





- 6 out of every 10 drug overdoses involve an opioid.
- Since 1999, the number of overdose deaths involving opioids (prescription and heroin) has quadrupled.
- 2000-2015 more than half a million people died from drug overdoses.
- Death from prescription opioids has quadrupled since 1999.
- 91 Americans die everyday from opioid overdose.
- Overdose from prescription opioids is the driving factor for the 15 year increase.
- Since 1999, amount of prescription opioids sold in the U.S. nearly quadrupled (no overall change in reported pain).











Heroin Use Has INCREASED Among		
araphic G	roups	anong
2002-2004*	2011-2013*	% CHANGE
24	36	50%
0.8	1.6	100%
1.8	1.6	100%
3.5 1.2	1.9	58%
	TOTAL C	C. C. C. C. C.
1.4	3	114%
	1.7	
INCOME		600/
3.4 1.3	5.5 2.3	77%
1	1.6	60%
OVERAGE		
4.2	6.7	60%
4.3	4.7	
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- Chronic pain becomes the focal point of the patients life.
- Body, Mind and Spirit.
- "It is fundamentally recognized that nociception sets in motion a conscious awareness of discomfort, thoughts, emotions and dysregulation of the MINE systems, which are displayed throughout the musculoskeletal system. Over time, the social environment responds to the pain, suffering and system dysregulation to further shape and reinforce each unique and highly individualized aspect of the pain presentation"
- Biopsychosocial model



CHRONIC PAIN TREATMENT

- Local Pain Generators:
 - Cutaneous stimulators/topical anesthetics.
 - Local Treatment: **OMT**, PT, massage, etc.
 - Minor Interventions/surgery
- Health Behaviors:
 - Physical activity, nutrition and weight control.
 - Social support
 - Mental well being.
- Restore Sleep:
 - Ideally through sleep hygiene- medications have abuse potential.









- Systemic review of 15 studies showed that OMT significantly reduces pain and improves functional status in patients, including pregnant and postpartum women, with nonspecific acute and chronic LBP.
- Patients with Diabetes Mellitus and LBP who received OMT over a 12-week period had significant reduction in their LBP.
- 6 studies with OMT vs. control arm were evaluated-OMT significantly reduced low back pain greater than the placebo effect and persisted for at least 3 months.



EVALUATION

"Osteopathic thinking requires more than assessing somatic dysfunction and relying on pain intensity scores. Comprehensive osteopathic care for chronic pain takes into account patient's moods, beliefs and pain, coping efforts, resources, response of the family members, and the impact of the pain on the patient's functional quality of life."
FOM

AN OSTEOPATHIC APPROACH TO TREATMENT

- Lifestyle:Diet/Exercise
 - Stress
 - Relationships
- OMM:
 - Local Pain Generator
 - Somatic Dysfunction
 - Autonomic Nervous System
 - Parasympathetic
 OA and sacrum.
 - Sympathetic
 - Thoracic and upper lumbar.
 - Muscle Balance/Imbalance
 - Upper and Lower Crossed Syndrome.
 - Neuromuscular Retraining (Proprioception/balance)

SUBOCCIPITAL RELEASE

- 1. Patient supine; Physician sits at the head of the table.
- 2. Finger pads contact suboccipital region.
- 3. Apply gentle pressure into tissues.
- 4. Holds until tissue releases OR up to 2 minutes.





RIB RAISING

 The patient lies supine, and the physician is seated at the side of the patient.
 The physician slides both hands under the

patient's thoracolumbar region 3. The pads of the fingers lie on the paravertebral tissues over the costotransverse articulation on the side near the physician

4. Leaning down with the elbows, the physician lifts the fingers into the paravertebral tissues, simultaneously drawing the fingers

5. This lifts the spine off the table and places a lateral stretch on the paravertebral tissues.6. This technique may be performed as an intermittent kneading technique or with sustained deep inhibitory pressure.







