Chronic Pain Reconsidered: The Role of Neural Circuits in the Brain

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Is pain a syndrome or a symptom?

Should we treat all pain the same?

Fever gets symptomatic rx or specific antibiotic or antiviral treatment.

Should we treat metastatic cancer pain as we do fibromyalgia pain?

Should we treat RA pain as we do migraine pain? Should we treat Crohn's as we do IBS?









- Epidural steroid injections 629% increase
- Opioids for back pain 423% increase
- Lumbar MRI 307% increase
- Spinal fusion surgery 220% increase
- Change in disability and pain 25% increase

Deyo et. al. J Am Bd Fam Med 2009; 22: 62-68.

Surgical Treatment for Chronic Non-specific LBP

Several studies have found no difference in long term outcomes between surgery and conservative forms of therapy, including physical therapy, observation and exercise.

There are no studies comparing surgery to sham surgery, unlike meniscal tear trials.

Peul, N Engl J Med 2007;356:2245-56. Brox, Spine 2003, 28:1913–1921. Osterman, Spine 2006, 31:2409–2414.

Meta-analysis: review of epidural injections for back pain Evidence on efficacy of epidural injections specifically for spinal stenosis, lbp without radiculopathy, or failed back surgery syndrome is sparse and

inconclusive, but showed no clear benefit.

Chou, et. al., Spine, 2009, 34: 1078–1093. Friedly, et. al., N Engl J Med 2014; 371:11-21.





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Prevalence of degenerative spine imaging findings in asymptomatic patients, n=3300

Age (yr)

	Imaging Finding	20	30	40	50	60	70	80	
	Disk degeneration	37%	52%	68%	80%	88%	93%	96%	
	Disk bulge	30%	40%	50%	60%	69%	77%	84%	
	Disk protrusion	29%	31%	33%	36%	38%	40%	43%	
	Annular fissure	19%	20%	22%	23%	25%	27%	29%	
	Facet degeneration	4%	9%	18%	32%	50%	69%	83%	
	Spondylolisthe sis	3%	5%	8%	14%	23%	35%	50%	
Briniiki W. et. al. Am. I Neuroradiol. 2015, 36:811-6									









Clues to a Functional Disorder

- Symptoms begin without a physical precipitation
- Symptoms persist after an injury has healed
- Symptoms are in a distribution pattern that is symmetric
- Symptoms occur on one whole side of the body or occur on half of the face, head, or torso
- Symptoms spread over time to different areas of the body
- Symptoms radiate to the opposite side of the body or down a whole leg or arm
- Symptoms that occur in many different body parts
- Symptoms that have the quality of tingling, electric, burning, numb, hot or cold











Research Paper

PAIN

Emotional awareness and expression therapy, cognitive behavioral therapy, and education for fibromyalgia: a cluster-randomized controlled trial

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I developed daily, persistent headaches at the age of 15. The pain intensified and manifested into migraines, TMJ, neck and shoulder pain. Over the next 37 years, I saw numerous doctors and tried many medications; I tried physical therapy, chiropractors, biofeedback, injections, and treatment at a worldrenowned headache center. Nothing helped.

In 2015, my daughter, a nurse practitioner, gave me Unlearn Your Pain. I had no intention of reading it. I didn't think it could help. Then my husband and I went on vacation and my pain lessened, but I noticed when I returned home the pain increased. I opened the book and identified myself in it, particularly that an emotionally stressful event had taken place in my life when the pain started. I saw Dr. Schubiner and he ruled out tissue damage as the cause of my pain. He explained that "the truth will set you free." He was right. As I realized that my real pain was caused by my brain, I stopped focusing on the symptoms, and started to look at the underlying cause.

I went through the workbook and spoke with a coach for four sessions. I was able to understand the connection between my emotional state and my physical pain. Through writing, I began to feel the emotions that my brain had been protecting me from for all those years. Once I began to feel, I was able to heal. I now have the tools and insight to stop pain when it starts by recognizing the cause; my thoughts and emotions. That was it, that was all it took. 37 years of suffering that I didn't have to endure.

On April 17, 2019 it will be four years that I will be pain free. My life is completely changed. I don't think about pain anymore and I don't fear it. I have confidence in myself and have learned to be kind to me. I also lead an active lifestyle without any limitations by "triggers" that I used to think were causing the pain. I think of all the time wasted and all the money spent trying to fix my physical pain when all along the cure was in me. It is so hard to explain this to others, but I am a living testimony to the fact that it is real.

I hope and pray the medical community will come on board with this. I think of all the people who could be cured and live a full life. My hope is that others would have the same freedom from pain that I have now.

Evaluation steps

- Listen to story with compassion
- Validation for symptoms/situation
- Explain pain and predictive coding
- Medical history looking for evidence of FIT
- Assess life story looking for linkages
- Physical exam, lab and image review
- Personalize information/explain
- Offer hope/optimism
- In office demonstration of circuits
- Start treatment plan

Distinguish between primarily nociceptive, central or both

Choose treatment based upon the diagnostic evaluation

Coping model of multidisciplinary clinic versus

Curing model of pain and brain education, PRT, and EAET

Dr. Schubiner - you have been on my mind. I wrote to you earlier in the year that most of my pain was gone. I was so relieved. Over the last three months, I had to experience the decline and passing of my husband (last Friday). He was in hospice in our home which required a lot of physical work and emotional pain. The back and hip pain returned one day and it occurred to me that my mind was more than ready to take me down. Per your training, I restarted affirmations, processed emotional pain with my sister and a friend, and claimed victory over the mind devils. It worked. I was healthy and able to care for David through the end. Thank you again for helping me.

Pain is an interpretation made by the brain based on many inputs, both current and past

Pain is generated by neural circuits and commonly occurs in the absence of nociceptive inputs

In this situation, it may be reversible

For each illness that doctors cure with medicine, they provoke ten in healthy people by inoculating them with the virus that is a thousand times more powerful than any microbe: the idea that one is ill. --Marcel Proust

"Primum non nocere"









