The health insurance industry: perpetuating the opioid crisis through policies of cost-containment and profitability

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“People don’t trust private health insurance companies for all the right reasons.” — Senator Bernie Sanders.

Throughout the world, industrialized nations look at the USA and are befuddled by its opioid crisis. Between 1999 and 2011, we witnessed the number of opioid deaths in the USA increase from 4,030 to 16,917,1 with these figures having seemingly stabilized over the past several years.2 Many agree regarding the root causes of the crisis, with an analysis by Webster et al3 identifying health comorbidities (most prominently substance use disorders), payer policies mandating methadone as a first-line treatment option, physician error due to a lack of knowledge, patient nonadherence, unanticipated medical and mental health issues, concomitant utilization of other central nervous system depressants such as benzodiazepines, and sleep-disordered breathing as contributory.

One contributor to the opioid crisis that Webster et al3 failed to discuss was fraudulent marketing regarding the safety of certain opioid analgesics. For example, while Purdue Pharma claimed that the risk of addiction to its original formulation of OxyContin® was less than 1%,4 in 2008 alone, the number of new nonmedical users of OxyContin aged 12 years or older was estimated at half a million.5 This is not to suggest that all nonmedical users are addicted or that other opioid analgesics have not been inappropriately promoted, but rather that Purdue Pharma’s biased promotion of OxyContin was certainly the most visible and publicized of such marketing efforts.

Much has been done over the past several years in order to mitigate the opioid crisis in the USA. Some of the measures that have been taken appear to have been effective, while others have been ineffectual. Some, we posit, have actually been blatantly harmful to patients with pain, and, accordingly, to society.

One such measure has been prescription drug monitoring programs (PDMPs), which have been either implemented or passed into law in every state other than Missouri.6 However, data indicate that in most states, use of PDMPs by providers is “rare”, and accordingly, PDMPs cannot be considered to be efficacious in their current forms.7

Another tactic to stem the tide of opioid overdoses and deaths has been state legislation that requires all patients receiving opioids to sign “treatment agreements”. For example, the state of Indiana passed a law late in 2013 requiring that such agreements are signed by all patients receiving opioids outside of palliative care settings for more than 3 consecutive days.8 “Treatment agreements”, also known as “opioid agreements” and “opioid contracts”, have been considered part of “universal precautions” since...
the seminal paper by Gourlay et al was published in 2005.9 However, there is no evidence that an agreement has had any effect on stifling opioid abuse; furthermore, addicted people are likely to agree to sign anything if it results in access to their substance(s) of abuse.

Urine drug testing is also a part of universal precautions that has its advocates10 and, more recently, its detractors.11 Unfortunately, while urine drug testing makes a considerable degree of common sense, the empirical evidence regarding its efficacy in reducing prescription opioid abuse is limited, as determined by systematic reviews.12,13

Many also believe that improving physician understanding of the potential dangers of opioid analgesics is an effective means of reducing opioid aberrancy, overdoses, and deaths.14 Some have opined that improving physician education regarding the overall treatment of pain is likely to be helpful.15 This may be true, although there is a dearth of empirical data supporting even mandatory pain continuing medical education’s positive impact on opioid prescribing patterns. It has been noted that mandatory pain medical education regarding opioids fails to address the real causes of prescription opioid abuse,16 and until states with mandatory pain continuing medical continuing education requirements are able to empirically establish that they save lives, the impact of their efforts remains presumptive.

Another nonempirically-based approach to solving the prescription opioid abuse and overdose problem in the USA has been state policy and systems-level interventions pertaining to what constitutes “appropriate” dosages of opioids. A recent review17 of such approaches concluded that while such efforts are important, the data supporting them are “limited and inconsistent”. The authors of the review note the importance of improving the evidence bases, requiring improvements before such approaches are considered a requisite for making broad policy and practice decisions based upon them. Among such interventions are state-mandated efforts to limit the amounts of opioids prescribed, often in terms of a morphine-equivalent daily dosage. A review of opioid guidelines18 indicates considerable disagreement regarding upper dosing thresholds, with none of thresholds in any way evidence-based. Although a study in Washington State19 determined that the risk of overdose increased with higher dosages of opioid analgesics, most overdoses occurred at low to moderate dosages, as these are the dosages most likely to be prescribed. While some of the authors of the Washington State opioid dosing guideline that went into effect in 2007 noted the temporal contiguity between the implementation of the guideline and the state’s decrease in prescription opioid mortality,20,21 they fail to mention that the guideline was written in a manner that had a clear “chilling effect” on providers and hospital systems — scaring them into abandoning opioid therapy altogether as an aspect of their pain management armamentaria.22 Beyond the 2007 guidelines, in 2010 Washington State proceeded to pass an even harsher law dictating how physicians can treat pain, with that law going into effect in 2011. While Franklin et al23 reported in 2013 that only a small percentage of providers had discontinued prescribing opioids for chronic noncancer pain, anecdotal reports within the clinical practice of the first author (MES) suggest that the actual figure is considerably higher.

We believe that most of these efforts to reduce prescription drug abuse are well intended and suspect they may have prevented overdose deaths and diversion, although measuring their efficacies as stand-alone strategies or as elements of a coordinated risk evaluation and management strategy is likely impossible. We propose another measure for more sustained, serious consideration. For a number of years, the pharmaceutical industry has understood that producing opioids in tamper-resistant/abuse-deterrent formulations (TR/ADFs) could potentially reduce their abuse and associated overdoses and deaths.

There is evidence that these formulations may work to reduce real-world abuse. In the 1970s, addicts learned that pentazocine, when mixed with an antihistamine and injected, produced euphoria similar to that associated with heroin. Sterling-Winthrop responded by creating and receiving US Food and Drug Administration (FDA) approval for a pentazocine-naloxone combination product, thereby developing the first ADF in 1982. Emergency room visits associated with pentazocine decreased rapidly.24 In 2010, Purdue Pharma voluntarily reformulated its extended-release oxycodone product, the drug most commonly associated with abuse and the opioid crisis.25 Initially, they were not permitted to market it as an ADF due to a lack of research supporting the claim.26 However, the subsequent research supporting its efficacy as an ADF has been compelling,27–30 and its approval by the FDA as the first opioid permitted to be labeled as an ADF was granted in 2013.31 Although Purdue Pharma’s generous research budget has made their oxycodone ADF the most heavily investigated in terms of efficacy for deterring abuse, support of TRFs of other opioid analgesics is also beginning to appear in the literature.32–34 As TR/ADFs are proving effective in reducing opioid abuse and mortality, it has been suggested that all TR/ADFs are granted Schedule III status, while all non-TR/ADFs are provided with Schedule II status as a rational response to the opioid scheduling conundrum.35
The availability of TR/ADFs to significantly attenuate the US opioid crisis is not part of the agenda of the health insurance industry, the sole focus of which is on cost-containment and profitability. Schatman et al have written extensively regarding the role of the health insurance industry in perpetuating suboptimal pain care in the USA by refusing to cover interdisciplinary treatment programs, and the ethical implications of this decision.\textsuperscript{36–43} Despite their extremely strong evidence bases for clinical efficacy\textsuperscript{44–47} and empirical data supporting their cost-efficiency,\textsuperscript{48,49} the number of such programs in the USA has decreased from over 1,000 in 1999\textsuperscript{50} to fewer than 100 today outside the Veterans Administration.\textsuperscript{51} Not surprisingly, in nations where citizens’ health and well-being are considered the responsibility of the government, the number of interdisciplinary pain programs has been growing steadily.\textsuperscript{51} It may not be a coincidence that the opioid crisis in the USA began at about the same time that the number of interdisciplinary programs began to precipitously decrease. Postras noted that the change in general pain management practices during this period resulted in “a substantial and predictable impact on the available supply of prescription opioids available for diversion”.\textsuperscript{52} One of the great benefits of interdisciplinary pain treatment programs is that their goals and outcomes include cessation of, or at least reduction in, opioid analgesic utilization.\textsuperscript{53–56}

Part of the US opioid crisis was related to private and public insurers’ decisions to designate methadone as a first-line drug for chronic pain, based only upon its extremely low cost.\textsuperscript{3} This insurance industry policy accompanied the involvement of methadone in approximately one third of all fatal prescription opioid deaths between the years 1999 and 2010, despite the drug representing only 5% of all opioids prescribed (or 9% based on 2010 data).\textsuperscript{53} We hope that with the release of the American Pain Society Methadone Safety Guidelines\textsuperscript{58} and an American Academy of Pain Medicine position paper\textsuperscript{60} last year that identified methadone’s lack of efficacy in treating chronic pain and the established safety issues, methadone prescriptions for chronic pain will dramatically decrease. Irrespective, insurers can be expected to continue to look for ways to contain the costs associated with treating patients with chronic pain, with dollars taking precedence over regard to individual or societal well-being.

The costs of research and development of TR/ADFs are staggering, as is the case with many types of drugs. Given the opioid crisis, the FDA is particularly stringent in regard to the requirements for established safety and efficacy of all opioid products.\textsuperscript{60} Accordingly, TR/ADFs are expensive. A number of authors have written about insurance carriers’ unwillingness to cover TR/ADFs,\textsuperscript{61–63} with Brushwood et al\textsuperscript{64} expressing concern that a patient may require documentation of risk of abuse or even a diagnosis of addiction in order to receive third-party coverage. Indeed, a review of a cross-section of formularies\textsuperscript{65} determined that the reformulated continuous-release oxycodone is often excluded from private insurance formularies, irrespective of its strong empirical support for abuse deterrence. It is important to note that research has indicated that insurance carriers were reluctant to pay for the more expensive OxyContin even prior to its reformulation for enhanced safety, resulting in increased use and abuse of less expensive and more dangerous opioids.\textsuperscript{66} Ben-Joseph et al\textsuperscript{67} recently determined that access limitations of a pre-ADF and post-ADF formulation of an opioid due to prior authorization and tier change (ie, assigning more expensive medications higher co-pays) restrictions resulted in increased overall medical costs without any offset savings in pharmacy costs. Beyond the empirical findings, anecdotal reports of insurers’ refusal to cover TR/ADFs abound. This has become particularly problematic in instances where physicians who are concerned with patient safety (and perhaps the integrity of their own practices) refuse to prescribe any opioids other than TR/ADFs. As is so often the case, the cost-containment and profitability “ethic” of the insurance industry results in unnecessary patient suffering, either through oligoanalgesia or individuals at high risk for aberrancy being prescribed less safe opioids.

Not only do TR/ADFs potentially save lives, but economic costs to society as well. Kirson et al\textsuperscript{68} recently determined that the annual societal cost savings associated with the oxycodone ADF in the USA include annual medical cost savings of $430 million and indirect societal savings of $605 million annually, totaling over $1 billion in savings per year. Their analysis did not include savings associated with the numerous other TRFs currently on the market, although it can be assumed that they, too, have resulted in substantial societal savings. As TR/ADFs are less “desirable” or “likable” among abusers\textsuperscript{69,70} they become less likely to be diverted. This is of great significance as research indicates that diversion accounts for as many as 63% of fatal prescription medication overdoses.\textsuperscript{71}

In regard to TR/ADFs, Katz et al\textsuperscript{72} suggested that “Formulary controls that limit reimbursement can help ensure that higher risk opioids are not prescribed unless the risks outweigh the benefits”. The question becomes, however, “risk to whom?” The insurance industry’s frequent refusal to
cover TR/ADFs is not particularly “risky” within their own profit-driven contexts. The data suggesting that approval of TR/ADFs would result in savings for insurers is ignored in many instances, illustrating that the health insurance industry is “penny wise and pound foolish”. However, there exists another possible explanation for this self-defeating behavior – one that would also explain insurers’ increasing refusal to pay for cost-effective interdisciplinary pain management programs. The insurance industry is aware of the data indicating that the average enrollee will switch insurance carriers every few years. Accordingly, their seemingly nonsensical policy of refusal to cover TR/ADFs may be more shrewdly calculated than appears on the surface. The extreme expense of paying for the treatment of prescription opioid abuse is certainly no secret, with a recent study indicating that tampering with opioid analgesics results in substantial increases in health care use. However, given the frequency with which enrollees switch carriers, it is quite possible that insurers are willing to take the chance that the next carrier will be forced to “pick up the pieces” of abuse and addiction. Given the substantial expense associated with treating chronic pain, would the insurer’s bottom line not improve if these “expensive” enrollees were to simply expire? Some states are trying to rein in the sole focus on profits. In the past several years, a small handful of states have passed legislation prohibiting insurers from engaging in “fail first” policies. These policies have encouraged the dispensing of generic (and in the case of opioids, non-TR/ADFs) medications even if the physician has stipulated that the patient should receive a branded medication. Nayak and Pearson have suggested that more than other cost-containment strategies, “fail first” policies result in significant ethical concerns. While these limited state actions should be commended, this egregious insurance industry practice continues in all but the eight states that have enacted legislation prohibiting or severely limiting this maleficent policy.

In summary, in the interests of cost-containment and profitability, the health insurance industry has contributed to the opioid crisis in the USA by refusing to pay for therapies to reduce the harm associated with opioid prescribing. A better way to marry cost-containment with societal well-being is to support progressively safer delivery systems for the opioid analgesics that remain a crucial component of pain physicians’ treatment armamentaria. Federal agencies such as the FDA and the Drug Enforcement Administration claim to have an interest in stemming the tide of opioid abuse. Perhaps it is time for the federal government to require health insurance carriers (including Medicare and Medicaid) to provide coverage for the opioid formulations that have the potential to substantially ameliorate the nation’s persisting prescription opioid crisis.

Disclosure

Over the past year, MES has served on advisory boards for Mallinckrodt and Zogenix, and on the speakers’ bureau of Mallinckrodt. Over the past year, LRW has consulted or received research grants from AstraZeneca, BioDelivery Sciences International, CVS Caremark, Depomed, Egalet, Grunenthal USA, Inspirion Pharmaceuticals, Insys Therapeutics, Jazz Pharmaceuticals, Kaleo, Mallinckrodt, Nektar, Nevro, Orexo, Proove Biosciences, Signature Therapeutics, Synchrony Healthcare, Teva, and Travena.

References


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