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10	Synopsis	10
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12	Civil juries resolve disputes between individuals or between individuals and	12
13	commercial entities. Most civil jury trials occur in the United States; a few	13
14	other countries use civil juries occasionally. Spurred by media attention to large	14
15	damage awards in prominent cases, commentators have expressed concerns	15
16	about the ability of laypeople to resolve these disputes. They suggest that civil	16
17	juries are overly sympathetic to plaintiffs, biased against wealthy defendants,	17
18	and likely to make unpredictable and unreasonable decisions. Psychologists	18
19	and other social scientists have examined these suppositions and found that	19
20	although civil jury trials <i>do</i> involve complicated and technical issues that tax	20
21	some jurors' abilities and although the applicable laws are sometimes poorly	21
22	understood, most judges agree with most jury verdicts. Furthermore, reforms in	22
23	trial procedures can improve jurors' ability to understand the evidence and apply	23
24	the law, enhancing the likelihood of reasoned and predictable verdicts.	24
25		25
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27	Psychological Issues in Civil Trials	27
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29	A civil trial is a legal forum in which juries and judges resolve disputes between	29
30	individuals or between individuals and businesses or corporations. The vast	30
31	majority of civil jury trials take place in just one country, the United States,	31
32	where the right to a trial by jury in a civil case is provided by the Seventh	32
33	Amendment to the Constitution:	33
34		34
35	In Suits at common law, where the value in controversy shall exceed twenty	35
36	dollars, the right of trial by jury shall be preserved, and no fact tried by a	36
37	jury, shall be otherwise re-examined in any Court of the United States, than	37
38	according to the rules of the common law.	38
39		39
40		40

1 Though the institution of trial by jury is gaining a foothold in many countries where 1
 2 only a few years ago no such entity existed (Vidmar, 2000), the vast majority of these 2
 3 countries provide for jury trials only in criminal cases; far fewer legal systems resolve 3
 4 civil disputes by means of a jury trial. Although vestiges of civil jury trials do still 4
 5 linger in some of the countries of the former British Commonwealth (e.g., England, 5
 6 Wales, Canada, and New Zealand), the right to a jury trial in these jurisdictions is not 6
 7 absolute and often seems more theoretical than actual. 7

8 In this chapter, I first describe the nature of American civil trials, detailing the 8
 9 kinds of disputes that they involve and their typical outcomes, and then analyze 9
 10 civil jury trial practices in other countries. I then detail some oft-heard concerns 10
 11 about the unpredictable nature of civil juries and jury verdicts. To address these 11
 12 concerns, I review the results of psychological research studies that have examined 12
 13 some obstacles to reasoned and predictable decision-making. These include the 13
 14 complexity inherent in many civil cases and the general difficulty that civil jurors 14
 15 experience in understanding and applying their instructions. Finally, I outline the 15
 16 ways that trial procedures are being modified and civil jurors helped to make better, 16
 17 more predictable decisions, along with the psychological data on the effects of these 17
 18 reforms. 18

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21 **The Nature of American Civil Trials** 21

22
 23 Two issues typically loom in every civil trial in the United States. The first concerns 23
 24 the liability of the defendant (and, in cases of comparative negligence in which the 24
 25 plaintiff has some responsibility for injuries sustained and in cases involving counter- 25
 26 claims, the liability of the plaintiff). The second concerns the amount of money (or 26
 27 damages) to be awarded to the plaintiff as compensation. Damage awards can be 27
 28 of several sorts. Compensatory damage awards are generally intended to return the 28
 29 plaintiff to pre-injury levels of functioning or to repair the harms caused by the 29
 30 injury or wrong. These monies cover the financial costs incurred by the plaintiff such 30
 31 as lost income, medical expenses, lost business opportunity, and damage to one's 31
 32 reputation. These damages are termed "economic" or "pecuniary" because they are 32
 33 based on an arguably quantifiable metric. Compensatory damages can also include 33
 34 a noneconomic (or "nonpecuniary") component to compensate the plaintiff for 34
 35 intangible injuries including pain and disfigurement, emotional distress, and loss of 35
 36 enjoyment of life. These losses are less easy to quantify. In addition to compensatory 36
 37 damages, punitive damages are occasionally awarded to punish the defendant for 37
 38 malicious or egregious conduct and to deter future transgressions. Punitive damages 38
 39 are usually awarded only if compensatory damages have also been awarded and 39
 40 appellate courts expect that there will be some reasonable relationship between the 40
 41 two (*BMW v. Gore*, 1996). 41

42 Although jurors and judges must make multiple decisions about liability and 42
 43 damages (e.g., Was the plaintiff harmed? Did the defendant's actions cause the 43

harm? Should the plaintiff receive compensatory damages?) on the basis of discrete sets of evidence presented at trial, there is some evidence that juries may lack the ability to effectively separate the two broad sets of evidence (i.e., those relevant to liability and to damages) and rely only on the evidence pertinent to each decision. For example, Greene et al. (2001) showed that mock jurors used evidence of injury severity—theoretically related only to damages—when assessing liability, and Greene et al. (1999) showed that jurors used evidence related to the reprehensibility of the defendant’s conduct—theoretically related only to liability—when assessing damages. In general, judgments of responsibility are positively correlated with injury severity (Robbennolt, 2000).

Psychologists who study decision-making in civil trials have tended to focus on damages rather than liability.¹ The reasons for this preference are many, including the fact that damage awards are inherently arbitrary and that it is sometimes extremely difficult to attach a monetary value to suffering and losses. In addition, damages are certainly more variable than liability judgments, allowing jurors’ sentiments, preferences, and biases to have more impact on the decision. But the primary reason that psychologists have become interested in examining damages determinations is that much controversy surrounds jurors’ assessments of damages, spurred in large part by attention from the media.

The media tend to cover large, class-action lawsuits (cases filed by a group of individuals who claim similar injuries allegedly inflicted by large corporations such as tobacco companies and drug manufacturers) and smaller, though still sensational cases brought against corporate executives. Through this process, the public learns, for example, about multi-million (and occasionally, multi-billion) dollar punitive damage awards against large corporations like Philip Morris, Exxon, or Merck (often, these awards are reduced or thrown out on appeal) and about corporate debacles at WorldCom, Enron, HealthSouth, and Tyco, among others.

But are these the kinds of disputes that are typically resolved in civil trials? The answer is a resounding “No”; despite their prominence in the media and in debates about the fairness and efficiency of civil jury trials, Bailis (1996) suggests that these large-stakes cases are, in fact, highly atypical.

Systematic analyses of civil jury trials provide information on typical case characteristics and trial outcomes. For example, data compiled by Cohen (2004) from the 75 most populous counties in the United States in 2001 show the types of disputes that are commonly resolved in civil trials. According to these data, torts (civil wrongs such as automobile negligence and medical malpractice) accounted for two thirds of the 12,000 civil trials held in U.S. state courts. (Contract and real property disputes accounted for the remainder.) Juries decided 90 percent of these cases and judges decided only 10 percent. Automobile accidents were the most

¹ Notable exceptions that examine how jurors determine liability include studies by Bornstein, 2004; Cooper et al., 1996; Feigenson et al., 2001; Greene et al., 1999; and Kamin and Rachlinski, 1995.

1 common source of the dispute (53% of tort trials), followed by premises liability 1
 2 (16%) and medical malpractice (15%). Cases involving intentional torts, product 2
 3 liability, and slander and libel were less common. In terms of the litigants, 70 percent 3
 4 of tort trials involved only one plaintiff and 56 percent involved only one defendant. 4
 5 Four fifths of all tort trials involved one individual suing either another individual or 5
 6 a business, making this constellation of circumstances the most typical form of civil 6
 7 trial overall. Across all trials, plaintiffs won approximately half the time, although 7
 8 they were more likely to be successful in automobile cases (61% win rate) than in 8
 9 premises liability (42% win rate), medical malpractice (27% win rate), or slander/
 10 libel cases (42% win rate). 10

11 The median damage award for plaintiff winners was not in the million dollar 11
 12 range but rather, was a modest \$27,000 though awards varied considerably by type 12
 13 of case (e.g., the median award was only \$16,000 in automobile cases and \$422,000 13
 14 in medical malpractice cases.) Damages of \$1 million or more were awarded rarely; 14
 15 only 8 percent of plaintiffs who won their cases won more than \$1 million. Punitive 15
 16 damages, intended to punish the defendant and to deter the defendant and others 16
 17 from similar conduct in the future, were also rare and, when awarded, were modest. 17
 18 Several of these findings (e.g., that most cases involve single individuals suing other 18
 19 individuals or businesses, that plaintiffs win only half the time and when they do, 19
 20 that awards are generally modest) run counter to public perceptions of civil juries 20
 21 as biased in favor of plaintiffs who receive a windfall by taking their cases to court, 21
 22 and of jurors eager to extract large sums of money from well-heeled corporate 22
 23 defendants. 23

24 A slightly different pattern emerges from analysis of cases tried in federal courts 24
 25 (i.e., courts that resolve cases in which the federal government is a party or that involve 25
 26 complaints based on federal laws including statutes and the federal constitution). In 26
 27 his compilation of data from U.S. District Courts, Galanter (2004) showed that of 27
 28 the 4,500 cases tried in 2002, fully one third involved civil rights disputes, slightly 28
 29 fewer than one quarter involved torts, 15 percent concerned contracts, and 11 percent 29
 30 involved prisoner petitions regarding their release and their civil rights claims. 30
 31 Regardless of the precise nature of the civil trial, it is actually of a vanishing breed. 31
 32 Although most civil cases have historically been resolved well short of trial, Galanter 32
 33 (2004) has shown a dramatic drop in the actual number of cases being tried in the 33
 34 past 40 years. The reasons for this are many, including the fact that fewer cases get to 34
 35 court in the first place (perhaps because lawyers are more likely to opt not to represent 35
 36 people whose cases are likely to fail), cases are diverted to alternative dispute forums, 36
 37 and it is becoming increasingly expensive to mount a trial. 37

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40 **A Comparative Look at Civil Trials in Other Countries** 40

41 41
 42 While trial by civil jury is becoming less common in the U.S., civil jury trials 42
 43 have become almost nonexistent in most other countries. In fact, only a handful 43

1of countries use any kind of lay panels to resolve non-criminal disputes; most are 1
2resolved by judges, magistrates, or commissions. And countries that *do* allow for 2
3civil juries, including Canada, New Zealand, England, and Wales, use them only 3
4rarely. According to Bogart (2000), the notion of the civil jury in Canada “dangles by 4
5a shoestring despite the fact that it enjoys broad public support” (p. 415). Civil juries 5
6exist in little more than name only in some jurisdictions in Canada and have been 6
7abolished outright in others. Juries are used more in Ontario, the largest province, 7
8than in other provinces, but even in Ontario, jury trials are far less common than in 8
9the United States. In New Zealand, despite the fact that either party can request a 9
10jury trial, they are so rare that the Department of the Courts has apparently stopped 10
11keeping statistics on their use (Cameron et al., 2000). In England, less than 1 percent 11
12of civil trials involve a jury (Lloyd-Bostock and Thomas, 2000). 12

13 One explanation for the paucity of civil jury trials in these jurisdictions is that 13
14by law, jury trials are reserved for only specific types of cases: only defamation and 14
15personal injury cases in New Zealand (Cameron et al., 2000), primarily tort cases in 15
16Canada (Bogart, 2000), and only four, relatively obscure kinds of cases in England: 16
17defamation, fraud, malicious prosecution, and false imprisonment (Lloyd-Bostock 17
18and Thomas, 2000). A second explanation for the infrequent use of jury trials is 18
19concern about jurors’ abilities to be fair and impartial. In Canada, for example, if 19
20either side moves to eliminate the jury, the judge is likely to grant the request, citing 20
21concern about the undue complexity of the factual issues for laypeople. In New 21
22Zealand and England, if judges believe that a case presents difficult questions of 22
23law or especially complex or technical issues, they can opt to decide that portion of 23
24the case themselves. There is also concern about the size of jury damage awards in 24
25these venues. Some awards in England, for example, have engendered the outcries 25
26commonly heard in the U.S. and have resulted in the promulgation of guidelines 26
27for assessing damages. For example, in a case involving the singer Elton John, an 27
28appellate court ruled that both the judge and attorneys should have taken actions to 28
29rein in excessive jury awards in a libel case, particularly in the way that they instructed 29
30jurors on the assessment of damages. The “guidance” to which the court referred 30
31could involve reference to other, “appropriate” awards and award brackets (*John v.* 31
32*MGN, Ltd.*, 1996). English appellate courts have also established guidelines for the 32
33assessment of punitive, or exemplary damages in false imprisonment and malicious 33
34prosecution cases (e.g., a maximum award of £50), including an advisement to juries 34
35that exemplary damages represent a windfall profit to the plaintiff whose losses were 35
36already covered through the compensatory award. 36

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39 **Trio of Concerns about Civil Juries and the Reasonableness of Their Verdicts** 39

40 40

41In the United States, concerns about the legitimacy of civil jury verdicts have been 41
42voiced for some time. The genesis of contemporary denunciations was the tort reform 42
43movement of the 1980s that portrayed Americans as excessively litigious and civil 43

44
45

1 juries as unable to differentiate legitimate from bogus lawsuits and overly generous 1
 2 in their damage awards (Huber, 1988; Olson, 1991). With only brief respites since 2
 3 then, the criticisms have continued. They invariably focus on the jury's ability to 3
 4 assess damage awards (both compensatory and punitive) in a fair and even-handed 4
 5 manner. Thus, recent critics have claimed that awards are capricious and immoderate 5
 6 (Sunstein et al., 1998) and "predictably incoherent" (Sunstein et al., 2002). There is 6
 7 far less concern that juries might undercompensate plaintiffs—which they sometimes 7
 8 do, particularly in cases that involve serious injuries. 8

9 Three distinct concerns about civil juries can be identified: first, that they are 9
 10 overly sympathetic to plaintiffs in awarding excessive sums of money, especially 10
 11 for punitive damages; second, that they are biased against wealthy, deep-pocketed 11
 12 defendants; and third, that their decisions are unpredictable and arbitrary (Hans 12
 13 and Albertson, 2003; Vidmar et al., 2000). In the next sections, I examine the data 13
 14 relevant to each of these allegations. But first, a comment about methodology: 14
 15 some data described here were derived from archival studies; others came from 15
 16 simulations. Each methodology has its strengths and weaknesses: archival studies 16
 17 involve data from actual cases but do not allow for cause-and-effect conclusions 17
 18 whereas simulation studies that can provide conclusions about causation (e.g., that 18
 19 complexity of expert testimony caused impaired decision-making) also lack real 19
 20 world consequences. If future results replicate earlier findings, we can be more 20
 21 confident that the data are providing a clear window into the decision-making 21
 22 processes of civil jurors and juries. 22

23
 24 *Are Civil Jurors Overly Sympathetic to Plaintiffs in Awarding Excessive Damages?* 24
 25

26 As previously noted, plaintiffs win approximately 50 percent of civil trials and the 26
 27 median damage award is less than \$30,000. One might argue that these seemingly 27
 28 moderate figures, standing alone, provide sufficient proof that civil jurors are not 28
 29 overly sympathetic to the plight of plaintiffs. But such extrapolation is unnecessary; 29
 30 empirical data make it clear that laypeople tend to be rather suspicious of plaintiffs and 30
 31 their motives for suing. As part of a series of studies that examined lay perceptions of 31
 32 businesses and corporations, Hans and Lofquist (1994) interviewed jurors who had 32
 33 served in civil cases. Most jurors agreed that there are far too many frivolous lawsuits 33
 34 and that people are too quick to sue. These jurors indicated that during deliberations 34
 35 they carefully scrutinized the plaintiffs' motives and questioned the legitimacy of 35
 36 their complaints. They were especially hostile toward plaintiffs who did not seem 36
 37 to be as injured as they claimed, had pre-existing medical conditions, and might 37
 38 have contributed to, or did little to mitigate their own injuries. Some of these jurors 38
 39 portrayed themselves as acting as a defense against illegitimate grievances and 39
 40 frivolous lawsuits, claiming that they were indeed suspicious of plaintiffs' motives. 40

41 These findings are consistent with public opinion polls showing that Americans 41
 42 tend to be distrustful of plaintiffs and suspect that many lawsuits are unnecessary 42
 43 (Greene et al., 1991; Hans and Lofquist, 1994). General distrust of plaintiffs and 43

1 their behavior is also apparent in simulation studies showing that mock jurors hold 1
2 plaintiffs accountable even when their actions are legally blameless (e.g., Feigenson, 2
3 2000; Feigenson et al., 1997) and discount a compensatory damage award to a 3
4 partially negligent plaintiff (as compared to a blameless plaintiff) despite instructions 4
5 to the contrary (Zickafoose and Bornstein, 1999). Finally, simulation studies have 5
6 shown that jurors' attitudes about civil litigation (e.g., the "litigation explosion") 6
7 affect the magnitude of the damages they award (Goodman et al., 1990; Greene et 7
8 al., 1991; Hastie et al., 1999): those jurors who believe that there is a litigation crisis 8
9 and that people are overly eager to sue tend to award less. 9

10 Although it is not my intent to provide an exhaustive review of the data on 10
11 punitive damage awards, reference to a few studies may be useful in addressing the 11
12 concern that juries tend to award excessive amounts as punitive damages. As noted, 12
13 punitive damages are awarded infrequently. According to Cohen's (2005) analysis of 13
14 the punitive awards in the 75 largest U.S. counties in 2001, only 6 percent of winning 14
15 plaintiffs were awarded punitive damages and these awards tended to be given only 15
16 in certain kinds of cases (e.g., tort cases involving slander/libel and intentional torts, 16
17 and contract cases involving partnership disputes, employment discrimination, and 17
18 fraud). In addition, awards tended not to be large: the median punitive damage award 18
19 in civil jury trials in 2001 was \$50,000 (\$83,000 in contract trials and \$25,000 in tort 19
20 trials). Only 12 percent of plaintiff winners who received punitive damages were 20
21 awarded \$1 million or more; 69 percent of those receiving punitive damages were 21
22 awarded less than \$250,000. 22

23 Other studies suggest that punitive damages tend to be proportionate to the 23
24 extent of wrongdoing (e.g., Rustad, 1998) and to the level of compensatory damages 24
25 awarded. For example, Vidmar and Rose (2001) analyzed Florida state court verdicts 25
26 between 1989 and 1998 and concluded that although the ratio of punitive awards 26
27 to compensatory awards varied considerably by case type (ranging from 0.1:1 in 27
28 impaired driver accidents to 6.3:1 in cases involving improper treatment of deceased 28
29 people), the average punitive damage award was only 68 percent of the compensatory 29
30 award. Thus, most indices of punitive damages suggest that they are awarded 30
31 relatively rarely, are concentrated in a few kinds of cases, and, when awarded, tend 31
32 not to be extremely large. Still, critics point to a few very large punitive damage 32
33 awards as proof that punitive damage verdicts can be wildly extravagant and that 33
34 jurors' assessments of punitive awards are both capricious and arbitrary (Sunstein 34
35 et al., 2003). Fervent debate over the pattern and predictability of punitive damage 35
36 awards continues to this day (e.g., *Philip Morris v. Williams*, 2006). 36

37

38 *Are Civil Jurors Biased Against Deep-Pocketed Defendants?* 38

39

40 It is widely believed that civil juries are biased against defendants with extensive 40
41 financial resources. Huber (1988), for example, suggested that juries in civil damages 41
42 cases are committed to running a generous sort of charity, transferring money from 42
43 wealthy defendants to impoverished and injured plaintiffs. This belief may be 43

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1 related to the media's attention to large damage awards assessed against corporate 1
 2 defendants and their lack of attentiveness to the more common but less sensational 2
 3 situation in which a tort plaintiff wins \$18,000 from an apartment manager or from 3
 4 an insurance company. 4

5 Although plaintiff win rates are approximately equivalent regardless of whether 5
 6 the defendant is an individual or a corporation, awards do tend to be higher in cases 6
 7 involving the latter. For example, Chin and Peterson (1985) analyzed 20 years of 7
 8 verdicts in Cook County, Illinois and found that juries awarded significantly more 8
 9 money in cases with corporate defendants than in cases with individual defendants. 9
 10 In a mock jury study, Hans and Ermann (1989) found that the defendant "Jones 10
 11 Corporation" was assessed higher damages in a toxic tort case than was the defendant 11
 12 "Mr. Jones." Robbennolt (2002) determined that the punitive damage awards of both 12
 13 jury-eligible citizens and judges were influenced by the wealth of the defendant. 13

14 Recent work (e.g., Hans, 2000; MacCoun, 1996) has cast doubt on the assumption 14
 15 that deep-pocketed defendants are treated more harshly than individual defendants 15
 16 because they are perceived as wealthier, however. Using experimental methodology, 16
 17 MacCoun (1996) varied the identity of the defendant in a series of mock personal 17
 18 injury cases by describing the defendant as a corporation, a wealthy individual, or a 18
 19 poor individual. The verdicts on damages were insensitive to differences in perceived 19
 20 defendant wealth: although corporate defendants paid more than wealthy individuals, 20
 21 those wealthy individuals paid no more than poor individual defendants. MacCoun 21
 22 suggests that jurors may treat corporations differently because they find it easier 22
 23 to impose costly sanctions against an impersonal entity such as a corporation and 23
 24 because they hold corporations to a higher standard than individuals (a "reasonable 24
 25 corporation" standard). They expect that corporate resources—both human and 25
 26 capital—should allow a corporation to anticipate harm and act proactively to prevent 26
 27 it. Corporations may indeed be treated differently than individual defendants, but 27
 28 not, apparently, because of their financial status. 28

29 29

30 *Are Civil Jury Decisions Unpredictable and Arbitrary?* 30

31 31

32 The focus of concern about unpredictability is whether damage awards, particularly 32
 33 those for punitive purposes, are highly variable (Sunstein et al., 2003). Although 33
 34 compensatory damages tend to correlate positively with the severity of the plaintiffs' 34
 35 injuries (Wissler et al., 1997), some studies have shown variability in these awards 35
 36 even after controlling for important case characteristics (e.g., Sloan and Hsieh, 1990; 36
 37 Viscusi, 1988). 37

38 To what might we attribute this variability? Sunstein et al. (2003) suggest that 38
 39 civil jury verdicts are essentially groundless; that because jurors lack the ability 39
 40 to understand their instructions and to transform their evaluations of the evidence 40
 41 into any kind of reasoned metric, their judgments can be influenced by biases in 41
 42 reasoning (termed "cognitive illusions"), sometimes based on little more than whim 42
 43 and supposition. If this were the case, then one might expect jurors' judgments to 43

1 differ markedly from judges' decisions about the same set of evidence because judges
2 have both the requisite training and experience to render predictable and legally-
3 appropriate judgments. Fortunately, several studies have compared the decision-
4 making of judges and civil juries.

5 These studies typically include judges' appraisal of the nature of the evidence
6 (including its complexity), an indication of what their own verdicts would have been,
7 and a measure of their satisfaction with the jury's decision. According to Hannaford
8 et al. (2000) and Sentell (1991; 1992), judges tend to agree with the jury's verdict
9 in the vast majority of cases. Furthermore, judges' awards are similar in magnitude
10 and variability to those of jurors (Eisenberg et al., 2002; Robbennolt, 2002), and
11 they tend to rely on the same evidence to inform their decisions (Robbennolt, 2002).
12 According to these findings, we have little reason to believe that jurors' reasoning
13 processes or verdict preferences are inherently different from those of judges. In
14 fact, judges have been shown to employ the same cognitive illusions as laypeople
15 (Guthrie et al., 2001).

16 As Diamond (2003) points out, jurors *do* face challenges in civil trials that can
17 occasionally undermine their ability to reach predictable and legally-appropriate
18 decisions, however. One obstacle is the complex and highly-technical nature
19 of many civil trials, particular those that involve various expert witnesses and
20 multiple intricate and unfamiliar legal claims. Judges interviewed by Goodman
21 et al. (1985) pointed to expert testimony as a significant source of the difficulty
22 for jurors, particularly in complex trials. According to Diamond though, the most
23 serious challenge for a jury involves applying the facts it finds to the law it receives
24 in the form of judicial instructions: "Both the persistently opaque language and
25 construction of jury instructions and the reluctance to address issues that almost
26 inevitably will come up in deliberation impair the ability of the jury to apply the
27 instructions ... the jury invests considerable effort during deliberations attempting to
28 apply incomprehensible or ambiguous directives on the applicable law" (Diamond,
29 2003, p. 154). Could either or both of these difficulties—technical complexity and
30 problems with the instructions—explain the variability that exists in some jury
31 damage awards and the fact that, on occasion, awards seem less rational than might
32 be desired? I consider these possibilities next.

33

34

35 **Complexity Inherent in Civil Jury Trials**

36

37 Civil jury trials have become increasingly complicated. Most now involve expert
38 witnesses and economic forecasting and many require jurors to understand and
39 interpret complicated business transactions, sophisticated medical procedures and
40 terminologies, or detailed industry standards and regulations. Some trials involve
41 multiple plaintiffs and defendants suing and counter-suing one another. Often these
42 proceedings are couched in highly technical language.

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1 *Expert Testimony* 1

2 2

3 One clear source of complexity at trial is expert testimony. The use of expert witnesses 3
 4 in civil trials has increased in recent years; in surveys of U.S. District Court judges 4
 5 and attorneys during the 1990s, judges reported information on their most recent 5
 6 civil trial involving experts. In 1991, there was an average of 3.0 experts per trial 6
 7 and by 1998, the average had risen to 4.1 experts per trial. The most frequently 7
 8 presented expert testimony came from economists, followed by experts in the fields 8
 9 of medicine (including mental health);² business, finance, or law; and engineering 9
 10 and safety (Krafka et al., 2002). In a review of 529 civil trials, Gross and Syverud 10
 11 (1991) found that 86 percent involved expert testimony and that it was ubiquitous in 11
 12 medical malpractice and product liability cases. 12

13 Given that expert testimony is omnipresent in civil trials and that its intent is to 13
 14 inform jurors of standards, findings, or conclusions of which they would otherwise be 14
 15 unaware, the ability of an expert to convey complex points and the ability of the jury 15
 16 to understand those points will often determine how a civil trial is resolved. There 16
 17 is an interesting paradox here, however. As Gross (1991) has noted, “We call expert 17
 18 witnesses to testify about matters that are beyond the ordinary understanding of lay 18
 19 people (that is both the major practical justification and a formal legal requirement 19
 20 for expert testimony) and then ask lay judges and jurors to judge their testimony” 20
 21 (p. 1182). How *do* lay jurors respond to the testimony of expert witnesses? Are 21
 22 they mesmerized by the authority vested in experts and overly accepting of experts’ 22
 23 conclusions? Or are they careful to scrutinize the experience and motivation of experts 23
 24 and discriminating in how they use the concepts conveyed by these experts? 24

25 There is a large literature detailing jurors’ use of expert testimony; only the most 25
 26 cursory of reviews is presented here. These studies have proceeded via case analyses, 26
 27 interviews, and simulation methodology. For example, in a comprehensive analysis 27
 28 of 13 complex civil trials, Lempert (1993) concluded that there was little indication 28
 29 of jury irrationality or of uncritical acceptance of the experts’ opinions. 29

30 Interview studies also suggest that jurors are not particularly mesmerized by 30
 31 expert witnesses and, in fact, tend to evaluate an expert’s testimony rather critically. 31
 32 Shuman et al. (1996) interviewed 156 Texas jurors who had served in civil cases. 32
 33 They determined that jurors scrutinized the credentials of the experts, their familiarity 33
 34 with the facts of the case, the bases for their opinions, and their impartiality—all 34
 35 factors that play into judgments of the experts’ credibility. Vidmar (1995) reported 35
 36 that jurors interviewed in medical malpractice cases were often highly skeptical of 36
 37 37

38 38

39 2 Medical experts often detail the cause and extent of personal injuries. Testimony of 39
 40 this sort can be especially effective in justifying damages for noneconomic injuries because 40
 41 plaintiffs sometimes lack insight into their own injuries, may have no basis on which to 41
 42 compare their experiences to those of others, and occasionally downplay the extent of their 42
 43 psychological injuries so as not to appear emotionally fragile or vulnerable (Goodman- 42
 43 Delahunty and Foote, 1995). 43

1 the experts they heard during trial. In interviews with 55 jurors from seven trials
2 that included expert testimony, Ivkovic and Hans (2003) discerned that even when
3 jurors faced problems with technically complex expert evidence, they used sensible
4 procedures to try to decipher it: assessing the completeness and consistency of the
5 information, comparing it to related information, and relying on more knowledgeable
6 jurors to lead the way. In general, these studies show that jurors neither ignore nor
7 uncritically accept the testimony offered by expert witnesses; even when it is highly
8 technical, the expert evidence is analyzed in a fairly rational and methodical way
9 (Vidmar et al., 2000).

10 Jury simulation studies have attempted to clarify some of the factors that affect
11 jurors' understanding and use of expert evidence. The inherent complexity of the
12 testimony is obviously an important variable and has been manipulated in several
13 studies. In one study designed to assess the effects of complexity, Cooper et al. (1996)
14 examined jurors' reactions to expert testimony from two scientists who opined about
15 the possibility that the plaintiff's colon cancer resulted from exposure to PCBs.
16 Researchers varied the quality of the experts' credentials as well as the complexity of
17 their messages and found that the highly credentialed expert was more influential but
18 only when the testimony was highly complex and difficult for jurors to evaluate. In
19 the complex version of the trial, jurors tended to use heuristical reasoning processes,
20 relying more on peripheral details of the messenger (i.e., the expert's credentials)
21 than on the content and quality of the message.

22 In a subsequent study using the same case facts, Cooper and Neuhaus (2000)
23 showed that mock jurors were not affected by peripheral facts such as the frequency
24 with which the expert had testified in the past or the amount of money that he or she
25 received to do so—provided that the expert testimony was presented in terminology
26 that they could understand. When jurors were unable to understand the substance of
27 the testimony, they used characteristics such as the expert's high pay and frequent
28 appearances in court as cues for assessing believability. These findings fit with Petty
29 and Cacioppo's (1986) dual-process, cognitive model of persuasion that suggests
30 that when the message is engaging, accessible, and meaningful, a perceiver will
31 attend to its content; when it is obtuse or seemingly irrelevant the perceiver attends
32 to its non-essential details.

33 Other studies have shown that when faced with complex statistical expert
34 testimony, civil jurors will sometimes use fallacious reasoning processes. For
35 example, mock jurors in Kovera et al.'s (1999) hostile work environment case relied
36 on heuristic cues like representativeness (i.e., the extent to which the research relied
37 on by the expert represented the facts of the case) and general acceptance (i.e.,
38 others' evaluations of the quality of the evidence) when gauging the value of an
39 expert's testimony—factors that may not be reliable indicators of scientific validity.
40 In Bornstein's (2004) simulated toxic tort case, mock jurors were more likely to
41 be persuaded by expert testimony that described anecdotal case histories than data
42 from scientific research studies, suggesting the presence of the base-rate fallacy (i.e.,
43 people are more influenced by vivid and salient individual cases than by data drawn
44
45

1 from larger samples). These findings suggest that jurors who are confronted with 1
2 particularly complicated or abstruse sets of evidence are more likely than those with 2
3 simpler information to rely on heuristical reasoning processes to reach a verdict. 3
4 These studies also show that jurors may have some difficulty making sense of 4
5 complicated scientific or statistical evidence. (Though even here, findings are not 5
6 uniform. For example, Diamond and Casper [1992] varied the nature of the expert 6
7 testimony in a mock antitrust trial. The expert presented either a complex statistical 7
8 regression model or a more concrete “yardstick” analysis. Mock jurors’ damage 8
9 awards were unaffected by this manipulation.) Still there is little reason to suspect 9
10 that they passively defer to experts, even when faced with evidence of a highly 10
11 technical nature. A consistent finding from both interview and simulation research 11
12 is that jurors attempt to scrutinize both the message and the messenger; in judging 12
13 the expert’s credibility, they critically evaluate both the content of the evidence and 13
14 the motives of the expert witness (Ivkovic and Hans, 2003). In addition, as Vidmar 14
15 et al. (2000) point out, juries tend to rely on the thinking of their strongest members 15
16 (i.e., those jurors with the most experience or knowledge of scientific and technical 16
17 methodologies and conclusions) who may be able to help the jury perform optimally 17
18 even in the face of complex evidence. 18

19 20 *Judicial Instructions in Civil Jury Trials* 20 21

22 As Greene and Bornstein (2003) note, a civil jury’s task is further complicated by the 22
23 fact that jurors must answer several questions yet use different sources of evidence 23
24 and decision rules for each. For example, jurors in a product liability case would be 24
25 instructed first to determine, by a preponderance of the evidence (typically deemed 25
26 to be 51 percent of the evidence), whether the product in question was defective. 26
27 To do so, they would have to rely on industry standards and policies—writings 27
28 that may be puzzling and unfamiliar to them. They are instructed next to determine 28
29 whether any alleged defect in the product caused injury to the plaintiff and must use 29
30 a different set of evidence to answer this question. They then turn to their next set 30
31 of tasks—deciding whether the plaintiff is entitled to damages and in what amount. 31
32 Here, they are instructed to award the plaintiff compensatory damages for both the 32
33 economic and noneconomic losses that were caused by use of the defective product. 33
34 In many cases, the plaintiff may have done something to contribute to his or her own 34
35 injuries, in which case jurors are instructed to determine the extent of the plaintiff’s 35
36 contribution, but then to assess the *full* extent of the damages, being instructed that 36
37 the judge will reduce the award proportionate to the plaintiff’s involvement. Finally, 37
38 jurors may have the option to award punitive damages. Here, they are instructed to 38
39 focus not on the plaintiff’s condition but instead on the conduct and wealth of the 39
40 defendant manufacturer. They are instructed to determine whether the plaintiff has 40
41 proven (often by a higher standard of proof, i.e., by clear and convincing evidence) 41
42 that the defendant’s conduct was willful and wanton and, if so, to impose a punitive 42
43 damages award that will effectively punish and deter the defendant. Obviously, each 43

1 of these multiple decisions involves a complex judgment in and of itself, and each 1
2 relies on a unique set of evidentiary information. Taken together, they represent a 2
3 formidable task for most laypeople. 3

4 The jury instructions relevant to damage award determinations are particularly 4
5 difficult to apply. Although jurors are informed about the components of economic 5
6 damages (including past and future economic losses and past and future noneconomic 6
7 losses), they are not typically instructed on the definitions of various terms (e.g., 7
8 pain and suffering, emotional stress) so they must use their own intuitions about 8
9 what these concepts mean. They also receive no instructions about how to consider 9
10 and weigh these components, or about how to translate these components into an 10
11 aggregate award. Further, they are instructed to discount the assessed damages to 11
12 present economic value (based on the idea that over time, the discounted award will 12
13 increase in value and eventually reach the amount that jurors opt to award) but may 13
14 not be told explicitly how to do this. 14

15 Perhaps most perplexing for jurors are instructions on punitive damages, often 15
16 criticized for their ambiguity. For example, Ellis (1989) argued that the vagueness 16
17 and uncertainty surrounding punitive damages “invite juries to indulge their biases 17
18 and penchant for wealth redistribution and induce plaintiffs and their lawyers to 18
19 seek punitive damages from defendants with deep pockets rather than from morally 19
20 guilty persons” (p. 979). Many judges, including some on the highest court in the 20
21 United States, are aware of the difficulties presented by jury instructions on punitive 21
22 damages. According to former U.S. Supreme Court justice William Brennan: “The 22
23 typical instructions given to jurors, advising them to consider the character and 23
24 wealth of the defendant and the nature of the defendant’s conduct, provide guidance 24
25 that is scarcely better than no guidance at all” (*Browning-Ferris Industries, Inc. v.* 25
26 *Kelco Disposal, Inc.*, 1989, p. 281). 26

27 Judges instruct jurors simply to assess punitive damages sufficient to punish 27
28 and deter and to consider the nature of the defendant’s conduct and the defendant’s 28
29 wealth in this assessment. Some courts supplement these instructions with criteria 29
30 used by appellate courts in post trial review of awards. These considerations include 30
31 the requirement that the award bear some reasonable relationship to compensatory 31
32 damages, that it not bankrupt the defendant, and that the jury not be motivated by 32
33 passion or prejudice. Even those jurors who *do* understand their instructions may 33
34 nonetheless apply them inappropriately because they do not correctly assess the 34
35 social costs (e.g., the death of a few dozen people who took a certain medication) 35
36 and benefits (e.g., a reduction of symptoms in many million users of the same 36
37 medication) of the defendant’s product or conduct. Melsheimer and Stodghill (1994) 37
38 suggest that instructions on punitive damages provide juries with broad discretion 38
39 and little guidance, thus allowing their biases and judgmental deficiencies to operate 39
40 in an unrestrained manner. 40

41
42 *Psychological research data on use of jury instructions* A number of psycholegal 42
43 research studies show that jurors have difficulty comprehending and applying 43
44

1 civil jury instructions (see Chapter 6 in this volume for a general discussion of 1
 2 instruction comprehension issues). For example, Landsman et al. (1998) assessed 2
 3 comprehension in jury-eligible adults who, after being instructed, answered multiple 3
 4 choice questions related to liability and compensatory damages. The data were highly 4
 5 skewed: jurors had quite good understanding of some concepts (approximately 80 5
 6 percent recognized the requirements for proving liability and 90 percent correctly 6
 7 recognized the factors they are to consider in determining compensatory damages) 7
 8 whereas they had significant difficulty understanding other concepts (only 25 percent 8
 9 correctly recognized the standard of proof used in civil trials and only 31 percent 9
 10 knew who would win if the evidence was equally balanced). 10

11 Mock jurors in a simulated automobile negligence case, after being instructed 11
 12 on elements of negligence, deliberated on the liability of the defendant and then 12
 13 answered several questions related to their jury instructions (Greene and Johns, 13
 14 2001). Only a third of mock jurors were able to recognize the definition of negligence 14
 15 or the legal standard associated with that concept. Finally, in a study that assessed 15
 16 comprehension of judicial instructions on liability for punitive damages, Hastie et 16
 17 al. (1998) provided summaries of previously decided cases and instructions that set 17
 18 out factors jurors were to consider in determining whether a defendant's conduct 18
 19 was reckless enough to warrant punitive damages. Participants were asked specific 19
 20 questions about each of several elements of their instructions (e.g., "What is the legal 20
 21 definition of reckless or callous disregard for the rights of others?"). Comprehension 21
 22 was very low: the median score was 5 percent correct. These data suggest that jurors 22
 23 may have difficulty understanding and applying the instructions they receive from 23
 24 the judge, particularly those relating to damage awards. 24

25 There is another reason for concern about jurors' ability to apply the law 25
 26 accurately. In comparison to jurors in criminal cases, civil jurors typically have less 26
 27 knowledge of the issues that arise in their trials and fewer resources on which to 27
 28 rely when attempting to understand the novel ideas presented to them in court. To 28
 29 what extent these obstacles result in variability in civil damage awards is difficult to 29
 30 determine, but the lack of clarity in jurors' explanations of the law is concerning and 30
 31 suggests that processes in place to inform jurors may instead be handicapping them 31
 32 in significant ways. 32

33 33
 34 34

35 **Reforming Trial Procedures to Enhance Civil Jury Decision-Making** 35

36 36
 37 As previously described, civil trials can involve complicated and technical evidence, 37
 38 jury instructions replete with legalese, and unique tasks and rules with which 38
 39 most jurors are unfamiliar. It should come as little surprise then that verdicts are 39
 40 occasionally difficult to fathom. In recent years, though, observers of civil juries 40
 41 have begun to suspect that apparent deficiencies or inconsistencies in verdicts may 41
 42 be a result of the ways that the task is structured and presented to juries. Lempert 42
 43 (1993) articulated the situation well: 43

1 A close look at a number of cases, including several in which jury verdicts appear 1
2 mistaken does not show juries that are befuddled by complexity. Even when juries 2
3 do not fully understand technical issues, they can usually make enough sense 3
4 of what is going on to deliberate rationally, and they usually reach defensible 4
5 decisions. To the extent that juries make identifiable mistakes, their mistakes seem 5
6 most often attributable not to conditions uniquely associated with complexity, but 6
7 to the mistakes of judges and lawyers, to such systematic deficiencies of the trial 7
8 process as battles of experts and the prevalence of hard-to-understand instructions. 8
9 (p. 234) 9

10
11 Increasingly, psycholegal researchers have begun to examine the prospects for 11
12enhancing decision-making in civil trials by changing trial processes and procedures. 12
13They have proposed and tested a number of procedural innovations intended to 13
14provide jurors with access to tools that will simplify and streamline their decision- 14
15making tasks. Some of these modifications (e.g., allowing jurors to ask questions and 15
16to discuss the evidence shortly after it is presented rather than wait until the end of 16
17the trial) reflect the fact that jurors are naturally active consumers and processors of 17
18information who strive to make sense and meaning of the evidence, especially when 18
19it is complex or unclear to them. Other innovations (e.g., giving pretrial instructions, 19
20simplifying and rewriting instructions by applying principles of psycholinguistics, 20
21allowing jurors to take notes, and providing written copies of jury instructions, 21
22transcripts, and summaries of witness testimony) allow jurors better access to the 22
23arguments, testimony, and the law presented during the trial and increase the chances 23
24that verdicts will be based on a full and accurate recollection of the facts and an 24
25understanding of the relevant legal concepts and requirements. 25

26
27*Allowing Jurors to Ask Questions and Discuss Evidence Prior to Deliberating* 27
28 28

29In many jurisdictions jurors are now allowed to ask questions of the witnesses and to 29
30discuss the evidence in the midst of trial. A study by Dann and Hans (2004) on the 30
31effectiveness of these policy changes showed that jurors like the process of asking 31
32questions of the witnesses and believe that it enables them to better comprehend 32
33the evidence. Mott's (2003) analysis of the content of more than 2,000 questions 33
34posed in 164 actual trials (both civil and criminal) characterized the nature of 34
35jurors' questions: jurors questioned both lay and expert witnesses in order to fit 35
36the witnesses' testimony with previously-presented testimony and to inquire about 36
37common practices in unfamiliar professions. Despite the fact that this process can 37
38sometimes be cumbersome and time-consuming, it can clarify jurors' understanding 38
39of the evidence, enhance their involvement in the trial process, and lead to more 39
40accurate decision-making. 40

41 A somewhat more radical reform permits jurors to discuss the evidence during 41
42the trial rather than to wait until their formal deliberations begin. Psychologists 42
43have hypothesized a number of advantages of such mid-trial discussions based on 43
44
45

1 fundamental principles of cognitive and social psychology, including the possibility 1
2 that early discussions will allow jurors to: 1) organize the evidence into a coherent 2
3 framework over the course of the trial; 2) improve their recollection of the evidence; 3
4 3) allow them to clarify points made in mid-trial; and 4) promote greater cohesiveness 4
5 among jurors. In a field experiment in which researchers randomly assigned 5
6 approximately one hundred civil jury trials to an experimental “trial discussion” 6
7 condition and an equal number to a control “no discussion” condition, Hannaford 7
8 et al. (2000) found that jurors who reported having these discussions were quite 8
9 positive about them. They said that trial evidence was remembered very accurately 9
10 during these discussions, that discussions helped them understand the evidence 10
11 in the case, and that all jurors’ points of view were considered during the course 11
12 of the discussions. Unfortunately, the authors were not able to measure *actual*, as 12
13 opposed to *perceived*, gains in comprehension because a general comprehension 13
14 measure applicable to all trials was not feasible. But a study by Vidmar et al. (2003) 14
15 of videotapes from 50 civil jury trials in Arizona showed that jurors use these 15
16 discussions to seek information from one another, raise questions they intend to ask 16
17 in the courtroom, and talk about the evidence they hope to hear; moreover, these 17
18 discussions led to modest enhancements in understanding of the testimony and did 18
19 not result in premature judgments. 19

20

21 *Restructuring the Presentation of Information to Jurors* 21

22

23 In most civil trials, the jury receives judicial instructions about case-specific law 23
24 only once, after all of the evidence has been presented. This chronology means that 24
25 throughout the trial, jurors are kept in the dark about the substantive law that applies 25
26 in the case and about procedural matters such as how to weigh the credibility of 26
27 witnesses, assess the importance of experts, and reach a verdict during deliberations. 27
28 Commentators have pointed out that jurors would have an easier time applying the 28
29 law if it was explained to them at the start of the trial. Such pre-instruction could 29
30 provide a cognitive structure or schema that would serve as an organizing framework 30
31 and memory aid. It would help jurors to evaluate the relevance of evidence and to 31
32 determine whether the requirements of proof have been satisfied. It could also provide 32
33 a clearer and earlier picture of the law relevant to the case, and allow attorneys to 33
34 tailor more effectively their case presentations to the relevant legal principles. 34

35 The impact of substantive pre-trial instructions has been examined in a series of 35
36 sophisticated jury simulation studies involving multiple tort plaintiffs with injuries 36
37 of varying severity (e.g., ForsterLee and Horowitz, 1997; ForsterLee et al., 1993). 37
38 Data showed that jurors who were given case-specific pretrial instructions produced 38
39 damage awards that were better calibrated to each plaintiff’s degree of injury than did 39
40 jurors who were not pre-instructed. In addition, the former were better able to recall 40
41 the evidence than were the latter. These findings suggest that pretrial instruction 41
42 can moderate the effects of complex testimony, a result of particular import in civil 42
43 trials. 43

1 Judicial instructions are replete with complicated legal terminologies and 1
2 concepts that are unfamiliar to most laypeople. Accordingly, some researchers 2
3 (e.g., Charrow and Charrow, 1979; English and Sales, 1997) have used principles 3
4 of psycholinguistics to simplify and clarify jury instructions. Their procedures 4
5 involved minimizing or eliminating the use of abstract terms, negatively modified 5
6 sentences, and passive voice and reorganizing instructions into a more logical format 6
7 (see Chapter 6 in this volume for a detailed discussion of jury instruction reform 7
8 issues). In general, these revised instructions are easier for jurors to comprehend and 8
9 apply. For example, consider this California jury instruction on “burden of proof”:

10

11 Preponderance of the evidence means evidence that has more convincing force 11
12 than that opposed to it. If the evidence is so evenly balanced that you are unable to 12
13 say that the evidence on either side of an issue preponderates, your finding on that 13
14 issues must be against the party who had the burden of proving it. 14

15

16 And compare it to a revised instruction on the same topic:

17

18 When I tell you that a party must prove something, I mean that the party must 18
19 persuade you, by the evidence presented in court, that what he or she is trying to 19
20 prove is more likely to be true than not true. This is sometimes referred to as “the 20
21 burden of proof.” 21

22

23 Juror cognition can also be enhanced by the opportunity to take notes during 23
24 the trial. Although this is a relatively simple procedure to implement, it is still not 24
25 widely used. (Critics suspect that it will distract jurors from attending to the evidence 25
26 and that jurors with the more voluminous notes will dominate deliberations.) Note- 26
27 taking has obvious benefits as a memory aid to jurors. Indeed, several studies have 27
28 shown its advantages (e.g., ForsterLee et al., 1994; Horowitz and Bordens, 2002), 28
29 particularly as an encoding device, as a way to distinguish among multiple plaintiffs 29
30 with differing claims, and as a means to focus the discussion during deliberations. 30
31 Jurors who are allowed to take notes express greater satisfaction with the trial process 31
32 than those who are not (Horowitz and ForsterLee, 2001). 32

33 The accuracy of jurors’ decisions can apparently be enhanced further by allowing 33
34 jurors to take notes *and* by providing them with statements summarizing the 34
35 testimony of expert scientific witnesses (ForsterLee et al., 2005). In a study designed 35
36 to test the synergistic effects of these decision tools, aided jurors gave significantly 36
37 higher damage awards to the most severely injured plaintiffs without increasing 37
38 compensation to less seriously injured plaintiffs. In addition, jurors who were both 38
39 allowed to take notes and given witness summaries recalled more evidence than 39
40 other jurors. Although the provision of summary statements can be cumbersome, 40
41 it can provide jurors some much-needed assistance in deciphering the essential 41
42 elements of the testimony and in having a record of what each expert said. 42

43

44

45

1 In general, then, significant progress has been made in recent years in advancing 1
 2 and testing procedures to enhance the quality of civil jury decision-making. Procedural 2
 3 innovations change the way the case is presented to jurors and provide opportunities 3
 4 for them to become engaged in the process of receiving and making sense of the 4
 5 evidence. As judges become more familiar with these procedures, we can expect 5
 6 increased usage in courtrooms—a welcome prospect to most civil jurors. 6

7

8

9 **Conclusions**

10

11 Although the media attend to high-stakes and high-profile cases, most civil trials are 11
 12 of a humbler nature, concerning matters like automobile accidents and slips and falls, 12
 13 and in these cases, damage awards are of modest size. Still, even these seemingly 13
 14 simpler trials can involve legal issues with which most lay jurors are unfamiliar, 14
 15 complex expert testimonies that need to be evaluated, and opaque jury instructions 15
 16 that need to be understood. 16

17 Psycholegal research that plumbs the ways jurors manage these tasks during 17
 18 trial has revealed both decision-making triumphs and tribulations. It has shown, for 18
 19 example, that civil juries are not particularly biased in favor of plaintiffs but rather, 19
 20 are suspicious of many plaintiffs and their motives for suing; that judges tend to agree 20
 21 with jury decisions in most civil trials; and that although plaintiffs have somewhat 21
 22 higher win rates when the defendant is a corporation rather than an individual, it is 22
 23 because they hold corporations to a higher standard of conduct and not because they 23
 24 desire to take money from the pockets of well-healed defendants. But these studies 24
 25 have also shown that expert testimony detailing complicated scientific or technical 25
 26 information is poorly comprehended by civil jurors and that judicial instructions tend 26
 27 to be problematic for many jurors. Yet psycholegal research on civil juries has also 27
 28 suggested and tested methods for reforming the ways that information is presented 28
 29 to juries (e.g., through pretrial and simplified jury instructions and by way of trial 29
 30 summaries) and that jurors are allowed to participate in the trial (e.g., by taking 30
 31 notes, asking questions of witnesses, and discussing the case prior to deliberation). 31
 32 These studies show that reforms can enhance the process for all participants and lead 32
 33 to more predictable, reasoned verdicts by civil juries. 33

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