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DISCLOSURE

The planners and speakers for this session have nothing to disclose.

Older Adults with Chronic Pain or Opioid Use Disorder

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OBJECTIVES

 Understand risk stratification and monitoring of older adult patients using opioid pharmacotherapy for chronic pain, especially in patients with opioid tolerance who may benefit from buprenorphine—using realistic clinical case scenarios.

2. Describe the current public health statistics on chronic pain, its overlap with opioid use disorder (OUD), with a special focus on older adults.

3. Evaluate pharmacotherapeutic and integrative health options in pain and OUD management, including acupuncture, meditation, & hypnosis.

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RETHINKING CHRONIC PAIN RX



FULL OPIOID AGONIST.

CENTRAL PAIN PROCESSING PARTIAL OPIOID AGONIST. & SENSITIZATION

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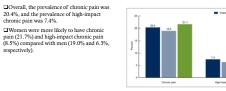
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CHRONIC PAIN STATS

Figure 1. Percentage of adults aged 18 and over with chronic pain and high-fingate chronic pain in the past 3 months, overall and by sec: United States, 2019



https://www.cdc.gov/nchs/products/databriefs/db390.htm

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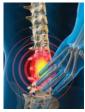
CDC CLARIFIES GUIDELINES IN 2019

Perspective (rest patvice) No Shortcuts to Safer Opioid Prescribing	
Deborah Dowell, M.D., M.P.H., Tamara Haegerich, Ph.D., and Roger Chou, M.D.	

Even guideline-concordant care can be challenging. Implementing recommendations with individual patients takes time and effort. An unintended consequence of expecting elinicians to mitigate risks of high-dose opioids is that rather than caring for patients receiving high dosages or engaging and supporting patients in efforts to tape their dosage, some elinicians may find it easier to refer or dismiss patients from care. Clinicians might universally stop prescribing opioids, even in situations in which the benefits might outweigh their risks. Such

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PAIN—ETYMOLOGY & FEATURES



 An unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage.
 Six key features:

⊁Pain is always a personal experience that is influenced to varying degrees by biological, psychological, and social factors.
⊁Pain and nociception are different phenomena → Pain cannot be inferred solely from activity in sensory neurons.

>Through their life experiences, individuals learn the concept of pain.

➤A person's report of an experience as pain should be respected.

https://www.iasp-pain.org/Education/Content.aspx

1. What n

Although pain usually serves an adaptive role, it may have adverse effects on function and social and psychological well-being.

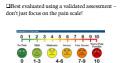
Verbal description is only one of several behaviors to express pain; inability to communicate does not negate the possibility that a human or a nonhuman animal experiences pain.

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EVALUATING CHRONIC PAIN



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_	0	1 Does not	2	3	4	5	6	7	8	9	10 pletely
		interfere									erferes

Krebs, E. and huital Validation of the PEG, a Three-item Scale Amening Pain Intensity E., Lorenz, K. A., Buir, M. J., Dannah, T. M., Wu, J., Sufferland, J. M., Asch S, Kroenke, K. (2009). Development and Intensity to Summa of Common Intensity Models 2016, 721 77

best describes your <u>pain on average</u> in the past

Consider a PEG assessment: Pain – Enjoyment – General activity

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CLINICAL SCENARIO-1

HP1: Pleasant 70 y/o female with moderate lumbar stenosis with advanced lumbar spine degenerative joint disease, fibromyalgia, GERD, hypertension, hyperlipidemia (on statin) who presents for an evaluation for chronic pain management. Reports having left-sided existica pain radiating behind her left bg. Had an MRI about 2 months prior to initial evaluation that confirmed abstrates uses. Plan her left bg. Had an MRI about 2 months prior to initial evaluation that confirmed abstrates uses. Plan her hydroxedonse reduced from 10/325mg by prior physician, currently on hydrocodone 7.5/325mg TID with pain level of 7.

Examination reveals intact strength without any neurologic findings. Exquisite tenderness of the lower spine and paraspinals.

Records requested, PDMP is consistent with self report.

Urine toxicology testing: +opioids

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CLINICAL SCENARIO-1: SCREENING & RISK ASSESSMENT



with Chronic Pain or Opioid Use Disorder

70 y/o F screenings reveal: PEG: 7/8/6 (avg. 7) on hydrocodone/APA 7.5/325mg TID + ibuprofen 600mg TID.

ORT: 0 PHQ-9: 2 GAD-7: 2 AUDIT-C: 0 DAST-10: 0

What are the best treatment options for her?

CLINICAL SCENARIO-1 (PRE-COVID19)

- · Pain safety agreement signed & initiated
- Patient signs an Opioid Consent
- Rx: hydrocodone/APAP 10/325mg TID (prior regimen)
 Discontinuation of ibuprofen (or gradual reduction given
- her health risks)
 Consider physical therapy

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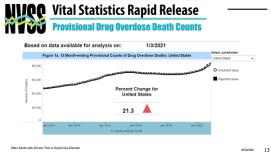
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UNDERSTANDING OPIOID USE DISORDER

John A. Hopper, MD, DFASAM, FAAP, FACP

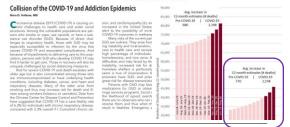






Annals of Internal Medicine

IDEAS AND OPINIONS



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THE INTERSECTION OF CHRONIC PAIN & OPIOID MISUSE/USE DISORDER

□What is the prevalence of Opioid Misuse/Use Disorder (OUD) in patients who suffer with chronic pain?

>Unclear, as limited evidence, ambiguous terminology, conflicting results.

>A systematic review of 38 studies suggests patients with chronic pain:



8% to 12% have OUD



THE NEUROBIOLOGY OF ADDICTION

Addiction is a chronic, relapsing disorder characterized by a compulsive drive to a take a drug (or substance) despite:



- serious consequences
- Loss of control over intake
 And the emergence of a negative emotional state during abstinence.
 Heads to profound behavioral disruptions



→The NA and VTA are the pleasure/reward pathways of the brain are "hijacked" by substances.

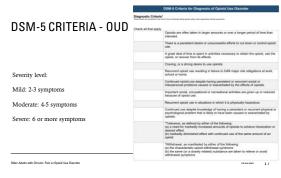
Drugs impact many neuronal circuits—processing rewarding stimuli, negative emotions, interoception, decision-making, and cognitive control—turns drug use into a compulsive behavior.

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MEDICATIONS TO TREAT OPIOID USE DISORDER (MOUD) AND PAIN



□Referred to as Medication-assisted Treatment (MAT)→Medication for Addiction Treatment (MAT)

Buprenorphine/naloxone (Suboxone®) is FDA approved for treating OUD.

□Lower risk of abuse potential - contains both buprenorphine & naloxone. Naloxone is an opioid antagonist (Narcan® – an opioid overdose reversal agent).

□Mechanism of action: partial opioid agonist therapy that binds to the pain receptors (mu receptors) with a safer profile. Caution: hypoxemia/COPD

Greater acceptance of using buprenorphine/naloxone OFF LABEL for chronic pain.

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Rx drugs		4
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	1	1
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ychological disease		
ADD, OCD, bipolar, schizophrenia	2	2
Depression	1	1
oring totals		
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FDA APPROVED BUPRENORPHINE*FOR PAIN— NO X WAIVER NEEDED.



TREATING PAIN IN OLDER ADULTS



Juliette Perzhinsky, MD, MSc, FACP Associate Professor, Central Michigan University

CLINICAL SCENARIO-1 (COVID-19)

Patient follows up via telehealth at onset of COVID19 pandemic for 3 months. She is unable to be with relatives or attend church. She begins running short on her hydrocodone script by 3-4 days. Admits to taking additional pills at night due to increased pain. States pain is at 7-9/10. GAD7=6. Start duloxetine 30mg daily

A few months later as the in-clinic operations resume, pt returns for first in-clinic visit with persisting pain. Urine toxicology: +Opiates, +Oxycodone. Patient reports no other opioid use.

GCMS is consistent with in office testing.

Topical Diclofenac is added

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Cleveland Clinic

Arch 28, 2019 / Othersedics





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WHY NOT PREGABALIN?



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12-19-2019 FDA Drug Safety Communication What safety concern is FDA announcing?

The U.S. Food and Drug Administration (FDA) is warning that serious breathing difficulties may occur in patients using gabapentin (Neurontin, Gralise, Horizant) or pregabalin (Lyrica, Lyrica CR) who have respiratory risk factors. These include the use of opioid pain medicines and other drugs that depress the central nervous system, and conditions such as chronic obstructive palmonary disease (COPD) that reduce lung function. The defery are also at higher risk.

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ARE NSAIDS THE ANSWER?

□Not accord



FDA Drug Safety Communication: FDA strengthens warning that nonaspirin nonsteroidal antiinflammatory drugs (NSAIDs) can cause heart attacks or strokes

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□Not according to the FDA

A large number of studies support the finding that NSAIDs cause an increased risk of serious cardiovascular thrombotic events, Estimates of increased RR range from 10% to 50%.

□Several observational studies found a significant cardiovascular risk within days to weeks of NSAID initiation. Some data also showed a higher risk with longer NSAID treatment.

□There are observational data indicating that the thrombotic cardiovascular risk from NSAID use is dose-related. There is also some evidence of this dose-response effect from clinical trials of celecoxib.

AVOID NSAIDS in pts on ASA/Coumadin/NOAC therapy

CLINICAL SCENARIO-1 TRANSITION TO BUPE TX

Butrans

m I he total daily dose of

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Tail Prescribin

□Due to her worsening pain despite titration of hydrocodone and augmentation with other therapeutic options, a discussion ensues. Reviewed concerns over hyperalgesia leading to opioid misuse and to consider switching her to a Butrans 10mcg patch. An expedited prior auth is approved.

EKG obtained: NSR, OTc 380ms

□Patient instructed start the patch 24 hours AFTER her last dose of hydrocodone & to use scheduled acetaminophen with lidocaine patches.

□ Side effects discussed including nausea and risk of rash with transdermal buprenorphine patch

□Patient returns in 2 weeks with improvement in pain to 3-4. Reports that she was nauseated for the first few days, but it resolved. nic Pain or Opioid Use Disorder



CLINICAL SCENARIO-1-FINAL COURSE

□Patient follows up with increasing in pain, UDS shows bupe and opiates, reports to taking hydrocodone from a friend while wearing the patch due to increased pain.

□Pt also reports opioid craving and asks to "try that medication that helps people get off norco." But she is not interested in seeing a counselor for any help. An emphatic discussion ensues about concerns with honest, open communication in a non-judgmental manner.



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□Discussed treatment option of transitioning to buprenorphine/naloxone 4/1mg films BID, then a week later increase to 8/2mg BID due to lack of analgesic effect, which initially helped her pain. Pt is able to repeat instructions on how to use the films.

□Patient declines returning in one week as she doesn't feel the buprenorphine is helping her pain. She politely declines any adjustment or referrals – politely states she will find another pain clinic that will put her back on hydrocodone.

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CLINICAL SCENARIO-2 INTRO

HPI: 73 year-old female with hypertension, COPD, depression, chronic low back pain with radiation down the L leg, cervicalgia, remote history of alcohol use disconder (but still occasionally drinks once a month on self report), former tobacco user, who presents to establish care for pain management P was previously on methadone 10 mp BID and oxycodoner/APAP 10/325mg BID, but due to an abnormal heart hythm, or the start of the set of the the methadone was stopped. Oxycodone dose kept at TID and pt started taking OTC Naprosyn for worsening pain. No adjustment in regimen. Transferred care due to being in severe pain.



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On exam, musculoskeletal exam reveals limited cervical and spine ROM, intact reflexes and strength, pt with depressed and tearful affect.

PEG = 10/10/10 Urine toxicology: +OXY (GCMS consistent) Outside records requested including imaging reports.

nic Pain or Opioid Use Disorder

CLINICAL SCENARIO-2 SCREENINGS



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CLINICAL SCENARIO-2

Patient returns for close, ongoing follow up. Pain level at an 8/10 initially, but pt was unable to tolerate the duloxetine due to stomach upset and cramping, so she discontinued it. Clinically more depressed and encouraged to follow up with a therapist and consider an SSRI (seistlopram). Pt agreeable. At subsequent visit, pain level is back to 10/10 and pt in distress. UDS testing and PDMP checks are consistent.

Reviewed MRI report from two years prior that confirms Cervical Spondylosis with broad-based disc osteophyte complexes. Severe right and moderate left foraminal narrowing C4-C5 and C6-C7.

Repeat MRI imaging ordered and discussion for opioid conversion as pt has worsening pain despite dose adjustment two months prior. Conversion to long-acting opioid deemed too high risk with her COPID. Pt is concerned that even though it's been 4 months, she feels like she is still trying to cope with being off methadone. Declines injection referral.

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CLINICAL SCENARIO-2 CONVERSION TO BUCCAL BUPE

Within 2 weeks, patient returns with her adult daughter to discuss opioid conversion. Buprenophine buccal films discussed and expedited prior authorization placed. P initiated on buccal buprenorphine 450 more galt D - a target of Groycodoner. APAP is developed with treatment of which avail symposium and pain using non-opioid analgesis agents for the 2448 hours after she tapers off the oxycodone. Family is available to support bur through the conversion.

Patient transitions to buccal bup renorphine with notable improvement in pain with ultimate titration to $750\mathrm{mcg}$ BID.

Follow up MRI imaging confirms more moderate spine stenosis and compressive myelopathy of the spine. Patient's pain level is up to a 9/10 and asks if the buprenorphine can be increased to a higher dose (900mcg BID). Patient referred to neurosurgery and again encouraged to make an appointment with a behavioral health therapist for integrative treatment options. Red flag symptoms discussed & pt denied.

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RECAP ON CLINICAL CASES

John A Hopper, MD, DFASAM, FAAP, FACP



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CLINICAL SCENARIO-1 REVIEW

70 y/o female with moderate lumbar stenosis with advanced lumbar spine degenerative joint disease, fibromyalgia, GERD, hypertension, hyperlipidemia (on statin) who presents for an evaluation for chronic pain management.

□Patient initially was misusing opioid therapy due to increased pain, declined any interventions including physical therapy.

Patient initially responds to buprenorphine, but then experiences a lack of benefit

□Why the plateau in response?

What other options are available?

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CLINICAL SCENARIO 2 - REVIEW

73 year-old female with hypertension, COPD, depression, chronic low back pain with radiation down the L leg, cervicalgia, remote history of alcohol use disorder (but still occasionally drinks once a month on self report), former tobacco user, who presents to establish care for pain management.

Transitioned off methadone due to "abnormal heart rhythm"

□Converted buprenorphine buccal films, with addition of other modalities. □Willing to undergo some but not all interventions □The progression of her spine disease warrants a surgical evaluation.

□What are the options if her pain does not improve?

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OFF LABEL BUPRENORPHINE FOR PAIN

Easiest to do if patient is already on buccal buprenorphine

 $\hfill \ensuremath{\square}$ Generally well tolerated for patients dependent on full agonist therapy

 $\hfill \square Approval and prior authorization varies widely based on insurance$

Consider getting full waiver training to prescribe buprenorphine

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DIALOGUE EXAMPLES

□ Pills are not always the best option for some types of pain. Some people do better with a patch that works for a full week to deliver a steady stream of medication. I'm wondering if you have thought about that type of treatment since the pills seem to be less effective for you?"

 \square "It can be frustrating that some painful conditions do not have great medication treatment options."

 \square "If that's not an option for you, perhaps you might be open to discussing other treatment options (like buprenorphine)."

"What are some ways we could manage your pain while keeping you safe?"

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ACUTE PAIN – NO DEA X WAIVER NEED IN THE INPATIENT SETTING.



OTHER CONSIDERATIONS

□If acute pain episode occurs with inpatient admission, continue the buprenorphine (no X waiver needed!) → consider IV opioids vs. Ketamine or IV Buprenex (can be use peri-operatively).

□CAUTION: Marijuana→current data shows worsening long-term outcomes especially with mood symptoms.

□And if use disorder manifests, then treat the person suffering with the disease; avoid the stigma of treating addiction as if it is a personality flaw or a moral failing.

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"THE OPPOSITE OF ADDICTION IS NOT

SOBRIETY "





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INTEGRATIVE TREATMENT OPTIONS

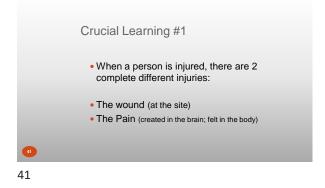
David Gaffney, LMSW BCDCH

Older Adults with Chronic Pain or Opioid Use Disor

The Shift

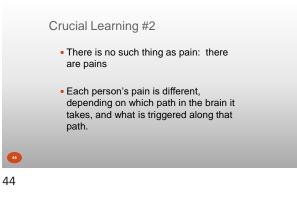
The 2nd revolution:







Brain area	Function
Thalamus	Relays and synchronizes sensory input into a unified image
Somatosensory cortex (S1, S2)	Registers sensory input
	Translates sensory input into emotions, desires, perception, self-awareness
Anterior cingulate cortex (ACC)	Converts physical/emotional awareness into intentions and actions
Prefrontal cortex (PFC)	Orchestrates thoughts and actions in accordance with internal goals and beliefs
Occipital cortex (OC)	Processes imagery
Basal ganglia (BG)	Regulates voluntary motor control and procedural learning of routine behaviors





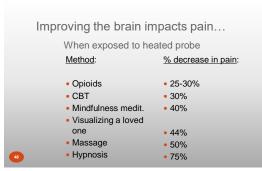
- There is no solution to pain: there are multiple solutions—depending on where in the brain the pain is triggering activity
- Each person's pain solution will thus be different—and need to be tailored to their brain's expression of pain



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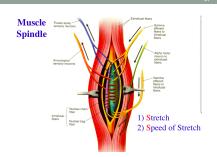
Crucial Learning #4a and 4b

- When a person is in pain, there are at least 2 types of pain:
- Sensory ("pain")
- Affective ("suffering")
- And, there are cognitive modulators:
 Meaning
 Value
 Pain Response Style

Crucial Learning #5a & 5b

Stress is a primary activator of pain signals

Vagal activation is a primary de-activator of pain signals



Video: Helping the Brain Make a difference

Watch:

Meditation and Pain

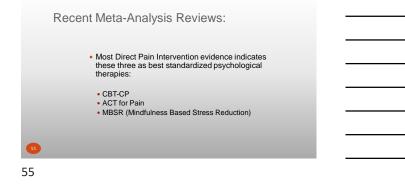
- If we change the meaning, we change the pain

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Intro to the Tier System (guidelines for all therapies)



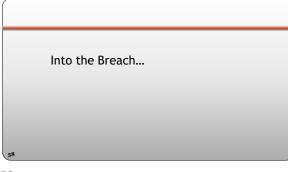
2017 VA CIH Directive List 1:

List of CH Approaches Approved by USH	
Acupuncture	6/7/17
Meditation	6/7/17
Yoga	6/7/17
Tai Chi	6/7/17
Biofeedback	8/3/17
Hypnosis	8/3/17
Guided Imagery	8/3/17
Massage	8/3/17

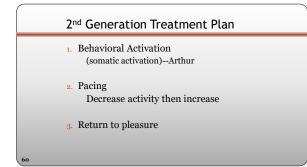
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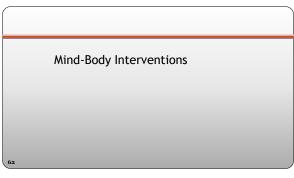
	The Boring Basics: the non-pain treatment plan for pain
	1. Address Anxiety/Stress
	2. Improve Vagal Tone 1. Relaxation 2. coping skills 3. improve social connections
	3. Treat Trauma
	4. Increase QOL in other areas (SALT, bigger bucket)
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The Boring Basics

- Breath Training is the most important core skill in pain (diaphramatic, non-hyperventilating)
- Relaxation is a skill, not a trait. Skills must be taught, and practiced.
- There is no pain control if there is no Deep Sleep
 Movement: a retraining of type, amount, and
- 4. Movement. a retraining of type, amount, and method
- Mindfulness (in movement and awareness)—they need to re-inhabit their body before it will heal.
- 6. Though control: thoughts link directly to
- neuroplasticity and pain receptors
- 7. Talk in the body's language: Use Imagery

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Meditation (NOT Mindfulness) Research supports the following benefits:

- 1. Reverses memory loss
- 2. Increases energy levels
- 3. Improves sleep quality
- Up regulates positive genes
 Down regulates inflammato
- Down regulates inflammatory genes
 Reduces stress in patient and caregiver
- Reduces stress in patient and caregiver
 7. Improves psychological and spiritual well being
- 8. Activates significant anatomical areas of the brain
- 9. Increases telomerase, the rejuvenating enzyme that
- slows cell aging, by 43%, the largest increase ever recorded

Relaxation/Biofeedback/Breath Training Research supports the following benefits:

1. Improved heart rate variability

2. Improved bowel and stomach functioning

- Improved bower and stomach functioning
 Decreased cortisol production
 Decreased muscle tension and increased muscle elasticity
 Decreased pain, head pain, site specific pain
 Improved mood and mood regulation

- 7. Improved immune system functioning

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EFT/EMDR Research supports the following benefits: 1. 25% Cortisol drop in session

- 2. Sustained drops outside of session
- Justanica drops outside of session
 Increased production of natural endorphins and opioid substances
- 4. Decreased muscle tension and increased muscle elasticity
- 5. Ability to impact/remove Phantom Limb Pain
- Simultaneous improvements in depression/anxiety/and-or PTSD

	Hypnosis
	 Research supports the following benefits: Improved cortical functioning Improved pain tolerance Decreased activation of pain receptors Improved motility and mobility in heart, stomach, and intestinal functions Improved blood flow in brain Increased theta/alpha balance Improved sleep Less anesthetic needed during surgery Lower medication doses after surgery
66	10. Shorter hospital stays

Yoga / Tai Chi (and less so others)

Research supports the following benefits:

- Improved sleep
 Decreased back, hip, shoulder and back pain
 Improved blood flow
 Decreased falls

- Decreased rans
 Increased cognitive functions, improved memory, improved judgement
 Decreased depression, anxiety, and PTSD
- 7. Decreased stress hormones

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