1.20 The standard of proof in a civil case is that a plaintiff must probe his or ber case by a preponderance of the evidence. This is a less stringent standard that is applied in a criminal case, where the prosecution must probe ns case beyond a reasonable doubt. Hip contrast in a civil case such as this one, the plaintiff is

Figure 4 Educational Levels in Massachusetts

High School

Graduate School

College

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"A preponderance of the evidence is such evidence which, when considered and compared with any opposed to it ... "*

Abstract When jurors are confused by the opaque jury instructions that they hear before deliberating, they not only disengage but return misinformed verdicts (Charrow & Charrow 1979; Diamond et. al. 2012; Benson 1984; Marder 2006). Our earlier studies (Randall et. al. 2015) showed that listeners comprehended jury instructions significantly better (1) when they could read while listening and (2) when the instructions were rewritten in Plain English, minimizing two linguistic factors: pa ive verbs (Ferreira 2003) and unfamiliar legal expressions, or "legalese" (Diana & Reder 2006). These improvements, while significant, were smaller than expected, possibly because the subjects were undergraduates. We would expect larger improvements for jurors, whose education level is lower, on average. The current study tests subjects who are demographically closer to the jury pool, drawn via Amazon's MTurk. The results confirm our expectation; these subjects show greater gains for both (1) reading while listening and (2) Plain English instructions with minimized This new evidence, both stronger and more relevant, may better convince skeptical judiciaries to implement change.

Study 1: Undergraduate student subjects

Hypotheses

- 1. Reading while listening will improve comprehension over listening only.
- 2. Plain English instructions with minimized passive verbs & legalese will improve comprehension over Original instructions.

Subjects + 4 Conditions

Undergraduate students Plain n = 214Original English Listening-43 Only Reading

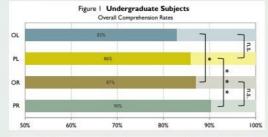
Materials, Design, & Procedure

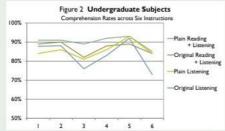
Four groups of subjects heard recordings of either six Original (OL&OR) or six Plain English (PL&PR) Massachusetts civil jury instructions. Half of the subjects were in a Listening-only condition (OL&PL), half were in a Reading+Listening (OR&PR) condition and were supplied with the text of each

instruction. After each instruction, all subjects answered

true/false questions in a printed test booklet.

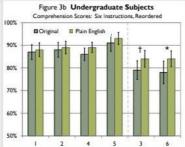
Results





As predicted by **Hypothesis 1**, there was an overall main effect (Figs. 1&2) of **Reading** ($F_{1,197}$ =10.980, p=.001, η ²=.053): comprehension scores for Reading+Listening (OR&PR, m=89.0%) were significantly higher than for Listening-Only (OL&PL, m=84.5%). As predicted by **Hypothesis 2**, there was an overall main effect (Figs. 1&2) of **Plain English** ($F_{1.197}$ =3.937, p=.049, q²=.020): comprehension scores for Plain English instructions (PL&PR, m=87.4%) were significantly higher than those for Original instructions (OL&OR, m=84.90%). However, further t-tests found that only 2 out of the 6 instructions showed a significant difference (Fig. 2), Instructions 3 & 6.





Original instructions' (OL&OR) rates of passive verbs & legalese (Fig. 3a, left columns) inversely correlated with comprehension (Fig. 3b, left columns): instructions with lower rates of these linguistic factors (1, 2, 4 & 5) were better understood than those with higher rates (3 & 6). And the Plain English instructions (PL&PR) that showed significant comprehension boosts (3 & 6, Fig. 3b) were the same two in which these linguistic factors were minimized most (Fig. 3a).

Consider this:

Nearly half of the Massachusetts jury pool (40%+5%) has not gone beyond high school (Fig. 4). In order to more closely mirror this population, Study 2 replicated Study I using subjects drawn via Amazon's MTurk.

Study 2: MTurk subjects

Hypotheses

1. As in Study 1, Reading while listening will improve comprehension over listening only.

Listening-

Only

Reading

+Listening

125

- 2. As in Study I, Plain English instructions with minimized passive verbs & legalese will improve comprehension over Original instructions
- 3. The comprehension boosts for Reading+Listening over Listening-Only and Plain English over Original will be greater for MTurk subjects, who more closely mirror the jury pool, than for student subjects.

Subjects + 4 Conditions

Subjects were recruited and paid via MTurk. Amazon's online crowdsourcing platform.

All subjects were U.S. citizens over 18, from a variety of education levels and geographic regions across Massachusetts.

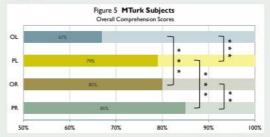
MTurk subjects n = 389 Original English

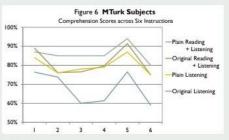
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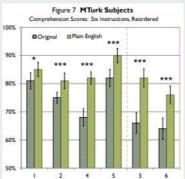
The design matched Study I's, using the same six Massachusetts civil jury instructions and the same four conditions: Original Listening (OL), Plain English Listening (PL), Original Reading (OR), and Plain English Reading (PR). Subjects signed on to the MTurk website, listened to the instructions and answered true/false questions after each one. Subjects in the two Reading +Listening conditions (OR&PR) had the texts to read along. FluidSurveys (later, SurveyMonkey) recorded their responses.

Materials, Design, & Procedure

Results







Discussion & Conclusions

Hypotheses I and 2 were both confirmed (Figs. 5&6): reading while listening (OR&PR) improved comprehension over listening only (OL&PL) (F_{1.385}=50.246, p<.001, n²=.115); Plain English instructions (PL&PR) improved comprehension over Original instructions (OL&OR) (F_{1.385}=39.515, p<.001, η²=.093). As predicted by Hypothesis 3, the comprehension boosts for Reading+Listening over Listening-Only and for Plain English over Original instructions were greater for MTurk subjects (Figs. 5&6) than for students (Figs. 1&2), as seen in the increases in effect sizes from Study 1 to Study 2. Looking at the instructions individually (Figs. 6&7), all six instructions - not just 3 & 6 as in Study 1 - saw significant gains when they were rewritten in Plain English (PL&PR > OL&OR). Since MTurk subjects are demographically closer to the jury pool, these new results suggest that (1) reading while listening and (2) confronting fewer difficult linguistic factors (specifically, passive verbs & legalese) will boost comprehension, allowing jurors to engage more fully and reach better-informed verdicts. Most importantly, though, this new evidence may present a more compelling argument to skeptical judiciaries that it is time to implement change.

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