A New Look at Dismissal Rates in Federal Civil Cases

Scott Dodson
UC Hastings College of the Law, dodsons@uchastings.edu

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A NEW LOOK

DISMISSAL RATES OF FEDERAL CIVIL CLAIMS

Empirically examining the effect of the Iqbal and Twombly decisions on dismissals at the pleading stage.

by SCOTT DODSON

For most of the last seventy years, the Supreme Court has interpreted the Federal Rules of Civil Procedure to impose on federal-court litigants a civil pleading regime called notice pleading. Under this regime, a civil claim may be dismissed under Rule 12(b)(6) only if legally insufficient—only if the claim could not be maintained under any set of facts. The pleading of facts was necessary only to provide “fair notice” of the claim to the defendant.1

Beginning in 2007, the Supreme Court abruptly changed course by issuing Bell Atlantic Corp. v. Twombly2 and Ashcroft v. Iqbal,3 which impose a new factual-sufficiency requirement. Under these cases, a court should disregard all “conclusory” allegations (whether of law or fact) and assess the “plausibility” of the claim using the judge’s own “judicial experience and common sense.” If the judge determines that the complaint does not supply sufficient facts to allow the claim to cross the threshold from the conceivable to the plausible, then the claim should be dismissed under Rule 12(b)(6).

Such a sea change in pleading standards immediately set off alarms in procedural circles. Serious doctrinal, normative, and institutional discussions immediately ensued. But many of those discussions were based, in part, on empirical speculation of what real effects the new pleadings decisions were having on civil claims in the federal district courts.

Commentators obliged by studying the cases’ effect. However, because of coding and collection difficulties, those studies have approached data with two problematic methodological choices. The first is that studies have tended to code whole cases rather than claims, leading to the ambiguous coding category of “mixed” dismissals and to problems...
in characterizing the nature of the dispute. The second is that studies have failed to distinguish between legal sufficiency and factual sufficiency. These methodological choices potentially mask important detail about the effects of the pleadings changes.

This paper begins to fill in that detail. I compiled an original dataset of district court opinions and coded each claim—rather than whole cases—subject to an adjudicated Rule 12(b)(6) motion. For each claim, I also determined whether the court resolved the motion on grounds of legal or factual sufficiency. This methodology opened an unprecedented level of granularity in the data.

The data reveal statistically significant increases in the dismissal rate overall and in a number of subsets of claims. Prior studies based on cases rather than claims have consistently found modest increases in the dismissal rate but have differed in their findings of statistical significance. My findings, based on claims rather than cases, suggest that the prior studies' case-based coding choices may mask some significance.

I also find an increase in the prevalence and effectiveness of factual-insufficiency arguments for dismissal. Perhaps surprisingly, I find a decrease in the prevalence and effectiveness of legal-insufficiency arguments for dismissal. These data and insights on the rationales of dismissals are new to the literature and suggest that *Twombly* and *Iqbal* are affecting both the strategy employed by movants and the rationale for deciding motions to dismiss.

Overall, I find evidence that *Twombly* and *Iqbal* are affecting pleading-stage dismissals in federal district courts in a variety of important ways not adequately captured or reflected by prior studies.

This article proceeds as follows: First I offer background on pleading and the previous studies, isolating some of their deficiencies and demonstrating the need for additional study. Then I outline my methodology followed by results. Last I analyze the methodology and results, exploring possible areas for further study.

**Civil pleading standards in federal district court**

Rule 8(a)(2), which governs most civil pleadings in federal court, requires only "a short and plain statement of the claim showing that the pleader is entitled to relief." The rule was designed to relax pleading structures, requiring only a viable legal claim (legal sufficiency) and enough description of the circumstances to notify the defendant of the general nature of the dispute (notice).

Rule 12 provides mechanisms for testing a complaint's sufficiency. Rule 12(b)(6) addresses legal insufficiency. It allows a party to move to dismiss a complaint for failure to state a claim upon which relief can be granted. In the seminal case *Conley v. Gibson*, the Court stated:

> In appraising the sufficiency of the complaint we follow, of course, the accepted rule that a complaint should not be dismissed under Rule 12(b)(6) if failure to state a claim necessarily appears beyond doubt that the plaintiff can prove no set of facts in support of his claim which would entitle him to relief.

Under this standard, a federal court could dismiss a civil claim under Rule 12(b)(6) only if legally insufficient—only if the claim could not be maintained under any set of facts. If the law does not recognize the claim or prohibits it under the circumstances alleged, then relief cannot be granted even if all of the plaintiff's allegations are true. For example, a complaint that asserts a federal claim for discrimination on the basis of baldness should be dismissed as legally insufficient because the law does not recognize such a claim and provides no relief for it, even if every fact the plaintiff alleges is true.

*Conley* also imposed a requirement that the complaint provide "fair notice" of the claim to the defendant. Any lack of notice was remedied not by dismissal but by a more definite statement under Rule 12(e), which permits a court to order the plaintiff to file a more definite statement if the complaint "is so vague or ambiguous that the [defendant] cannot reasonably prepare a response."

Thus, under *Conley*, and as understood by most commentators, Rule 12(b)(6) was for legal insufficiency only; factual insufficiency was tied to a lack of notice and remediable by a more definite statement. By contrast, weak or implausible claims were largely unremediable at the pleading stage; those quintessentially merits-based defects were relegated to later stages, such as summary judgment, which were designed to test the factual meritoriousness of claims after the opportunity for discovery.

Many lower courts have resisted the liberality of notice pleading by applying stricter tests of factual insufficiency. Judges of those courts feared that Rule 12(b)(6) was...
toothless, and some commentators have credited that fear. Nevertheless, during much of the last seventy-five years, the Supreme Court repeatedly endorsed the lack structure described above.

In 2007, however, the Court surprised everyone with Bell Atlantic Corp. v. Twombly. There, the Court held that a complaint alleging a federal antitrust conspiracy, supported only by allegations of conscious parallel conduct, failed Rule 8(a)(2) and should be dismissed under Rule 12(b)(6). Undeniably, the claim was legally sufficient: federal law does prohibit conspiracies to restrain trade, and the plaintiffs did not allege any facts that would have precluded liability. And the complaint seemingly provided adequate notice of the claim and its grounds. Nevertheless, the Court dismissed the complaint because it failed to allege sufficient facts showing a "plausible" entitlement to relief. Crucially, Twombly does not eliminate the old requirements of legal sufficiency and notice; rather, it adds a new dimension of factual sufficiency.

In 2009, the Court confirmed and expanded Twombly in Ashcroft v. Iqbal. The Court made three significant holdings. First, judges may disregard all "conclusory" allegations when deciding a motion to dismiss. This was a reversal of prior pleading doctrine, which required courts to credit all factual allegations unless wholly incredible and to evaluate all factual inferences in the light most favorable to the pleader. Second, the Court confirmed that Twombly sets a transsubstantive pleading standard that requires the pleader to state—a claim that is "plausible." Third, the Court held that judges should assess plausibility by drawing upon "judicial experience and common sense." The purpose of this new pleading standard is, in the Court's words, to screen out factually weak or meritless claims before they impose costs on defendants and the judicial system.

To determine whether the intended effect was occurring, commentators conducted a number of empirical or quasi-empirical studies of Twombly and Iqbal. Although each has its flaws, and although they span a variety of methodological approaches, they are relatively consistent in finding a modest increase in the grant rate of dismissal motions filed.

For example, Professor Patricia Hatamyar conducted two post-Iqbal studies based on Westlaw opinions. She coded by case and whole-motion result (i.e., grant, deny, or mixed). In her first study, Hatamyar found a statistically significant increase in grant rates, from 46% (pre-Twombly) to 56% (post-Iqbal), and a statistically significant decrease in denial rates, from 26% to 18%. The bottom line was that the odds of a motion to dismiss being granted or denied in part were 1.5 times greater under Twombly and Iqbal than under the pre-Twombly regime, holding all other variables constant. The strongest predictor of this variation was pro se status. In her second study, which amplified the post-Iqbal data, she found that the rate of motions granted without leave to amend increased by a factor of 1.67 under Iqbal, and that the rate of grants with leave to amend increased by a factor of 5.9 times (both significant at the 95% confidence interval). Excluding pro se constitutional civil-rights cases still showed an increase in dismissal rates, but only to the 93% confidence interval.

Recently, the Federal Judicial
Center published a study using civil dockets rather than Westlaw databases. Like Hatamyar's studies, the FJC coded by case and whole-motion result (grant, grant in part, deny). The FJC excluded all prisoner and pro se cases. Rather, Twombly and Iqbal impose a new factual-sufficiency standard. Inclusion of a relatively constant subset of legal-insufficiency challenges could overwhem and mask the significance of any increase in dismissals for factual insufficiency. Thus, distinguishing between the legal-sufficiency standard that Rule 12(b)(6) has always tested. Rather, Twombly and Iqbal impose a new factual-sufficiency standard. IN TWOMBLY AND IQBAL THE SUPREME COURT USHERED IN A SEA CHANGE IN PLEADING STANDARDS.

bases for the outcomes is a crucial omission. Coding decisions by type of sufficiency challenged (factual or legal) could better isolate the effect of the new pleading standard. This study undertakes to fill some of these details left out of prior studies.

Methodology

I studied the impact of Twombly and Iqbal on dismissal rates in federal district courts using an original dataset with an eye toward exploring the detail left out of previous studies. I began with broadly permissive circuit-specific Westlaw searches in each of the "FedX-all" databases (where "X" is each circuit). I did not excluded all Supreme Court and circuit opinions to isolate district courts. District courts are on the front line and have the most experience with motions to dismiss. Including appellate decisions may have skewed the results because generally only grants of dismissions are appealable. Further, although district courts follow circuit law as well as Supreme Court decisions, Iqbal was relatively clear on the legal standard, and so there is little difference among the courts on New Pleading. To control for any latent differences in circuit law, I coded for circuit.

Using a random-number generator, I selected 100 opinions from each search list. Thus, I ended up with 100 pre-Twombly and 100 post-Iqbal
pleading under Rule 8(a)(2), but the courts have not resolved so definitively (and, in fact, many courts have refused to so apply them). Accordingly, to maintain a pure sample, I excluded all non-Rule 8(a)(2) claims.

I then turned to coding. I did not code based on whole case, as other studies have done; rather, I coded each Rule 8(a)(2) claim decided on a Rule 12(b)(6) motion to dismiss. Thus, I was not confined to difficult characterizations of grouped claims, such as classifying the type of a whole case. Nor did I have the ambiguous category of "mixed" decisions. Table 1 describes the coding scheme used for each claim.

A few notes about my coding. I used the political-party affiliation of the judge's appointing president to code the judge's political affiliation. There are some problems with this proxy, but the proxy seems to be an acceptable one in most studies using similar measurements.42

I designated a claim as a published opinion if it was published or slated to be published in an official reporter, as indicated by Westlaw. All others were coded as unpublished.

I coded as "no" in the Pro Se Claimant category claimsant that were found insufficient but were technically dismissed, and I included as "dismissed" claims that were found insufficiently pleaded but that were technically dismissed in the opinion itself. These circumstances came up in primarily two types of circumstances: when a district court found a claim dismissible but nevertheless permitted the plaintiff an opportunity to replead, and when a magistrate judge recommended dismissal but the district court's adoption of the recommendation was not attached to the magistrate's opinion. Although these opinions did not technically result in an immediate dismissal, they functionally represent a judicial finding that a pleading is insufficient under Rule 12(b)(6) and therefore should be coded with dismissals. For the same reason, I coded magistrate recommendations that a motion be denied as "not dismissed," even though it is possible that the district judge subsequently disagreed.

I coded rationale as "Fact" if the court determined that the complaint was factually sufficient or insufficient, "Law" if the court determined that the complaint was legally sufficient or insufficient, and "Both" if the court decided on both bases. The distinction between fact-based and law-based decisions was generally clear from the opinions.

My methodology has two potential weaknesses. The first is that it relies on Westlaw databases of judicial opinions, which overrepresent pub-
lished decisions and thus may reflect selection bias in the judge's decision to publish a case. I will have more to say about this potential weakness in the final section of the paper.

The second weakness is that I did not code for the presence of an amended complaint, partly because of the difficulty of following a particular claim through any amendment process. The FJC recently concluded that the presence of an amended complaint is correlative with grant rates. I leave it to others to determine how much this potential weakness affects my findings.

Results

My results show an overall increase in the dismissal rate (as a function of motions) of all claims from 73.3% pre-Iqbal to 77.2% post-Iqbal. This 4% increase was significant to the 99% confidence interval. The overall dismissal rate in each category increased after Iqbal, in most cases significantly. Table 2 sets out the results for all claims using a two-tailed test, with significance measured at 95% by *, and 99% by **.

The statistical significance of the "All claims" differential in Table 2 holds up using a multivariate probit regression analysis controlling for all other variables (dummies used for Other Claim, Democratic Judge, Eleventh Circuit, Represented, Not PLRA, and Unpublished; Z=2.96, statistically significant to the 99% confidence interval). This adds to the robustness of the two-tailed tests above, suggesting that the significance of the differences in overall dismissal rates of all claims pre-Iqbal and post-Iqbal are not due to changes in the distributions of types of cases, litigants, or judges.

In addition to coding by claim instead of by case, a primary innovation of my study is its coding of the rationale of the opinion as based on factual or legal sufficiency. The data reveal that the rationale for dismissals is more heavily weighted toward factual insufficiency after Iqbal. The data show that the factual-insufficiency dismissal rate, as a percentage of dismissals, has increased in all categories of cases, and significantly so in most. Table 3 sets out the data, using a two-tailed test, with significance measured at 95% by *, and 99% by **.

Predictably, the rate of dismissals for factual insufficiency as a function of all motions has also increased after Iqbal. In other words, for any given claim subject to a motion to dismiss, the likelihood that the claim will be dismissed for factual insufficiency is higher after Iqbal. This is true, and statistically significant (using a two-tailed test, where significance measured at 95% by * and 99% by **) for most categories. Table 5 provides data on these changes using a two-tailed test, where significance at 99% is denoted **.

As was the case in Tables 2 and 4, the statistical significance of the "All claims" differential in Table 5 holds up using a multivariate probit regression analysis controlling for all other variables, with Z=6.25, statistically significant to the 99% confidence interval.

Note that adding the percentages in Tables 4 and 5 produces totals that exceed the percentages in

<p>| Table 2. Overall Dismissal Rate (as a function of motions) |
|-----------------|-----------------|-----------------|-----------------|
| Pre-Iqbal       | Post-Iqbal      | Pre-Iqbal       | Post-Iqbal      |</p>
<table>
<thead>
<tr>
<th>N</th>
<th>Grant Rate</th>
<th>N</th>
<th>Grant Rate</th>
<th>Z Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>All claims</td>
<td>1252</td>
<td>73.3%</td>
<td>1879</td>
<td>77.2%</td>
</tr>
<tr>
<td>Published</td>
<td>805</td>
<td>73.7%</td>
<td>952</td>
<td>75.9%</td>
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<tr>
<td>Unpublished</td>
<td>419</td>
<td>72.8%</td>
<td>892</td>
<td>77.6%</td>
</tr>
<tr>
<td>Unpublished</td>
<td>99</td>
<td>70.7%</td>
<td>163</td>
<td>74.1%</td>
</tr>
<tr>
<td>Non-IFPIPLRA</td>
<td>51</td>
<td>74.5%</td>
<td>133</td>
<td>77.5%</td>
</tr>
<tr>
<td>Represented</td>
<td>63</td>
<td>72.9%</td>
<td>119</td>
<td>75.0%</td>
</tr>
<tr>
<td>Unpublished</td>
<td>935</td>
<td>65.2%</td>
<td>961</td>
<td>67.0%</td>
</tr>
</tbody>
</table>

<p>| Table 3. Factual-Insufficiency Dismissal Rate (as a function of dismissals) |
|-----------------|-----------------|-----------------|-----------------|
| Pre-Iqbal       | Post-Iqbal      | Pre-Iqbal       | Post-Iqbal      |</p>
<table>
<thead>
<tr>
<th>N</th>
<th>Rate</th>
<th>N</th>
<th>Rate</th>
<th>Z Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>All claims</td>
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<td>34.5%</td>
<td>1509</td>
<td>47.5%</td>
</tr>
<tr>
<td>Published</td>
<td>979</td>
<td>35.0%</td>
<td>1077</td>
<td>49.0%</td>
</tr>
<tr>
<td>Unpublished</td>
<td>48</td>
<td>35.4%</td>
<td>124</td>
<td>48.6%</td>
</tr>
<tr>
<td>Non-IFPIPLRA</td>
<td>954</td>
<td>28.2%</td>
<td>1040</td>
<td>46.8%</td>
</tr>
<tr>
<td>Represented</td>
<td>63</td>
<td>25.4%</td>
<td>64</td>
<td>44.3%</td>
</tr>
</tbody>
</table>


44. Cecily, supra note 33, at 15, 29.
motions to Courts: studies of pre-Twombly grant rates. The results are consistent with other grant rate lower than successful more than 1/3 of all Rule 12(b)(6) dismissals, and more than 1/4 of all pre-Twombly claims facing a motion) even though such dismissals generally were not permitted by existing law. From the 1980s into the early 2000s, several papers documented the practice by some lower courts of requiring a more stringent factual-sufficiency standard than then-prevailing Supreme Court precedent allowed. The results of my study lend empirical support to those observations and suggest that the practice persisted in the lower courts even after repeated and emphatic denunciations by the Supreme Court.

Pre-Twombly and Iqbal Have Changed Pleading

Some have argued that Twombly and Iqbal did not change pleading, either doctrinally or in practice, or that they did not change it very much. In this section, I highlight and discuss some of the more relevant results of the study.

Pre-Twombly Legal-Insufficiency Dismissals Were Routine

One key result is that, even before Twombly, motions to dismiss were successful more than 73% of the time, and no category revealed a grant rate lower than 65%. These results are consistent with other studies of pre-Twombly grant rates. These percentages are a function of motions filed, so the data do not reflect what the overall dismissal rate is of claims filed. Previous studies, however, have tended to show a motion-filing rate of around 15% pre-Twombly. Based on these figures, one could roughly estimate that approximately 10% of all claims filed were dismissed under Rule 12(b)(6) under the pre-Twombly regime.

This dismissal rate undermines the contention that the pre-Twombly standard for testing pleadings was a toothless one. Contrary to that popular misconception, any number of relatively common legal deficiencies could justify dismissal. Perhaps the claim is preempted by federal law. Perhaps the complaint misconstrues the scope of the law governing the claim. Perhaps the plaintiff alleges specific facts that, as a matter of law, preclude the claim.

These are not necessarily rare or unusual defects, nor are they necessarily the result of poor lawyering. The scope of the law is often unclear but important, and therefore highly contested. Whether the Constitution protects flag burning, what legal standard applies to gender discrimination under the Equal Protection Clause, whether Section 1983 requires exhaustion, whether Title VII applies extra-territorially—these are important legal questions that are presented best by a well-crafted complaint and decided by a well-prepared judge, often without needing any further factual enhancement. A legal-sufficiency challenge, even before Twombly, tees these questions up for judicial decision. For this reason, it is unsurprising that the data indicate that the legal-sufficiency requirement of Rule 12(b)(6) erects a useful and workable mechanism for resolving—often by way of dismissal—questions of law.

Pre-Twombly Factual-Insufficiency Dismissals Were Routine

The data show that courts deciding motions to dismiss under the pre-Twombly standard often dismissed for factual insufficiency (more than 1/3 of all pre-Twombly dismissals, and more than 1/4 of all pre-Twombly claims facing a motion) even though such dismissals generally were not permitted by existing law. From the 1980s into the early 2000s, several papers documented the practice by some lower courts of requiring a more stringent factual-sufficiency standard than then-prevailing Supreme Court precedent allowed. The results of my study lend empirical support to those observations and suggest that the practice persisted in the lower courts even after repeated and emphatic denunciations by the Supreme Court.

Analysis and implications

In this section, I highlight and discuss some of the more relevant results of the study.

Pre-Twombly Legal-Insufficiency Dismissals Were Routine

One key result is that, even before Twombly, motions to dismiss were successful more than 73% of the time, and no category revealed a grant rate lower than 65%. These results are consistent with other studies of pre-Twombly grant rates.

45. Civil Case Processing in the Federal District Courts: A 21st Century Analysis 47-48 (IAALS 2009) (finding more than 70% of all Rule 12 motions to be granted at least in part).
46. Ceci, supra note 33, at 10 n.21.
47. See supra note 12.

### Table 2: Fact Based Dismissal Rate (as a function of motions)

<table>
<thead>
<tr>
<th></th>
<th>Pre-Twombly</th>
<th>Post-Iqbal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Rate</td>
</tr>
<tr>
<td>All claims</td>
<td>1924</td>
<td>25.3%</td>
</tr>
<tr>
<td>Unpublished opinions</td>
<td>1585</td>
<td>26.5%</td>
</tr>
<tr>
<td>Non-IFP/PLRA</td>
<td>1352</td>
<td>30.3%</td>
</tr>
<tr>
<td>Represented</td>
<td>935</td>
<td>16.5%</td>
</tr>
</tbody>
</table>

### Table 3: Law-Based Dismissal Rate (as a function of motions)

<table>
<thead>
<tr>
<th></th>
<th>Pre-Twombly</th>
<th>Post-Iqbal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Rate</td>
</tr>
<tr>
<td>All claims</td>
<td>1924</td>
<td>50.2%</td>
</tr>
<tr>
<td>Unpublished opinions</td>
<td>1585</td>
<td>50.3%</td>
</tr>
<tr>
<td>Non-IFP/PLRA</td>
<td>1352</td>
<td>52.3%</td>
</tr>
<tr>
<td>Represented</td>
<td>935</td>
<td>56.1%</td>
</tr>
</tbody>
</table>
much. The data undermine this argument, though how much is certainly debatable.

Table 2 shows essentially single-digit increases in the dismissal rate (as a function of motions) overall and across all categories. The increases overall and in a number of categories are statistically significant. These results add confirmatory support to other studies, which have found single-digit but significant or near-significant increases in the overall dismissal rate of cases after *Iqbal*. These results also suggest that studies finding non-significant increases, such as the FJC's study, just didn't have enough data points to generate significance. The data appear to support the conclusion that *Twombly* and *Iqbal* are affecting the dismissal rate of claims and cases, at least as a function of motions, in federal court.

Pleading has changed within dismissals as well. Table 3 indicates that factual insufficiency now rivals legal insufficiency as the dominant justification for dismissal. I can offer three explanations, all of which may in fact be at play here. One is that the motion-filing rate has increased, and that it increase is primarily or even exclusively attributable to motions relying on factual insufficiency, such that factual-insufficiency dismissals now appear as a higher percentage even if the absolute numbers of legal-insufficiency dismissals has remained constant. Another likely explanation is that movants are strategically switching legal theories from a perceived weak legal-insufficiency argument to a perceived stronger factual-insufficiency argument. A third possible explanation is that some pre-*Twombly* courts were stretching the legal-insufficiency standard to reach certain claims, perhaps questionably so, and that *Twibal* now enables those courts to dismiss factual-insufficiency claims that they had been uncomfortably squeezing into a legal-insufficiency rationale. In other words, New Pleading may be legitimizing a practice by some district judges to dismiss claims that, while not technically legally insufficient, struck the judge as so doubt-ful or unlikely that the judge thought justice might be served by dismissing them anyway.

Whatever the justification, the results have some implications for further study. If, for example, dismissals based on legal insufficiency are generally without leave to amend but dismissals for factual insufficiency are generally with leave to amend, then it is possible that *Twibal*, to the extent it shifts the rationale for dismissals in favor of factual insufficiency, may ultimately give plaintiffs more opportunities to amend their complaints.

More study is necessary to bear these theories out. The more general story here is that factual-insufficiency dismissals are up and dismissals overall are up. The overall increase is modest—only a single digit—but statistically significant. These data support the anecdotal commentary that *Twombly* and *Iqbal* have changed pleading standards and are having an effect in the lower courts.

**Prisoner, Pauperis, and Pro Se Litigants Are Affected Most**

The disaggregated data suggest that prisoner, pauperis, and pro se litigation are highly correlated with dismissal-rate increases. One might suppose that these cases would show the inverse relationship because courts often screen IFP/PLRA complaints without adversarial input from the defendant and pro se cases with leniency in pleading sufficiency. These factors might lead one to surmise that dismissal rates in these cases ought to be lower than other cases. But my data reveal instead that these cases exhibit relatively high dismissal rates even before *Twombly* (over 80% of all pro se claims facing a motion were dismissed) and strongly significant increases after *Iqbal*. These results could be explained by the meaningful assistance that attorneys provide in drafting complaints, or perhaps by the absence of meaningful attorney-selection mechanisms at the filing stages. Regardless, the data strongly suggest that any study of pleading effects that omits such cases is incomplete.

**Westlaw Databases May Be Probative**

Westlaw-based datasets have been criticized as unrepresentative of dockets generally. Westlaw databases include all published opinions, plus some—but not all—unpublished opinions. It has been hypothesized that the unpublished set of opinions

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48. See e.g., Steinman, supra note 10.
51. See Reinhart, supra note 26, at 1-2 (surveying commentators); see also Has the Supreme Court Limited Americans' Access to Courts? Hearing Before the S. Comm. on the Judiciary, 111th Cong. 90 (2009) (prepared statement of Stephen B. Burbank) (appending a list of post-*Twombly* dismissals in which the judge remarked that the complaint would have survived before *Twombly*).
52. 28 U.S.C. § 1915A(b)(1). 976(e)(1)
has a greater percentage of denials of motions because such decisions are generally not appealable and thus have less need to be reduced to a published decision. If so, then a dataset that includes only a subset of unpublished decisions would exclude a disproportionate number of denials and thus tend to overstate the grant rate of motions. That theory could be true, but it is not supported by my data. Because Westlaw captures some unpublished opinions, I was able to compare dismissals in unpublished and published subsets. Table 2 suggests that unpublished opinions reflect higher grant rates than published opinions, both before Twombly and after Iqbal, and the probit analysis suggests that any temporal variation in the publication status did not affect the overall dismissal rates. My results therefore lend some support to other studies that rely on Westlaw databases, and they underline the criticism that Westlaw-database studies overstate any Twombly effect. These results might have rational explanations. Let’s assume that judges ordinarily do not publish denials of motions to dismiss because they often neither are appealable nor present novel questions of law. Under the Conley regime, then, one might expect only a small percentage of denials to be published. In the wake of Twombly and Iqbal, however, a far greater percentage of denials would be published because Twombly and Iqbal were new, important, and potentially unclear cases, and thus motions to dismiss were more likely to present novel questions of law. Relying only on published cases, then, potentially overestimates the grant rate under Conley and reduces the differential in dismissal rates. Alternatively, if dismissals of prisoner, paupers, and pro se cases are disproportionately more likely to generate unpublished opinions, yet they also are disproportionately more likely to show increased rates of dismissal after Iqbal, then studying only published opinions is likely to understate the effects of Twombly on dismissal rates. In sum, even if Westlaw databases are not representative of all decisions, it is not at all clear that they overrepresent dismissals.

Conclusion
As others have pointed out, the most accurate empirical tests on the effect of Twombly would be very difficult to develop. Defendant-selection and plaintiff-selection effects may be far more meaningful than the dismissal effect. In addition, the dismissal effect may be mitigated by opportunities for amendment. Also, the dismissal effect studied here reveals nothing about the merit of the cases affected. Finally, the dismissal effect is but one factor in a host of normatively relevant Twombly effects yet to be fully studied.

This paper speaks directly to none of these questions. Instead, it strives to add knowledge and understanding to how Twombly and Iqbal are affecting dismissal rates. In particular, it adds granularity at the claim level and in the rationale for decisions on motions. The results are not insignificant. The claim-based results add to the robustness of the case-based findings of other studies. And the disaggregation of legal-sufficiency and factual-sufficiency rationales opens a new window into the effects of Twombly and Iqbal.

55. Cecil, supra note 33, at 2.
58. A related selection issue is Westlaw capture of unpublished decisions. Westlaw captures some, but not all, unpublished opinions that are issued, and the rate of capture varies widely by district. Cecil, supra note 33, at 37 n.47. It has been reported, however, that Westlaw includes every opinion it can find unless asked specifically not to. Id. at 27. It does not seem to me that this selection criterion is biased against capturing unpublished denials. Accordingly, absent some evidence of a selection bias in Westlaw capture of unpublished opinions, my data strongly suggest that Twombly affects dismissal rates across the publication divide.

Scott Dodson
is Professor of Law, University of California Hastings College of the Law. (ddodson@uchastings.edu)