

WHAT YOU haven't heard ABOUT HOW

YOGA REDUCES PAIN

NEW RESEARCH AND A RISE IN THE PRACTICE OF YOGA AS A HEALING THERAPY HAVE LED TO NEW YOGA SPECIALTIES SUCH AS YOGA FOR VETERANS, YOGA FOR TRAUMA AND YOGA FOR AMPUTEES.* YOGA, AN ANCIENT MIND/BODY PRACTICE ORIGINATING IN INDIA, ENABLES A PERSON IN PAIN TO SHIFT FOCUS, RESTRUCTURE INGRAINED RESPONSES, RESTORE FLEXIBILITY AND INCREASE BREATH CAPACITY—ALL OF WHICH CAN IMPROVE ONE'S LIFE EXPERIENCE.

Hatha yoga, from which all modern yoga is derived, is a combination of yoga postures and breathing exercises, designed to promote stillness and awareness, helping a person connect to life's larger experience and remove limiting thoughts and sensations.

Included in the traditional practice of Hatha yoga are moral precepts for ethical living and self-care. Three of these precepts (compassion, non-grasping and non-stealing of time) are often overlooked in modern yoga practices but are critical to managing chronic pain.

Compassion is the foundation for all yoga practice. When someone in pain practices compassion for themselves, their body unwinds so they have more capacity to be present with their situation.

NON-grasping is a practice of non-attachment to outcome. When a person clings to a belief about pain, a symptom of pain or an outcome of pain, they create more pain. By focusing on present-moment needs, the body relaxes.

Non-stealing refers to the ability to exist in the present. Chronic pain can lead to negative emotions that can interfere with or steal contentment in the present moment. Through yoga and stillness (non-stealing of time), a person can begin to redirect thoughts and negative emotions toward helpful action, such as self-care, commitment to well-being, contentment, self-reflection and surrender to a larger purpose. Energy increases.

3 KEYS TO PAIN RELIEF: POSING, BREATHING & MEDITATING Yoga poses, or asanas, promote awareness of positive feelings in the body and allow one to observe, with a neutral mind, the places where pain resides. This can greatly diminish pain's hold on the body.

Poses open up the psoas muscle, a long muscle that extends from the back to the pelvis, and connects the sympathetic/parasymphathetic nervous system. The psoas muscle allows us to stand up, and is related to our very survival. The stress of pain retriggers the psoas to tighten, which means less freedom to breathe, more stress and more fight-or-flight response. Releasing and lengthening the psoas frees up the diaphragm, therefore increasing the parasympathetic response: tend and befriend, rather than fight or flight. When a person in pain can rest the psoas in various yoga poses, stored tension (and emotions) can relax and let go.

Breathing techniques, or pranayama, accompany yoga poses. Pranayama is breath control. The greater the breath control, the more healing energy is available to reduce pain.

Both yoga poses and breathing reduce stress, increase breathing capacity, realign the skeleton, reduce muscle tension, remove toxic buildup in the fascia, relax the brain, move lymphatic fluid, increase proprioception and relax the sympathetic nervous system, strengthening the parasymphathetic nervous system.

When in chronic pain, the body is often in a contracted state, physically and mentally, which decreases blood flow. Yoga's contraction and expansion through poses and breathing increases oxygen flow and creates homeostasis throughout the body so the person in pain is able to focus

signals that relax the body. oxygen is more complete and the brain receives chemical tion is immediate; cellular exchange and absorption of waves, which stimulates the vagus nerve. The chain reacbreathing, is unique in that it slightly constricts the airforce in the body. Nostril breathing, another form of yogs

MEDITATION: THE BRAIN ON YOCA

— Ooh, I want move of that. The reverse is also true. and body. When the brain labels something "good" it says sion and craving are sealed into the chemistry of the brain tion as positive, negative or neutral. That means that aver-Within a tenth of a second, the brain labels a new sensa-

and backward continuum, as if the event which has not result, such as pain, can create a loop, a time-space forward real or imagined. The chronic expectation of a particular brain can exaggerate an experience, especially fear, whether When the brain is hyper-aroused, noraepinephrine in the

> pain loops (pain pathways). understanding of one's pain triggers and the body's natural yoga is required. Also important is the recognition and

HAPPENS THERE CHANGES THE BODY SECRETS OF VAGUS: HOW WHAT

the mind-body connection. motor parasympathetic nerves, the vagus nerve provides alignment and colon health. Supporting the sensory/ digestive issues, heart rate, sweating, spinal issues, skeletal parasympathetic nervous system, can improve depression, feelings." Stimulating the vagus nerve, a feeder of the vagus nerve, the body's great regulator and source of "gur Deep, diaphragmatic breath physically strengthens the

enlarged airway (open throat) and increased lung space the brain stem) and stimulates the respiratory system. The during yoga, triggers the medulla (the lower portion of Opening the throat and breathing deeply, which happens

ABOUT THE AUTHOF & YOGA FOR AMPUTEES

sarcoma. She is also the author of Fierce Joy, a memoir about choosing joy. by Marsha Therese Danzig, M.Ed Harvard, a below-knee amputee who lost her leg in 1976 to Ewing's active and less-active amputees to experience the health and wellness benefits of yoga, was founded There are over 2.5 million amputees in the United States. Yoga for Amputees (Y4A), a program for

or without a prosthesis. relief, phantom pain, stress reduction, PTSD, grief over limb loss, body alignment, balance and life with Featured in O Magazine and Yoga Journal YAA addresses the special needs of amputees such as pain

sultations. For more information, visit www.YogaforAmputees.com. decades, offers workshops, online private yoga classes, motivational seminars and life-coaching conthe Kripalu Center in the United States. She has taught yoga and trained others for almost two Danzig's education includes certification from La Sorbonne in Paris, Goethe Institute in Germany and

-SOULCES-

- http://rick.evertsz.name/731_kriyas/yoga_breathing_a_talk_by_dr.html. February 23, 2005, UMASS-Amherst. 4. Brown, Richard. "Yoga Breathing: A Talk by Dr. Richard Brown."
- 6. Khalsa, Sat Bir. "Your Brain on Yoga." Harvard Medical School Guides, 5. Feurstein, Georg. The Yoga Tradition. Hohm Press, 1998.
- December 2012.
- 8. McCall, Timothy. "Yoga for Chronic Pain." Yoga Journal online. 7. Koch, Liz. The Psoas Book. Guinea Pig Publications (1997-05-01).
- http://www.yogsjournal.com/for_teachers/2551.
- Psychology Today online, June 3, 2011. 1. Beilock, Sian, PhD. "How Mindfulness Meditation Alters the Brain."
- the-athletes-way/201306/how-does-meditation-reduce-anxiety-neural-level. Psychology Today online, June 7, 2013. http://www.psychologytoday.com/blog/ 2. Berglund, Christopher. "How Does Meditation Reduce Anxiety at a Neural Level?" http://www.psychologytoday.com/blog/choke/201106/how-mindtulness-meditation-alters-the-brain.
- the-athletes-way/201403/is-impaired-neuroplasticity-linked-chronic-pain. Psychology Today online, March 13, 2013. http://www.psychologytoday.com/blog/ 3. Berglund, Christopher. Is Impaired Neuroplasticity Linked to Chronic Pain?"
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happened has already happened. Stress inhibits information to the prefrontal cortex, and the reptilian brain takes over. The system becomes rigid, and chaos ensues.

Through yoga, a person in pain can strengthen the prefrontal cortex, the bridge between emotion and action. In addition, yoga and meditation tap into the insula, the brain's innermost area, where the "happy place" lies. The prefrontal lobe and the insula are tightly joined to monitor the activities of the brain and the entire body system.

Research shows that meditation increases the size of the insula, therefore increasing resilience to pain and reducing reactivity to pain. When faced with triggers that formerly caused stress reactions, research indicates people in pain can better handle those triggers because brain cells associated with emotion and cognitive awareness are thickened.

Long-term yoga and meditation practices can have lasting positive impact on a person's life. [PP]



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