

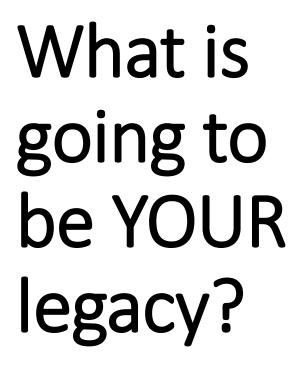
The Cost-Effectiveness Paper...Now What?







Presented by Dr. Ronald J. Farabaugh CEO-www.chiro-consulting.com





Forgiveness

Guardian

About Dr. Farabaugh

- Past President-Central Ohio Chiropractic Association
- Past President-Ohio State Chiropractic Association (OSCA) 1996-1997
- Past President: Ohio State Chiropractic Board 2012-2013
- Appointed by **Governor's Voinovich and Strickland** for various committees and positions.
- Founder: ChiroLtd and Chiropractic Bootcamp seminars
- Past Chairman-The **Clinical Compass** (formerly the Council on Chiropractic Guidelines and Practice Parameters (CCGPP)
- **Published** ~ 15 papers (Clinical Practice Guidelines-CPGs) and a book chapter, etc.
- 2024 Appointed to The **Scientific Commission**/The Clinical Compass.
- ODG Advisory Board
- 2023 to Present: Chairman of ACA Research Committee
- Testimony/Expert opinion in over **100 malpractice cases**
- Fellow in International College of Chiropractors
- Elected: CCE Councilor-Cat. 2-Clinicians
- AMI-National Physical Medicine Director



The Problem: Traditional (allopathic) Costs Low Back Pain

What are the associated costs of a typical case per ODG?

Source: http://www.odg-twc.com/

L/S Sprain: S33.5

• Typical case **Reserve Calculator Projections** (Claim Typical)

| Reserve Bucket | Estimated Exposure | Amount Paid to Date | Existing Reserves | Reserve Increase Requirement |
|-------------------------------------|-----------------------|------------------------|----------------------|------------------------------------|
| Indemnity (-) | \$1,493.89 | | | \$1,493.89 |
| Medical (-) | \$3,451.15 | | | \$3,451.15 |
| Expense & Administrative (-) | \$461.66 | | | \$461.66 |
| Total | \$5,406.70 | \$0.00 | \$0.00 | \$5,406.70 |

L/S Sprain: S33.5

Typical case

- With confounding factors of:
 - Pain > 30 days, obesity, opioids, depression

Reserve Calculator Projections (Claim Typical)

| Reserve Bucket | Estimated Exposure | Amount Paid to Date | Existing Reserves | Reserve Increase Requirement |
|------------------------------------|-----------------------|------------------------|------------------------------------|------------------------------------|
| Indemnity (-) | \$4,821.20 | | | \$4,821.20 |
| Medical (-) | \$10,917.59 | | | \$10,917.59 |
| Expense & Administrative (-) | \$1,183.31 | | | \$1,183.31 |
| Total | \$16,922.10 | \$0.00 | \$0.00 | \$16,922.10 |

Intervertebral disc displacement, lumbosacral region: M51.27

Typical Case

| | Claim Typical (+) | Claim Max (+) | |
|---------------------------------|-------------------|---------------|-------------|
| Best Practice* (+) | | | |
| Indemnity (-) | \$3,531.02 | \$4,685.40 | \$6,111.39 |
| Medical (-) | \$19,630.73 | \$25,405.33 | \$36,501.91 |
| Expense & Administrative (-) | \$2,430.02 | \$2,004.13 | \$2,659.38 |
| Total Cost | \$25,591.77 | \$32,094.86 | \$45,272.68 |

Intervertebral disc displacement, **lumbosacral region: M51.27**

- With confounding factors of:
 - Pain > 30 days, obesity, opioids, depression

| | Best Practice* (+) | Claim Typical (+) | Claim Max (+) |
|---------------------------------|---------------------------|-------------------|---------------|
| Indemnity (-) | \$3,531.02 | \$16,840.26 | \$28,519.80 |
| Medical (-) | \$19,630.73 | \$80,368.78 | \$196,548.73 |
| Expense & Administrative (-) | \$2,430.02 | \$5,199.55 | \$10,289.45 |
| Total Cost | \$25,591.77 | \$102,408.59 | \$235,357.98 |

8

Post Laminectomy Syndrome: M96.1

- With confounding factors of:
 - Pain > 30 days, obesity, opioids, depression

| | Claim Typical (+) | Claim Max (+) | |
|---------------------------------|-------------------|---------------|--------------|
| Best Practice* (+) | | | |
| Indemnity (-) | \$1,493.89 | \$8,488.04 | \$20,575.00 |
| Medical (-) | \$34,505.05 | \$158,298.36 | \$366,595.39 |
| Expense & Administrative (-) | \$3,477.88 | \$8,064.49 | \$15,992.81 |
| Total Cost | \$39,476.82 | \$174,850.89 | \$403,163.20 |

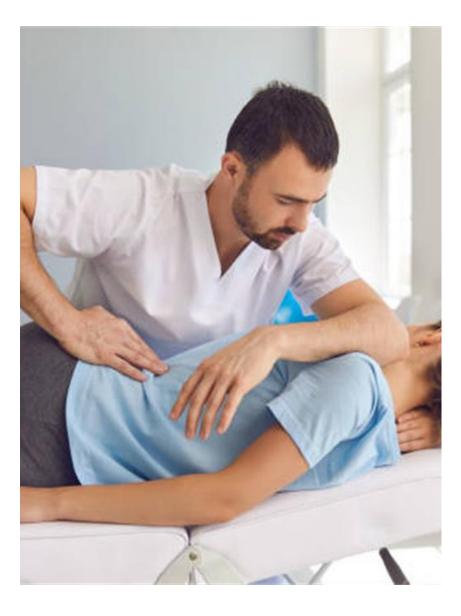
9

The Cost-Effectiveness paper completed...*Now what?*





Conservative Care versus Medical Care





The Editorial Board of *Chiropractic & Manual Therapies* voted the following article as the best published in the journal in 2024.

Cost of chiropractic versus medical management of adults with spine-related musculoskeletal pain: a systematic review.

Congratulations to:

Ronald Farabaugh, Cheryl Hawk, Dave Taylor, Clinton Daniels, Claire Noll, Mike Schneider, John McGowan, Wayne Whalen, Ron Wilcox, Richard Sarnat, Leonard Suiter, and James Whedon

Iben Axén Co-Editors-In-Chief

Simon French



hiropractic & Manual herapies BEST PUBLISHED IN 2024



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Co-Editors-In-Chief

Simon French



The "Why" Behind the Paper

KROGER PHARMACY #16847 as your current pharmacy. This is one of your last reminders to visit or call your pharmacy and have this filled.

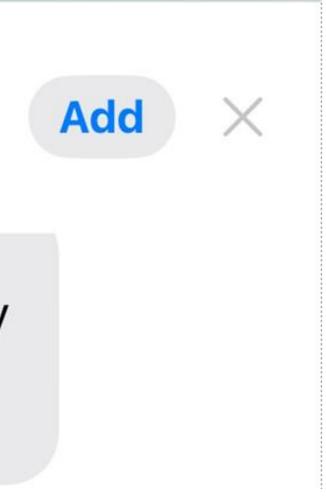
> Thank you. I'm good. I've visited my PCP this morning and my blood pressure is back to normal.

I'm so sorry to hear that. Please take your time. If you still want my



Siri Found a Contact Ava +1 (540) 917-0297

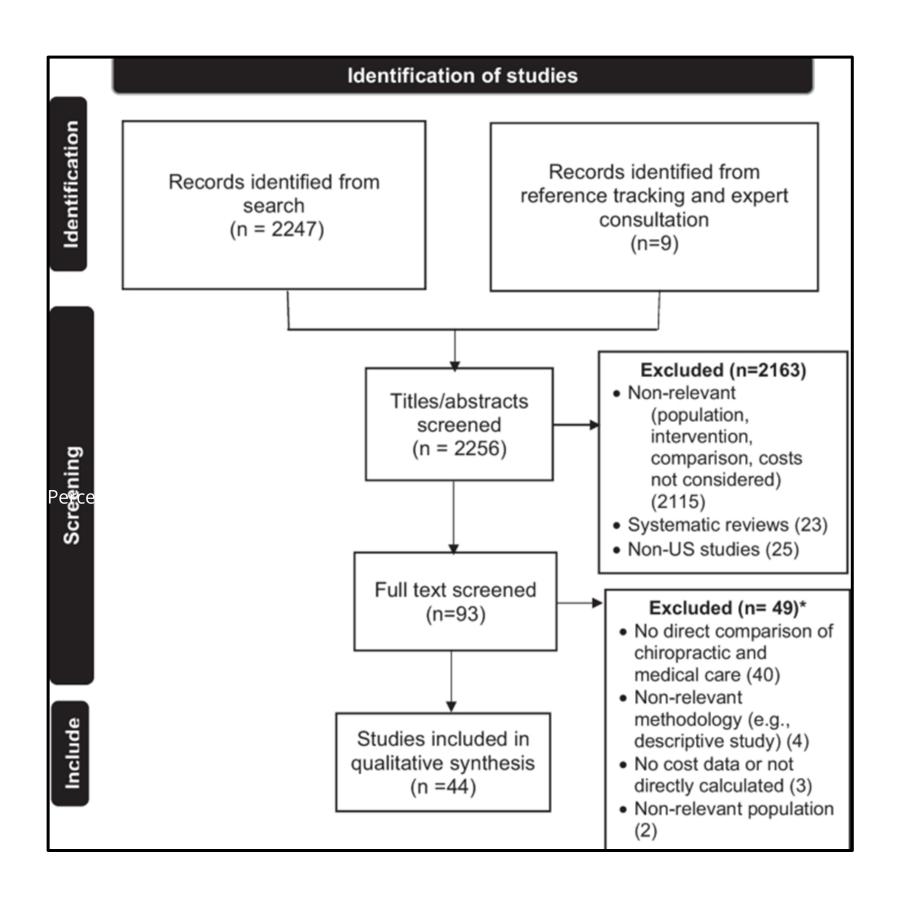
I'm so sorry to hear that. Please take your time. If you still want my help, just text me when you're ready.



We're committed to your health Ronald. Have questions or need help with this refill? If so, I can put you in contact with your pharmacy now. Let me know a good time to connect you. - Ava. If not, you can text STOP to opt-out of these reminders. June 3, 2024

Wed, Jun 5 at 3:45 PM

Hi again, this is your friendly update on your missed medication refill. You can call or visit KROGER PHARMACY #16847 to refill LOS****. I can also help connect you to KROGER PHARMACY #16847. Just give me a time that works.



Cost of chiropractic versus medical management of adults with spine-related musculoskeletal pain: a systematic review.

Farabaugh et al. Chiropractic & Manual Therapies (2024) 32:8 https://doi.org/10.1186/s12998-024-00533-4 SYSTEMATIC REVIEW

Access the paper directly through the Journal of Chiropractic and Manual Therapy.

Systematic review Open access Published: 06 March 2024

Cost of chiropractic versus medical management of adults with spine-related musculoskeletal pain: a systematic review

Ronald Farabaugh ^M, Cheryl Hawk, Dave Taylor, Clinton Daniels, Claire Noll, Mike Schneider, John McGowan, Wayne Whalen, Ron Wilcox, Richard Sarnat, Leonard Suiter & James Whedon

Chiropractic & Manual Therapies 32, Article number: 8 (2024) Cite this article

14k Accesses 18 Altmetric Metrics

Copy this link and send to your colleagues!





Research Question:

Is chiropractic management of spine-related musculoskeletal pain in U.S. adults associated with *lower overall healthcare costs as* compared to medical care?

• **<u>PICO</u>**: To answer the research question, we formulated PICO elements (Population, Intervention, Comparison, Outcome) as follows:

- P: U.S. adults with spine-related musculoskeletal pain
- I: Chiropractic management
- C: Medical care
- O: Healthcare costs and use of procedures estimated to increase





Summary of Tables

- - 4-Prospective cohort studies 22-Cohort studies (retrospective/cross-sectional)
 - 17-Cost studies
 - 1-Randomized controlled trial
- Table 2. Summary of included studies 2018-2022

17

• Table 3. Summary of included studies 1991-2017

27

44

• **Table 1.** Included studies, by study design and first author.

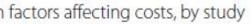
 Table 4. Summary of findings for chiropractic management vs medical management, by year of publication.

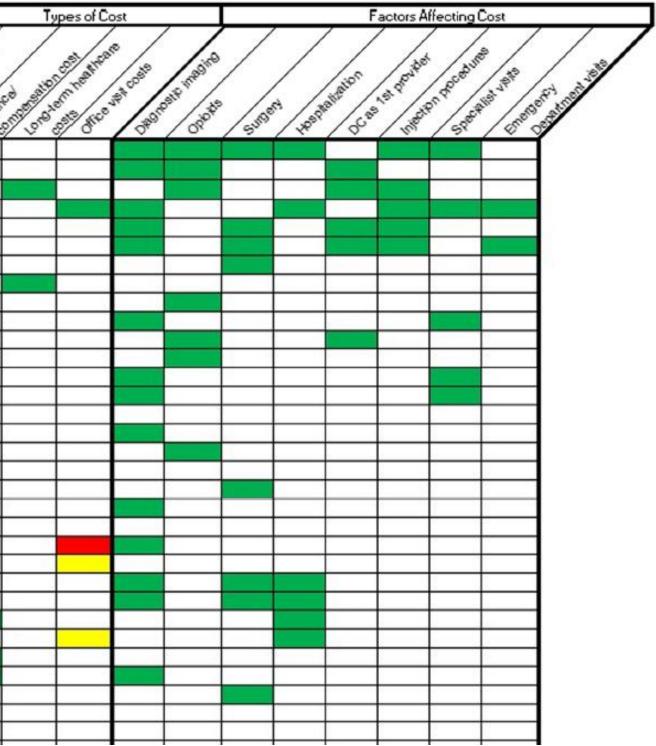
 Table 5 Association of chiropractic care with factors affecting costs, by study.

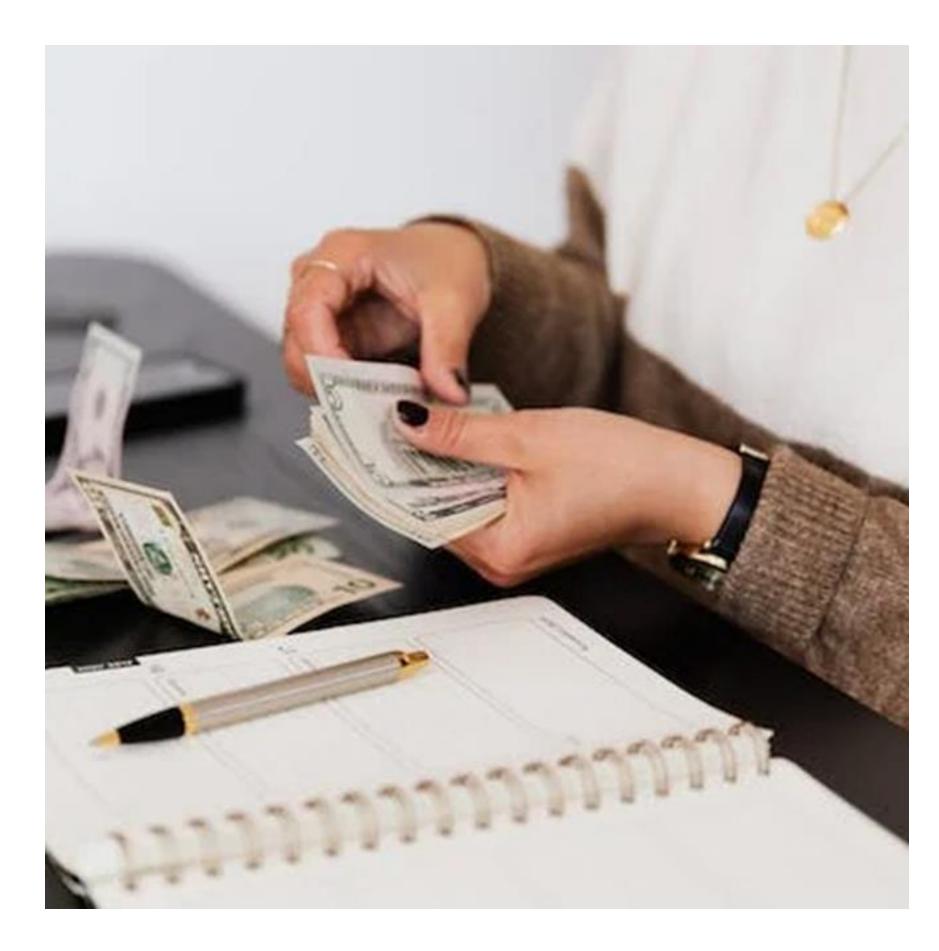
- **Green** = chiropractic associated with either lower cost OR lower utilization
- **Yellow** = cost OR utilization did not significantly differ between groups
- **Red** = chiropractic associated either higher cost **OR higher utilization**
- White = study did not evaluate this cost type OR utilization

 Table 5
 Association of chiropractic care with factors affecting costs, by study

| Altor Latrane | Public | TOBIC | Jost Jost | are pare |
|----------------|--------|-------|-----------|----------|
| Bezdjian (29) | 2022 | | | |
| Harwood (5) | 2022 | | | |
| Jin (36) | 2022 | | | |
| Whedon (9) | 2022 | | | |
| Anderson (27) | 2021 | | | |
| Anderson (28) | 2021 | | | |
| Davis (30) | 2021 | | | |
| Whedon (42) | 2021 | | | |
| Louis (39) | 2020 | | | |
| Davis (31) | 2019 | | | |
| Kazis (37) | 2019 | | | |
| Rhon (12) | 2019 | 1 | | |
| Hong (33) | 2017 | | | |
| Fritz (32) | 2016 | | | |
| Hurwitz (35) | 2016 | | | |
| Leininger (52) | 2016 | | | |
| Weeks (40) | 2016 | | | |
| Weeks (41) | 2016 | | | |
| Keeney (26) | 2013 | | | |
| Graves (25) | 2012 | | | |
| Liliedahl (38) | 2010 | | | |
| Grieves (47) | 2009 | | | |
| Haas (48) | 2005 | | | |
| Nelson (54) | 2005 | | | |
| Legorreta (51) | 2004 | | | |
| Phelan (55) | 2004 | | | |
| Stano (61) | 2002 | | | |
| Smith (57) | 1997 | | | |
| Mosely (53) | 1996 | | | |
| Stano (62) | 1996 | | | |
| Carey (23) | 1995 | | | |
| Shekelle (56) | 1995 | | | |





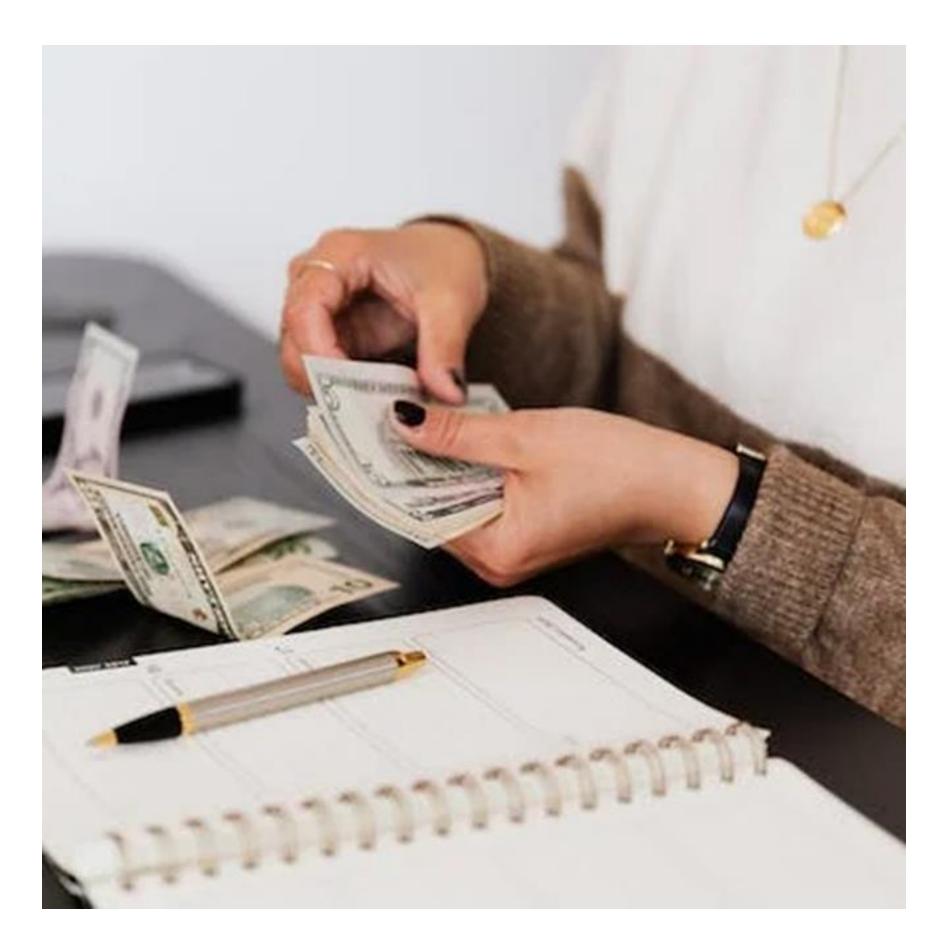




- o Total Costs
- o Insurance/compensation costs
- o Long-term healthcare costs
- o Office visits costs

Types of Costs

o Costs per episode of care





Types of services

Less use of advanced diagnostic imaging Less opioid use Fewer surgeries

Less hospitalizations

Fewer injection procedures

Fewer specialist visits including surgeon referrals

Fewer emergency department visits

Less downstream costs when chiropractor is 1st provider seen



In the **Carey** study DCs had higher costs per episode, but "why"?

Answer:

 DC serves as both the diagnostician + treating provider or therapist

"A" IS JUST THE TIP OF THE MEDICAL ICEBURG

PATIENT WITH BACK PAIN

MD Treatment Costs

Office Visit/Exam

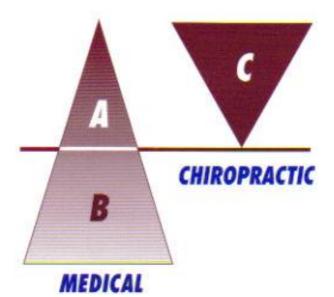
In-Office Therapy: Frequently Not Performed in a Medical Office

Additional Costs of MD Treatment

+

X-Ray Radiologist Medication Physical Therapy/Modalities Rehabilitation Specialists, MRIs, CT Hospitals Durable Medical Equip. DC Treatment Costs

Office Visits/Exam X-Ray/Evaluation Manipulative Treatment Physical Therapy/Modalities Durable Medical Equipment Follow-Up Office Visits



The PCP visit is just the tip of the medical iceberg! 25

What is the biggest mistake made by those concerned about costs (ex. Payors, entities which takes risk?) sets Groes

restments

Subsidiaries

m Assets

able

Intangible Assets

ferred Tax Asset

Concepts: Single vs dynamic

forecasting!





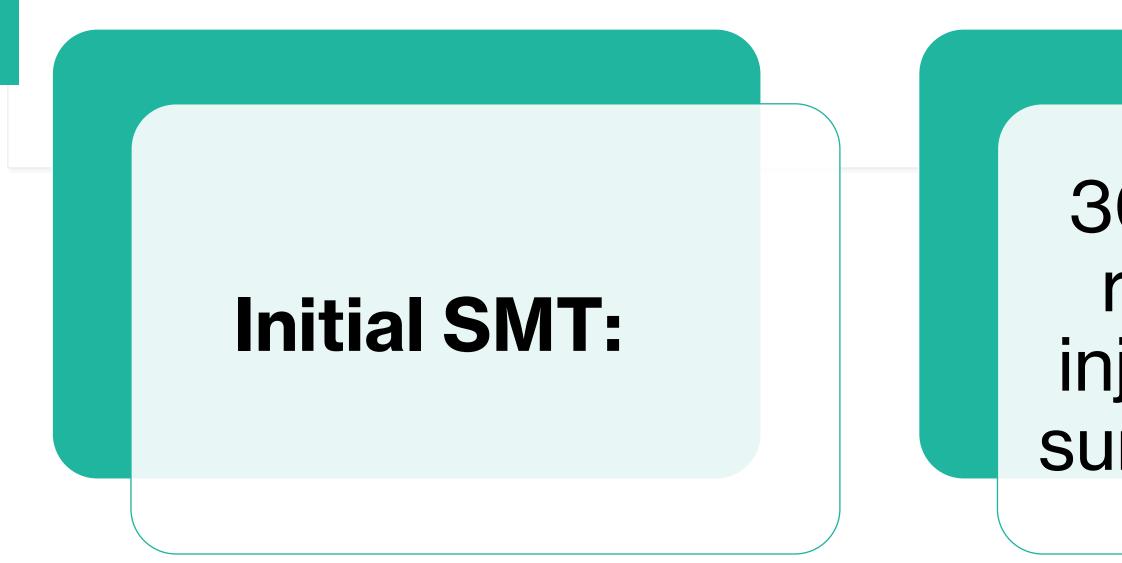
Did You Know??

•

Kazis 2019: Chiropractic can lower use of opioids!







Anderson BR, McClellan SW. Three Patterns of Spinal Manipulative Therapy for Back Pain and Their Association With Imaging Studies, Injection Procedures, and Surgery: A Cohort Study of Insurance Claims. J Manipulative Physiol Ther. 2021;44(9):683-9.

30% decrease in risk of imaging, injections or back surgery vs no SMT

Research and Education brought to you by The Clinical Compass

Respectfully submitted by Dr. Ronald J. Farabaugh



That according to a 2021 paper by Anderson et al, that.....

Care for **back pain** initially using spinal manipulative was associated with an approximately 30% decrease in the risk of imaging studies, injections, or back surgery compared to patients who did not receive spinal adjustments?

NOTE: In the US 90% of all spinal manipulation performed is done so by Doctors of Chiropractic!

2021 Anderson. Three Patterns of Spinal Manipulative Therapy for Back Pain and Their Association With Imaging Studies, Injection procedures, and Surgery: A Cohort Study of Insurance Claims. JMPT



Who you go to first matters! Share this info with your friends!!

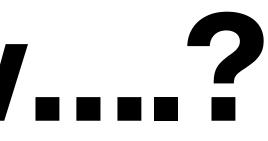
That according to a 2021 paper by Anderson et al, that.....

Among episodes of care associated with **neck pain** diagnoses, those associated with other care had twice the risk of any treatment escalation compared with those associated with spinal manipulation.

NOTE: Spinal manipulation works and reduces the need for opioids and other dangerous drugs!



2021 Anderson. Risk of Treatment Escalation in Recipients vs Nonrecipients of Spinal Manipulation for Musculoskeletal Cervical Spine Disorders: An Analysis of Insurance Claims JMPT



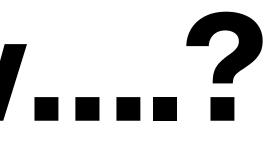
Who you go to first matters! Share this info with your friends!!

That according to a 2022 paper by Jin et al, that.....

Early conservative therapy was independently associated with 24.8% lower health care costs.

Who you go to first matters! Share this info with your friends!!

2022 Jin et al. Health Care Resource Utilization in Management of Opioid-Naive Patients With Newly Diagnosed Neck Pain. JAMA Network Open.





That according to a 2019 paper by Kazis et al, that.....

Initial visits to chiropractors or physical therapists is associated with substantially decreased early and long-term use of opioids.

Incentivizing use of conservative therapists may be a strategy to reduce risks of early and long-term opioid use.

> Who you go to first matters! Share this info with your friends!!

2019 Kazis et a. Observational retrospective study of the association of initial healthcare provider for new-onset low back pain with early and long-term opioid use. BMJ Open. 2019 Sep 20;9(9):e028633. doi: 10.1136/bmjopen-2018-028633. PMID: 31542740



That according to a 2013 paper by Keeney et al, that.....

Chiropractic reduces the odds of surgery!

"Approximately 42.7% of workers who first saw a surgeon had surgery, in contrast to only 1.5% of those who saw a chiropractor."

Who you go to first matters! Share this info with your friends!!

2013 Keeney et al. Early predictors of lumbar spine surgery after occupational back injury: results from a prospective study of workers in Washington State Spine (Phila Pa 1976). May 15;38(11):953-64. doi: 10.1097/BRS.0b013e3182814ed5.



That according to a 2010 paper by Liliedahl et al. that.....

Patients had lower overall episode costs for treatment of low back pain if they initiated care with a DC, when compared to those who initiated care with an MD.

Who you go to first matters! Share this info with your friends!!

2010 Liliedahl et al. Cost of care for common back pain conditions initiated with chiropractic doctor vs medical doctor/doctor of osteopathy as first physician: experience of one Tennessee-based general health insurer. JMPT 2010 Nov-Dec;33(9):640-3. doi: 10.1016/j.jmpt.2010.08.018. Epub 2010 Oct 18.

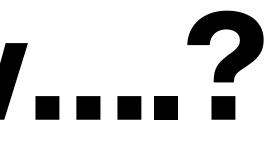


That according to a 2020 paper by Louis et al, that.....

A patient's initial clinical contact for neck pain may be an important opportunity to influence subsequent opioid use. The use of conservative therapists like chiropractors may be key in unlocking new ways to lessen the burden of opioid use in the United States.

Who you go to first matters! Share this info with your friends!!

2020 Louis et al. Association of Initial Provider Type on Opioid Fills for Individuals With Neck Pain Arch Phys Med Rehabil 2020 Aug;101(8):1407-1413. doi: 10.1016/j.apmr.2020.04.002. Epub 2020 May 11. PMID: 32437688 DOI: 10.1016/j.apmr.2020.04.002



Did You Know...? [The Chatgpt version!!]

That according to a 2020 paper by Louis et al, that.....

Seeing a chiropractor or another conservative care provider first for neck pain might help people avoid using opioids later on. Choosing this kind of care early could play a big role in reducing the opioid problem in the U.S.

Who you go to first matters! Share this info with your friends!!

2020 Louis et al. Association of Initial Provider Type on Opioid Fills for Individuals With Neck Pain Arch Phys Med Rehabil 2020 Aug;101(8):1407-1413. doi: 10.1016/j.apmr.2020.04.002. Epub 2020 May 11. PMID: 32437688 DOI: 10.1016/j.apmr.2020.04.002



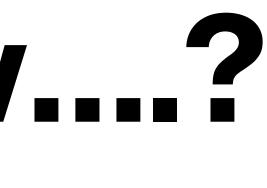
That according to a 2019 paper by Rhon et al....

Most, if not all, guidelines for musculoskeletal pain, recommend less invasive or risky evidence-based intervention, such as manual therapy (MT= hands-on treatment, such as that provided by chiropractors), before more aggressive interventions such as opioid prescriptions.

Manual therapy alone resulted in lower downstream costs than with opioid prescriptions.

Share this info with your friends!!

2019 Rhon et al. The Influence of a Guideline-Concordant Stepped Care Approach on Downstream Health Care Utilization in Patients with Spine and Shoulder Pain. Pain Med 2019 Mar 1;20(3):476-485. doi: 10.1093/pm/pny212. PMID: 30412232 DOI: 10.1093/pm/pny212



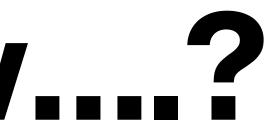
If you want to reduce the use of opioids AND lower costs...go to a chiropractor!

That according to a 2018 paper by Whedon et al, that.....

Among adults with noncancer low-back pain, the likelihood of filling a prescription for an opioid was significantly lower when care was delivered by doctors of chiropractic.

Who you go to first matters! Share this info with your friends!!

2018 Whedon et al. Association Between Utilization of Chiropractic Services for Treatment of Low-Back Pain and Use of Prescription Opioids J Altern Complement Med. 2018 Jun;24(6):552-556. doi: 10.1089/acm.2017.0131. Epub 2018 Feb 22. PMID: 29470104 DOI: 10.1089/acm.2017.0131



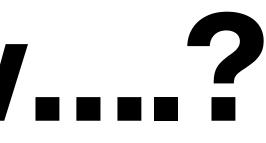
That according to a 2021 paper by Whedon et al, that.....

The adjusted rate of adverse drug events was more than 42 times higher for initial choice of opioid assisted therapy vs. initial choice of spinal manipulation.

Conclusion: Among older patients who received long-term care for chronic low back pain, the odds of experiencing an adverse event was substantially higher for patients who initially chose opioid compared to those who initially chose spinal manipulation.

Who you go to first matters! Share this info with your friends!!

2021 Whedon et al. Initial Choice of Spinal Manipulative Therapy for Treatment of Chronic Low Back Pain Leads to Reduced Long-term Risk of Adverse Drug Events Among Older Medicare Beneficiaries Spine (Phila Pa 1976). 2021 Dec 15;46(24):1714-1720. doi: 10.1097/BRS.0000000000004078.



That according to a 2022 paper by Whedon et al. that.....

Chiropractic can reduce the episodes of ongoing chronic low back pain compared to those patients treated with opioids.

Simply stated: Spinal manipulation was associated with lower rates of escalation of care as compared to opioid assisted therapy.

Who you go to first matters! Share this info with your friends!!

2022 Whedon et al. Initial Choice of Spinal Manipulation Reduces Escalation of Care for Chronic Low Back Pain Among Older Medicare Beneficiaries Spine (Phila Pa 1976). 2022 Feb 15;47(4):E142-E148. doi: 10.1097/BRS.0000000000004118. PMID: 34474443.

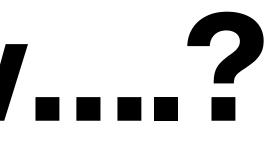


That according to a 2022 paper by Harwood et al, that.....

The frequency of early opioid prescription was signifcantly lower when care began with an acupuncturist or chiropractor, and highest for those who began with an emergency medicine physician or advanced practice registered nurse (APRN).

Who you go to first matters! Share this info with your friends!!

2022 Harwood. Where to start? A two stage residual inclusion approach to estimating influence of the initial provider on health care utilization and costs for low back pain in the US. BMC Health Serv Res. 2022 May 23;22(1):694. doi: 10.1186/s12913-022-08092-1. PMID: 35606781





For both short and long -term prescriptions:

Conclusions: Initial visits to chiropractors are associated with substantially decreased early and long-term use of opioids.

• Kazis LE, Ameli O, Rothendler J, Garrity B, Cabral H, McDonough C, et al. Observational retrospective study of the association of initial healthcare provider for new-onset low back pain with early and long-term opioid use. BMJ open. 2019;9(9):e028633.

Incentivizing use of conservative therapists may be a strategy to reduce risks of early and long-term opioid use.



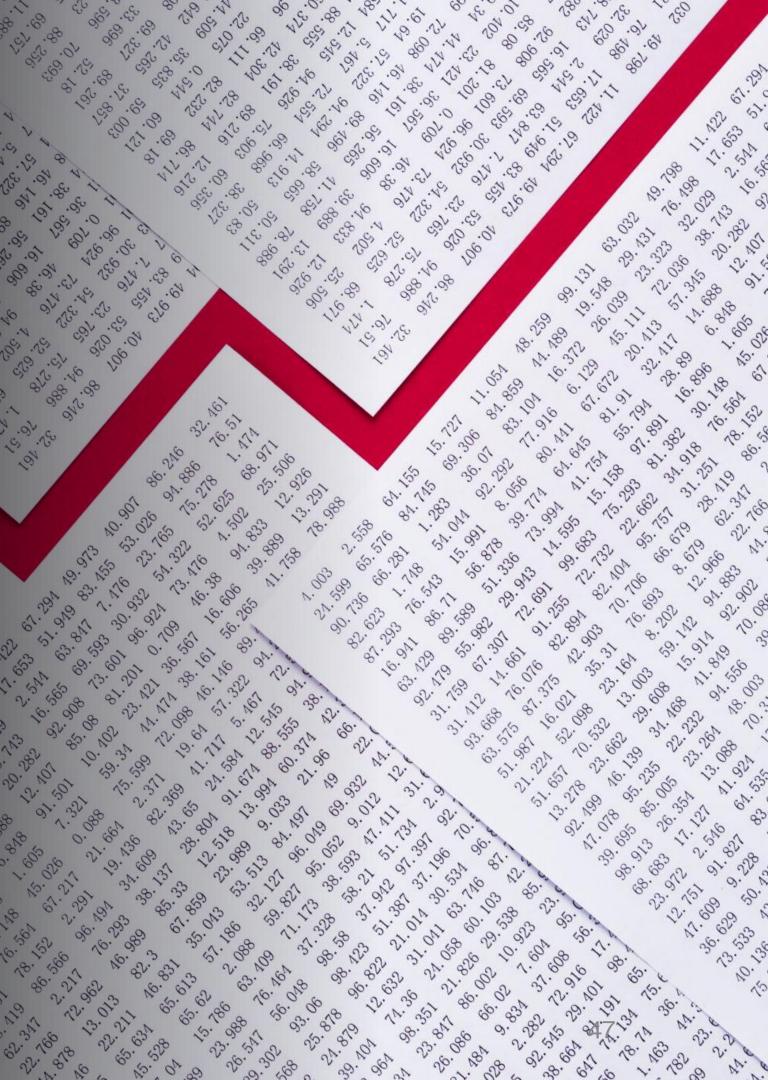
Risk for filling opioid prescription 56% lower for DC (hazard ratio 0.44)

2022;30(1):5.

• Whedon JM, Uptmor S, Toler AWJ, Bezdjian S, MacKenzie TA, Kazal LA, Jr. Association between chiropractic care and use of prescription opioids among older medicare beneficiaries with spinal pain: a retrospective observational study. Chiropr Man Therap.

Cost of episodes with initial DC, adjusted for risk, were 20% less than with initial MD.

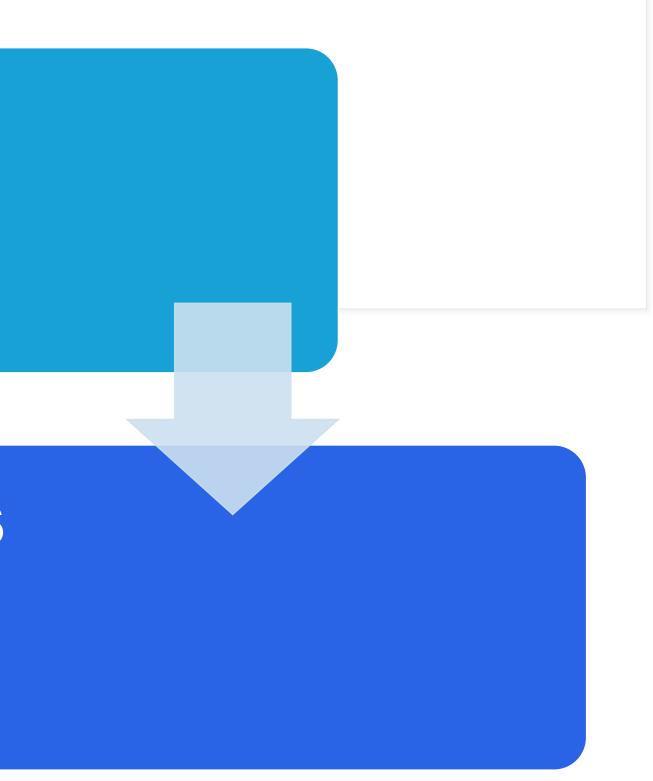
 Liliedahl RL, Finch MD, Axene DV, Goertz CM. Cost of care for common back pain conditions initiated with chiropractic doctor vs medical doctor/doctor of osteopathy as first physician: experience of one Tennesseebased general health insurer. J Manipulative Physiol Ther. 2010;33(9):640-3.



Mean LBP care long-term costs with OAT 58% lower than SMT.

Total long-term costs 1.87 times higher for OAT

Whedon JM, Kizhakkeveettil A, Toler A, MacKenzie TA, Lurie JD, Bezdjian S, et al. Long-Term Medicare Costs Associated With Opioid Analgesic Therapy vs Spinal Manipulative Therapy for Chronic Low Back Pain in a Cohort of Older Adults. J Manipulative Physiol Ther. 2021;44(7):519-26.



Recommendations:

- When considering this evidence, it may be in society's best interest for U.S. healthcare organizations and governmental agencies to consider modifying benefit designs to reduce barriers to access to chiropractic providers.
- Modifying or eliminating pre-authorization requirements, medical doctor gatekeepers, arbitrary visit limits, co-pays and deductibles may all be considered.
- Eliminating these barriers would allow easier access to chiropractic services, which based on currently available evidence consistently demonstrate reduced downstream services and associated costs.

Conclusions

- Patients with spine-related musculoskeletal pain who consulted a chiropractor as their initial provider incurred substantially decreased downstream healthcare services, and associated costs, resulting in lower overall healthcare costs compared with medical management.
- A primary limitation was related to the heterogeneity and sample sizes of the populations and retrospective data sets.
- While observational studies cannot prove causation, the recurrent theme of the data seems to support the utilization of chiropractors as the initial provider for an episode of spine-related musculoskeletal pain.
- Future studies using randomized designs will be helpful in clarifying and validating this trend.



What are main takeaways from the Cost Effectiveness paper?

When patients use doctors of chiropractic, downstream services and associated costs are significantly reduced

Who the patient visits first matters! Using chiropractic from the onset of an episode will reduce costs overall, not just costs related to chiropractic!!

#1:

#2:



our cannons?



So, we now have the ammo to fight against an unjust system! The question is, where do point

Who will lead this fight for services expansion?



Any entity who is taking **RISK**!

- Unions
- 2. Employers
- 3. Medicaid and MCOs who take risk.
- 4. Payors-Who is taking the financial risk?

 - c) Actuarial companies/consultants providing the payors advice on benefit structure.
 - d) Sales force.
 - Payor clients (ex. Large self-insured e) employers, hospital systems, etc.)

- a) Medical director (little influence on plan design)
- b) Chief financial officer

5. Legislators: local, state and federal



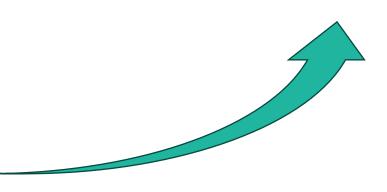
Unions

Employers/Business Leaders





Insurance Carriers



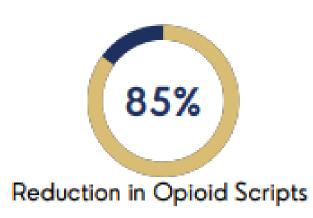
- 6. The VA
- 7. DoD
- 8. The Media, local, state, federal.
- 9. Large medical groups who also take risk.
- 10. Medicare
- 11. Foundation for Chiropractic Progress (Sherry McAllister)



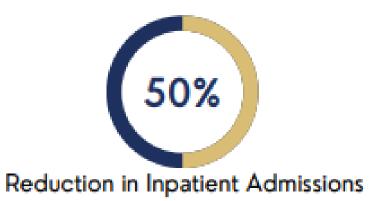
• Imagine adding a benefit that never existed! Further, imagine a world in which not only can DCs continue to treat severe chronic pain Medicaid patients, but also get paid well for doing so!!

Integrative Chronic Pain Program (ICPP)

Advanced Medicine Integration Group, L.P.



Program Results Include







I WILL!! DONE!!



Discussion



How will you use this information?

<u>Contact Information:</u>

- Dr. Ronald J. Farabaugh
- Cell: (614) 419-2454
- Work: (847) 579-2721
- www.chiro-consulting.com
- Ronald.Farabaugh@gmail.com



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