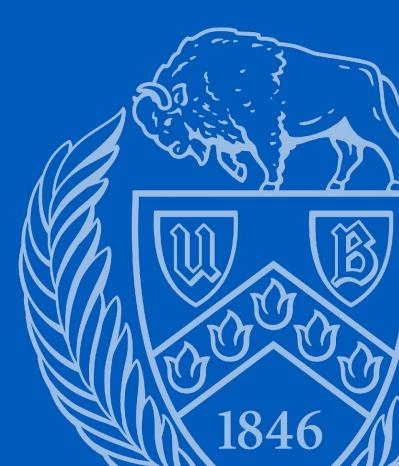
## IATROGENIC SUBSTANCE USE DISORDER

Addiction Medicine or Chronic pain Medicine?

Jacobs School of Medicine and Biomedical Sciences
University at Buffalo



## Scope of the Problem

- Opioid use for chronic pain is complicated by tolerance, hyperalgesia and addiction
- 5-24% of patients treated for chronic back pain with opioids misuse their medications
- Opioid discontinuation and counseling has been the standard-of-care

## America's First Multi-disciplinary Pain Clinic

- Dr Bonica 1960
   University of Washington, Seattle
- Over 100 nationally by early 90s

## America's First Pain Clinic

- Biopsychosocial approach
- Exercise / diet / medical and life strategies
- Opiates played a minor role

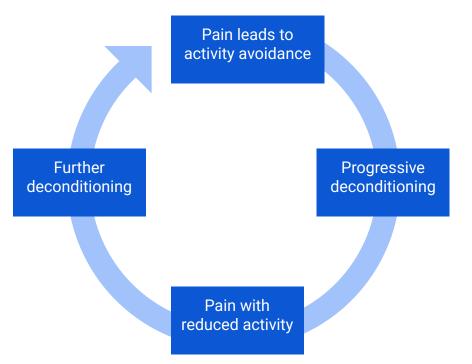


## America's First Pain Clinic

- Multidisciplinary
- OT, PT, psychologist, social worker, others

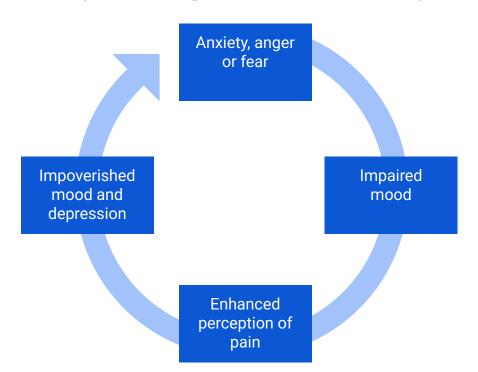


## Physical Vicious Circle





## Psychological Vicious Cycle Associated With Pain



## Education





## 1994 | Pain Rehab of WNY

#### Medical Director, Dr Bansal

- 1st Multidisciplinary pain center in Buffalo
- 3 Board Certified Fellowship trained Interventional pain doctors
- 2 psychologists
- 2 physical therapists
- Occupational therapists

## Pain Rehab of WNY

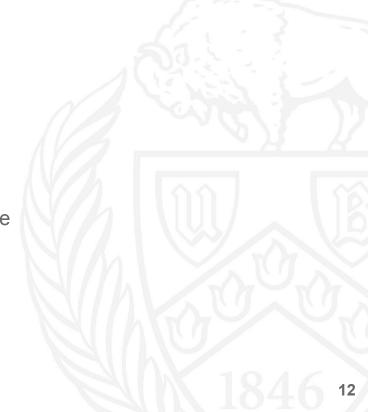
- Insurance companies did not want to pay for multidisciplinary approach
- SHORT SIGHTED
- Opiates were cheaper and faster!!!



Billionaire Sacklers Granted Lifetime Legal Immunity in Opioid Settlement

## Patient on Opioids

- Addiction patient
- Patient placed on chronic opioid therapy
- Opioid task force switched many patients to suboxone pain did not get treated



## Diagnosis: Chronic Pain Disorder

- History and Physical
- Old records
- Diagnostic Testing
- Differential diagnosis



2024



Original Investigation | Geriatrics

Older Adult and Primary Care Practitioner Perspectives on Using, Prescribing, and Deprescribing Opioids for Chronic Pain

Timothy S. Anderson, MD, MAS; Brianna X. Wang, BS; Julia H. Lindenberg, MD; Shoshana J. Herzig, MD, MPH; Dylan M. Berens, MS; Mara A. Schonberg, MD, MPH

• 5% received long-term opioids

Figure 2. Patient Willingness to Consider Opioid Deprescribing Given Hypothetical Scenarios Symptoms Sleeping too much Bad memory Falls Other scenarios Aging Unintentionally took too much Family expressed concerns Guidelines recommended reduction Medication interactions Unlikely Neutral Developed Likely tolerance Did not respond 90 Patient participants, %

## Patient

"nobody actually talked to me about the risks of taking these medications."

- Patient resistance to deprescribing opioids
- Previous negative experiences that led to hesitation around tapering
- Fear Of Withdrawal

## Clinician

## Describing patients as defensive, adversarial, attached, and scared to stop opioids

- Lack of education "How to taper"
- Time consuming
- Leave them as is "seem to be doing OK"
- No incentive –they come back monthly for the prescription

## Independent, self-management programs

- Encourage physical activity and/or work activities despite residual pain goal of preserving functional status.
- Active techniques strengthening, stretching and range of motion physical exercise, which are typically home-based and self-directed.
- Community support/self-help groups, programs and/or networks
- Long-term use of pain medications, must take appropriate steps early in the course of care to avoid or minimize the risk of such

Section 1 – Pain intensity LUMBAR OSWESTRY SCORE

Section 2 – Personal care (washing, dressing etc)

Section 3 – Lifting

Section 4 – Walking\*

Section 5 – Sitting

Section 6 – Standing

Section 7 – Sleeping

Section 8 – Sex life (if applicable)

Section 9 - Social life

Section 10 – Travelling



## Jacobs School of Medicine and Biomedical Sciences University at Buffalo

#### OSWESTRY LOW BACK DISABILITY QUESTIONNAIRE

Instructions: this questionnaire has been designed to give us information as to how your back pain has affected your ability to manage everyday life. Please answer every sciencia and mark in each section only the ONE box which applies to you at this time. We realize you may consider 2 of the statements in any section may realist to you but please mark the box which most closely describes you current condition.

L	PAIN INTENSITY	6.5	TANDING
	I can tolerate the pain I have without having to use pain killers	=	I can stand as long as I want without extra pain I can stand as long as I want but it gives me extra pain
D.	The pain is bad but I manage without taking pain		Pain prevents me from standing for more than one hour
	killers		Pain prevents me from standing for more than 30 minutes
	Pain killers give complete relief from pain		Pain prevents me from standing for more than 10 minutes
	Pain killers give moderate relief from pain		Pain prevents me from standing at all
	Pain killers give very little relief from pain		
П	Pain killers have no effect on the pain and I do not use		
	them.		
2	PERSONAL CARE (e.g. Washing, Drewing)	7. 5	LEEPING
	I can look after myself normally without causing extra		Pain does not prevent me from sleeping well
	pain		I can sleep well only by using medication
	I can look after myself normally but it causes extra		Even when I take medication, I have less than 6 hrs sleep
	pain		Even when I take medication, I have less than 4 hrs sleep
	It is painful to look after myself and I am slow and	-	Even when I take medication, I have less than 2 hrs sleep
	careful	-	Pain prevents me from sleeping at all
	I need some help but manage most of my personal care		
	I need help every day in most aspects of self care		
п	I don't get dressed, I was with difficulty and stay in		
	hed		
3.	LIFTING	8.	SOCIAL LIFE
	I can lift heavy weights without extra pain		My social life is normal and gives me no extra pain
	I can lift heavy weights but it gives extra pain		My social life is normal but increases the degree of pain
	Pain prevents me from lifting heavy weights off the		Pain has no significant effect on my social life apart from
	floor, but I can manage if they are conveniently		limiting my more energetic interests, i.e. dancing, etc.
	positioned, i.e. on a table	П	Pain has restricted my social life and I do not go out as often
	Pain prevents me from lifting heavy weights, but I can		Pain has restricted my social life to my home
	manage light to medium weights if they are		I have no social life because of pain
	conveniently positioned		
-	I can lift very light weights		
п	I cannot lift or carry anything at all		
	WALKING	9.7	TRAVELLING
			I can travel anywhere without extra pain
	Pain prevents me walking more than one mile		I can travel anywhere but it gives me extra pain
	Pain prevents me walking more than 1/4 mile		Pain is bad, but I manage journeys over 2 hours
	Pain prevents me walking more than 1/4 mile		Pain restricts me to journeys of less than I hour
	I can only walk using a stick or cratches		Pain restricts me to short necessary journeys under 30
	I am in bed most of the time and have to crawl to the		minutes
	trilet		Pain prevents me from traveling except to the doctor or
			hospital
	SITTING	10	EMPLOYMENT/ HOMEMAKING
	I can sit in any chair as long as I like	П	My normal homemaking/ job activities do not cause pain.
ō	I can only sit in my favorite chair as long as I like	П	My normal homemaking job activities increase my pain, but
	Pain prevents me from sitting more than one hour		I can still perform all that is required of me.
	Pain prevents me from sitting more than 1/2 hour		I can perform most of my homemaking/ job duties, but pain
	Pain prevents me from sitting more than 10 minutes		prevents me from performing more physically stressful
	Pain prevents me from sitting at all		activities (e.g. lifting, vacuuming)
			Pain prevents me from doing anything but light duties.

☐ Pain prevents me from performing any job or homemaking

JOURNAL OF ADDICTIVE DISEASES https://doi.org/10.1080/10550887.2019.1690929





### Randomized clinical trial comparing buprenorphine/naloxone and methadone for the treatment of patients with failed back surgery syndrome and opioid addiction

Anne M. Neumann<sup>a</sup>, Richard D. Blondell<sup>a</sup>, Rachel A. Hoopsick<sup>a</sup> and Gregory G. Homish<sup>b</sup>

<sup>a</sup>Primary Care Research Institute, Department of Family Medicine, The State University of New York at Buffalo, Buffalo, NY, USA;

Department of Community Health and Health Behavior, The State University of New York at Buffalo, Buffalo, NY, USA

## **Opioid Replacement Options**

#### **METHADONE**

- 2 small studies
- Compared
- Methadone
- Discontinuation
- Results: methadone superior to discontinuation for pain management
- -Kennedy J Sub Abuse Treat 1990;7:223
- -Tennant Arch Intern Med 1982;142:1845

#### **BUPRENORPHINE**

- Case series of 95 patients
  - Abused opiates
  - Had chronic pain
- Given buprenorphine
- Results:
  - Provided analgesia
  - Limited drug abuse

-Malinoff Am J Ther 2005;12:379



## NIH Public Access

#### **Author Manuscript**

J Addict Med. Author manuscript; available in PMC 2011 September 1.

Published in final edited form as:

J Addict Med. 2010 September; 4(3): 140-146. doi:10.1097/ADM.0b013e3181ba895d.

# A Clinical Trial Comparing Tapering Doses of Buprenorphine with Steady Doses for Chronic Pain and Co-existent Opioid Addiction

Richard D. Blondell, M.D., Lisham Ashrafioun, M.A., Christina M. Dambra, B.S., Elisa M. Foschio, B.S., Amy L. Zielinski, B.S., and Daniel M. Salcedo, M.D.

Department of Family Medicine and the Department of Rehabilitation Medicine, The State University of New York at Buffalo and the Erie County Medical Center Buffalo, New York

## **Randomized Clinical Trials**

#### **DETOXIFICATION V. BUPRENORPHINE**

- 12 pain clinic patients
  - Had chronic pain
  - Self-reported addiction
- Followed for 6 months
- Results: protocol completed
  - 0/6 detox group
  - 5/6 buprenorphine group
  - P = 0.015 (favored BUP)
- Study stopped early

#### METHADONE V. BUPRENORPHINE

- 54 self-referred patients
  - Chronic orthopedic pain
  - Aberrant drug taking
- Followed for 6 months
- Results: pain & drug use
  - Both groups had pain reduced
    - P = 0.043 from baseline
  - Illicit drug use: 0/13 v. 5/13
    - P = 0.039 favored methadone

## Nociceptive Pain

- a) Muscular responds to exercises
- b) skin, visceral organs, joints, tendons, or bones responds to NSAIDS etc

## Neuropathic Pain

--responds to antidepressants, anticonvulsant agents

OPIOIDS are the last option

## Myofascial Pain

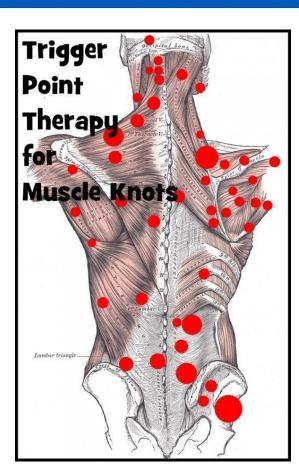
- 30-40% of patients who present to primary care offices with a complaint of pain
- 80-90% of patients referred have some component in a pain practice



## We Know Exercise Helps

- Medical training does not teach physician how to teach the patients an exercise program
- Handing out exercise sheet does not work





- Janet Travell treated President Kennedy
- She wrote 2 beautiful books covering each muscle
- The techniques are not experimental
- Drug companies have money to promote their drugs
- EXERCISE, EXERCISE, EXERCISE



- A trigger point (TrP) is a small patch of tightly contracted muscle, an isolated spasm affecting just a tiny patch of muscle tissue
- A small patch of muscle chokes off its own blood supply, which irritates it even more a
  vicious cycle called a "metabolic crisis."

# LEGACY PATIENTS: WCB

Can we get them off opioids?

Pratibha Bansal



Effect of a Structured Stretching Exercise Program on Resolution of Myofascial Pain and Opioid Usage in "Legacy Pain" Patients: A Retrospective Review

Pain Practice 2022

## Background

- Opioids became a common approach to treating chronic musculoskeletal pain in the late
   1990s despite a lack of good evidence
  - Newer guidelines have recommended weaning patients due to concerns of abuse and dangerous side effects
- "Legacy pain" patients have been maintained on opioids for long periods of time and their opioid management under new guidelines can be difficult
  - Myofascial pain is thought to be a common component of chronic pain in these patients
  - Myofascial pain is best treated with non-opioid techniques such as PT, exercise and massage
- Purpose of study: Can a physical led structured stretching exercise program improve outcomes of legacy pain patients?

#### Methods

- Retrospective review of workers' compensation patients seen in a community based interventional pain practice
- "Legacy pain" patients defined as those on opioids > 1 year prior to first clinic visit
- Intervention: All patients taught a structured stretching exercise regimen consisting of 14 lumbar, 5 thoracic and 7 cervical stretches as appropriate
  - Continued receiving non-opioid adjuvants and interventions at provider discretion
- Primary outcome assessed:
  - Morphine milligram equivalents (MMEs)
- Secondary outcomes assessed:
  - Pain scores, function scores (Oswestry), pain symptomatology, non-opioid adjuvant use, and interventional procedure rate

#### **Lumbar Stretches**



WATCH VIDEOS OF STRETCHES AT PAINREHABOFWNY.COM OFFICE: 716-446-5900 • FAX: 877-258-3640 1515 KENSINGTON AVE, BUFFALO, NY 14215

#### LOW BACK (LUMBAR) & LOWER EXTREMITY STRETCHES

FROM PRATIBHA BANSAL, MD FT. SAMMY IRACI III, PT OF FAMILY CARE PHYSICAL THERAPY

7 days a week



HOLD: 15 seconds

Begin Iving with your hands clasped over your knee. Pull your knee towards your chest until you feel a stretch in the



7 days a week HOLD: 15 seconds

Begin lying with your hands clasped over your knee. Pull your knee towards your opposite shoulder until you feel a stretch in the buttocks/hip. Perform on both sides.



7 days a week HOLD: 15 seconds

Begin lying on your back. Bring the bottoms of your feet together and let your knees fall to the side until a stretch is felt in the groin/inner hip.



REPS: 5 7 days a week HOLD: 15 seconds

Begin lying on your back with knees together. Let your knees fall to the side while keeping your hands clasped behind

your head. Elbows should be touching the floor throughout this stretch. The upper body should stay flat on the floor. A stretch should be felt on the opposite side of the back. Perform on both sides.



REPS: 5 7 days a week HOLD: 15 seconds

Begin lying on your back. Use a strap/ belt/rope around the foot. Pull your leg up until you feel a stretch in the back of the thigh. If the knee begins to bend you are pulling too far. Do not let the leg bounce. Perform on both sides.



REPS: 5 7 days a week HOLD: 15 seconds

Begin in a long sit position on the floor with your back against the wall. Reach towards your toes keeping your knees straight until you feel a stretch in the back of the thighs.



RFPS: 5 7 days a week HOLD: 15 seconds

Begin in a long sit position on the floor. Reach towards the outside of your Left leg bending as far forward as you can. Slowly bend your head downwards to

stretch the low and mid back. Perform on both sides.



7 days a week HOLD: 15 seconds

Begin with legs crossed on the floor. Reach towards the center bending as far forward as you can. Slowly bend your head downwards to stretch the low back.



7 days a week HOLD: 15 seconds

Begin with legs crossed on the floor. Reach towards the Right bending as far forward as you can. Slowly bend your head downwards to stretch the low back. Perform on both sides.



7 days a week

HOLD: 10 seconds Begin lying on your stomach. Use your arms to press up without your hips coming off the

table. Use the arms to arch the back and once at peek height, extend the head back to increase the degree of stretch.



HOLD: 15 seconds

In standing, put one foot behind you keeping the knee straight until you feel a stretch in the calf. To increase the amount of stretch, begin to slowly bend the front knee without picking the heel up on the back foot. Perform on both sides.



REPS: 5 7 days a week HOLD: 15 seconds

Begin lying at the edge of your bed or couch. Attach a strap, bed sheet, or belt to your foot with the leg hanging off the side. Pull your foot/ankle towards you until a stretch is felt in the front of the thigh but do not let the knee rise. Perform

on both sides.

REPS: 5 7 days a week



HOLD: 15 seconds In standing, grab your foot and pull towards your buttock until a stretch is felt in the front of the thigh. Do not lean forward. Keep the back as straight as possible. Perform on both sides.



REPS: 30

HOLD: 1 second Begin in sitting. Slouch at your low back, extend your leg out, and bring your head down. Slowly rock your foot/ankle back and forth (flex and extend), DO NOT hold this stretch for longer than one second when the toes are pointing towards you.

This stretch is for the sciatic nerve which runs from your back to your toes. Reneat on both sides.

#### Thoracic Stretches



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#### MID BACK (THORACIC) STRETCHES

FROM PRATIBHA BANSAL, MD FT. SAMMY IRACI III, PT OF FAMILY CARE PHYSICAL THERAPY





REPS: 5 HOLD: 10 seconds 7 days a week

Start on hands and knees. Keep the buttocks in line with the knees. Arch the back upwards like a camels hump (picture 1) and bend the head down. Hold for 10 seconds.

After completion, lift the head back up and arch the back like a cat (picture 2) and hold for 10 seconds. Repeat process 5 times.



REPS: 5 HOLD: 15 seconds 7 days a week

In standing, reach towards the floor but try not to bend at the low back. Slowly bend your head downwards and pull shoulder blades apart by using the arms to pull the shoulders forward to stretch the middle of the back.



REPS: 5 HOLD: 15 seconds 7 days a week

Begin standing upright. Clasp your hands together and rotate to the Right. Keep your back straight, slowly bend your head down and pull your shoulder blades apart to stretch the middle of your back. Perform on both sides.



REPS: 5 HOLD: 15 seconds 7 days a week Begin in standing. Raise arms with elbows straight and lean towards the side until a stretch is felt at the side of the waist. Perform on both sides.



#### Cervical Stretches



WATCH VIDEOS OF STRETCHES AT PAINREHABOFWNY.COM OFFICE: 716-446-5900 • FAX: 877-258-3640 1515 KENSINGTON AVE, BUFFALO, NY 14215

#### **NECK (CERVICAL) STRETCHES**

FROM PRATIBHA BANSAL, MD FT. SAMMY IRACI III, PT OF FAMILY CARE PHYSICAL THERAPY



REPS: 5 HOLD: 15 seconds 7 days a week Begin sitting. blades apart by using the arms to pull the shoulders forward to stretch the middle

Reach towards the floor but try not to bend at the low back. Slowly bend your head downwards and pull shoulder

REPS: 5 HOLD: 15 seconds 7 days a week

Begin sitting in a chair. Hold onto the chair with one hand while the other hand pulls the head to the side until a stretch is felt in the side of the neck. Perform on both



REPS: 5 HOLD: 15 seconds 7 days a week

Begin sitting in a chair. Reach towards the outside of your Left leg bending as far forward as you can. Slowly bend your head downwards to stretch the low and mid back. Perform on both sides.



REPS: 5 **HOLD: 15 seconds** 7 days a week

Begin sitting in a chair, Grasp the bottom of the chair with the Right hand. Use the Left hand to pull head to the Left while extending backwards and slightly rotating body to the Left. Perform on both



REPS: 5 HOLD: 15 seconds 7 days a week

Begin sitting in a chair. Rotate to the Left and use the Left hand to pull the Right shoulder towards the Left in a rotating fashion until blade and middle of the back. Perform on both sides.

head down until a stretch is

felt in the neck and mid back

between the shoulder blades.



REPS: 30 HOLD: 1 second 7 days a week

Begin standing near a wall. Place your finger tips on the wall with your elbow fully extended. Slow lean your body towards the wall until your entire hand is flush with the wall.

DO NOT hold this stretch for longer than one second. After one second lean back keep your finger tips touch. nerve which runs from your





## Lumbar Spine Exercises

Pratibha Bansal, MD Nitin Bansal, MD

Pain Rehab of WNY

#### **Lumbar Stretches**



## Thoracic Muscle Exercises

Pratibha Bansal, MD Nitin Bansal, MD

Pain Rehab of WNY



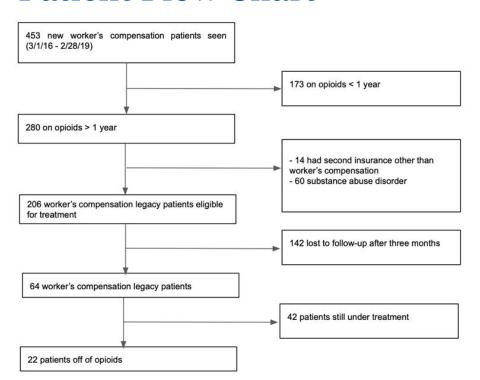
## Cervical Spine Exercises

Pratibha Bansal, MD Nitin Bansal, MD

Pain Rehab of WNY



#### **Patient Flow Chart**



64 patients completed course of care and were included in analysis

### Legacy Patients on opioid > 1 year

**Patient Demographics** 

Male	25
Female	39
Caucasian	31
Black	28
Other	5

453 Total WCB Patients

Did not meet eligibility	389
In study	64

Site of Pain

Lumbar	30
Cervical	4
Other	4
2 diagnoses	26

### Legacy Patients 64 wcb

Age started on opioids

Under 30	6
31-40	14
41-50	27
51-60	15
Over 60	2



### Legacy Patients 64 patients

Years on opioids prior to being seen

> 30 years	1
20-29 years	5
10-19 years	19
6-9 years	13
1-5 years	26



#### Results

- Average morphine milligram equivalents decreased from 76.3mg to 21.0mg post treatment
- 84% of patients decreased their opioid dose
- 34% completely weaned off opioids

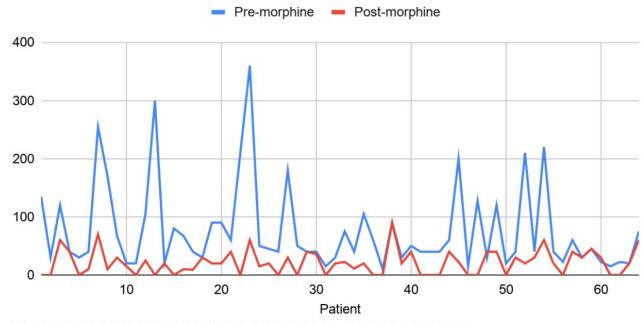


Figure 2: Individual Patient Morphine Milligram Equivalent Doses

### Legacy Patients 64 wcb

64 patients characteristics prior to being seen

Characteristics prior to being seen

Physical Therapy	57
Chiropractic Care	39
Pain Physician	51
Surgeon	54
Surgery prior to being seen (WCB related)	46
Pre-exam exercise	35



### Patient Symptoms and Medications

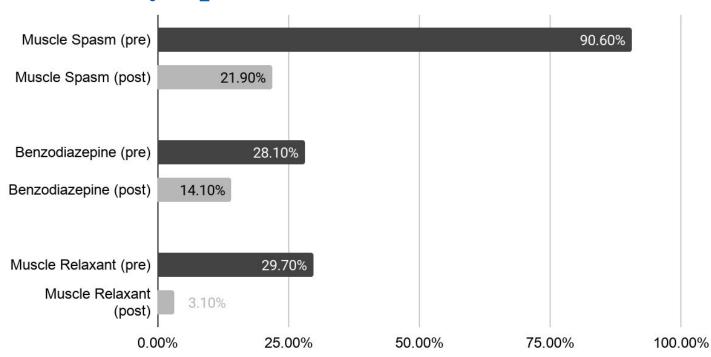


Figure 3: Bar graph of Pre and Post Treatment Symptoms and Medication Usage

### Legacy Patients 64 WCB

- 20 had improvement in walking
- 25 had improvement in standing
- 25 had improvement with sitting
- 5 went back to work



### Patient Demographics

- Average age was 54
- 59.6% of patients had been on opioids > 5 years
- 80% already received care with other pain providers and surgeons

Characteristics	Mean	SD
Age (year)	54.1	1.1
BMI (kg/m²)	32.7	7.7

	Frequency	Percentage
Gender Male Female	25 39	39.1 60.9
Ethnicity Caucasian African American Other	31 28 5	48.4 43.8 7.8
Prior Treatments Physical Therapy Exercise Surgery Chiropractic Therapy Pain Physician Care Surgeon's Care	57 35 46 39 51 54	89.1 54.7 71.9 60.9 79.7 84.4
Years on Opioids 1-5 6-9 10-19 20-29 ≥ 30	26 13 19 5 1	40.6 20.3 29.7 7.8 1.6
Age Started on Opioids ≤ 30 30-39 40-49 50-59 ≥ 60	6 14 27 15 2	9.4 21.9 42.2 23.4 3.1

#### Results

- Pain and function scores slightly improved
- Muscle relaxant and benzodiazepine use significantly decreased
- Employment rate significantly increased from 14% to 22%
- Interventional procedure rate decreased from 72% to 25%
- Muscle spasm rate decreased
   frame 04% to 02%

Outcome	Before Treatment	After Treatment	p-value
Daily Opioid Dose (Morphine Milligram Equivalent) Mean Median [interquartile range]	76.3 42.5 [30.0-90.0]	21.0 20.0 [3.0-34.5]	< 0.001
Numeric Rating Scale of Pain Intensity Mean Median [interquartile range]	7.0 7.5 [6.0-9.0]	6.7 7.0 [5.0-8.0]	0.122
Oswestry Disability Index Mean Median [interquartile range]	30.4 31.0 [27.0-37.0]	29.3 30.5 [23.5-37.5]	0.181
Muscle Spasm	58 (90.6%)	14 (21.9%)	< 0.001
Adjuvant Use of Muscle Relaxant	19 (29.7%)	2 (3.1%)	< 0.001
Use of Benzodiazepine	18 (28.1%)	9 (14.1%)	< 0.001
Actively Employed	9 (14.0%)	14 (21.9%)	0.024
Interventional Pain Procedures	46 (71.8%)	16 (25.0%)	< 0.001

#### Conclusion

- Physician led structured stretching exercise program can improve the outcomes of "legacy pain" patients
  - Leads to a reduction in opioid and non-opioid adjuvant medication use
  - Improvement in pain symptoms, such as muscle spasms
  - Improvement in employment rate
  - Decrease in interventional procedure rate
  - Improvement in pain and function scores
- In our limited resource health care system, this is a simple and cheap intervention that can have a real impact on patient care

### Legacy Patients (64 WCB)

- All the patients were started on a self directed home stretching exercise program to resolve the myofascial pain
- The patients are motivated to take control and regularly perform home exercise program that will address part of the pain
- Once pain starts to decrease the patients were encouraged to wean down the opiates at their own pace and other treatments for pain were initiated
  - 53 then underwent physical therapy
  - 16 had injections during treatment (48 had injections pre treatment)
  - 11 had surgery during treatment, 5 are scheduling surgery
  - 1 died of MI, 1 developed ALS and stopped working



#### PAIN REHAB OF WESTERN NY



#### Effect of a Structured Stretching Exercise Program on Resolution of Myofascial Pain and Opioid Usage in "Legacy Pain" Patients: A Retrospective Review American Society of Regional Anesthesia and Pain Medicine: 19th Annual Pain Medicine Meeting

Prashant Rao MD1, Nitin Bansal MD1, Richard Blondell MD2, Pratibha Bansal MD2

Department of Anesthesiology. New York Presbyterian/Weili Cornell Medical Center; Department of Family Medicine, Jacobs School of Medicine and Biomedical Sciences. University of Buffalo

#### Introduction

- Long term opioid therapy became the standard approach to managing chronic musculoskeletal pain in the late 1990's despite a lack of high-quality data on benefit and harm (1). The rising rates of deaths from opioid overdoses has led to new guidelines discouraging opioid prescriptions for chronic pain and has recommended tapering of opioid dosages (2).
- Unfortunately, there has been a large cohort of patients known as "legacy pain" patients who have been maintained on high doses of opioids for long periods of time. There is limited evidence regarding the treatment of these "legacy pain" patients with regards to reduction in pain, improvement in function and weaning down of opioids, and physicians are unclear of the best ways to manage these
- · Studies have demonstrated that a large portion of "legacy pain" patients suffer from a myofascial component to their pain (4-6). Myofascial pain is defined as pain that originates from myofascial trigger points in skeletal muscle (7.8). This type of pain is commonly thought to be treated well with non-opioid techniques such as exercise, physical therapy and other non-opioid pharmacologic therapies (9.10).
- · The goal of this study was to determine specifically if a structured exercise stretching routine targeted at myofascial pain is effective in improving the outcomes of "legacy pain" patients.

#### Patients and Methods

- · Patients: A retrospective review was conducted of "legacy pain" patients seen in a private community based interventional pain management practice in Buffalo. New York from 2016 to 2019, "Legacy pain" patients were defined as those taking opioids for greater than one year prior to their first appointment. The inclusion criteria for this study were patients who were greater than 18 years of age, were taking opioids for greater than one year, were on worker's compensation, and had a diagnosis of chronic pain. The study was restricted to worker's compensation patients in an attempt to further homogenize the cohort. Patients were excluded if they had substance use disorders due to future restrictions in prescribing opioids.
- · Intervention: All patients were taught a structured stretching exercise program at their first appointment with a focus on areas of myofascial trigger points. The stretching program consisted of 14 lumbar, 4 thoracic, and 7 cervical stretches as appropriate. The patients were asked to hold these exercises to the point of stretch, not pain, for five repetitions of 15 seconds twice daily. Follow-up visits were planned within two weeks of initial consultation and monthly thereafter when possible. In addition to the stretching routine all patients were started in physical therapy, Non-opioid adjuvants (nonsteroidal anti-inflammatories, muscle relaxants, benzodiazepines, antidepressants, and anticonvulsants) and interventional pain treatments were continued, added or discontinued at provider's discretion. At the follow-up visits the exercise stretching routine was monitored and corrections were made. Patients also underwent a physical exam and monitoring of

#### Results



The review resulted in 453 new worker's compensation patients seen between March 2016 and February 2019. Of these patients, 204 met the full inclusion criteria of the study, and of this group, 64 (31.4%) patients proceeded with treatment and were included in analysis (Figure 1). The average age of the cohort was 54.1 years and 60.9% were female (Figure 2).

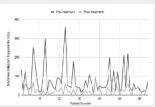


Figure 3. Morphine milligram equivalent (MME) pre- and

Non-opioid exercise techniques decreased the incidence of muscle spasms (decreased from 90.6% to 21.9% post treatment, p < 0.001), intake of benzodiazepines (decreased from 28.1% to 14.1% of patients post treatment, p < 0.001) and usage of muscle relaxants (decreased from 29.7% to 3.1% of patients post treatment, p < 0.001, Figure 4). Body mass index did not significantly change in this cohort (p = 0.27), however, the number of patients who returned to work significantly increased from its original level of 14.0% to 21.9% post treatment (p = 0.024, Figure 4), Interventional procedure rates decreased from 71.8% of patients to 25.0% of patients during treatment (p < 0.001, Figure 4).

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Figure 2. Patient demographics and characteristics at initial evaluation (n=64)

Exercise techniques reduced MME intake on average from 76.3 mg to 21.0 mg daily (p < 0.001, Figure 2) with 84.4% of patients decreasing their total opioid dose (p < 0.001) and 34.4% of patients being completely weaned off of opioids (p < 0.001, Figure 3). This reduction of MME did not increase average NRS pain scores (average pretreatment NRS pain score of 7.0, average post treatment NRS pain score of 6.7, p = 0.122, Figure 4). Furthermore, reducing opioids with exercise techniques did not adversely affect patient function (average pretreatment ODI score of 30.4, average post treatment ODI score of 29.3, p = 0.181, Figure 4).

Outcome	Bebre Treatment	After Treatment	pvalue
Delir Opiciel Dose (Morphine Millignern Equivalent)	*1	310	× 0.001
Median (Interquantile range)	424 (20.0-00-0)	21.0 (2.0 set)	4 00001
surrenc Reining Scient of their intensity			
Meen Median [intersuantile range]	7.5 (KG-9.0)	1.0 [6.0-4.0]	0.122
Opwesto, Disability Index			
Mean Merias (interscanile range)	31.6 (27.6-37.6)	20.3 St. 62.50	0.181
Auxie Speum	50 (90.6%)	14 (21.2%)	+ 0.001
djivan Use of Murcie Relevant	19 (29.7%)	2 (3.1%)	< 0.001
se of Benzodiazegne	18 (28.1%)	9 (14.1%)	< 0.001
rtirely Employed	8 (94.0%)	14 (71 8%)	0.034
nterventorus Pain Froordures	49 (71.8%)	15 (25.7%)	< 0.001

#### nstitution of the structured exercise program

#### Discussion

- The results of this study demonstrate that integrating a structured exercise stretching program that focuses on the resolution of myofascial pain improves the outcomes of "legacy pain" patients. Patients in this study significantly reduced their daily opioid, muscle relaxant, and benzodiazepine use and had a significant decrease in pain symptoms, such as muscle spasms. Furthermore, reducing their medications did not adversely impact their NRS pain or ODI function scores, and instead trended towards improving these outcomes.
- The potential economic impact of the outcomes of this study cannot be overstated. higher risk of hospitalization, substance use disorder, and more frequent health care utilization (2,14,15). With the addition of a simple intervention such as stretching that focuses on myofascial pain, not only were opioid doses significantly reduced, but health care costs also decreased, as medication and interventional pain treatments were significantly reduced. Additionally, given the restriction to worker's compensation insurance in this study, the demographics of patients were significantly skewed towards initiation of long term opioid therapy prior to the age of sixty (96.9% of patients), of which only 14.0% of patients were employed at the initiation of treatment, and this improved to 21.9% of patients post-treatment. These results are corroborated by previous studies that have demonstrated that musculoskeletal pain is the most common reason for lost workdays (16). Thus, the addition of a structured exercise stretching regimen that focuses on myofascial pain is an inexpensive intervention that can have a positive impact on both patient outcomes and health care costs and utilization as a whole.
- One main limitation of this study is that there was a high initial drop-out rate, as only 31.4% of patients continued their course of care. The exercise-based philosophy for treatment of chronic pain was explained at the patient's first visit. and many patients dropped out early as they were skeptical that exercise could decrease their longstanding pain. Secondly, "legacy pain" patients had a high surgical rate, both related and unrelated to their worker's compensation chronic pain, which precluded 16 patients from completing the exercise program

ratively. Another limitation of the study was that it was underpowered to perioperatively. Another initiation being included in the elicit full statistical associations with only 64 patients being included in the and Expendence Recommendation of Transport Per III Mydastel Pain Peln Medicine, 2015 July 18(7):1202-1209 Conclusion: The addition of a structured stretching exercise program focusing on the resolution of the involvectal pain in the real ment for legacy pain batients was shown to significantly reduce and often discontinue optoid use without adversely া affecting pain score or functionality. It decreased the incidence of muscle spasms, নানা বিষয়ে তাৰ Switch and Switch and Switch and Incidence of muscle spasms, নানাবিদ্ধ of benzodiazepines and muscle relaxants and need for interventional pain ensen MP, Tumer JA, Romano JM, Fisher LD. Comparative reliability and validity of chronic pain intensity measures. Pain, 1999 Nov. 83:157-82. work with in easily applicable intervention.

### Myofascial Pain

MYTH about TEACHING PATIENTS EXERCISE

- 1. Very time consuming, we do not have time to teach
- 2. I will send them to a physical therapist
  - Copays too expensive
  - 10-12 sessions per year allowed by insurance company

PATIENTS WILL NOT DO IT, THEY ONLY WANT PAIN PILLS





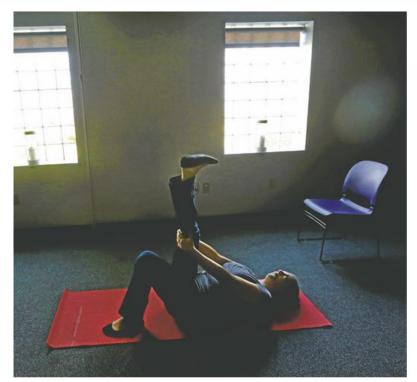
# Medical Practitioner can easily teach exercises to the patient

- Good support system
- Easily able to explain to the patient
- It takes 1 minute to teach the exercises



- JC 34yr old (1982) First seen 5/2016. Hurt back 2005 LS surgery x2
- The pain in the back is constant it is a sharp, shooting, burning pain aggravated by walking, bending, coughing. It is relieved by resting lying down and medications. It radiates down the legs to the right and left ankle and is associated with tingling numbness in the toes. It is associated with weakness in the right and left leg trips on her right leg. No cane. There is muscle spasm in the back and leg and she does not exercise at home.
- PP 5 years oxycodone er 20 mg bid,oxycodone 15 mg qid, diazepam 5 mg tid

- Stretching regimen and in 2 week follow up stated the leg cramps were better,
- TENS unit also prescribed.
- Physical Therapy
- Patient's off opioid in --7 months
- Result: She is off opioids, benzodiazepine, anticonvulsant
- Married, bought a house and is back to work full time.



ROBERT KIRKHAM, BUFFALO NEWS

Jessica Corcoran, of Lancaster, stretches at Pain Rehab of WNY in 2017. "I am still off all medications and continue to remain pain free thanks to practicing yoga," she says.



### JC 34 yr old 1982

08/18/2017 10/16/2017 lyrica 25 mg capsule 120 30 Bansal, Pratibha 09/07/2016 01/30/2017 lyrica 225 mg capsule 60 30 Bansal, Pratibha 09/07/2016 01/04/2017 lyrica 225 mg capsule 60 30 Bansal, Pratibha 12/21/2016 12/22/2016 hydrocodone-acetaminophen

5-325 mg tablet 120 30 Bansal, Pratibha

12/21/2016 12/22/2016 tramadol hcl 50 mg tablet

120 30 Bansal, Pratibha

09/07/2016 12/01/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha

11/30/2016 12/01/2016 hydrocodone-acetaminophen

7.5-325 mg tablet 120 30 Bansal, Pratibha

11/02/2016 11/03/2016 oxycodone-acetaminophen

5-325 mg tab 120 30 Bansal, Pratibha

09/07/2016 11/02/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha

10/05/2016 10/06/2016 oxycodone-acetaminophen

5-325 mg tab 120 30 Bansal, Pratibha

09/07/2016 10/03/2016 lyrica 225 mg capsule

60 30 Bansal, Pratibha

09/07/2016 09/08/2016 oxycodone-acetaminophen

5-325 mg tab 120 30 Bansal, Pratibha

09/07/2016 09/08/2016 lyrica 225 mg capsule

60 30 Bansal, Pratibha

06/09/2016 09/07/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha

08/08/2016 08/08/2016 oxycodone-acetaminophen

7.5-325 mg tablet 120 30 Bansal, Pratibha

06/09/2016 08/08/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha

06/09/2016 07/08/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha

07/07/2016 07/08/2016 oxycodone-acetaminophen

10-325 mg tab 90 30 Bansal, Pratibha

06/15/2016 06/21/2016 oxycodone hcl er 10 mg tablet 60 20 Bansal, Pratibha

06/09/2016 06/13/2016 oxycodone-acetaminophen 10-325 mg tab 90 30 Bansal,

Pratibha MD

06/09/2016 06/13/2016 lyrica 225 mg capsule 60 30 Bansal, Pratibha MD

05/26/2016 05/29/2016 oxycodone hcl er 10 mg tablet 60 20 Bansal, Pratibha MD

05/22/2016 05/25/2016 lyrica 150 mg capsule 60 30 Bansal, Pratibha MD

04/26/2016 05/03/2016 oxycodone hcl er 20 mg tablet 90 30

04/26/2016 05/01/2016 oxycodone hcl er 20 mg tablet 9 30

04/22/2016 04/27/2016 oxycodone hcl 15 mg tablet 120 30

04/22/2016 04/25/2016 diazepam 5 mg tablet 90 30

03/09/2016 04/10/2016 lyrica 150 mg capsule 90 30



# ML 56 yr old with back pain, shoulder, stasis ulcers 20 years

- The pain in the back 8/10 is not constant it is a aching pain aggravated by walking, bending, It
  radiates down the legs to the right ankle and is not associated with tingling numbness. It is
  associated with weakness in the right leg and it gives out. She uses a cane. muscle spasm in
  the back and leg and she does some exercise
- TENS unit was not tried.
- She has not had physical therapy, chiropractic treatments and injections. Psychological issues --anxiety sees a--psychologist.
- Had blood clots in the legs with ulcers--self care-wound care.
- on hydrocodone initially, switched to methadone 40 mg/ day for 15- 20 years

# ML 56 yr old with back pain, shoulder, stasis ulcers 20 years

- Tx Treated with back exercises,
- biking with peddler bike to improve circulation
- Wound care
- Results: More active, off methadone, ulcers have healed
- Back to work
- Could walk on the sandy beach for the first time in 20 years





Search Terms: m I, 08/14/1966 Search Date: 01/03/2019

Sex: Female

Rx Written Rx Dispensed Drug Quantity Days Supply Prescriber Name 11/20/2018 12/03/2018 methadone hcl 5 mg tablet 30 30 Bansal, Pratibha 10/15/2018 10/30/2018 methadone hcl 5 mg tablet 30 30 Bansal, Pratibha 09/13/2018 09/20/2018 methadone hcl 5 mg tablet 30 30 Bansal, Pratibha 08/16/2018 08/20/2018 methadone hcl 5 mg tablet 60 30 Bansal, Pratibha 07/19/2018 07/20/2018 methadone hcl 5 mg tablet 60 30 Bansal, Pratibha 06/21/2018 06/22/2018 methadone hcl 5 mg tablet 60 30 Bansal, Pratibha 04/30/2018 05/15/2018 methadone hcl 10 mg tablet 60 30 Bansal, Pratibha 04/18/2018 04/20/2018 methadone hcl 5 mg tablet 50 17 Bansal, Pratibha 02/27/2018 03/01/2018 methadone hcl 5 mg tablet 90 30 Bansal, Pratibha 01/16/2018 01/16/2018 methadone hcl 5 mg tablet 90 30 Bansal, Pratibha 11/05/2017 12/07/2017 methadone hcl 5 mg tablet 90 30 Bansal, Pratibha 11/07/2017 11/07/2017 methadone hcl 5 mg tablet 90 30 Bansal, Pratibha 11/07/2017 11/07/2017 methadone hcl 5 mg tablet 90 30 Bansal, Pratibha

11/28/2016 11/29/2016 methadone hcl 10 mg tablet 120 30 10/27/2016 10/27/2016 methadone hcl 10 mg tablet 120 30 09/26/2016 09/27/2016 methadone hcl 10 mg tablet 120 30 08/23/2016 08/27/2016 methadone hcl 10 mg tablet 120 30



The longer the patient is inactive and longer on opioids, the gentler the starting exercise program

#### JM 32 Year Old

- Initial oxycodone age 18 after dental work
- on opioids, street drugs/ methadone since age 18, back surgeries--2 numbness weakness in the legs
- Depressed, no PT, one epidural did not help
- · pain practices SCS suggested could not pass MMPI test

#### JM 32 Year Old

- Exercises, PT
- Epidural injections, RF facet nerves
- depression better, wean down over all feels better
- Cleared MMPI, Permanent SCS placed
- Back to full time job
- Weaning off methadone went back to addiction medicine



### Others' Prescriptions

Patient Name: J M Birth Date: 07/06/1986

1Sex: Female

Rx Written Rx Dispensed Drug Quantity Days Supply Prescriber Name Payment Method Dispenser 2020/02/10 2020/02/19 methadone hcl 10 mg tablet 75 25 Danzi, Bryan Insurance Walgreens #3288 2020/01/13 2020/01/22 methadone hcl 10 mg tablet 75 25 Danzi, Bryan Insurance Walgreens #3288 2019/12/02 2019/12/19 methadone hcl 10 mg tablet 84 28 Danzi, Bryan Insurance Walgreens #3288 2019/11/04 2019/11/19 methadone hcl 10 mg tablet 84 28 Azadfard, Mohammadreza Insurance Walgreens #3288 2019/10/07 2019/10/17 methadone hcl 10 mg tablet 84 28 Azadfard, Mohammadreza Insurance Walgreens #3288 2019/09/09 2019/09/13 methadone hcl 10 mg tablet 90 30 Danzi. Bryan Insurance Walgreens #3288 2019/08/12 2019/08/15 methadone hcl 10 mg tablet 84 28 Azadfard. Mohammadreza Insurance Walgreens #3288 2019/07/15 2019/07/15 methadone hcl 10 mg tablet 90 30 Azadfard, Mohammadreza Insurance Walgreens #3288 2018/09/06 2019/07/10 blue capsules 5mg thc and less than 0.5 mg cbd/capsule 60ct 1 30 Dzielski, Deborah L Cash Terradiol Ny - Buffalo 2019/06/27 2019/07/03 methadone hcl 10 mg tablet 36 12 Azadfard, Mohammadreza Insurance Walgreens #3288 2018/09/06 2019/07/02 green extra strength capsules 9.5 mg thc and 9.5 mg cbd/cap 1 15 Dzielski, Deborah L Cash Pharmacann Llc-Amherst 2018/09/06 2019/06/22 green 5mg thc and 5mg cbd/capsule 1 20 Dzielski. Deborah L Cash Terradiol Ny - Buffalo 2018/09/06 2019/06/22 blue extra strength capsules 9.5 mg thc and <0.5 mg cbd/cap 1 20 Dzielski, Deborah L Cash Terradiol Ny - Buffalo 2019/06/05 2019/06/06 methadone hcl 10 mg tablet 81 27 Mcmorrow, Robert P Insurance Walgreens #3288 2018/09/06 2019/05/30 blue capsules 5mg thc and less than 0.5 mg cbd/capsule 60ct 1 30 Dzielski, Deborah L Cash Terradiol Ny - Buffalo 2019/05/06 2019/05/07 methadone hcl 10 mg tablet 90 30 Mcmorrow, Robert P Insurance Walgreens #3288 2018/09/06 2019/05/06 blue capsules 5mg thc and less than 0.5 mg cbd/capsule 60ct 1 15 Dzielski. Deborah L Cash Pharmacann Llc-Amherst 2018/09/06 2019/04/15 blue capsules 5mg thc and less than 0.5 mg cbd/capsule 60ct 1 15 Dzielski, Deborah L Cash Pharmacann Llc-Amherst 2018/09/06 2019/04/15 blue extra strength capsules 9.5 mg thc and <0.5 mg cbd/cap 1 15 Dzielski, Deborah L Cash Pharmacann Llc-Amherst 2019/04/08 2019/04/08 methadone hcl 10 mg tablet 70 28 Mcmorrow, Robert P Insurance Walgreens #3288 2018/09/06 2019/03/25 blue capsules 5mg thc and less than 0.5 mg cbd/capsule 60ct 1 15 Dzielski, Deborah L Cash Pharmacann Llc-Amherst 2018/09/06 2019/03/25 blue extra strength capsules 9.5 mg thc and <0.5 mg cbd/cap 1 15 Dzielski, Deborah L Cash Pharmacann Llc-Amherst 2019/03/11 2019/03/11 methadone hcl 10 mg tablet 56 28 Mcmorrow, Robert P Insurance Walgreens #3288

## SP May 2018

- 67 year old, 3/23/83 injury to neck and back --crush injury to testicles10-12 surgeries--
- Morphine 300 mg/day acupuncture q 2 weeks groggy, bedridden 20 years
- Tx exercise program, physical therapy, lyrica
- Results In 3 months off opioid walks 20 miles/ week took 1st vacation, started driving, take his
  wife out for dinner

### SP 67

8/8/18--off opioids-walks 20 miles/ week, doing exercises at home, went for PT, will start driving

07/31/2018 lyrica 75 mg capsule 120

07/28/2018 flurazepam 30 mg 30

07/25/2018 morphine sulfate ir 15 120

06/29/2018 morphine sulf er 15 mg 120

06/16/2018 morphine sulf er 30 mg tablet 60

05/31/2018 lyrica 75 mg capsule 60

morphine sulf er 60 mg tablet 50, First Visit

05/10/2018 morphine sulf er 100 mg tablet 90 30

04/26/2018 04/28/2018 flurazepam 30 mg capsule 90 90

04/05/2018 04/10/2018 morphine sulf er 100 mg tablet 90 30

02/28/2018 03/10/2018 morphine sulf er 100 mg tablet 90 30

02/08/2018 02/08/2018 morphine sulf er 100 mg tablet 90 30



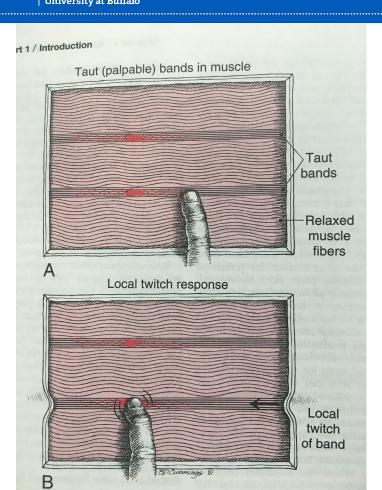


JOSHUA BESSEX, BUFFALO NEWS

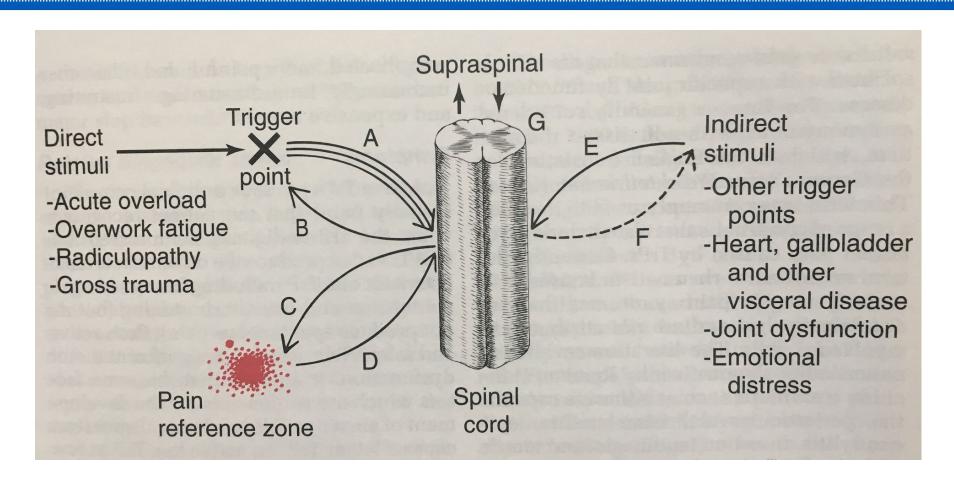
Sam Puma, right, walks alongside Bruce Crockett, left, and Frank Meredith, center, through Como Lake Park on Oct. 8. Puma was bedridden for more than 20 years before Dr. Pratibha Bansal weaned him off painkillers six years ago.

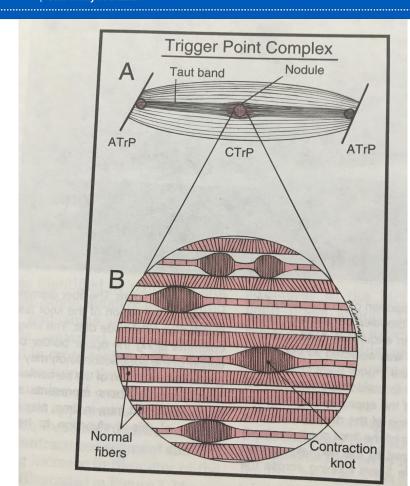
Need to give patient modalities to decrease pain

Control over weaning as their pain decreases

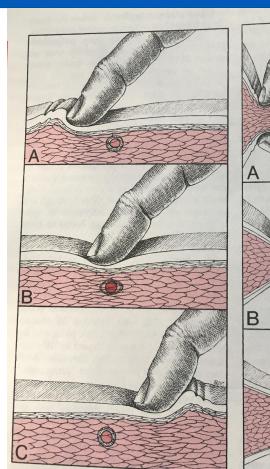


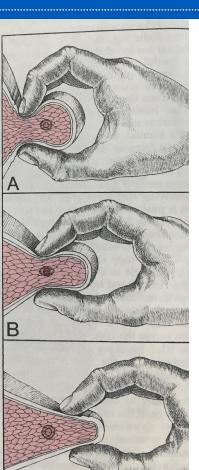




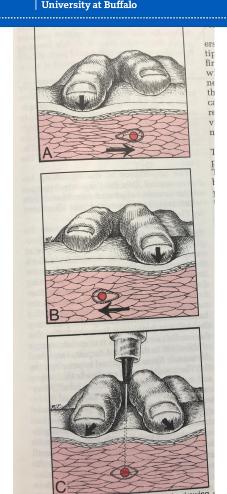






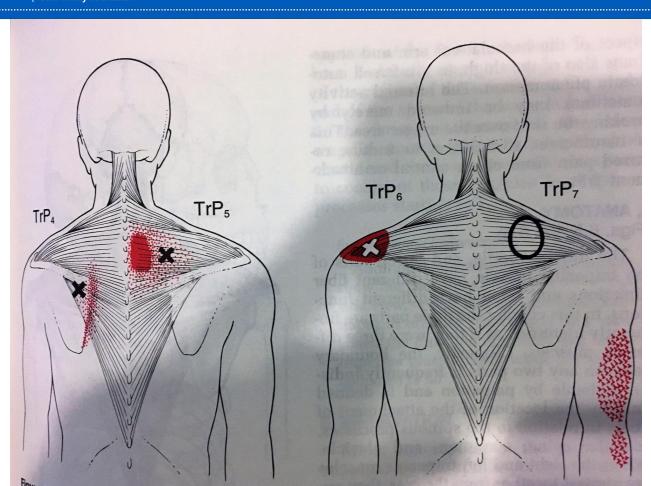


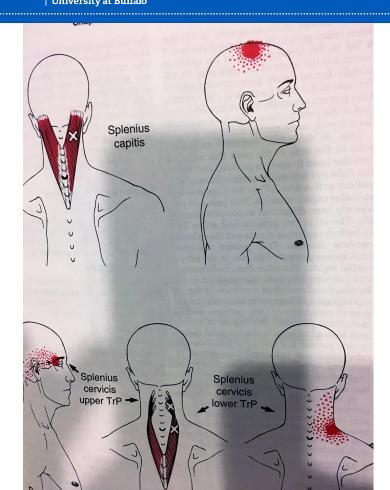




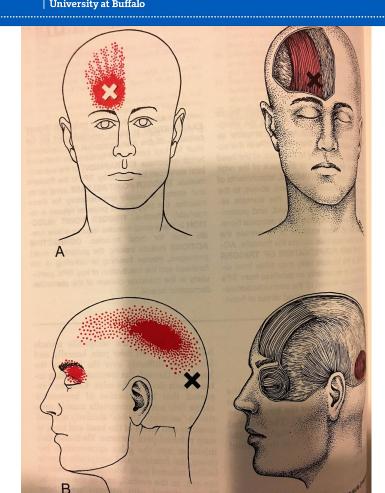


Opioids are not indicated for myofascial pain.

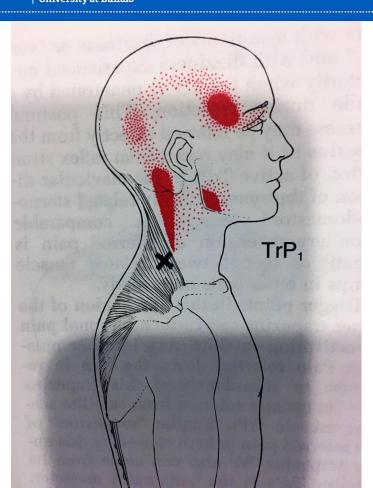




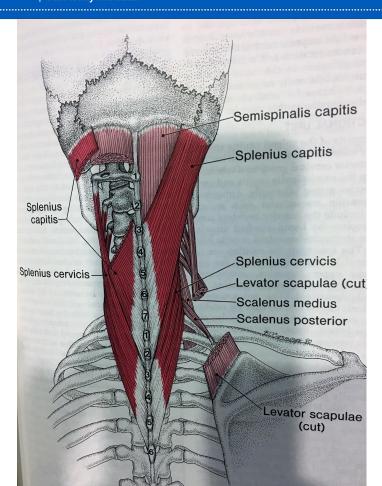






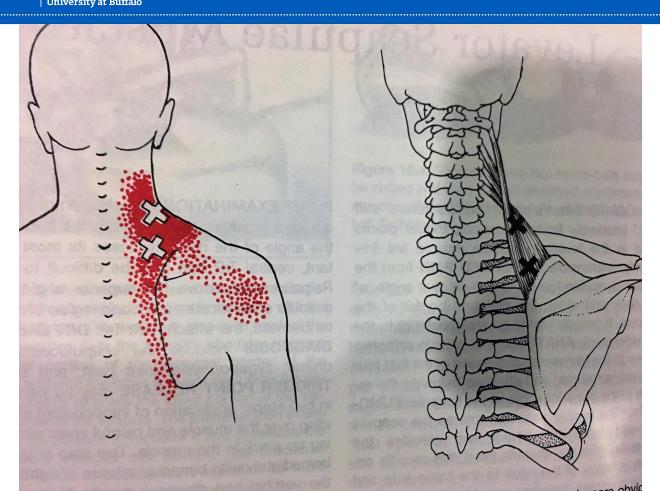


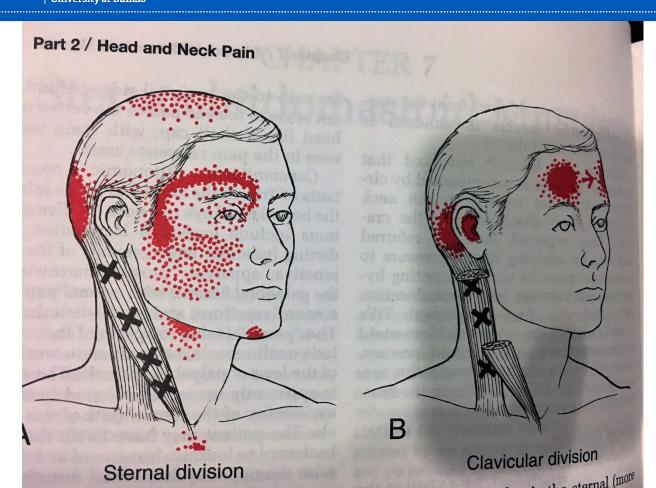


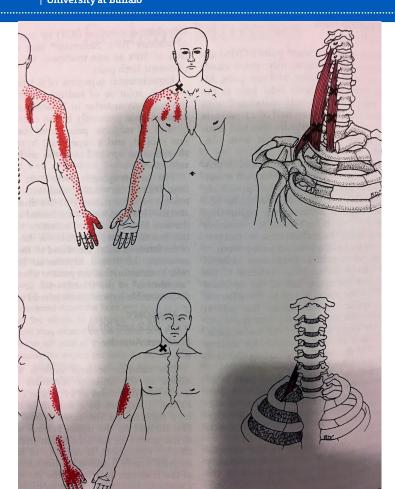






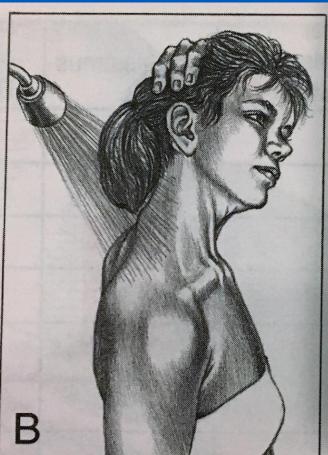


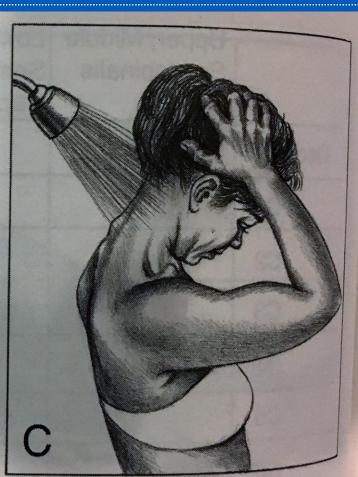


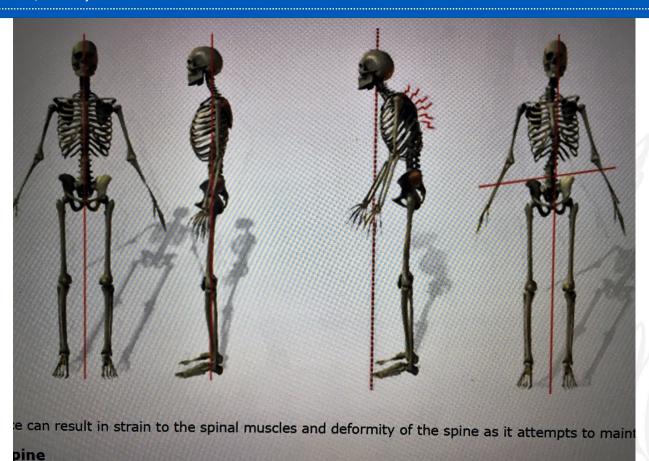


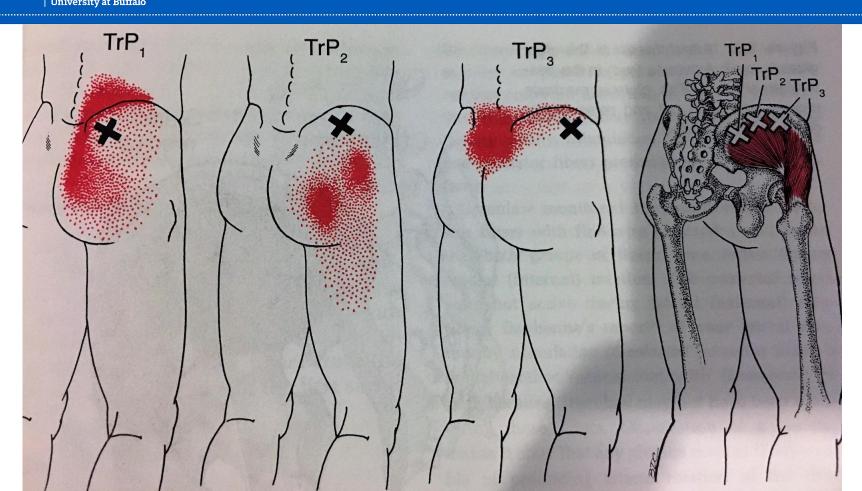


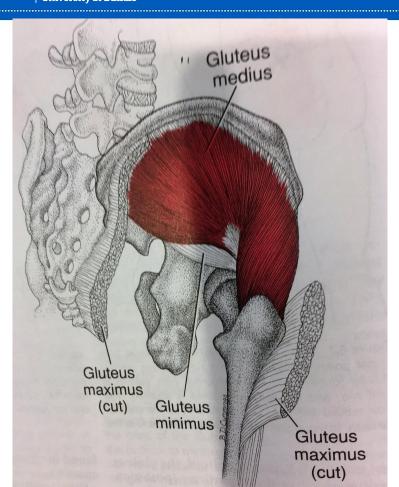




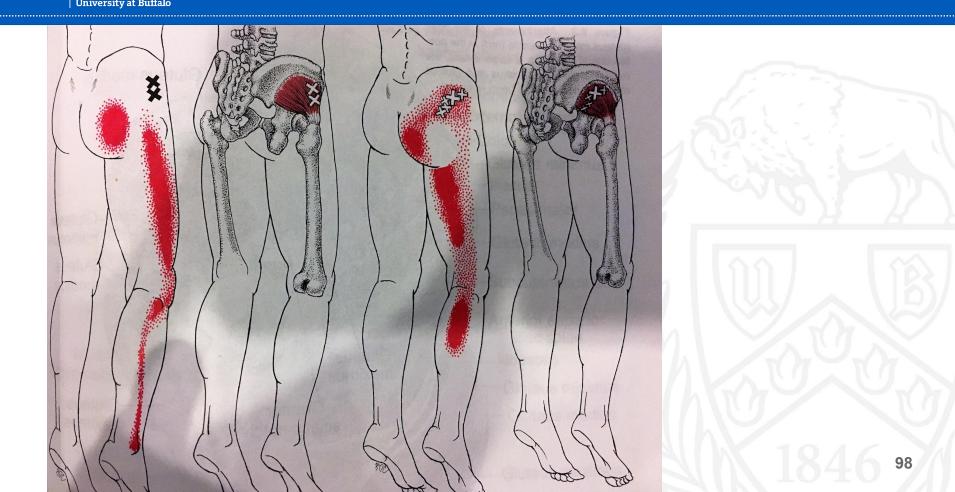


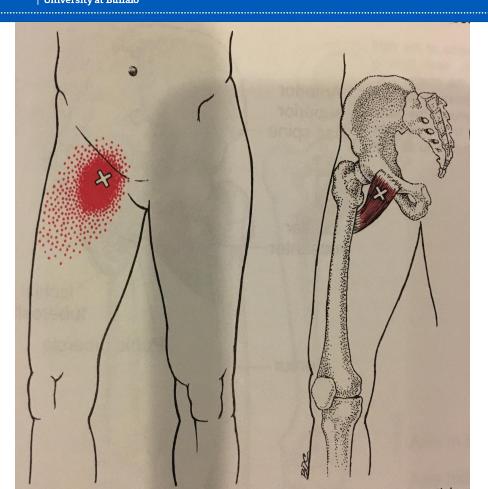














#### Iliopsoas

Also known as the psoas muscle, the iliopsoas is actually a combination of two large muscles: the psoas major muscle originates in the lower back; the iliacus originates on the inside of the pelvis. Both muscles combine to form one tendon that attaches to the inside of the proximal femur bone.

#### psoas major



way to the femur. Like other pulley systems, this serves to multiply the force generated when the iliopsoas contracts. The iliopsoas thus moves the bones of the lower back, pelvis and hip in a coupled fashion. This means that when it contracts, a combination of movements across several joints is possible.

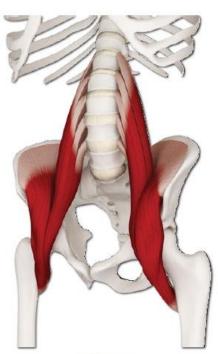
iliacus



The iliopsoas first awakens during infancy when we are learning to sit up and then to walk. Once awakened, the iliopsoas becomes constantly active in activities such as standing and walking. In spite of this constant use, our awareness of the iliopsoas quickly becomes unconscious. (Imagine if we had to think every time we took a step!)

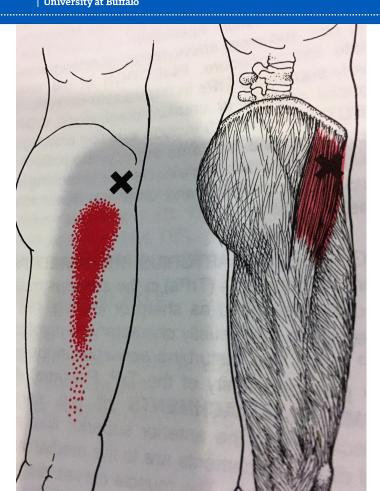
The iliopsoas is thus called polyarticular. This means that it crosses over (and moves) more than one joint. The iliopsoas also acts like a pulley as it curves over the front rim of the pelvis on its

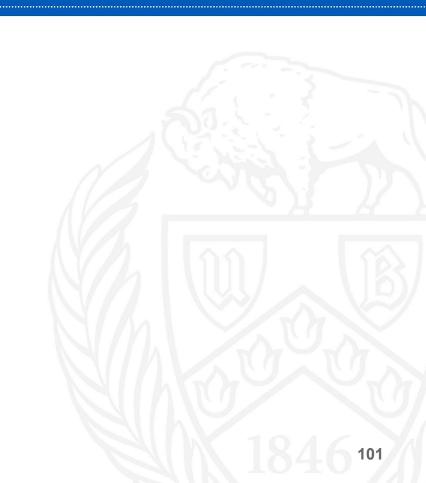
Hatha yoga can be used to reawaken our consciousness of this large and important muscle. Once you awaken the iliopsoas, contract or relax it to transform and deepen your asanas.





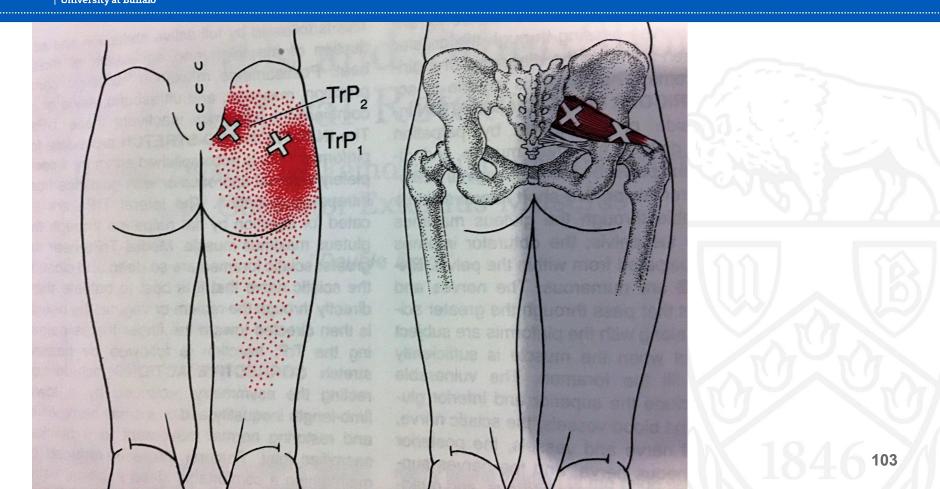


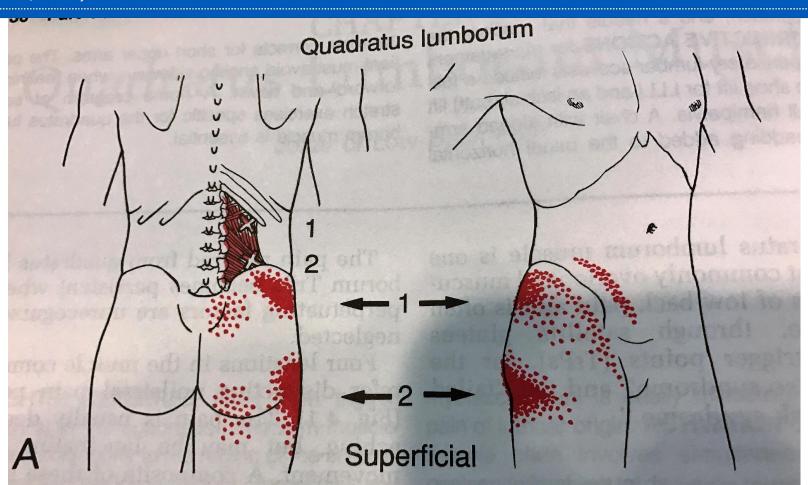




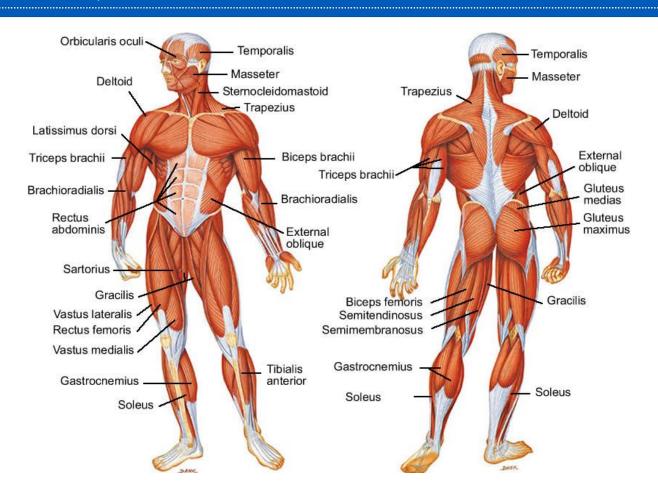




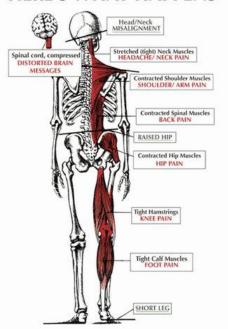








#### HERE'S WHAT HAPPENS



**BODY IMBALANCE** 

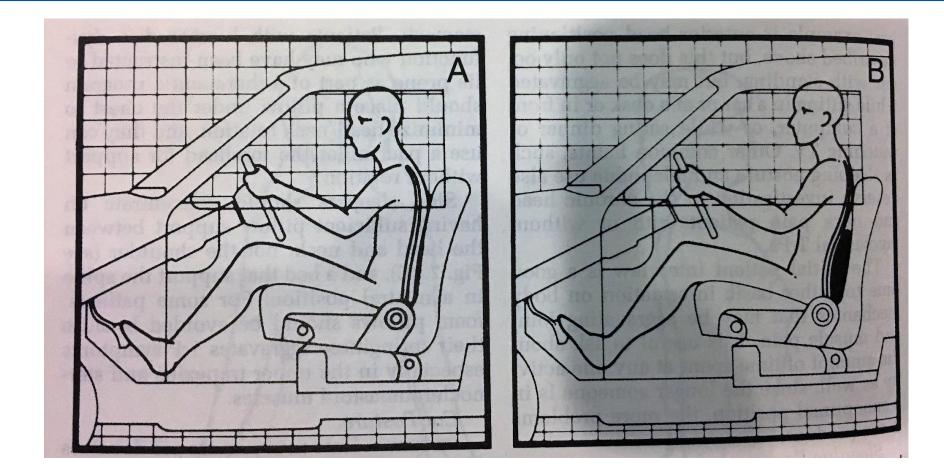
When the head (10-14 lbs.) is shifted off the center of the top of the neck, the rest of the body will compensate for the shift of weight.

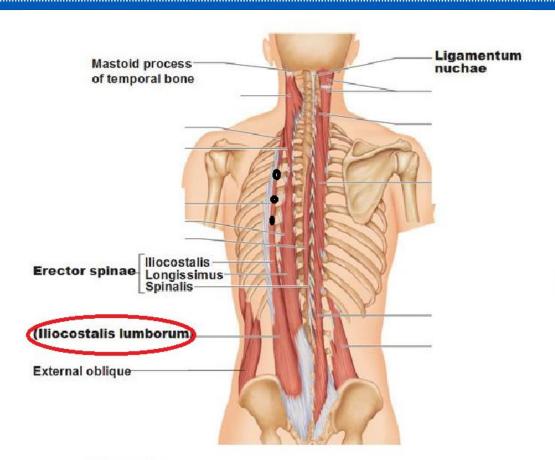
The spine and pelvis will twist causing one shoulder to drop down, one hip to be pulled up, bringing the leg with it to create body imbalance.

The stress and tension on the muscles can cause pain anywhere in the body.

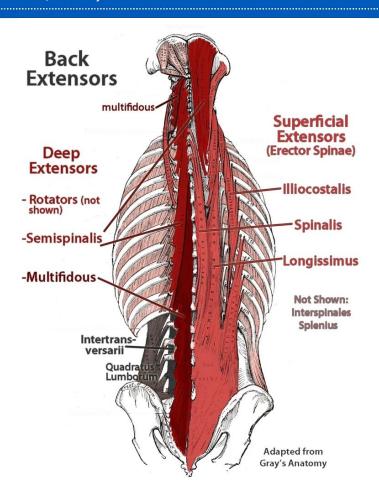
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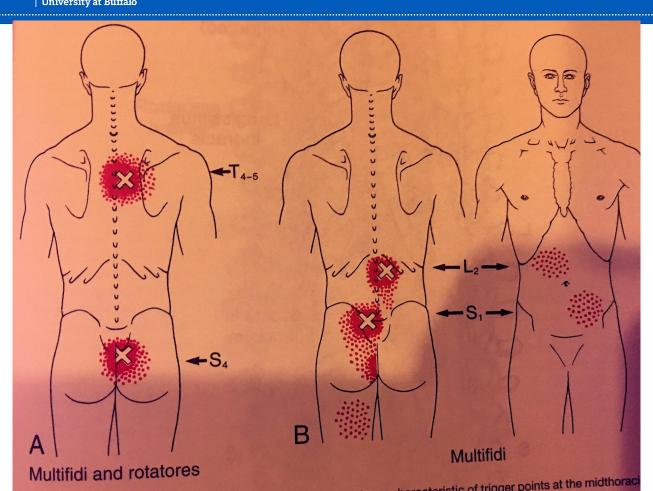












## Home exercise program daily



## Myofacial Pain

- Opioids
- Muscle relaxants
- Trigger point injections
- Are not the first line of treatment of choice for these cases



# Low Back Treatment – 95% Improved With Exercise and/or Physical Therapy

## ISSUES WITH PHYSICAL THERAPY NOW

- Not all physical therapist know myofascial release
- TREAT ONLY ONE PART AT A TIME
- CO PAYS (CANNOT AFFORD IT)
- ONLY 10-12 SESSIONS COVERED PER YEAR
- PMD should reinforce continued long term home exercise program



## Work hardening acces V-R



# Elderly

- Posture correction
- Walker





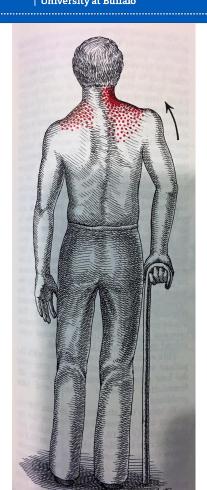














## Wall Exercise

Back of Head

Shoulders square

Space at small of back

**Buttocks touching** 

**Heels touching** 



## **Sway Back Posture**



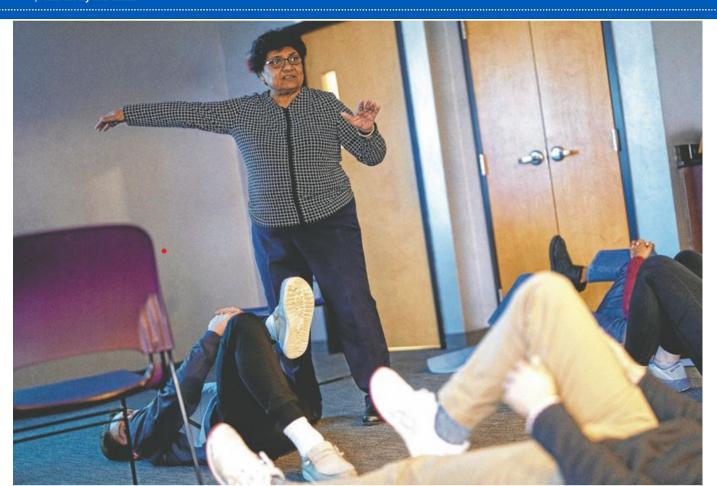




## Referring Physician

- What is the training what is in their armaments
- Only medications
- Only injections
- Is function being monitored q 3 months
- Get another opinion
- Missed diagnosis ???







- Blaming the pharmaceutical company
- Blaming the patients
- Treat patients as addicts with methadone and suboxone







The Journal of Pain, Vol 25, No. 10 (October), 2024: 104620 Available online at www.jpain.org and www.sciencedirect.com

# Examining the Relationship Between Chronic Pain and Mortality in U.S. Adults



B. Michael Ray,\* Kyle J. Kelleran, Jesse G. Fodero, and Lindsey A. Harvell-Bowman Department of Health & Human Sciences, Bridgewater College, Bridgewater, Virginia, Department of Emergency Medicine, University at Buffalo, New York, Department of Orthopedics and Sports Medicine, University at Buffalo, Buffalo, New York, School of Communication Studies, James Madison University, Harrisonburg, Virginia

- 20% reported CP and 8% High Impact Chronic pain HICP,
- higher mortality rates than pain-free individuals
- CP: 5.55% 2 Times
- HICP:8.79% 2.5 Times
- (HICP, 1 major activity restriction, such as work, social, or self-care),
- White, older adults, females, married, and residing in the southern region
- Total patients 245,899,776

## Solution?

- Graduate healthcare programs should consider curriculum redesign to incorporate pain-specific course(s) aimed at updating pain models and emphasizing evidence-based practices for the assessment and management of CP conditions
- 80% of U.S.medical curricula lack formal pain education as required courses or electives







The Office of the Vice President for Health Sciences (OVPHS) invites faculty across UB's units to submit proposals for innovative research in pain management.

**Purpose:** The goal of this funding opportunity is to facilitate the expansion of medical education so that physicians have the appropriate foundation of clinical skills needed to prevent iatrogenic opioid use disorders (OUD) among their panel of patients and to manage patients who have developed an OUD. This typically involves a comprehensive approach.

#### POTENTIAL RECIPIENTS OF PROPOSED EDUCATIONAL INTERVENTION

- 1. Medical students,
- Residents and fellows: family medicine, internal medicine, emergency medicine, rheumatology, neurology etc.
- Physicians and other medical practitioners in Erie County

#### BACKGROUND

The opioid epidemic has caused widespread harm, porticularly for individuals with chronic pain disorders who may also develop opioid use disorder (OUD). There is an urgent need for strategies to prevent OUD, especially in these patients, and to support those who have developed an intragenic OUD.

### ABOUT DR. PRATIBHA BANSAL

Dr. Bansal was Western New York's first fellowship-trained, board-certified interventional pain management specialist, 1983. Dr. Bansal served as Medical Director of Pain Services at Milliand Fillmore Hospital and founded Pain Rehab of Western New York, until retiring June 2024. She revolutionized pain management education by training anesthesiologists, nurses, pharmacists, and surgeons while rating public awareness about this amerging specialty. She served as a Clinical Assistant Professor at the university and faught primary care physicians, UB Family Practice residents, pain fellows and UB medical students and has mentorer high school students in Buffalo Publis conductions.