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Abstract

Purpose: The increasing role of systematic reviews in knowledge production demands greater rigor in the literature search process. The performance of the *Social Work Abstracts* (SWA) database has been examined multiple times over the past three decades. The current study is a replication within this line of research.

Method: Issue level coverage was examined for the same 33 SWA core journals and the same time period as our 2009 study.

Results: The mean percentage of issues missing in the current study was 20%. The mean percentage of issues missing in the current study was significantly greater than the mean percentage of issues missing in the 2009 study.

Discussion: The research of other groups, and that of our own, has failed to prompt NASW Press to act. SWA was failing, it is failing and NASW Press has failed to correct those failures.

Keywords: *bibliometric; database; empirically based practice; evidence-based practice; evidence-supported interventions; impact factor score; literature review; meta-analysis; NASW; NASW Press; research synthesis; scholarship; Social Work Abstracts; systematic review*

A Replication of Failure, Not a Failure to Replicate

The research program discussed in this paper began when one of us (GH) noticed articles he was searching for were missing from *Social Work Abstracts* (SWA). After some additional searching and discussion, our research group decided that scholarly database performance in social work might be an issue worth further investigation.

Keeping up with social work research is not easy. Problems with the processing and dissemination of scholarship in social work have often been discussed (e.g., Barker & Thyer, 2006; Epstein, 1990; 2004; Fraser, 1994; Gambrill, 1994; Holden, et al., 2008; Howard, 2009; Jenson, 2005; Lindsey & Kirk, 1992; Kirk & Franke, 1997; Pardeck & Meinert, 1999; Reid, 1977; Schilling, et al., 2005). As Simpson (1978) noted: “[a] more insidious difficulty is the need to keep abreast of a scattered, unintegrated literature if one is to do social work research, teach it, or use it intelligently” (p. 147). Across varying fields of scholarly inquiry, abstracting and indexing services (A&Is, ie. scholarly databases) are employed to assist users in uncovering the scholarly information that they need. Inger and Gardner (2008) note:

The dominant subject A&Is – e.g. Biosis, PubMed, SciFinder, focus on structured access to the highest quality information within a discipline. They typically cover all the key literature but not necessarily all the literature in a discipline. *Their utility flows from the one-stop-shop nature of the service that they offer and the perceived certainty and reassurance that they offer to users in providing the authoritative source of search results within a discipline* (p 12, emphasis added).

There have been increases in both the availability and sophistication of these scholarly databases. Yet, the particular ones chosen to conduct a review may create problems. This issue has been

termed *database selection bias* (Gomersall, 2010, Stansfield, Kavanaugh, Rees, Gomersall & Thomas, 2012).

Attempts to facilitate information search in social work date back to at least the early 1950s (Graham, Al-Krenawi & Bradshaw, 2000; Kirk, 1994; Oxford Journals, 2013). Between 1951 and 1955, the *Social Work Research Group Abstracts* was published by the Social Work Research Group. *Abstracts for Social Workers* began in 1965 and was then incorporated into *Social Work Research & Abstracts* during the 1977-1993 period. This effort then evolved in 1994 into the current form: SWA. The National Association of Social Workers Press (NASW-P, 2014) describes SWA as: “the primary source of articles on social work and social welfare, as well as on related fields. For over 30 years, it has been the starting point for literature searches in the field” (no p). No evidence for this assertion of primacy is provided. EBSCOhost, a vendor selling SWA expands this claim:

The world's most valuable and comprehensive scholarly, social work studies full-text database *Social Work Abstracts* offers extensive coverage of more than 850 social work and human services journals dating back to 1965. Produced by the National Association of Social Workers (NASW), the database provides indexing and abstracts dealing with all aspects of the social work field, including theory and practice, areas of service and social issues and problems. Researchers seeking scholarly and professional perspectives on subjects such as therapy, education, human services, addictions, child and family welfare, mental health, civil and legal rights, and more will find *Social Work Abstracts* to be an *indispensable resource* (2013, no p., *emphases added*; cf., EBSCO Publishing, 2013).

Again, no evidence is provided to support these assertions.

The social science knowledge base is expanding as is both the need for and number of systematic reviews. A search (8/30/13) on *PsychInfo OvidSP* for the phrase “systematic review” in the title, for the following four years, produced the number of hits noted:

- 2000: 28
- 2004: 151
- 2008: 407
- 2012: 910

Clearly, there is an increasing need for high performing scholarly databases so that knowledge aggregation processes may proceed effectively and efficiently. A number of comparisons of databases have been published within social work (e.g., Flatley, Lilla & Widner, 2007; Kmetz, 2005; McFadden, Taylor, Campbell & McQuilkin, 2012; Ruppel, 2008; Taylor, Dempster & Donnelly, 2003; Taylor, Wylie, Dempster & Donnelly, 2007) and beyond (e.g., Norris & Oppenheim, 2007). Our studies followed in the footsteps of or in concert with other examinations of SWA specifically (Jacoby, Murray, Alterman & Welbourne, 2002; Kemp & Brustman, 1997; Mendelsohn, 1984; 1986; Shek, 2008; Stover, 1993; Tomaiuolo, 1993).

In our original study of 23 social work journals, we found that 38% of the 1040 issues from a nine year period were missing from SWA (Holden, Barker, Covert-Vail, Rosenberg & Cohen, 2008). In fact, the American Psychological Association database PsycINFO (PI) did a statistically significantly better job of covering this group of social work journals (as defined by Journal Citation Reports) than SWA did (29% of issues missing for PI vs. 38% missing for SWA). Note that because a particular journal issue was coded as non-missing if any article from that issue was present in the data base, there may have been articles missing from the issues that were categorized as present. In other words, as disquieting as this 38% missing result was, the

actual situation may have been worse. In addition, it was found that SWA covered NASW-P journals significantly better than non NASW-P journals (2% vs. 43% of issues missing, respectively).

In the second study we focused on SWA core journals only for a different time period without comparison to PsychINFO (Holden, Barker, Covert-Vail, Rosenberg & Cohen, 2009). Strothmann (2010) provided comprehensive overview of the derivation of the 'core' journal idea beginning with its origin in Bradford's Law of Scattering (i.e., that approximately 1/3 of the articles in a field will be concentrated in a small set of journals (Black, 2004)). Especially in the current world of limited educational funding, the idea of a set of core journals can facilitate journal title acquisition decisions for librarians. Subscriptions to non-core journals are more likely to be discontinued, rendering articles published in those journals inconvenient for researchers to obtain. As we noted in our 2009 paper, the 1989 SWA editorial policy stated:

Because the purpose of SWA is to preserve and expand the social work knowledge base . . . NASW has divided journals into core and noncore. *Core social work journals are comprehensively abstracted*, and noncore journals, which are reviewed for articles related directly to social work, are either abstracted or cited selectively *Highest priority is given to the 34 core journals in social work, each of which is abstracted comprehensively* (Beebe & Payne, 1989, p. 2, italics added)

Although the coverage in SWA was better in our 2009 study than in the 2008 study, 15.6% of the 1,028 core issues were missing. The statistically significant bias in coverage, favoring NASW-P journals was still present (2% vs. 16% missing for NASW-P and non-NASW-P journals, respectively; cf., Kmetz, 2005). A database missing 15.6% of journal issues it claims to have covered completely, slows the advancement of knowledge.

As these were well-disseminated findings, which have attracted discussion in the literature (e.g., Barretti, 2011), we had thought that perhaps NASW-P would have used the opportunity during the subsequent years to improve the coverage by SWA that our research had found wanting. NASW-P has never contacted our team to discuss our two prior articles, nor have we seen a public announcement by NASW-P detailing what changes, if any, they might have made in SWA in response to the findings of our team and of others. The lack of any response from the NASW-P is troubling given the multiplicative effects over time as literature develops which was premised on faulty views of the coverage of a database.

Given the importance of this issue, and our agreement with many scholars regarding the importance of replication (e.g., Brandt, et al., 2014; Ezell, 2011; Howard, 2011; Roediger, 2012; Rosenthal, 1990), the current study intended to explore the degree to which the problems in SWA that were detailed in our 2009 study were corrected. Six null hypotheses subsumed under two general research questions were tested for the 1989-1996 period.

Research question 1: How well does SWA currently cover the journals that it designated as core journals?

- a) The proportion of issues missing in SWA in the current study will not be significantly different from the proportion that one would expect to be missing (ie., 0).
- b) The proportion of issues missing will not significantly differ across years of publication.
- c) The proportion of issues missing in SWA will not be significantly different for NASW-P and non NASW-P journals.

Research question 2: Does the coverage of the SWA core journals for the 1989-1996 period differ between the current and our 2009 study?

- a) The mean proportion of issues missing in the current study will not be significantly different from the mean proportion missing in our 2009 study.
- b) The effect of publication year on the proportion of missing issues will not be significantly different for the current and 2009 study.
- c) The effect of journal type (ie., NASW-P vs. non NASW-P journals) on the proportion of missing issues will not be significantly different for the current and 2009 study.

Method

As this was a replication, this study followed the same basic procedures as Holden, et al. (2009) with exceptions noted.

Sample

The population for these studies was conceptualized as the journals in SWA across its history. One difficulty regarding sampling (especially if we had chosen a random sampling approach) is that coverage dates are not clearly described:

- “Coverage: 1977 – Present” (Ovid - <http://tinyurl.com/m3sxdrf>)
- “Ovid’s electronic offering, *Social Work Abstracts*, formerly listed as *Social Work Abstracts PLUS (SWAB+)*, covers 1968 to present” (NASW Press - <http://tinyurl.com/29lykxy>).

Fortunately this discrepancy did not impact our purposive sampling approach.

Inclusion criteria. In both the 2009 study and this direct replication we selected 33 of the 34 core journals designated by NASW Press in 1989 (cf., Brandt, et al., 2014, for an emerging discussion of replacing the modifier *direct* with *close* to describe this type of replication). Although Beebe and Payne (1989) mention 34 journals, only 33 were examined in our studies, because one journal ceased publication in 1988 (G. Xu, personal communication, October 11,

2007). There were a total of 1028 issues across these 33 journals. The choice of this sample time period is meaningful. First, coverage should have been at its best in SWA as the core journals set had just been designated. Second, these results would both replicate our 2008 study conceptually (*'Are there coverage issues in SWA?'*) and extend the results to a new time period (1989-1996).

Exclusion criteria. All SWA content outside of the 1028 journal issues specified above.

Procedure

The journal issue list and data were simply abstracted from our 2009 paper. In the previous studies, a CD version of the SWA database (Silverplatter CD, 1977-2006/09 version) was purchased to ensure a permanent record. This option was no longer available so searches were conducted (all on 2/1/13) through the NYU library (Ovid/SP_UI03.08.00.103, *Social Work Abstracts Plus: 1968-12/2012*), using the Advanced Search database interface to search by publication for target journal titles. The results for each journal were then downloaded for analysis. The use of a different interface (Ovid/SP vs. Silverplatter), is a deviation in terms of direct replication.

To insure the quality of the data extraction, the two lead authors independently searched the downloaded file for each of the 33 journals, recording the presence or absence of the 1028 issues. While in the end, inter-rater reliability is not relevant because disagreements were resolved via mutual review and discussion, the results of this process are presented in Table 1 for the sake of transparency. The simple percentage of agreement was 99.0%. As a number of authors have pointed out, the typical measure of agreement corrected for chance is subject to a phenomenon (kappa paradoxes), that may lead to misunderstanding of the actual level of agreement (e.g., Brennan & Prediger, 1981; Feinstein & Chichetti, 1990; Gwet, 2002; 2008; Kuppens, Holden, Barker & Rosenberg, 2011). So given the unbalanced marginal totals, in

addition to kappa ($\kappa=.97$), we also computed the AC_1 statistic (Gwet, 2008) which equaled .99. Both indicate excellent inter-rater agreement.

Insert Table 1 about here

Data Analysis Strategy

The proportions of missing issues (i.e., N missing issues / N published issues) were modeled using a generalized linear model based on a logit-link function. Data were analyzed with the program SAS, version 9.3 using PROC GENMOD. The continuous explanatory variable publication year was centered on initial publication year (i.e., 1989), so that the intercept reflected the expected value at the beginning of this period. For interpretational reasons, the estimated logit estimates in a logistic regression model can easily be transformed to percentages using the formula $e^{\text{logit}} / (1 + e^{\text{logit}})$. The Holm–Bonferroni method (Holm, 1979) was applied to control for multiple hypothesis testing.

A sequential modeling strategy was adopted, reflecting an increased complexity with each successive model. To address the first research question, a baseline model (Model 1) without any explanatory variables was first fitted to estimate the mean proportion of missing issues in the current study. Afterwards, publication year and journal type (non NASW-P vs. NASW-P) were entered as explanatory variables to examine their main effects on the proportion of missing issues (Model 2). To address the second research question, the proportion of missing issues of the 2009 study was added to the database. To test for differences in the mean proportion of missing issues between our current and 2009 study, a generalized linear model with one explanatory variable, namely *study* (i.e., 2009 vs. 2013), was first fitted to the combined dataset (Model 3). Afterwards, two additional explanatory variables, *publication year* and *journal type*

(i.e., non NASW-P vs. NASW-P), were entered as well as two interaction effects to examine whether the effect of publication year and the effect of journal type significantly differed for our current and 2009 study (Model 4).

Insert Table 2 about here

Results

The descriptive statistics at the individual journal ($N = 33$) level, for both the original and the current study are detailed in Table 2. In the original study five journals had at least one article present for every issue of interest:

- *Journal of Continuing Social Work Education*
- *Journal of Social Work & Human Sexuality*
- *Journal of Teaching in Social Work*
- *Smith College Studies in Social Work*
- *Social Work in Education*

In the replication study the *Journal of Continuing Social Work Education* was the only one in that category. Figure 1 shows the percentage of issues missing across the years for the 2009 and the current study.

Research question 1

How well does SWA currently cover the journals that it designated as core journals for the 1989-1996 period? As presented in Table 3, the logit estimate for the constant in the baseline model (Model 1) is -1.366 . When converted to percentages by using the above mentioned formula (i.e., $e^{-1.366} / (1 + e^{-1.366}) = .20$), the constant indicated that on average 20% of issues were missing in the current study. This mean percentage of missing issues was significantly different

form zero, $\chi^2_{(1)} = 310.58, p < .001$. In total, forty percent of the missing issues were attributed to the following five journals:

- *The Gerontologist* (80% of its issues missing)
- *Jewish Social Work Forum* (75% of its issues missing)
- *Public Welfare* (47% of its issues missing)
- *The Social Worker / Le Travailleur Social* (47% of its issues missing)
- *British Journal of Social Work* (42% of its issues missing)

Table 3 also shows the logit estimates for model with the explanatory variables (Model 2). Significant main effects were obtained for both predictors. When converted to percentages, the constant ($\beta_0 = -1.917$) indicated that the percentage of missing issues for the base category — a non NASW-P journal in 1989—was 13%. As publication year increased, the percentage of missing issues significantly increased by 2 percentage points, $\chi^2_{(1)} = 23.64, p < .001$, while for NASW-P journals the percentage of missing issues significantly decreased by 8 percentage points, $\chi^2_{(1)} = 10.98, p < .001$. Therefore all three null hypotheses under research question 1 were rejected.

Insert Table 3 about here

Research question 2

Does the coverage of the SWA core journals for the 1989-1996 period differ between the current and our 2009 study? To test specific hypotheses, two logistic regression models were fitted to the proportion of missing issues obtained in both studies. The results are presented in Table 3.

Given that NASW was alerted to coverage problems at least as far back as 2008, we examined whether the lack of comprehensive coverage was corrected in the time since publication? Somewhat perplexing, the percentage of issues missing in the current study significantly increased by nearly 5 percentage points compared to the 2009 study, $\chi^2_{(1)} = 7.89$, $p = .005$ (Model 3). The pattern of these increases in missing issues during specific years can be seen in Figure 1.

After applying the Holm–Bonferroni correction for multiple testing, neither the interaction effect between journal type and study, $\chi^2_{(1)} = 4.38$, $p = .036$, nor the interaction effect between publication year and study, $\chi^2_{(1)} = 3.28$, $p = .070$, reached the adjusted statistical significance threshold of $p < .025$ and $p < .05$, respectively. Therefore only one of the three null hypotheses under research question 2 was rejected.

Insert Figure 2 about here

Discussion

A number of researchers have found that SWA has not optimally performed its role in the scholarship system. The current study sought to understand if corrections to the database had been made subsequent to our prior empirical work which exposed the apparent failure of SWA to completely cover the core literature. Unfortunately, the findings were worse than our 2009 study. Null hypotheses 1a, 1b, 1c and 2a were rejected and null hypotheses 2b and 2c were not. On average, twenty percent of the issues examined were missing from SWA. In addition, a positive slope over the publication years and a significant bias in favor of NASW owned journals were observed. The mean proportion of missing issues in the current study was also significantly greater than in the 2009 study that it was replicating.

While our second study in this series of three was not a direct replication of the first and the current study is not a direct replication of the second (because of the changes in the SWA search interface), we have become increasingly convinced of the inadequacy of SWA. Why?

Thus far, we have observed:

- 38% of 1040 issues missing (Journal Citation Reports journal list, 1997-2005)
- 15.6% of 1028 issues missing (from the NASW journals core list, 1989-1996)
- 20% of 1028 issues missing (from the NASW journals core list, 1989-1996)

Obviously, given our non-random sampling approach in these three studies we are not generalizing the results beyond the years studied. That said, we think 17 years of performance like this clearly calls the adequacy of the product into question. Moreover, perhaps systematic reviewers should be more circumspect when confronted with corporate claims regarding database coverage.

Many tests of databases focus on assessment of the specificity, sensitivity or precision of searching of databases for particular search efforts. The current study examines a different and larger issue. Here, rather than examining a few specific searches – we evaluated coverage of the database in a more comprehensive manner. Why are these repeated findings so disconcerting? Even with a database that has complete coverage of a set of journals, there may be problems for a variety of reasons: how a manuscript is described by its authors; how it is indexed by the database; inconsistencies in indexing; and/or with the performance of the database software (e.g., Hay, Adams & Lefebvre, 1996). These types of problems have led to recommendations for systematic reviewers to go beyond electronic database searching and employ additional approaches such as handsearching; contacting the traditional and electronic invisible colleges; searching grey literature; reference harvesting; and citation chaining, etc. (Cooper, 2010; Higgins

& Green, 2011; Littell, Corcoran & Pillai, 2008). Hay, Adams and Lefebvre succinctly describe why these issues are of vital importance to a practice profession. “Failure to identify trials, for whatever reason, can result in effective treatments not being used or ineffective treatments being advocated” (1996, p. 92). Hay, et al. capture the important point here. Clearly the proportion of issues missing from SWA was statistically significantly different from 0 in all three studies. Are these results practically or clinically significant? If you are a systematic reviewer or a practitioner looking for intervention studies on a life threatening problem – *one* study, out of *one* of the missing issues, could have contained extremely pertinent information.

In general, this study provides new findings that build on the previous evidence of NASW’s mishandling of scholarship beyond the recent SWA related studies noted above (e.g., Leighninger, 2006; Midgley, 2006; and the related letters to the editor in the December 2006 and March 2007 issues of the *Journal of Sociology and Social Welfare*). One wonders why there has not been greater open discussion about these problems related to scholarship at NASW. More specifically, the findings of the current study lead one to ask: Why do libraries continue to purchase *Social Work Abstracts*? While there are likely a variety of reasons, one based on an error may be present. As Flatley, Lilla and Widner (2007) note: “[t]here has been the persistent but incorrect rumor that accrediting bodies such as CSWE require SWA. In truth, CSWE does not endorse or recommend any particular databases for accreditation of a university’s social work program” (p. 55).

All of the questions regarding implications for the field noted in our original study remain, ripening as unanswered (or unanswerable), with passing time:

- How much scholarship in social work is incomplete due to its reliance on SWA?

- What mistakes have resulted from literature reviews that were incorrect because of SWA's shortcomings? What can be done about those mistakes now?
- How complete is the coverage of intraissue content?
- How do inadequacies in journal issue coverage affect citation analyses? For instance, have the IFSs (impact factor scores) of non-NASW journals been suppressed (relative to NASW journals) as a result of SWA's better coverage of NASW journals? If yes, how much and for how long?
- Was less adequate coverage of non-NASW journals the result of communications errors (publishers with NASW), internal NASW errors, or part of an effort to suppress the IFSs of non-NASW journals (Holden, et al., 2008a, p. 498)?

During the review process, the Editor-in-Chief of *Research on Social Work Practice* and the reviewers observed issues we had not addressed. These are worthy of note and perhaps future investigation. First, what is the place of Google Scholar (GS) in the search process? There are general questions one should ask of any system used for searching. Are those materials obtainable every time you search (e.g., Holden & Barker, 1990)? What body of material is *supposed to be* accessible via use of a system and what proportion of those materials *are actually accessible*? User interface/system usability issues may also play a role. Some of the studies that we have read seem to indicate that GS has promise, but that problems remain (e.g., Gehanno, Rollin & Darmoni, 2013; Ruppel, 2009; Walters, 2006; cf., McFadden, Taylor, Campbell & McQuilkin, 2012 for a social work perspective). A number of recently published papers, some in direct response to Gehanno, Rollin & Darmoni (Boeker, Vach & Motschall, 2013; Giustini & [Kamel Boulos](#), 2013), concluded that there were a series of critical issues (e.g., low precision,

inadequate results processing, search interface restrictions). Similar criticisms were observed by Bramer, Giustini, Kramer and Anderson (2013):

Unfortunately, many of the original shortcomings identified between GS and *traditional bibliographic* databases such as MEDLINE and Embase are still in evidence: GS lacks a controlled vocabulary, search histories and sets cannot be built and manipulated and wildcards and limits (for instance study types) cannot be used precisely. Only the first 1,000 citations of any search in GS are viewable and search strings must be kept under 256 characters (p. 2).

Moreover, in the discussion of the results of their study of GS, they note another serious problem -- the ongoing alterations to search functions within GS.

The second suggestion from the Editor-in-Chief and reviewers was that we discuss whether or not it makes sense for SWA to continue given its deficiencies and the interdisciplinary nature of much social work scholarship. The answers to this question appear, at least in part, dependent on the respondent. Given any profits from SWA and the promulgated value of possessing the “definitive social work database” (<http://tinyurl.com/m3sxdrf>), its associated institutional personnel (NASW/NASW Press) would likely vote against abandoning SWA. While social workers might feel some loss of professional pride or status if SWA was discontinued, a more relevant question is, would its discontinuance affect their scholarship? Would practitioners be unable to locate scholarship relevant to their practice? We think most could adjust to the loss of SWA quite readily and libraries would save money. The University of Maryland Health Sciences and Human Services Library recommended discontinuance some time ago, but the School of Social Work administration requested that the SWA subscription be continued (Jacoby, Murray, Alterman & Welbourne, 2002).

Caveats

Although we strove for accuracy in the search processes, data abstraction and coding, and statistical analysis, the possibility of errors is always present. These findings are restricted to this set of journals and this time period. Both this and the 2009 study analyzed issue level coverage only – not item level coverage. It is possible that issues coded as present in these studies have individual items that are missing from SWA. Finally, one has to wonder about the more negative findings in the current study. These might have been due to coding errors in the original or the current study (two coders were used in the current study but only one in the original study). Then again the change in data base interfaces between the two studies might have been the causal or a contributing factor.

Just as the findings of SWA inadequacy were replicated in the current study, we will repeat the recommendations from the paper based on the study being replicated here:

Given that NASW Press and their vendors have likely profited for years from sales of a product that NASW knew was considered defective (from direct communications and from published work, see Green, Baskind, & Bellin, 2002; Kmetz, 2005; Social Work Librarians Group, 2000; Tomaiuolo, 1993) prior to the findings in our original study and this replication, it seems reasonable to ask whether purchasers of SWA are owed a refund from NASW Press. Moving forward, it seems reasonable to suggest that NASW takes responsibility and alert all customers to the problems with SWA. Moreover, if these problems cannot be rectified in a short time, then NASW should seriously consider discontinuing publishing SWA (Holden, et al., 2009, p 6).

Long ago, Simpson stated: “[t]he toughest question is this: How can we make research utilization an indispensable part of practice, so a social worker will turn naturally to it when

faced with difficult problems?” (1978, p 155). While the amount of change in social workers’ utilization of research since 1978 is debatable, we conclude that there is no question that research utilization would improve if NASW-P provided a better database.

In conclusion, the failures of SWA were replicated. SWA still does not live up to the claims that are used to sell it, in a corporatized fashion, to the profession and to innumerable libraries supporting social work researchers. SWA was failing, it is failing and NASW-P has failed to correct those failures. Moreover, the research of other groups, and that of our own, has failed to prompt NASW-P to act. Even so, it is still possible for NASW-P to make SWA the model scholarly database that social workers deserve. Let us hope our call for reform is heeded so as to avoid yet another replication of these results.

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Table 1. Inter-rater agreement re: journal issue presence in SWA.

	Rater	A	Total
Rater B	<i>Present</i>	<i>Absent</i>	
<i>Present</i>	819	6	825
<i>Absent</i>	4	199	203
Total	823	205	1028

Table 2. Proportion of issues ($N= 1028$) covered in SWA across journals ($N = 33$) during the 1989-1996 period.

Journal	Issues published (1989-1996) ¹	Issues missing (2009): n (proportion)	Issues missing (2013): n (proportion)
1. <i>Administration in Social Work</i>	29	1 (.03)	3 (.10)
2. <i>Affilia</i>	32	1 (.03)	2 (.06)
3. <i>American Journal of Orthopsychiatry</i>	32	8 (.25)	9 (.28)
4. <i>Arete</i>	15	1 (.07) ²	1 (.07)
5. <i>Australian Social Work</i>	32	3 (.09)	3 (.09)
6. <i>(The) British Journal of Social Work</i>	48	18 (.38)	20 (.42)
7. <i>Child & Adolescent Social Work Journal</i>	46	3 (.06)	10 (.22)
8. <i>Child Welfare</i>	48	1 (.02)	3 (.06)
9. <i>Clinical Social Work Journal</i>	32	10 (.31)	10 (.31)
10. <i>The Gerontologist</i>	55	44 (.80)	44 (.80)
11. <i>Health and Social Work</i>	32	1 (.03)	1 (.03)

(Table 2 continues)

Table 2. (continued)

Journal	Issues published (1989-1996) ²	Issues missing (2009): n (proportion)	Issues missing (2013): n (proportion)
<i>12. International Social Work</i>	32	3 (.09)	4 (.13)
<i>13. Jewish Social Work Forum (off 2002 Core list)</i>	8	6 (.75)	6 (.75)
<i>14. Journal of Continuing Social Work Education</i>	8	0 (0)	0 (0)
<i>15. Journal of Gerontological Social Work</i>	29	3 (.11)	4 (.14)
<i>16. Journal of Independent Social Work (discontinued 1991) - continued as Journal of Analytic Social Work (1993-1998)</i>	21	2 (.08)	3 (.14)
<i>17. Journal of Marital and Family Therapy</i>	32	8 (.25)	10 (.31)
<i>18. Journal of Social Service Research</i>	25	1 (.04)	2 (.08)
<i>19. Journal of Social Work & Human Sexuality (ENDS IN 1993) Journal of Family Social Work (1995-)</i>	6	0 (0)	1 (.17)
<i>20. Journal of Social Work Education</i>	24	1 (.04)	1 (.04)

(Table 2 continues)

Table 2. (continued)

Journal	Issues published (1989-1996) ²	Issues missing (2009): n (proportion)	Issues missing (2013): n (proportion)
<i>21. Journal of Sociology and Social Welfare</i>	32	6 (.19)	6 (.19)
<i>22. Journal of Teaching in Social Work</i>	16	0 (0)	1 (.06)
<i>23. Public Welfare</i>	32	12 (.38)	15 (.47)
<i>24. School Social Work Journal (off 2002 Core list)</i>	16	2 (.13)	3 (.19)
<i>25. Smith College Studies in Social Work</i>	24	0 (0)	2 (.08)
<i>26. Social Casework (then Families in Society)</i>	80	5 (.06)	8 (.10)
<i>27. Social Service Review</i>	32	2 (.06)	3 (.09)
<i>28. Social Work</i>	48	1 (.02)	5 (.10)
<i>29. Social Work in Education (now Children and Schools)</i>	32	0 (0)	3 (.09)
<i>30. Social Work in Health Care</i>	39	1 (.02)	3 (.08)

Table 2 (continues)

Table 2. (continued)

Journal	Issues published (1989-1996) ²	Issues missing (2009): n (proportion)	Issues missing (2013): n (proportion)
<i>31. Social Work Research & Abstracts</i> <i>(then Social Work Research)</i>	32	1 (.03)	5 (.16)
<i>32. Social Work with Groups</i>	27	1 (.04)	3 (.11)
<i>33. The Social Worker / Le Travailleur Social</i>	32	14 (.44)	15 (.47)

Note. Table 2 is an expanded version of Table 1 in Holden, et al., 2009.

¹For Haworth Press journals the copyright date was used for the publication year. Some publishers produce double or triple issues in one physical issue. Since one cannot distinguish which issue an article belongs to in such instances, the double or triple issue was counted as a single issue in this study. In a few instances, the proportion of issues missing appears incorrect given the number of issues missing and the number of issues published. The proportion of issues missing in the table is the average of the proportion of issues missing for each year for the journal and is therefore susceptible to slight differences due to rounding.

²There was a rounding error in the original table, so this cell has been changed from .06 to .07.

Table 3. Logit estimates for the generalized linear models.

	Model 1 ^a	Model 2 ^a	Model 3 ^b	Model 4 ^b
Main effects				
Intercept	-1.366***	-1.917***	-1.691***	-2.618***
Publication year		0.172***		0.272***
Journal type		-0.977***		-2.363***
Study			0.325**	0.702**
Interaction effects				
Publication year x Study				-0.099
Journal type x Study				1.385

Note. Holm–Bonferroni method was applied to control for multiple testing.

** $p < .01$, *** $p < .001$

^a Dependent variable is the proportions of missing issues of the 2013 study ($n=264$)

^b Dependent variable is the proportions of missing issues of the 2009 and 2013 study ($n=528$)

Figure 1. Proportion of issues missing for the 1989-1996 time period in the 2009 and current study.

