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Comparing Abnormal Accruals Estimates across Samples: An International Test

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Notes

During the past years, researchers have turned to other measures of earnings management. Examples of such measures are the unexpected movements in separately identifiable working capital accounts (McNichols and Wilson, [1988](#); Beaver et al., [1989](#); Wahlen, [1994](#); Teoh et al., [1998](#)), the correlation between cash flows and accruals (Leuz et al., [2003](#)) or discontinuities in earnings distributions (Burgstahler and Dichev, [1997](#); Degeorge et al., [1999](#); Bhattacharya et al., [2003](#)). Traditional accruals models remain nonetheless important in studying earnings management practices, especially because they provide firm-year-specific predictions of abnormal accruals. Consequently, these models tend to be most appropriate for studying the influence of firm-spe

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of Type I errors in the sample under examination is generally low and similar across countries, leading us to focus on predictive accuracy and Type II errors.

Note that including lagged measures of sales growth would also not help to explain the effect on current accruals of past catch-up investments because such measures do not sufficiently capture the cross-sectional variation in the speed with which firms adjust their inventories after experiencing a shock to growth.

In addition, estimation error could result from working capital being nonlinearly related to sales. For instance, a firm experiencing substantial sales growth acceleration may encounter serious difficulties in the collection of its receivables. This could result in a disproportional increase in bad debt provisions and a lower-than-expected increase in net receivables.

One accruals model under study includes 'forward-looking' explanatory variables. Specifically, the DD model includes next year's cash flow from operations. This 'forward-looking' variable may capture some of the effect of timely recognition, making the DD model potentially less susceptible to the influence of variations in earnings timeliness. Nonetheless, the static way in which timely recognition of future changes in cash flows is captured in the model is unlikely to provide an effective control for earnings timeliness.

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We expect that both country and industry characteristics change over time. Therefore, we would ideally estimate country-period as well as industry-period effects. Unfortunately, we do not have sufficient degrees of freedom to implement this approach. Because the primary focus of our study is country differences in accruals models' performance, we choose to estimate country-period effects, thus allowing for the possibility that country characteristics change over time. The fact that we cannot control for changes in industry characteristics over time is a limitation of our study. In a sensitivity analysis, we have replaced country-period effects with country effects (one variable at a time to preserve degrees of freedom) and find that the coefficients on country effects are generally consistent with the coefficients on country-period effects.

Related to this, we consider the use of a fixed effects regression to separate country from industry effects preferable to using country and industry averages of the explanatory variables. This is because country-level and industry-level means are potentially noisy measures of country and industry effects, given that both measures also depend on the distribution of industries across countries. As a consequence, when using means instead of fixed effects, the country and industry variables that we include in the regressions may be correlated and coefficient estimates may become imprecise. As a robustness check, we have rerun the analyses after replacing the fixed effects with country-period and industry means. We find that our conclusions remain unchanged if we use r

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Both models (2) and (3) include period indicator variables to ensure that the coefficients on the country-period measures are not affected by general (global) time trends.

We find that the incidence of Type I errors in the total sample is generally below the required 5% and relatively similar across the nine countries. These results are therefore not reported in [Table 7](#).

The results of the expense manipulation detection analysis are available from the authors upon request.

Kothari et al. ([2005](#)) find that the use of discretionary accruals that are adjusted for a performance-matched firm's discretionary accruals yields fewer Type I errors in earnings management detection. We test how performance-matching affects the Type II errors of the three accruals models under study. First, we create 20 equal sized groups of firm-year observations according to return on assets. Second, we adjust all discretionary accruals in a performance group for the group average. The results of this analysis (not tabulated) indicate that performance-matching has no significant effect on the relationship between SEEs and Type II errors. The results of this analysis are available from the authors upon request.

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