Spectrums: The International Journal of Neuropsychiatric Medicine*, vol 4, no. 12, pp 34-46, 1999.

- **Osteoporosis**

Greendale GA, McDivit A, Carpenter A, Seeger L, Huang MH. Yoga for women with hyperkyphosis: results of a pilot study. *Am J Public Health*. 2002 Oct;92(10):1611-4.

Tüzün S, Aktas I, Akarirmak U, Sipahi S, Tüzün F. Yoga might be an alternative training for the quality of life and balance in postmenopausal osteoporosis. *Eur J Phys Rehabil Med*. 2010 Mar;46(1):69-72.

Fishman, LM. Yoga for osteoporosis: a pilot study. *Topics in Geriatric Rehabilitation*. 25 (3), 244–250.

Phosuwan M, Kritpet T, Yuktanandana P. The effects of weight bearing yoga training on the bone resorption markers of the postmenopausal women. *J Med Assoc Thai*. 2009 Sep;92 Suppl5:S102-8.

- **Osteoarthritis (Degenerative Arthritis)**

Garfinkel MS, Schumacher HR Jr, Husain A, Levy M, Reshetar RA. Evaluation of a yoga based regimen for treatment of osteoarthritis of the hands. *J Rheumatol*. 1994 Dec;21(12):2341-3.

Kolasinski SL, Garfinkel M, Tsai AG, Matz W, Dyke AV, Schumacher HR. Iyengar yoga for treating symptoms of osteoarthritis of the knees: a pilot study. *J Altern Complement Med*. 2005 Aug;11(4):689-93.

Kabat-Zinn J. An outpatient program in behavioral medicine for chronic pain patients based on the practice of mindfulness meditation: theoretical considerations and preliminary results. *Gen Hosp Psychiatry*. 1982 Apr;4(1):33-47.

Kabat-Zinn J, Lipworth L, Burney R. The clinical use of mindfulness meditation for the self-regulation of chronic pain. *J Behav Med*. 1985 Jun;8(2):163-90.

Sareen S, Kumari V. Yoga for rehabilitation in chronic pancreatitis. *Gut*. 2006 Jul;55(7):1051.

- **Pain (Chronic)**

Kabat-Zinn J. An outpatient program in behavioral medicine for chronic pain patients based on the practice of mindfulness meditation: theoretical considerations and preliminary results. *Gen Hosp Psychiatry*. 1982 Apr;4(1):33-47.

- **Pleural Effusion (Fluid Collection in the Lining of the Lung)**

Prakasamma M, Bhaduri A. A study of yoga as a nursing intervention in the care of patients with pleural effusion. *J Adv Nurs*. 1984 Mar;9(2):127-33.

- **Post-Heart Attack Rehabilitation**

Tulpule TH, Tulpule AT. Yoga: A method of relaxation for rehabilitation after myocardial infarction. *Indian Heart J*. 1980 Jan-Feb;32(1):1-7.

- **Post-Polio Syndrome**

DeMayo W, Singh B, Duryea B, Riley D. Hatha yoga and meditation in patients with post-polio syndrome. *Altern Ther Health Med*. 2004 Mar-Apr;10(2):24-5.

- **Post-Operative Recovery**

Tyagi I; Sharma UD; Bajaj P; Husain T; Gupta S; Lamba PS; Khan A. Evaluation of pink city lung exerciser for prevention of pulmonary complications following upper abdominal surgery. *Indian Journal of Anaesthesia*. 1991 Dec; 39(6): 198-203

- **Post-Stroke Rehabilitation**

Lynton H, Kligler B, Shiflett S. Yoga in stroke rehabilitation: a systematic review and results of a pilot study. *Top Stroke Rehabil*. 2007 Jul-Aug;14(4):1-8. Review. PubMed PMID: 17698453.

- **Post-Traumatic Stress Disorder (PTSD)**

Telles S, Singh N, Joshi M, Balkrishna A. Post traumatic stress symptoms and heart rate variability in Bihar flood survivors following yoga: a randomized controlled study. *BMC Psychiatry*. 2010 Mar 2;10:18.

Telles S, Singh N, Joshi M. Risk of posttraumatic stress disorder and depression in survivors of the floods in Bihar, India. *Indian J Med Sci*. 2009 Aug;63(8):330-4.

PMID: 19770523 [PubMed - indexed for MEDLINE]Free Article

Descilo T, Vedamurthachar A, Gerbarg PL, Nagaraja D, Gangadhar BN, Damodaran B, Adelson B, Braslow LH, Marcus S,

Brown RP. Effects of a yoga breath intervention alone and in combination with an exposure therapy for post-traumatic stress disorder and depression in survivors of the 2004 South-East Asia tsunami. *Acta Psychiatr Scand.* 2010 Apr;121(4):289-300. Epub 2009 Aug 19.

- **Pregnancy (Both Normal and Complicated)**

Narendran S, Nagarathna R, Narendran V, Gunasheela S, Nagendra HR. Efficacy of yoga on pregnancy outcome. *J Altern Complement Med.* 2005 Apr;11(2):237-44.

Narendran S, Nagarathna R, Gunasheela S, Nagendra HR. Efficacy of yoga in pregnant women with abnormal Doppler study of umbilical and uterine arteries. *J Indian Med Assoc.* 2005 Jan;103(1):12-4, 16-7.

Sun YC, Hung YC, Chang Y, Kuo SC. Effects of a prenatal yoga programme on the discomforts of pregnancy and maternal childbirth self-efficacy in Taiwan. *Midwifery.* 2009 Feb 24.

Chuntharapat S, Petpichetchian W, Hatthakit U. Yoga during pregnancy: effects on maternal comfort, labor pain and birth outcomes. *Complement Ther Clin Pract.* 2008 May;14(2):105-15.

Satyapriya M, Nagendra HR, Nagarathna R, Padmalatha V. Effect of integrated yoga on stress and heart rate variability in pregnant women. *Int J Gynaecol Obstet.* 2009 Mar;104(3):218-22.

Beddoe AE, Lee KA, Weiss SJ, Kennedy HP, Yang CP. Effects of mindful yoga on sleep in pregnant women: a pilot study. *Biol Res Nurs.* 2010 Apr;11(4):363-70.

- **Psoriasis**

Bernhard, J., Kristeller, J. and Kabat-Zinn, J. Effectiveness of relaxation and visualization techniques as a adjunct to phototherapy and photochemotherapy of psoriasis. *J. Am. Acad. Dermatol.* (1988) 19:572-73.

- **Rheumatoid Arthritis**

Badsha H, Chhabra V, Leibman C, Mofti A, Kong KO. The benefits of yoga for rheumatoid arthritis: results of a preliminary, structured 8-week program. *Rheumatol Int.* 2009 Jan 31.

'Measuring the Effects of Yoga in Rheumatoid Arthritis' by I Haslock, R Monro, R Nagarathna, HR Nagendra and NV Raghuram in *British Journal of Rheumatology* 1994, August, 33(8): 787-8

Dash M, Telles S. Improvement in hand grip strength in normal volunteers and rheumatoid arthritis patients following yoga training. *Indian J Physiol Pharmacol.* 2001 Jul;45(3):355-60.

Evans S, Moieni M, Taub R, Subramanian SK, Tsao JC, Sternlieb B, Zeltzer LK. Iyengar yoga for young adults with rheumatoid arthritis: results from a mixed-methods pilot study. *J Pain Symptom Manage.* 2010 May;39(5):904-13.

Kabat-Zinn J. An outpatient program in behavioral medicine for chronic pain patients based on the practice of mindfulness meditation: theoretical considerations and preliminary results. *Gen Hosp Psychiatry.* 1982 Apr;4(1):33-47.

Kabat-Zinn J, Lipworth L, Burney R. The clinical use of mindfulness meditation for the self-regulation of chronic pain. *J Behav Med.* 1985 Jun;8(2):163-90.

- **Rhinitis (Inflammation of the Nose)**

Sim MK. Treatment of disease without the use of drugs. VI. Treatment of rhinitis by a yogic process of cleaning and rubbing the nasal passage with a rubber catheter. *Singapore Med J.* 1981 Jun;22(3):121-3.

- **Schizophrenia**

Duraiswamy G, Thirhalli J, Nagendra HR, Gangadhar BN. Yoga therapy as an add-on treatment in the management of patients with schizophrenia—a randomized controlled trial. *Acta Psychiatr Scand.* 2007 Sep;116(3):226-32.

Gangadhar, BN, Ganesan D, Jagadisha, Nagendra HR. Yoga therapy in the treatment of schizophrenia. Presented at the 15th International Conference of Frontiers in Yoga Research and Its Applications, December 16-19, 2005, Bangalore, India.

Behere RV, Arasappa R, Jagannathan A, Varambally S, Venkatasubramanian G, Thirhalli J, Subbakrishna DK, Nagendra HR, Gangadhar BN. Effect of yoga therapy on facial emotion recognition deficits, symptoms and functioning in patients with schizophrenia. *Acta Psychiatr Scand.* 2010 Sep 16.

Vancampfort D, De Hert M, Knapen J, Wampers M, Demunter H, Deckx S, Maurissen K, Probst M. State anxiety, psychological stress and positive well-being responses to yoga and aerobic exercise in people with schizophrenia: a pilot study. *Disabil Rehabil.* 2010 Aug 18

- **Scoliosis (Curvature of the Spine)**

Zaba R. [Effect of intensive movement rehabilitation and breathing exercise on respiratory parameters in children with idiopathic stage-I scoliosis] *Przegl Lek.* 2003;60 Suppl 6:73-5. (In Polish)

- **Sexual Function**

Dhikav V, Karmarkar G, Gupta M, Anand KS. Yoga in premature ejaculation: a Dhikav V, Karmarkar G, Verma M, Gupta R, Gupta S, Mittal D, Anand K. Yoga in Male Sexual Functioning: A Noncomparative Pilot Study. J Sex Med. 2010 Jul 14. Dhikav V, Karmarkar G, Gupta R, Verma M, Gupta R, Gupta S, Anand KS. Yoga in female sexual functions..J Sex Med. 2010 Feb;7(2 Pt 2):964-70.

Dhikav V, Karmarkar G, Verma M, Gupta R, Gupta S, Mittal D, Anand K. Yoga in male sexual functioning: a noncomparative pilot study. J Sex Med. 2010 Oct;7(10):3460-6. doi: 10.1111/j.1743-6109.2010.01930.x.

- **Sinusitis**

Rabago D, Zgierska A, Mundt M, Barrett B, Bobula J, Maberry R. Efficacy of daily hypertonic saline nasal irrigation among patients with sinusitis: a randomized controlled trial. J Fam Pract 2002;51:1049-55.

- **Tuberculosis**

Visweswaraiiah NK, Telles S. Randomized trial of yoga as a complementary therapy for pulmonary tuberculosis. Respirology. 2004 Mar;9(1):96-101.

Prakasamma M, Bhaduri A. A study of yoga as a nursing intervention in the care of patients with pleural effusion. J Adv Nurs. 1984 Mar;9(2):127-33.

- **Urinary Stress Incontinence**

Milani, R, Valli, G, Bhole, MV. Yoga-eutonia in Genuine Stress Incontinence an exploratory study, Yoga Mimamsa. 1992 Jan; 30 (4): 10-20.