CHIROPRACTIC
A KEY TO AMERICA’S
OPIOID EXIT STRATEGY

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“I salute the Foundation for Chiropractic Progress® for promoting alternatives to opioid pain medicine for chronic pain, and for joining in the fight against the opioid epidemic.”

— Anna Lembke, MD, Author, “Drug Dealer, MD”

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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview</td>
<td>2</td>
</tr>
<tr>
<td>America’s Commitment to Prescription Opioid Abuse: A Painful Reality Check</td>
<td>3</td>
</tr>
<tr>
<td>Government and Regulators Restrict Access to Opioids</td>
<td>6</td>
</tr>
<tr>
<td>Responsible Prescribing</td>
<td>10</td>
</tr>
<tr>
<td>Mounting Evidence and Support for Non-Pharmacologic Care for Acute, Subacute and Chronic Back, Neck and Neuro-Musculoskeletal Pain</td>
<td>13</td>
</tr>
<tr>
<td>Recommendations and Next Steps</td>
<td>24</td>
</tr>
</tbody>
</table>
OVERVIEW

The sheer magnitude of America’s prescription opioid abuse epidemic has evoked visceral responses and calls-to-action from public and private sectors. As longtime advocates of drug-free management of acute, subacute and chronic back, neck and neuro-musculoskeletal pain, the chiropractic profession is aligned with these important initiatives and committed to actively participate in solving the prescription opioid addiction crisis. As professionals dedicated to health and well-being, Doctors of Chiropractic (DCs) are educated, trained and positioned to deliver non-pharmacologic pain management and play a leading role in “America’s Opioid Exit Strategy.”

Data released by the Centers for Disease Control and Prevention (CDC) revealed that opioid deaths continued to surge in 2015, surpassing 30,000 for the first time in recent history. CDC Director Tom Frieden said, “The epidemic of deaths involving opioids continues to worsen. Prescription opioid misuse and use of heroin and illicitly manufactured fentanyl are intertwined and deeply troubling problems.”

The human toll of prescription opioid use, abuse, dependence, overdose and poisoning have rightfully become a national public health concern. Along with the tragic loss of life, it is also creating a monumental burden on our health and related health care costs:

- Health care costs for opioid abusers are eight times higher than for nonabusers.
- A new retrospective cohort study shows a 72 percent increase in hospitalizations related to opioid abuse/dependence from 2002 to 2012. Not surprisingly, inpatient charges more than quadrupled over that time. Previous estimates of the annual excess costs of opioid abuse to payers range from approximately $10,000 to $20,000 per patient, imposing a substantial economic burden on payers.
- A recent government study puts the economic burden to the U.S. economy at $78.5 billion annually. For this study, CDC researchers analyzed the financial impact to include direct health care costs, lost productivity and costs to the criminal justice system.
Opioid overdose deaths surge in 2015

Source: CDC WONDER, Washington Post

America’s Commitment to Prescription Opioid Abuse: A Painful Reality Check

As a non-pharmacologic approach to effectively address acute, subacute and chronic non-cancer pain, integrative care management answers the needs of individuals nationwide.

With patient access to opioids becoming more restricted through more responsible clinician prescribing and government-mandated reduced production of opioids – and as those who are addicted become empowered to reduce their utilization – people experiencing pain face new, daunting challenges:

- Without the use of drugs, how will they cope with pain?
- How can they get referrals and access to drug-free care that will be effective for acute, subacute and chronic pain?
- How can they ensure that their health care plans and insurance will cover the cost of non-pharmacologic care?
While the chiropractic profession lauds many of the noteworthy announcements and strides to overcome opioid addiction, these recommendations fall short in providing meaningful answers and solutions for those who are suffering from pain.

It is encouraging to see the July 22, 2016 enactment of the Comprehensive Addiction and Recovery Act (PL 114-198), the first major federal addiction legislation in 40 years, and the most comprehensive effort undertaken to address the opioid epidemic. It encompasses all six pillars necessary for such a coordinated response – prevention, treatment, recovery, law enforcement, criminal justice reform and overdose reversal. The recent passage of the 21st Century Cures Act included $1 billion for states to use to fight opioid abuse. Unfortunately, this legislation has drawn critics who say it is simply a huge de-regulatory giveaway to the pharmaceutical and medical device industry.

Closer examination of these legislative initiatives points to the absence of programs that address non-pharmacologic options for those fighting drug addiction, notably chiropractic care. When paired with the U.S. Surgeon General’s declaration of war on addiction, the government’s designation of “Prescription Opioid and Heroin Epidemic Awareness Week,” and the commitment from 40 prescriber groups to ensure that 540,000 health care providers would complete training on appropriate opioid prescribing within two years, these “solutions” appear woefully inadequate to address the challenges of those who need effective, drug-free pain management.

This follow-up discussion to “Chiropractic: A Safer Strategy than Opioids” (June 2016), examines the positive steps as well as the shortcomings of initiatives undertaken from July 2016 - March 2017 to address the opioid crisis. It also assesses the current landscape of opportunities to offer patients, doctors and payers meaningful programs to effectively address acute, subacute and chronic neck, low back and neuro-musculoskeletal pain without the use of painkillers.

The chiropractic profession contends this should be a top priority, and it appears that a growing number of stakeholders are in agreement. In fact, the world’s second-largest pharmaceutical company has agreed to disclose in its marketing material that opioid painkillers might carry a serious risk of addiction, and promised not to promote prescription opioids for unapproved uses, such as long-term back pain.
Further complicating the situation: escalating prices of the opioid OD drug naloxone may threaten efforts to reduce opioid-related deaths across America, warn teams at Yale University and the Mayo Clinic.¹³

Naloxone is a drug given to people who overdose on prescription opioids and heroin. If administered in time, it can reverse the toxic and potentially deadly effects of “opioid intoxication.”

The research team called attention to skyrocketing prices for the lifesaving antidote, noting:

- Hospira (a Pfizer Inc. company) charges $142 for a 10-pack of naloxone – up 129 percent since 2012.
- Amphastar’s 1 milligram version of naloxone is used off-label as a nasal spray. It’s priced around $40 – a 95 percent increase since September 2014.
- Newer, easier-to-use formulations are even more expensive – a two-dose package of Evzio (naloxone) costs $4,500, an increase of more than 500 percent over two years.

“The challenge is as the price goes up for naloxone, it becomes less accessible for patients,” said Ravi Gupta, the study’s lead author.

Based upon the evidence articulated in this document, it becomes clear that chiropractic care is a key component of “America’s Opioid Exit Strategy” on several levels:

- Perform first-line assessment and care for neck, back and neuro-musculoskeletal pain to avoid opiate prescribing from the first onset of pain.
- Provide care throughout treatment to mitigate the introduction of drugs.
- Offer an effective approach to acute, subacute and chronic pain management that helps addicts achieve a wellness focused, pain-free lifestyle as they reduce their utilization of opioids.

It’s also a compelling opportunity for our health system, commercial and government payers, employers – and most importantly patients – to resolve the issues surrounding pain at lower costs, with improved outcomes and without drugs or surgery.
GOVERNMENT AND REGULATORS RESTRICT ACCESS TO OPIOIDS

In the wake of this firestorm surrounding opioid abuse, and following the dissemination of prescribing guidelines introduced by the CDC, it becomes evident that certain market forces are influencing the battle against opioid addiction and the availability of drugs.

Among the most egregious stakeholders are those in the pharmaceutical sector. There are numerous instances which document their role attempting to thwart many legislative initiatives throughout the country to combat drug abuse. They impose exorbitant costs for life-saving antidotes, and aggressively develop and market the use of more drugs to fight opioid-induced side effects such as constipation. It becomes apparent that many of their answers to opioid addiction are simply more pills.14

The opioid market is worth nearly $10 billion in annual sales, and has expanded to include an unlimited universe of medications aimed at treating secondary effects rather than controlling pain.15 Given the financial incentives to produce, sell and distribute drugs, it’s no wonder that pharmaceutical companies (pharmcos) have a material interest in promoting drug utilization.

This set of behaviors has drawn extensive criticism.

“The root cause of our opiate epidemic has been the over-prescribing of prescription pain medications. Physicians get little to no training related to addiction in general, but particularly around opiate prescriptions. Over the past year, however, you hear more and more physicians admitting ‘we are part of the problem and can be part of the solution’.”16

— Michael Botticelli, former White House drug policy director, commonly called the nation’s drug czar.

While physicians have been responding to calls for more responsible prescribing, the drug industry has historically been accused of providing physicians with misleading information regarding the addictive qualities of certain drugs. Appropriate education of prescribers is a key component of necessary change.

For example, when semisynthetic opioids like oxycodone and hydrocodone — found in Percocet and Vicodin respectively — were first approved in the mid-20th century, they were recommended only for managing pain during terminal illnesses such as cancer, or for acute short-term pain, like recovery from surgery, to ensure patients wouldn’t get addicted. But in the 1990s, doctors came under increasing pressure to use opioids to treat the millions of Americans suffering from chronic non-malignant conditions, like back pain and osteoarthritis.
A physician pain specialist helped lead the campaign, claiming prescription opioids were a “gift from nature,” with assurances to his fellow doctors — based on a 1986 study of only 38 patients — that fewer than one percent of long-term users became addicted.\textsuperscript{17}

Today, drug makers may be getting their ‘wings clipped’ with the introduction of new government directives slashing production of popular prescription painkillers. In 2016, the U.S. Drug Enforcement Administration (DEA) finalized a previous order on 2017 production quotas for a variety of Schedule I and II drugs, including addictive narcotics like oxycodone, hydromorphone, codeine and fentanyl. The agency has the authority to set limits on manufacturing under the Controlled Substances Act. The DEA said it is reducing “the amount of almost every Schedule II opiate and opioid medication” by at least 25 percent.\textsuperscript{18} Some, like hydrocodone, commonly known by brand names like Vicodin or Lortab, will be cut by one-third.

Despite these setbacks, the drug industry continues to launch strong initiatives that fight state-mandated opioid limits. Amid the crisis and regardless of the pressures urging a shift away from opioid use, the makers of prescription painkillers recently adopted a 50-state strategy that includes hundreds of lobbyists and millions in campaign contributions to help kill or weaken measures aimed at stemming the tide of prescription opioids.\textsuperscript{19}

While the drug makers vow they’re combating the addiction problem, The Associated Press and the Center for Public Integrity found that these manufacturers often employ a statehouse playbook of delay and defend tactics. This includes funding advocacy groups that use the veneer of independence to fight limits on the drugs, such as OxyContin, Vicodin and Fentanyl, a potent, synthetic opioid pain medication with a rapid onset and short duration of action that is estimated to be between 50 and 100 times as potent as morphine.\textsuperscript{20}
These independent sources also found that the drug makers and allied advocacy groups employed an annual average of 1,350 lobbyists in legislative hubs from 2006 through 2015, when opioids’ addictive nature came under increasing scrutiny.

“The opioid lobby has been doing everything it can to preserve the status quo of aggressive prescribing. They are reaping enormous profits from aggressive prescribing.”

— Andrew Kolodny, MD, founder, Physicians for Responsible Opioid Prescribing

Undaunted by these interferences, and buoyed by a thirst for profits, pharmcos are now fueling other creative solutions to drive even greater revenues from the sale and distribution of drugs.

It now appears that pharmcos are directing their activities toward medicines known as abuse-deterrent formulations: opioids with physical and/or chemical barriers have built-in properties that make the pills difficult to crush, chew or dissolve. This aims to deter abuse through intranasal and intravenous routes of administration. These drugs ultimately are more lucrative, since they’re protected by patent and do not yet have generic competitors. They cost insurers more than generic opioids without the tamper-resistant technology.

Skeptics warn that they carry the same risks of addiction as other opioid versions, and the U.S. FDA noted that they don’t prevent the most common form of abuse — swallowing pills whole.
“This is a way that the pharmaceutical industry can evade responsibility, get new patents and continue to pump pills into the system,” said Dr. Anna Lembke, Chief of Addiction Medicine at the Stanford University School of Medicine.24

Drug makers have discovered yet another way to profit from addicts taking high doses of prescription opioid painkillers – the new billion-dollar drug to treat opioid-induced constipation (OIC) rather than controlling pain.

Studies show that constipation afflicts 40-90 percent of opioid patients. Traditionally, doctors advised people to cut down the dosage of their pain meds, take them less often or try non-drug interventions. By promoting OIC as a condition in need of more targeted treatment, the drug industry is creating incentives to maintain painkillers at full strength and add another pill instead.25

Collectively, the subsets of new pharmaceutical submarkets to treat opioid addiction, overdoses, and side effects such as OIC are estimated to be worth at least $1 billion a year in sales. These economics, some experts say, work against efforts to end the epidemic.26

While there is continued pressure to limit the number and scope of opiates for patients, new government statistics reveal that drug overdose deaths continue to surge in the United States, now exceeding the number of deaths caused by motor vehicle accidents.27 Although it is reported that the number of opioid prescriptions has fallen across the U.S. over the past three years, with intermittent data on this decline in states such as West Virginia and Ohio, they still kill more Americans each year than any other drug.

Just over 33,000 (63 percent) of the more than 52,000 fatalities reported in 2015 are linked to the illicit use of prescription painkillers.28 States including Massachusetts, and most recently Virginia, have declared public health emergencies as the number of deaths has escalated.29

Regardless of whether these issues are viewed from the perspective of patients, clinician prescribers, or government regulators, the status quo is clearly not acceptable.
RESPONSIBLE PRESCRIBING

“My new patient didn’t mention his back pain until the very end of the visit. As he was rising to leave, he asked casually if I could refill his Percocet. I told him I am not a pain or a back specialist and that I generally prescribe muscle relaxants or anti-inflammatory medications for back pain — not opioids, which are addictive and do not really treat the underlying problem.

The patient persisted. He said his prior internist always prescribed it, and the medication also helped his mood. He promised he had its use under control and did not feel he needed to take more and more to achieve the same effect.

I didn’t relent. I offered to refer him to a back specialist instead. It was an uncomfortable end to an otherwise positive visit.

Unfortunately, we doctors are enablers. Too many of us fill those prescriptions for chronic pain. And when we don’t, too many of our patients leave us for other doctors who will. Or worse, they turn to buying heroin on the street.”

— Marc Siegel, MD, FOX NEWS

Clinical prescribers of pain medications are beginning to recognize their responsibilities for increased prescribing vigilance, and are expected to become important advocates for drug-free pain care. More than half of doctors across America are curtailing opioid prescriptions, and nearly 1 in 10 have stopped prescribing the drugs, according to a new nationwide online survey. More than one-third of the respondents said the reduction in prescribing has hurt patients with chronic pain.

The survey, conducted for The Boston Globe by the SERMO physicians social network, offers fresh evidence of the changes in prescribing practices in response to the opioid crisis that has killed thousands in New England and elsewhere around the country. The deaths awakened fears of addiction and accidental overdose, and led to state and federal regulations aimed at reining in excessive prescribing.

Doctors face myriad pressures as they struggle to treat addiction and chronic pain, two complex conditions in which most physicians receive little training. Those responding to the survey gave two main reasons for cutting back: the risks and hassles involved in prescribing opioids, and a better understanding of the drugs’ hazards.
In Wisconsin, the Medical Society says the state's effort to fight the opioid epidemic is showing results. A new report found about eight million fewer opioids were dispensed between July and September 2016 compared to the same time during the previous year. The Medical Society says it’s doing more to help physicians monitor patients’ use of opioids by supporting the release of an enhanced prescription drug monitoring program – or PDMP. Starting in April 2017, doctors will have to access the program while pharmacists will only have 24 hours to enter information instead of seven days. This gives doctors an update in case patients are going from doctor to doctor for more prescriptions.32

Prescription drug monitoring programs (PDMPs), launched in 2013, are state-run electronic databases used to track the prescribing and dispensing of controlled prescription drugs to patients. They are designed to monitor this information for suspected abuse or diversion (i.e., channeling drugs into illegal use), and can give a prescriber or pharmacist critical information regarding a patient’s controlled substance prescription history. This information can help prescribers and pharmacists identify patients at high-risk who would benefit from early interventions.

PDMPs continue to be among the most promising state-level interventions to improve opioid prescribing, inform clinical practice and protect patients at risk.33
HEALTH PLANS REPORT LIMITED PRESCRIBING IS “PAYING OFF”

According to IMS Health, a global health information and technology firm, the rate of opioid prescribing in the U.S. has dropped since its peak in 2012. The drop is the first that has been reported since the early 1990s, when OxyContin first hit the market and pain became “the fifth vital sign” doctors were encouraged to more aggressively treat.\textsuperscript{35}

However, continued pressure on physician prescribing patterns and opportunities for therapies other than opioids may be paying off. Prescriptions for powerful painkillers dropped significantly among patients covered by Massachusetts’ largest insurer after measures were introduced to reduce opioid use.\textsuperscript{36} The Blue Cross Blue Shield of Massachusetts program serves as an example of a private health insurer collaborating on a public health goal.

In 2012, the insurer — the state’s largest, with 2.8 million members — instituted a program intended to induce doctors and patients to weigh the risks of opioids and consider alternatives. As part of that initiative, first-time opioid prescriptions are limited to 15 days, with a refill allowed for 15 more days. Blue Cross must approve in advance any prescription for longer than a month or for any long-acting opioid such as OxyContin. Pharmacy mail orders for opioids are prohibited.

Doctors and others who prescribe must assess the patient’s risk of abusing drugs and develop a treatment plan that considers options other than opioids. And patients with chronic pain are referred to case managers who advise on therapies other than opioids.

By the end of 2015, the average monthly prescribing rate for opioids decreased almost 15 percent, from 34 per 1,000 members to 29. About 21 million fewer opioid doses were dispensed during the three years covered in the study.\textsuperscript{37}

In another example, Highmark (Pennsylvania) shared data in December 2016 showing that the number of prescriptions for opioids it reimbursed in each of the past three months was lower than in any of the prior nine months. One leading health plan in the state reported that 16 percent of its insured population received at least one opioid prescription in 2016, down from 20 percent in 2015.\textsuperscript{38} UPMC Health Plan indicated it is using “an algorithm to identify patients who may be at risk for opioid addiction,” and training doctors to use other pain management tools.

Researchers found misuse of prescription painkillers and street opioids climbed nationwide, related hospital stays jumped from 137 per 100,000 people to 225 per 100,000 in that decade.

States where overdoses required at least 70 percent more hospital beds between 2009 and 2014 were North Carolina, Oregon, South Dakota and Washington.

In 2014, the District of Columbia, Maryland, Massachusetts, New York, Rhode Island and West Virginia each reported rates above 300 per 100,000 people – far above the national average.\textsuperscript{34}
MOUNTING EVIDENCE AND SUPPORT FOR NON-PHARMACOLOGIC CARE FOR ACUTE, SUBACUTE AND CHRONIC BACK, NECK AND NEURO-MUSCULOSKELETAL PAIN

The earlier sections of this white paper have focused on the continuing and growing problem of opioid use, abuse and addiction. It is essential that this information is understood and appreciated as it clearly calls for a wholesale change in the approach American health care providers and patients bring to the care and management of pain.

No matter what is done to address the use, abuse and addiction associated with opioids it is a fact of life that opioid containing products will continue to be required by individuals suffering severe, intractable and unrelenting pain. This issue is not about the cessation of all opioid use, rather it is about not turning to opioids before they are required, and not until all less onerous approaches to pain management have been exhausted.
We began this discussion with three questions in mind:

- Without the use of drugs, how will they cope with pain?
- How can they get referrals and access to drug-free care that will be effective for both acute, subacute and chronic pain?
- How can they ensure that their health care plans and insurance will cover the cost of non-pharmacologic care?

According to new guidelines developed by the American College of Physicians, conservative non-drug treatments should be favored over drugs for most back pain. The guidelines are an update that include a review of more than 150 recent studies and conclude that, “For acute and subacute pain, the guidelines recommend nondrug therapies first, such as applying heat, massage, acupuncture, or spinal manipulation, which is often done by a chiropractor.”

— The Wall Street Journal
As we have previously noted the CDC, FDA and IOM have all called for the early use of non-pharmacologic approaches to pain and pain management. Unfortunately, beyond asserting the need to move in this direction, little, if any, guidance has been offered to providers, patients and payors on how to accomplish this important transition.

It is a fact that a chasm exists between the worlds of pharmacologic based management of pain, and the non-pharmacologic based management of pain. Medical physicians are not going to suddenly attain knowledge and understanding of practices, procedures and management options that they have never been trained in or exposed to. Similarly, the non-pharmacologic providers addressing pain management do not encounter or understand the barriers that prevent prescribers from directing patients toward non-pharma approaches. These two spheres of healthcare are distinct and separate, and demonstrate little, if any, knowledge about the other.

The first step is to provide resources to prescribers that will detail the indications, effectiveness, efficiency and safety of non-pharmacologic approaches. In particular, the chiropractic profession, through its 70,000 practitioners in the United States, represents a significant and proven non-pharmacologic approach for reducing the need for opioids, opioid-related products and non-opioid pain medications.

Chiropractic, like other complementary health care approaches, suffers from a lack of awareness about its high level of education, credentialing and regulation. In addition, a substantial awareness gap exists among frontline providers in terms of referring patients to chiropractors as part of patient care.

The chiropractic profession and the health care consumer are equally supported by a robust oversight infrastructure. This infrastructure ranges from institutional and programmatic accreditation of chiropractic education by agencies recognized by the U.S. Department of Education to standardize national credentialing examinations and licensure by state agencies and ongoing professional development as a requirement for continued practice in many states.

Typically, after earning a Bachelor of Science, chiropractors follow a four-year curriculum to earn a Doctor of Chiropractic (DC) as a prerequisite to earning the right to independent practice. Chiropractic, medical, osteopathic, dental, optometric and naturopathic education share a similar foundation in the basic sciences, followed by discipline-specific content that focuses on the unique contribution of each provider type. For example, a medical student pursues the study of pharmacology and surgery, while a chiropractic student studies the intricacies of manual approaches to health care and the acquisition of the skills needed to perform spinal adjusting or manipulation.

Chiropractors also pursue specialization in specific areas, such as radiology, through structured residency programs, similar to other disciplines. DCs also pursue focus areas related to various methods of spinal adjusting and related patient management.
For over a century, DCs have studied the relationship between structure, primarily the spine, and function, primarily of the nervous system, and how this interrelationship impacts health and well-being. Due to this emphasis on the spine, chiropractors have become associated with spinal and skeletal pain syndromes, and bring their non-surgical, non-drug rationale to the management of these problems.

DCs are the quintessential example of non-pharmacologic providers of health care with particular expertise in neuro-musculoskeletal conditions.

**A LOOK AT THE EVIDENCE**

While the United States is attempting to deal with its opioid epidemic, our nation is making only limited headway in providing non-pharmacologic approaches to patients with pain.

Over 100 million Americans suffer with chronic pain, and an estimated 75 to 85 percent of all Americans will experience some form of back pain during their lifetime. However, 50 percent of all patients who suffer from an episode of low back pain will have a recurrent episode within one year. Surgery has a very limited role in the management of spinal pain, and is only considered appropriate in a handful of cases per hundred patients. Likewise, opioids have very limited utility in the spinal pain environment with the recommended use of these drugs being limited to three days.

Of special relevance, this data relates to the most commonly-reported pain conditions:

- When asked about four common types of pain, respondents of a National Institute of Health Statistics survey indicated that low back pain was the most common (27 percent), followed by severe headache or migraine pain (15 percent), neck pain (15 percent) and facial ache or pain (4 percent).
- Back pain is the leading cause of disability in Americans under 45 years old. More than 26 million Americans between the ages of 20-64 experience frequent back pain.
- Adults with low back pain are often in worse physical and mental health than people who do not have low back pain: 28 percent of adults with low back pain report limited activity due to a chronic condition, as compared to 10 percent of adults who do not have low back pain. Also, adults reporting low back pain were three times as likely to be in fair or poor health and more than four times as likely to experience serious psychological distress as people without low back pain.

Results of a 2010 study indicate that DCs provide approximately 94 percent of the manipulation services performed in the U.S., with a number of published studies documenting manipulation, along with other drug-free interventions, as effective for the management of neck and back pain. Most high-quality guidelines target the noninvasive management of nonspecific low back pain and recommend education, staying active/exercising, manual therapy, and paracetamol or NSAIDs as first-line treatments.
ACTION NEEDED

Care pathways and clinical guidelines need to be modified to bring greater attention to the use of non-pharmacologic approaches to pain management. Primary medical care providers must be encouraged to make recommendations or referrals to drug-free resources and appropriate providers, such as DCs, rather than turning to the prescription pad when managing patients who have pain, particularly those with spinal pain. Patients should be educated about non-pharmacologic options for dealing with pain first and foremost, and the dangers of opioids.

For these good intentions to be effective, drug-free pathways will need to be funded by payers in the private sector and government. Government leadership and policy support for introducing innovative reimbursement initiatives by the CMS is a critical step toward allowing health providers to acquire familiarity with non-pharmaceutical approaches. These could frame and stimulate use of evidence-based care options and promote referrals, access to care and reimbursement. By re-engineering these approaches to care to fit the current health care landscape, rather than simply reacting to the opioid crisis by de-emphasizing pain treatment, CMS can better serve patients.

One example: CMS should consider a chronic pain shared-savings program targeting accountable care organizations (ACOs), where success is tied explicitly to patient functional outcomes. Benchmarking against ACO performance measures to determine if care results in savings or losses would allow these organizations to work towards meeting or exceeding quality performance standards – leading to receiving a portion of the savings generated. By incorporating incentives, this type of model would be consistent for more effective integrative intervention for pain.47

Fortunately, progressive thinking is gaining traction in this area. In a January 5, 2017 posting on the CMS Blog, authors wrote that the CMS is focusing on significant programs, including increased use of evidence-based practices for acute and chronic pain management.

“We are working with Medicare and Medicaid beneficiaries, their families and caregivers, health care providers, health insurance plans and states to improve how opioids are prescribed by providers and used by beneficiaries, how opioid use disorder is identified and managed, and how alternative approaches to pain management can be promoted.”48

While we applaud CMS, we feel it is important to point out that this approach begins with a focus on how opioids are prescribed. The focus needs to shift to early applications of non-pharmacologic approaches first and not as a follow-on after the drug path has been established.
DOCUMENTED RESULTS AND COST SAVINGS

WORKPLACE INJURIES

Back pain is the most common occupational injury in the United States and Canada, and represents the most common non-fatal occupational injury, according to the U.S. Bureau of Labor Statistics. Musculoskeletal disorders (MSDs), such as sprains or strains resulting from overexertion in lifting, accounted for 31 percent (356,910 cases) of the total cases for all workers.

Most recently, Maine Department of Labor data showed injuries to a person’s lumbar region represented 14.3 percent of all injuries reported in 2014, up from 10.7 percent just five years earlier. Health care employees have among the highest rates of musculoskeletal injuries for workers, second only to those working in the transportation and warehousing sectors.

Opiates are not a safe alternative especially when operating heavy machinery, transportation or caring for patients because side effects can alter performance and have tragic outcomes.

Take for example, a 56-year-old nurse at the Maine Medical Center in Portland. She relies on a comprehensive strategy to address her chronic back pain, which originates from having to wear heavy lead aprons when giving radiation treatments, and moving patients and equipment. Her regimen, which includes regularly seeing a chiropractor, exercises, stretches and building up her core muscles, has helped her to control her pain.

In terms of the value of a “gatekeeper” health care provider for insured workers like this nurse, a study published in Journal of Occupation Rehabilitation (September 17, 2016) cites this factor as a significant predictor of the duration of the first episode of a worker’s compensation claim. They analyzed a cohort of 5,511 workers, comparing the duration of financial compensation and the occurrence of a second episode of compensation for back pain among patients seen by three types of first health care providers: physicians, chiropractors and physical therapists in the context of workers’ compensation.
When compared with medical doctors, chiropractors were associated with shorter duration of compensation and physical therapists (PT) with longer ones. There was also greater likelihood that PT patients were more likely to seek additional types of care that incurred longer compensation duration.

Additionally, earlier research confirms that on a case adjusted basis 42.7 percent of workers who initially visited a surgeon underwent surgery compared with only 1.5 percent of those who first consulted a chiropractor.\textsuperscript{55}

**MEDICAID**

The National Academy for State Health Policy (NASHP), an independent academy of state health policymakers dedicated to helping states achieve excellence in health policy and practice, recently studied chronic pain management therapies in Medicaid, including policy considerations for non-pharmacological alternatives to opioids. A non-profit and non-partisan organization, NASHP provides a forum for constructive work across branches and agencies of state government on critical health issues.\textsuperscript{56}

**SURVEY RESULTS:**

“Has your Medicaid agency implemented specific policies or programs to encourage or require alternative pain management strategies in lieu of opioids for acute or chronic non-cancer pain?”

![Survey Results Map](image-url)
A September 2016 NASHP report states that although most Medicaid agencies cover services that can be used as alternatives to opioids for pain management, significantly fewer states have policies or procedures in place to encourage their use.

Between March and June 2016, NASHP conducted a survey of all 51 Medicaid agencies to determine the extent to which states have implemented specific programs or policies to encourage or require non-opioid therapies for acute or chronic non-cancer pain. They contacted each Medicaid director via email and, in cases of non-response, followed up with Medicaid medical directors. Ultimately, they received responses from 41 states and the District of Columbia.

Because reimbursement is a key incentive to access alternative care, they also note the most recent results of Medicaid agency reimbursement data from The Henry J. Kaiser Family Foundation (KFF): 57

- 27 reimbursed chiropractic services;
- 36 reimbursed occupational therapy services;
- 38 reimbursed psychologist services;
- 39 reimbursed physical therapy services.

Among the key findings, researchers found most Medicaid agencies cover services that can be used to treat pain in lieu of opioids, but less than half have taken steps to specifically encourage or require their use. Non-pharmacological therapies commonly used to address pain include physical therapy, cognitive behavioral therapy, and exercise, as well as other services, commonly known as Complementary and Alternative Medicine (CAM), including chiropractic manipulation, acupuncture and massage.

They point out that while the current literature on non-pharmacological alternatives is mixed, there is a growing body of evidence to support the use of alternative services to treat chronic pain. For example, a systematic review suggests lower costs for patients experiencing spine pain who received chiropractic care. 58

This finding is substantiated in Rhode Island, where the state’s Section 1115 Demonstration authorizes certain individuals enrolled in Medicaid managed care delivery systems to receive CAM services for chronic pain. 59 Rhode Island Medicaid has implemented this benefit through its Communities of Care program, a state initiative designed to reduce unnecessary emergency room utilization. Medicaid managed care enrollees with four or more emergency room visits within a 12-month period are eligible to receive acupuncture, chiropractic or massage therapy services.

The state’s two managed care plans, Neighborhood Health Plan of Rhode Island (NHPRI) and United HealthCare of New England, were responsible for developing participation criteria for their enrollees. For example, NHPRI published clinical practice guidelines for its Ease the Pain program, which specified when CAM services referrals were appropriate. Under NHPRI’s guidelines, qualifying individuals diagnosed with back pain, neck pain, and fibromyalgia can be referred for chiropractic services, acupuncture and massage.
Substantiating the results for CAM, Advanced Medicine Integration Group, L.P. in Rhode Island contracted with the two health plans to identify and manage their Medicaid eligible members suffering from chronic pain through its Integrated Chronic Pain Program (ICPP). The target Medicaid population for this program was the Community of Care (CoC) segment – high utilizers of ER visits and opioids/pharmaceuticals.

The objectives of the ICPP are to reduce pain levels (and opioid use), improve function and overall health outcomes, reduce emergency room costs and, through a holistic approach and behavioral change models, educate members in self-care and accountability.

The design of the program for this patient population features holistic nurse case management with directed use of patient education, community services and CAM modalities, including chiropractic care, acupuncture and massage.

Individuals with chronic pain conditions were identified using proprietary predictive modeling algorithms applied to paid claims data to determine opportunities for reducing chronic pain-related utilization and costs.

Results for enrolled CoC Medicaid members with chronic pain conditions document:

- Reduced per member per year (PMPY) total average medical costs by 27 percent
- Decreased the average number of ER visits by 61 percent
- Lowered the number of average total prescriptions by 63 percent
- Reduced the average number of opioid scripts by 86 percent

These reductions exceeded by two to three times those reported for a non-enrolled control group of conventionally managed CoC chronic pain patients. Every $1 spent on CAM services and program fees resulted in $2.41 of medical expense savings.
MILITARY

At the time of publication, a study entitled: Assessment of Chiropractic Treatment for Low Back Pain and Smoking Cessation in Military Active Duty Personnel, has completed its clinical trial activities and is currently in the analysis phase. Funded by a four-year grant from the Department of Defense, it is the largest multi-site clinical trial on chiropractic to date, with a total sample size of 750 active-duty military personnel.60

The purpose of this study is to evaluate the effectiveness of chiropractic manipulative therapy for pain management and improved function in active duty service members with low back pain that do not require surgery. The study also measures the impact of a tobacco cessation program delivered to participants allocated to the chiropractic arm.

Low back pain (LBP) is the most common cause of disability worldwide, but it is even more prevalent in active duty military personnel. More than 50 percent of all diagnoses resulting in disability discharges from the military across all branches are due to musculoskeletal conditions. LBP has been characterized as “The Silent Military Threat” because of its negative impact on mission readiness and the degree to which it compromises a fit fighting force. For these reasons, military personnel with LBP need a practical and effective treatment that relieves their pain and allows them to return to duty quickly. It must preserve function and military readiness, address the underlying causes of the episode and protect against re-injury.
This multisite Phase II Clinical Comparative Effectiveness Trial is designed to rigorously compare the outcomes of chiropractic manipulative therapy (CMT) and conventional medical care (CMC) to CMC alone. Chiropractic treatment will include CMT plus ancillary physiotherapeutic interventions. CMC will be delivered following current standards of medical practice at each site. At each of the four participating sites, active military personnel, ages 18 to 50, who present with acute, sub-acute or chronic LBP that does not require surgery will be randomized to one of the two treatment groups.

Outcome measures include the Numerical Rating Scale for pain, the Roland-Morris Low Back Pain and Disability questionnaire, the Back Pain Functional Scale for assessing function, and the Global Improvement questionnaire for patient perception regarding improvement in function. Patient Expectation and Patient Satisfaction questionnaires will be used to examine volunteer expectations toward care and perceptions of that care. Pharmaceutical use and duty status data will also be collected. The Patient Reported Outcomes Measurement Information System (PROMIS-29) will be utilized to compare the general health component and quality of life of the sample at baseline.

Also, because DCs are well positioned to provide information to support tobacco cessation, this clinical trial includes a nested study designed to measure the impact of a tobacco cessation program delivered by a DC. The results will provide critical information regarding the health and mission-support benefits of chiropractic health care delivery for active duty service members in the military.61

This current research was preceded by a pilot study on LBP, conducted at an Army Medical Center in El Paso, Texas, with 91 active-duty military personnel between the ages of 18 and 35.62 Results reported in the journal SPINE showed that 73 percent of those who received standard medical care and chiropractic care rated their improvement as pain “completely gone,” “much better” or “moderately better.” In comparison, 17 percent of participants who received only standard medical care rated their improvement this way. These results, as well as other measures of pain and function between the two groups, are considered both clinically and statistically significant.
RECOMMENDATIONS AND NEXT STEPS

The opioid crisis has provided a wake-up call for regulators, policy experts, clinicians and payers nationwide. As the support for complementary health techniques builds, interdisciplinary and integrative approaches to chronic pain management are considered best practices.

While the Centers for Disease Control and Prevention’s Guideline validates the need for a shift away from the utilization of opioid prescription painkillers as a frontline treatment option for pain relief, the mention of chiropractic care as a safe, effective and drug-free alternative is omitted.

Instead, CDC recommendations encourage utilization of physical therapy, exercise and over-the-counter (OTC) pain medications prior to prescription opioids for chronic pain.63

“Though the guidelines are voluntary, they could be widely adopted by hospitals, insurers and state and federal health systems.”

— CBS News64

The CDC rarely advises physicians on how to prescribe medication – which further adds to the significance of their pronouncements. Many payers and state legislators have already added these findings to their coverage on the use of opioids.

With the likelihood of major players in the industry adopting the well-respected guidelines, it is critical that chiropractic care receives the consideration it deserves.

Chiropractic care has earned a leading role as a pain relief option and is regarded as an important element of the nation’s Opioid Exit Strategy: a drug-free, non-invasive and cost-effective alternative for acute or chronic neck, back and musculoskeletal pain management.

For individuals who may be suddenly “cut-off” from painkillers, chiropractic offers a solution. But access to care will depend upon several important factors:

- Pharmaceutical Industry “Re-engineering”: A change toward responsible marketing and physician education.

- Physician Referrals to Ensure Access to Chiropractic Care: Physician prescribing of chiropractic care rather than opioids.

- Benefit Coverage and Reimbursement for Chiropractic Care: Government and commercial payers as well as plan sponsors have a responsibility to offer patients the option of chiropractic care – and reimburse DCs as participating providers.

- Access to Chiropractic Care for Active Military and Veteran Populations: Chiropractic care should be expanded in the Department of Defense and veterans’ health care systems.
As a nation, we have all come to recognize that pain is a complex, multifaceted condition that impacts millions of Americans, their families and caregivers. Unfortunately, the lessons learned about long-term opioid therapy for non-cancer pain have been deadly and heartbreaking. We now understand that there is little to no evidence to support their effectiveness for ongoing chronic pain management.

It is now incumbent upon all stakeholders to increasingly explore the appropriateness, efficacy and cost-effectiveness of alternative pain management therapies and embrace these solutions as a realistic opportunity for America’s Opioid Exit Strategy.
END NOTES


10 Obama Administration announces Prescription Opioid and Heroin Epidemic Awareness Week, 2016.


15 Cha, Ariana Eunjung, 2016.

16 Shedrofsky, Karma, 2016.


22 Mulvihill et al., 2016.

23 Mulvihill et al., 2016.

24 Mulvihill, et. al., 2016.


26 Cha, Ariana Eunjung, 2016.


52 Lawlor, Joe; 2016.

53 Lawlor, Joe; 2016.


57 It is important to note that the KFF data tracks which states allow direct reimbursement to the specific provider type (e.g., directly reimbursing a physical therapist for physical therapy services); states that do not directly reimburse these providers may actually cover the service if billed by another provider (e.g., an institutional setting). For more information, please see the notes in the following references.


61 U.S. National Institutes of Health

62 Goertz, Christine M, DC, PhD, et al; Adding Chiropractic Manipulative Therapy to Standard Medical Care for Patients With Acute Low Back Pain: Results of a Pragmatic Randomized Comparative Effectiveness Study; SPINE, Volume 38, Issue 8, April 15, 2013; http://journals.lww.com/spinejournal/Abstract/2013/04150/Adding_Chiropractic_Manipulative_Therapy_to_2.aspx


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