

Knowledge in Motion SCI Education Series

Complementary & Integrative Healthcare (CIH) for People with Spinal Cord Injury



Jennifer Coker, MPH

Rocky Mountain Regional SCI Center Model System Craig Hospital, Denver, CO







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Craig Hospital





Presentation Objectives

- Learn about the many types of CIH options that are potentially helpful for people with SCI.
- Learn about previous and current clinical trials involving CIH and people with SCI.
- Learn how to critically evaluate the potential usefulness of CIH for your own situations and health needs, and how to approach your medical providers if you're interested in trying CIH.











What is Complementary and Integrative Healthcare (CIH)?

- Resource: National Center for Complementary and Integrative Health (NCCIH)
 - https://nccih.nih.gov/
- CIH includes
 - Complementary medicine

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· Alternative medicine

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- Integrative medicine
- Two groups of CIH approaches: Products & Practices



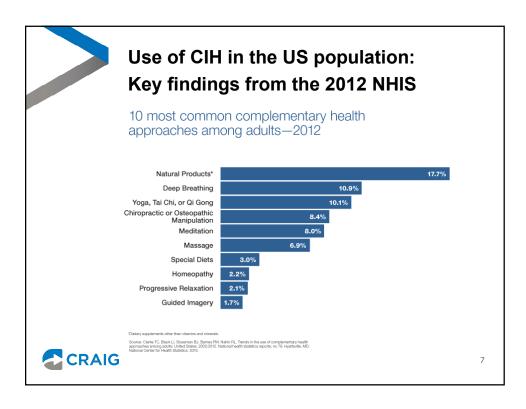
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Natural PRODUCTS		PRACTICES	
Cannabis, cannabinoids Herbs, multi-herbs: 5-HTP Acai Bee pollen Chondroitin Co-enzyme Q10 Cordyceps Cranberry Creatine Digestive enzymes Echinacea Fish Oil/omega 3/fatty acids Garcinia Cambogia Garlic supplements Ginkgo Biloba Vitamins, multivitamins: Vitamin A Vitamin B Vitamin C Vitamin D Vitamin E Vitamin H Vitamin H Vitamin K Folic acid	Mineral, multi-minerals: Calcium Chloride Chromium Copper Fluoride Iodine Iron Magnesium Manganese Potassium Selenium Zinc Probiotics	Acupressure Acupuncture Aromatherapy, Essential oils Astrology Auricular therapy Ayurveda Binaural beats Biofeedback Botox Chelation therapy Chiropractic Colon therapy, colonics Craniosacral therapy Cupping Diets, special Dry needling Ear candling Electromagnetic therapy Energy healing therapy Fasting Feng shui Guided imagery, visualization Heat therapy Heliotherapy Homeopathy Hydrotherapy Hydrotherapy Hydrotherapy Hypnosis	Magnetotherapy Manual Therapy Massage Meditation Mind-body therapy Movement and exercise techniques Music therapy Naturopathy Osteopathic Manipulation Prayer therapy, affirmative prayer Prolotherapy Qi Gong Reiki Reflexology Relaxation therapy Rolfing Shiatsu Sound therapy Tai chi Transcutaneous electrical nerve stimulation Traditional/Folk healing Ultrasound therapy Yoga









Key Findings: Utilization

- 33.2% of U.S. adults used complementary health approaches
- 17.7% of adults used natural products













Key Findings: Natural Products

- Fish oil was the #1 natural product used among adults
- Increased use:
 - Fish oil
 - Probiotics or prebiotics
 - Melatonin
- Decreased use:
 - Glucosamine/chondroitin
 - Echinacea
 - Garlic supplements





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Key Findings: Practices

- Most commonly used:
 - Yoga
 - Chiropractic or Osteopathic manipulation
 - Meditation
 - Massage

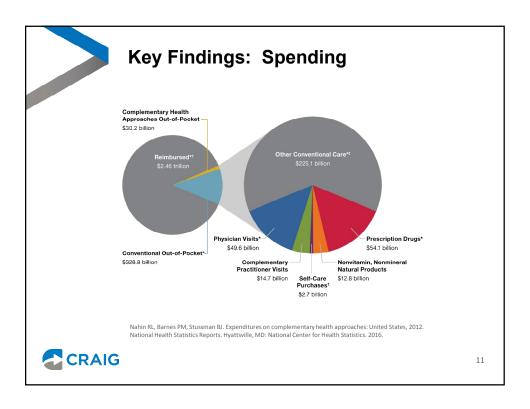














Key Findings: Reasons for use

- Pain is the most common reason people use CIH
- People who use spinal manipulation more often do so for treatment reasons rather than wellness
- Those who take natural products or who practice yoga were more likely to do so for wellness reasons
- Dietary supplement users were more likely to report general wellness as the reason for taking supplements
- >60% of adults using spinal manipulation reported doing so to treat a specific health condition











Key Findings: Reasons for use

- >85% of adults who used yoga perceived reduced stress
- 2/3 of yoga users reported being motivated to exercise more regularly
- Yoga users were more likely to report feeling better emotionally than users of dietary supplements or spinal manipulation



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Barriers to use of CIH

- · Lack of insurance coverage and prohibitive cost
- Lack of physician support
- Skepticism of efficacy and safety
- Lack of knowledge
- Lack of access to providers
- No reason to use CIH
- Desire for a "magic bullet" cure











Barriers to use of CIH

- Stereotype of the typical user
- "Not like me"







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Research on CIH

- Amount of research varies
- Mixed results



- PubMed search
 - Complementary medicine +
 - Alternative medicine +
 - Integrative medicine = >200,000 publications
 - + spinal cord injury = almost 300 publications
- Pain is the most common outcome of interest













- Estimated 282,000 persons living with SCI in the US, with approximately 17,000 new SCI occurring every year
- 2006 survey of CIH use in people with physical disabilities
- 2015 survey of CIH use in people with SCI



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CIH for people with SCI

- Pain is the most common reason people with SCI seek CIH
- High prevalence of pain after SCI
- 2006 survey of CIH for pain
- Most commonly tried:
 - Acupuncture
 - Massage
 - Chiropractic
 - Herbs















- SCI Model Systems study on utilization of CIH by people with SCI
- 5 SCI model systems participating
- Study was initiated based on two reasons
- The goal of our project is to provide comprehensive information regarding CIH utilization and barriers to use for people with SCI
- Our ultimate goal is to expand our knowledge in this newly evolving field to contribute to further improving the health and quality of life in people with SCI.



Research on CIH for people with SCI

• Systematic review of CIH approaches for people with SCI



Disclaimer













Research on CIH for people with SCI

- PRODUCTS
 - Herbs
 - Nutritional supplements
 - Vitamins
 - Minerals







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Research on CIH for people with SCI

- PRACTICES
 - Acupuncture
 - Biofeedback
 - Chiropractic and manual therapy
 - Electromagnetic therapies
 - FES-assisted exercise
 - Massage and healing touch
 - Relaxation therapy
 - Tai chi











Research on CIH for people with SCI

- Research has focused on treatments for pain
- May be effective:
 - Acupuncture
 - Biofeedback
 - Chiropractic
 - Herbs, vitamins, and minerals
 - Hypnosis
 - Massage and healing touch
 - Relaxation therapy
 - TENS
 - Yoga and tai chi





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What about medical marijuana?

- Craig Hospital and our physicians do not condone, support, or prescribe marijuana for our patients with SCI or TBI
- Cannabis has been used for medicinal purposes since 2737 BC
- · Remains illegal at the Federal level, so research is limited

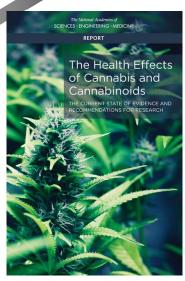








What about medical marijuana?



- 468 page report
- Summarizes therapeutic and harmful effects
- Recommendations for future research

"There is insufficient or no evidence to support or refute the conclusion that cannabis or cannabinoids are an effective treatment for symptoms of spasticity in patients with paralysis due to spinal cord injury"



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What about medical marijuana?

 The Use of Medical Marijuana to Manage Symptom Burden in Spinal Cord Injury from the 2014 Spinal Cord Injury Wellness Summit

http://sci.washington.edu/summit2014/medical_marijuana.asp

- Presentation covers:
 - History of medical cannabis
 - Physiological effects
 - · Current scientific evidence













What about medical marijuana?

- The Prevalence and Intent of Cannabis Use in Individuals with Spinal Cord Injury or Traumatic Brain Injury in Colorado
- Anonymous survey
 - Pre- and post-injury cannabis use
 - · Reasons for using
 - Method and frequency of use
 - Negative side effects
- · Data are still being analyzed



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Are you considering a CIH approach?

• Be an educated consumer *ClinicalTrials.gov*

A service of the U.S. National Institutes of Health

- · Learn about factors that affect safety
- Everyone is different
- Talk to your health care providers
- Find out potential side
 effects and drug interactions













- Choose a provider carefully
 - Check with your doctor for recommendations
 - Education, training, licensing, and certifications
 - Safe, coordinated care
 - Training and experience with SCI?
 - Contact your insurance provider
 - Keep all providers on the same page





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Chanda Plan Foundation

- Mission
- SCI Waiver Project
- Funding for integrative health services available nationwide
 - Adaptive exercise
 - Acupuncture
 - Massage
 - Chiropractic
 - Adaptive yoga













- · Who?
 - Who runs the Web site? Can you trust them?
- What?
 - What does the site say? Do its claims seem too good to be true?
- Where?
 - Where did the information come from? Is it based on scientific research?
- · When?
 - When was the information posted or reviewed? Is it up-to-date?
- Why?
 - Why does the site exist? Is it selling something?



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The key takeaway?













- National Center for Complementary and Integrative Health (NCCIH): https://nccih.nih.gov/
- Facebook: www.facebook.com/nih.nccih
- Twitter: www.twitter.com/nih_nccih
- YouTube: www.youtube.com/c/nih_nccih
- Pinterest: www.pinterest.com/nccih





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- 6 things to know when choosing a CIH practitioner: https://nccih.nih.gov/health/tips/selecting
- Guide to finding and evaluating online resources: https://nccih.nih.gov/health/webresources



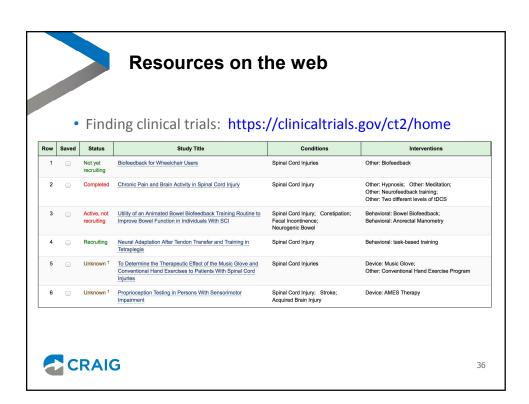




















 Craig Hospital overview on CIH approaches for people with SCI:

https://craighospital.org/resources/topics/complementaryalternative-medicine

 Spinal Cord Injury Model System Information Network overview on CIH for people with SCI:

https://www.uab.edu/medicine/sci/daily-living/managing-personal-health/complementary-a-alternative-medicine



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Resources on the web

Paralyzed Veterans of America:
 http://www.healingtherapies.info



• Human Spinal Cord Injury: New and emerging therapies:

http://www.sci-therapies.info/table_of_contents.htm













• The Chanda Plan Foundation:

http://iamtheplan.org/systemic-change/

• Eligibility information and applications for provider-based services due Nov 9:

http://iamtheplan.org/direct-services/



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Resources on the web

 The Health Effects of Cannabis and Cannabinoids: The current state of evidence and recommendations for research:

https://www.nap.edu/read/24625/chapter/1#ii

• The Use of Medical Marijuana to Manage Symptom Burden in Spinal Cord Injury:

http://sci.washington.edu/summit2014/medical_marijuana.asp









• Adaptive yoga videos:

https://www.youtube.com/playlist?list=PLDCDF5A650A354 13C

• Adaptive tai chi:

http://www.disabledsportsusa.org/sport/tai-chi/









