As Sen Daniel Patrick Moynihan (D, New York) memorably observed, “Everyone is entitled to his own opinion, but not his own facts.” In that spirit, we identify five myths of medical malpractice that have wide currency in medical circles. One can find these mistaken and misleading views in op-eds, blog postings, and public statements by physicians of all specialties, including those designated as spokespersons for organized medicine.

The myths are as follows:

1. Malpractice crises are caused by spikes in medical malpractice litigation (ie, sudden rises in payouts and claim frequency).
2. The tort system delivers “jackpot justice.”
3. Physicians are one malpractice verdict away from bankruptcy.
4. Physicians move to states that adopt damages caps.
5. Tort reform will lower health-care spending dramatically.

Readers have surely heard of all these views. In this article, we compare each myth with the available empirical evidence on the subject.

Although we focus on various myths of medical malpractice, we do not believe that all is well with the medical malpractice system. We discuss the real pathologies of the system at the end of this article. But, like Sen Moynihan, we believe that good policymaking requires an understanding of the real facts, whatever they may be.

### Myth 1: Malpractice Crises Are Caused by Spikes in Malpractice Litigation (ie, Sudden Rises in Payouts or Claim Frequency)

It is natural to believe that malpractice crises are caused by sudden and dramatic increases in malpractice litigation, particularly when physicians can readily summon to mind jury verdicts with jaw-dropping awards issued to patients with highly questionable (if not entirely frivolous) claims. However, extensive research indicates that these highly salient anecdotes of runaway jury verdicts are thoroughly unrepresentative.

Because the overwhelming majority of payments to plaintiffs are the result of voluntary settlements, one must study closed claims (rather than jury verdicts) to get a full picture of what is going on. Using both federal and state closed claims databases, studies have found that both the frequency of malpractice claiming and the payments per claim were either stable or declining during the period that preceded the latest malpractice crisis, which began in 1999 to 2000. For example, a study we recently completed using the National Practitioner Databank found that the frequency of paid medical malpractice claims per physician...
has been dropping steadily since 1992, and is now less than one-half the level it was in 1992 (Myungho Paik, PhD; Bernard Black, JD; and David A. Hyman, MD, JD, unpublished data, October 28, 2012). Payout per physician was roughly stable from 1992 to 2001 but began dropping in 2003 and is now 46% below the 1992 level. The decline is largest in states that recently capped total or noneconomic damages, but there are also large and sustained declines in states with no damages caps. An earlier study using National Practitioner Databank data found that average payments grew 52% from 1991 to 2004, roughly in line with petitioner Databank data found that average payments.

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The finding that the latest malpractice crisis was not caused by spikes in malpractice claims or payouts should not be surprising. Although hot spots can occur, the liability system primarily responds to (and lags) the frequency of serious medical injuries. Because the frequency of serious medical injuries changes slowly, the litigation rate should not be prone to dramatic spikes in claiming.

Similarly, the outlandish jury verdicts that attract popular attention are not at all representative and often are slashed dramatically by judicial oversight or through other means. More broadly, the overwhelming majority (>95%) of cases are resolved, and the overwhelming majority of payouts are made as a result of voluntary settlement.

So what causes malpractice insurance crises if not spikes in liability? Insurance scholars have offered several theories, including underpricing and under-reserving in soft market periods and external shocks that trigger constraints on the capacity of the insurance system to cover risks.\textsuperscript{4-8} We do not know which of these theories is correct, but we do know that the only malpractice crisis for which high-quality data are available was not caused by spikes in malpractice litigation.

**Myth 2: The Tort System Delivers Jackpot Justice**

The assertion that the malpractice liability system serves up jackpot justice takes various forms, but the basic charge is that the system doles out compensation randomly.\textsuperscript{9} Uninjured patients take home millions, whereas those who suffer grievously receive little or nothing at all.

There is a grain of truth to this charge, particularly if one focuses on the inputs to the malpractice system. Many patients who experience bad outcomes cannot tell whether they are victims of negligent treatment or of bad luck. Consequently, many patients who received appropriate care initiate claims. A far larger problem, however, is that an enormous fraction of patients who are harmed by medical negligence either make no effort to recover damages or cannot find lawyers willing to take their cases. These patients, who are entitled to compensation, never initiate claims. Thus, the liability system is simultaneously beset by overclaiming and underclaiming.

If one focuses on outputs, the liability system does much better than conventional wisdom suggests; it sorts the wheat from the chaff reasonably well. Focusing on those who initiate claims, patients treated negligently recover damages far more often than patients who were treated nonnegligently.\textsuperscript{10} There is also a well-established severity gradient: Payments increase with injury severity, with the exception of a death discount (ie, those who die receive less than those who are severely and permanently injured). Unfortunately, most patients are undercompensated, and those with the most severe injuries suffer the biggest gap between provable injuries and the amounts they recover.

Table 1 provides some objective figures drawn from a closed claims database maintained by the Texas Department of Insurance. Because Texas adopted tort reform in 2003, Figure 1 separately reports results for 6 years prereform and postreform.\textsuperscript{11} Table 1 shows that even in a state as large as Texas (population of almost 25 million), there were only 7,650 malpractice claims per year during the prereform period, and

<table>
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<th>Table 1: Summary Statistics on Texas Medical Malpractice Claims, 1998 to 2009</th>
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<td>Total malpractice claims, per y</td>
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<td>Malpractice claims that close without payment, %</td>
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<tr>
<td>Total large paid malpractice claims, per y</td>
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<td>Mean payout for all large cases, $</td>
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<td>Median payout for all large cases, $</td>
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<tr>
<td>Number of large paid malpractice claims after plaintiff prevails at trial, per y</td>
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<td>Mean jury verdict (when plaintiff prevails at trial), millions $</td>
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<td>Mean payment after jury verdict</td>
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<td>(when plaintiff prevails at trial), millions $</td>
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<td>Median jury verdict (when plaintiff prevails at trial), $</td>
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All figures are for Texas closed claims. Large cases are those with payment in excess of $25,000 (1988 dollars). This cutoff (about $46,000 in 2010 dollars) accounts for 98% of total payouts.
most malpractice cases are settled or dismissed; only about 2% of claims are tried, and at trial, providers win about 75% of the time.

When one compares actual payments to jury awards, many patients who win turn out to be losers as well. Because jurors tend to be stingy, awards often fail to cover patients’ actual losses. Blockbuster verdicts dominate the press, but their coverage reflects their rarity. Reporters are interested in big verdicts for the same reason they are interested in airplane crashes: Both are unusual. Any verdict, blockbuster or otherwise, that exceeds the limits of a provider’s insurance coverage is quite unlikely to be paid in full. Our study of Texas jury verdicts, which was based on an enormous closed claim database maintained by the Texas Department of Insurance, quantified the frequency and magnitude of verdict haircuts, where the plaintiff received less than the jury awarded. We found that the larger the verdict, the more likely and larger the haircut because policy limits serve as a functional cap on patients’ recoveries. Stated differently, the portion of a jury award that exceeds the available insurance coverage is rarely collectible. Other studies have documented similar haircuts with large verdicts.

We also learned something that may surprise many readers. When payments above the policy limits were made, whether in tried or in settled cases, they almost always came from insurers. Out-of-pocket payments by physicians were extraordinarily rare, particularly when physicians had policy limits of $500,000. One might say, with only the slightest exaggeration, that physicians have effectively no personal exposure on malpractice claims (other than the obvious and unavoidable side effects of litigation, eg, the emotional and time-related costs of being deposed). Why do plaintiffs’ lawyers not pursue personal assets? Years ago, a qualitative study documented a strong social norm among malpractice lawyers against seeking “blood money” from individual physicians. Our findings buttress that account. The only physicians who should worry about personal exposure are those who grossly underinsure, and even they should not worry too much.

**Myth 4: Physicians Move in Large Numbers to States That Adopt Damages Caps**

If physicians relocate because of liability risk, damages caps are an obvious strategy for attracting more physicians, particularly in lawsuit-prone specialties. Reform advocates have argued that damages caps have exactly this effect. Of course, this strategy only works if some states do not have caps. When all states have caps, the incentive to relocate disappears. Thus, a nationwide cap would actually reduce relocations. Table 2 lists the states that currently have damages caps in effect and provides some basic information on how
Various researchers have studied the impact of damages caps on physician supply. They have found mixed evidence, suggesting that damages caps may have a small positive impact on physician supply in rural areas or particular specialties, but much less evidence of postreform increases in statewide physician counts. For example, Encinosa and Hellinger found that states that adopted damages caps had 3.2% more physicians per capita in rural counties. Matsa found no effect of damages caps on overall physician supply but did report a positive and significant increase in physicians per capita in the quartile of counties with the lowest population density. Klick and Stratmann found a 6% to 7% rise in per capita counts for the five highest-lawsuit-risk specialties, and a 3% to 4% effect for the 10 highest-risk specialties relative to the five lowest-risk specialties, with risk based on payout per paid claim. Kessler et al. reported that damages caps predicted a 3.3% increase in physicians per capita 3 years after reform, with the effect coming from greater entry and slower retirements.

In a study, we examined Texas’s experience after it adopted damages caps in 2003 (David A. Hyman, MD, JD; Charles Silver, JD; Bernard Black, JD; and Myungho Paik, PhD, unpublished data, October 28, 2012). Before Texas adopted tort reform, proponents claimed that physicians were deserting Texas in droves. After tort reform was enacted, proponents claimed that there had been a dramatic increase in physicians moving to Texas because of the improved liability climate. We found no evidence to support either claim. Physician supply was not measurably stunted prior to reform, and it did not measurably improve after reform, whether one focused on all patient-care physicians in Texas, on high-malpractice-risk specialties, or on rural physicians. Thus, although damages caps may play a small role in attracting and keeping physicians practicing in rural areas and in high-risk specialties, the evidence is mixed, and some studies have found no effect.

### Table 2—States Currently With Damages Caps

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<thead>
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<th>Type of Damages Cap</th>
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<tr>
<td>Total damages caps</td>
<td>Colorado, Indiana, Louisiana, Nebraska, New Mexico, Virginia*</td>
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<tr>
<td>Both caps</td>
<td>Massachusetts</td>
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*Inflation adjusted.

### Myth 5: Tort Reform Will Lower Health-care Spending Dramatically

How much does the malpractice system cost, and how much will tort reform reduce the cost of the malpractice system, including its impact on health-care spending? As our formulation reflects, it is important to distinguish between the direct and indirect costs of the malpractice liability system. The direct costs include the cost of malpractice awards and settlements and all costs associated with defending against such claims, including the administrative costs of medical malpractice insurers. The indirect costs (commonly called defensive medicine) are incurred when providers take steps to reduce their perceived likelihood of being sued, such as by running extra tests. Because tort reforms make lawsuits less likely and less expensive, they may reduce defensive medicine and thereby reduce health-care spending. There is broad agreement that the direct costs of the malpractice system are relatively modest (ie, on the order of 2% of health-care spending). However, proponents argue that tort reform can also reduce indirect costs by amounts ranging from $100 billion to $650 billion per year.

Kessler and McClellan performed the first rigorous studies of the impact of tort reforms on health-care spending and found that damages caps and other reforms that limited liability directly reduced post-treatment medical spending by 5% to 9%. In response to criticisms that their study had not controlled for managed care penetration, Kessler and McClellan reanalyzed their data and found a 4% to 5% decline. More recent studies cast doubt on the generalizability of Kessler and McClellan’s results because they studied only Medicare patients who were treated for serious heart disease in 1984, 1987, and 1990. The Congressional Budget Office applied Kessler and McClellan’s methods to a broader range of medical conditions, and “found no evidence that restrictions on tort liability reduce medical spending.” A follow-up Congressional Budget Office study with additional controls estimated that a cap on noneconomic damages would reduce Medicare spending by a statistically insignificant 1.6%. A study by Sloan and Shadle studied only Medicare patients who were treated for serious heart disease in 1984, 1987, and 1990. The Congressional Budget Office applied Kessler and McClellan’s methods to a broader range of medical conditions, and “found no evidence that restrictions on tort liability reduce medical spending.” A follow-up Congressional Budget Office study with additional controls estimated that a cap on noneconomic damages would reduce Medicare spending by a statistically insignificant 1.6%. A study by Sloan and Shadle found that lower risk predicted modestly lower health-care prices, no significant change in health-care quantity, and somewhat higher mortality. In two studies, Baicker and Chandra found no overall association between insurance premiums and Medicare spending but did find an association for the Medicare Part B spending subcategory for diagnostic, laboratory, and radiograph services. They hypothesized that diagnostic testing is
more likely to reflect defensive medicine than medical practice more generally and, thus, is more sensitive to liability risk. Thomas et al compared medical spending for 35 clinical specialties in regions with high and low medical malpractice insurance premiums. They concluded that even a large (30%) reduction in medical malpractice premiums would predict only a 0.4% decline in health-care spending. Avraham et al measured spending in terms of premiums collected by employer-funded health insurance plans representing >10 million Americans annually from 1998 and 2006. They found that each of three reforms (caps on noneconomic damages, abrogation of the collateral source rule, and reform of joint and several liability) reduced premiums for self-funded health plans by 1% to 2% but had no effect on premiums for fully insured plans. Other studies, including those that have focused on patterns of clinical practice, have produced similarly modest or mixed results. 

In our own work, we found that Texas’s adoption of a damages caps resulted in a dramatic decline in claim frequency and payout per claim, reducing overall payouts by about 75%. However, this dramatic change in the malpractice environment did not result in significant changes in health-care spending levels or trends, as assessed statewide and at the county level. Indeed, we found some evidence of increased physician spending postreform in counties where medical malpractice risk was high. In sum, we found no evidence that Texas’s tort reforms bent the cost curve downward.

**Some Truths About the Medical Malpractice System**

We have cataloged five myths of the medical malpractice system. Now we turn to some truths. First, the malpractice system is slow. On average, it takes about 2 years from the date of injury to the date a lawsuit is filed and roughly the same amount of time for the case to be settled. But the time period required can be much longer, particularly if minors are involved or if the case goes to trial. It is unrealistic to expect the malpractice system to provide much in the way of useful feedback if it takes at least 4 years to get an answer.

Second, the malpractice system is extremely expensive. In an earlier article, we reported that the cost of defending paid medical malpractice claims has roughly doubled since 1988 and was about 20% of the amount paid to the plaintiff. Even if the fee for retaining a plaintiffs’ attorney, along with the associated costs, has remained constant at about 35% of the amount recovered, this still means that it costs >$1 for the plaintiff to end up with $1 in his or her pocket. In part, high costs are “baked into” the third-party fault-based process for determining who gets paid by the malpractice system. Costs are also increased by limitations on who can serve as an expert because decreased supply translates into higher prices.

Finally, damages caps do little to improve the malpractice system. Although they can dramatically reduce claims frequency, payouts per claim, and insurance premiums, they do not make health-care safer, reduce health-care spending, compensate those who are negligently or negligently injured, or make the liability system work better. The best reforms are patient safety initiatives that reduce the frequency and severity of medical mistakes. Ideally, the liability system would encourage providers to adopt patient-protecting innovations. Its effect in that regard is limited, however, partly because tort reforms insulate providers from many of the costs of medical errors.

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**References**


