



THE EFFECTIVENESS OF RESTORATIVE JUSTICE PRACTICES: A META-ANALYSIS

Jeff Latimer Senior Research Officer Research and Statistics Division

Craig Dowden Principal Researcher The Action Group

&

Danielle Muise Research Assistant Research and Statistics Division



Research and Statistics Division

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The views expressed herein are solely those of the authors and do not necessarily reflect those of the Department of Justice Canada.

Foreword

am pleased to introduce The Effectiveness of Restorative Justice Practices: A Meta-Analysis. This is the first in a series of publications from the Research and Statistics Division that will profile innovative policy research methods. Through this series readers will be introduced to some of the more interesting and progressive methodological work being undertaken by the Division. Each report in the series will address a justice-related policy research question which has been examined using a different research method.

In this current report, the authors have tackled a rather difficult question — *Is restorative justice an effective response to criminal behavior?* — using one of the most comprehensive quantitative

research methods. Simply put, metaanalysis refers to an analysis of analyses. It is a statistical analysis of a collection of studies for the purposes of integrating the various and, oftentimes, discrepant findings from a body of literature. This report is a good example of our efforts to support the Department in its evidencebased decision making process.

I would like to acknowledge the contribution made by Jeff Latimer, Senior Research Officer, in carrying out this project from conception to final product, as well as co-authoring the report.

We would welcome any feedback on the series.

Roberta J. Russell, Ph.D. Director, Research and Statistics Division Department of Justice Canada

About the Research and Statistics Division

The Research and Statistics Division is staffed by social science researchers drawn from a broad range of disciplines including criminology, sociology, anthropology, education, statistics, political science, psychology, and social work.

We conduct social science research in support of the activities and programs of the Department of Justice Canada. We also provide statistical data, methodological services and analytical advice and undertake public opinion research and comprehensive environmental analyses. We recognize that to be useful, research must be accessible. In an effort to make our research more accessible we have created new products tailored to the needs of a diverse group of users, such as a research series, Qs&As, fact sheets, and this methodological series.

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1.0 Introduction

urrent activity at governmental and community levels suggests that restorative justice, in its many forms, is emerging as an increasingly important element in mainstream criminological practice. While first discussed in the 1970s by both Barnett (1977) and Eglash (1977) in the context of restitution, restorative justice has been more clearly integrated into criminological thinking through such works as Braithwaite (1989), Marshall (1985), Umbreit (1994a) and Zehr (1990). Rather than focussing on the traditional rehabilitation versus retribution debate. many researchers and policy makers now consider restorative justice and, more precisely the concept of restoration, as a valid third alternative (Zehr, 1990). Numerous countries have adopted restorative approaches, including Canada, England, Australia, Scotland, New Zealand, Norway, the United States, Japan and several European countries (Hughes & Mossman, 2001).

Despite the increased attention given to restorative justice, the concept still remains somewhat problematic to define as numerous responses to criminal behaviour may fall under the "restorative umbrella." The term has been used interchangeably with such concepts as community justice, transformative justice, peacemaking criminology and relational justice (Bazemore & Walgrave, 1999). Although a universally accepted and concise definition of the term has yet to be established, Tony F. Marshall's definition appears to encompass the main principles of restorative justice: "Restorative justice is a process whereby all the parties with a stake in a particular offence come together to resolve collectively how to deal with the aftermath of the offence and its implications for the future" (cited in Braithwaite, 1999, p. 5).

Essentially, the restorative justice paradigm begins with the premise that crime is a violation of people and relationships (Zehr, 1990) rather than merely a violation of law. The most appropriate response to criminal behaviour, therefore, is to repair the harm caused by the wrongful act (Law Commission, 2000). As such, the criminal justice system should provide those most closely affected by the crime (the victim, the offender and the community) an opportunity to come together to discuss the event and attempt to arrive at some understanding about what can be done to provide appropriate reparation.

According to Llewellyn and Howse (1998), the main elements of the restorative process involve voluntariness, truth telling and a face-to-face encounter. Consequently, the process should be completely voluntary for all participants; the offender needs to accept responsibility for the harm and be willing to openly and honestly discuss the criminal behaviour; and the participants should meet in a safe and organized setting to collectively agree on an appropriate method of repairing the harm.

Models of restorative justice can be grouped into three categories: circles, conferences and victim-offender mediations (VOM). While somewhat distinct in their practices, the principles employed in each model remain similar. A restorative justice program may be initiated at any point in the

criminal justice system and need not be used simply for diversionary purposes. Currently, there are five identified entry points into the criminal justice system where offenders may be referred to a restorative justice program:

- 1. police (pre-charge)
- 2. Crown (post-charge)
- 3. courts (pre-sentence)
- 4. corrections (post-sentence)
- 5. parole (pre-revocation)

Proponents of restorative justice claim that the process is beneficial to both victims and offenders by emphasizing recovery of the victim through redress, vindication and healing, and by encouraging recompense by the offender through reparation, fair treatment and habilitation (Van Ness & Strong, 1997). In the process of coming together to restore relationships, the community is also provided with an opportunity to heal, reconstitute and strengthen itself through the reintegration of victims and offenders (Llewellyn & Howse, 1998).

Despite the intuitive appeal of restorative justice, it is imperative to fully evaluate the impact of this approach on several important outcomes. Previous evaluation research focussing on this area has ranged from purely anecdotal accounts to more rigorous designs using comparison groups and, in some cases, random assignment into control and treatment groups (Bonta, Wallace-Capretta, & Rooney, 1998). These studies have examined the impact of restorative

justice on victim and offender satisfaction, restitution compliance, recidivism, procedural fairness, as well as several others.

Given that the field of restorative justice research has been maturing, a need existed to aggregate the present body of empirical knowledge. In this regard, several authors have recently provided comprehensive literature reviews of this area of research (Braithwaite, 1999; Latimer & Kleinknecht, 2000; Marshall, 1999). Summarizing the research through narrative or qualitative approaches, however, may fail to objectively analyse the available data and draw the appropriate conclusions. Cooper and Rosenthal (1980) directly tested the reliability of synthesizing literature through narrative reviews by providing test subjects with a set of seven studies that measured the relationship between two variables. Despite the fact that the set of studies showed a clear statistically significant relationship between the variables, 73 percent of the reviewers found limited or no support for the hypothesis. This suggested that traditional narrative reviews suffer a considerable loss of power and that the incidence of Type II errors may be common. In addition, the criteria for selecting literature for a narrative review are rarely systematic and consistent. The introduction of meta-analytic techniques, however, has marked a major step forward in summarizing research by providing a more objective method of aggregating knowledge.

¹For a more detailed discussion of the nature and principles of restorative justice, and the core program models, see *Restorative Justice in Canada: A Consultation Paper* (May 2000) developed by the Federal/Provincial/Territorial Working Group on Restorative Justice and available from the Department of Justice Canada (http://canada.justice.gc.ca/en/ps/voc/rjpap.html).

2.0 Meta-Analysis

similar to traditional quantitative research methods, the meta-analytic process involves three basic steps:

- 1. literature review identifying and gathering relevant research studies
- 2. data collection extracting data through pre-determined coding procedures
- data analysis analysing the aggregated data using statistical techniques

A meta-analysis can be understood as a statistical analysis of a collection of studies that aggregates the magnitude of a relationship between two or more variables (Glass, McGaw, & Smith, 1981). These studies may differ on several important characteristics, such as operationalization of independent and dependent variables, sample size, sample selection techniques and design quality. Meta-analytic statistics can describe the typical strength of the effect under investigation, the degree of statistical significance, the variability, as well as provide researchers the opportunity to explore and identify potential moderating variables. The outcome of a meta-analysis is an effect size, which can be interpreted as the estimated effect of the independent variable on the dependent variable. For example, an average effect size estimate of +.10 translates into the independent variable accounting for a 10 percent change in the dependent variable (Rosenthal, 1991).

Meta-analytic reviews are generally regarded as a superior method of

research synthesis compared to traditional narrative reviews as the former are "more systematic, more explicit, more exhaustive, and more quantitative" (Rosenthal, 1991, p.17). Metaanalytic techniques have been used across such diverse fields as education and medicine, and have more recently been adopted within the social sciences (Lipsey & Wilson, 1993). In the area of criminal justice research in particular, meta-analytic studies have investigated the prediction (Bonta, Law, & Hanson, 1998; Dowden & Brown, in press; Gendreau, Little, & Goggin, 1996; Hanson & Bussière, 1998) and treatment (Andrews et al., 1990; Dowden & Andrews, 1999, 2000; Latimer, 2001; Lipsey, 1995; Losel, 1995; Whitehead & Lab, 1989) of criminal behaviour.

Critics argue that one of the major limitations of meta-analytic techniques is that the sampling procedures are biased in favour of including predominantly published studies. It is surmised that the probability of publishing a study is increased by the statistical significance of the results so that published studies are not actually representative of the entire body of research that has been conducted in that area. Consequently, a calculated effect size, based exclusively on published studies, may be overestimating the relationship. Coined the "file drawer problem" (Rosenthal, 1991, p. 103), this suggests that if unpublished studies were included in the meta-analysis, the effect size estimate would be smaller.

Bonta, Wallace-Capretta, and Rooney (1998) conducted a preliminary metaanalysis of programs that contained elements of restorative justice and exclusively focussed on their role in reducing offender recidivism. The results revealed that these programs yielded mild reductions in re-offending (+.08). However, the authors used a very broad operational definition of restorative justice as they included both court-ordered restitution and community service programs. This definition is somewhat problematic as it fails to fully

incorporate some of the fundamental principles of restorative justice — namely, the voluntary nature of both offender and victim participation and the face-to-face encounter. A need therefore existed to quantitatively aggregate the findings of the literature using a more precise definition of restorative justice.

3.0 Method

■ ollowing the techniques of Rosenthal (1991), a meta-analysis was designed to test the effectiveness of restorative justice practices. One of the major issues in conducting this form of research is agreeing on a definition of restorative justice. Generally, it is much easier to identify a non-restorative approach than it is to provide a precise definition of what constitutes restorative justice. For the purpose of this meta-analysis, the following operational definition was developed: restorative justice is a voluntary, community-based response to criminal behaviour that attempts to bring together the victim, the offender and the community in an effort to address the harm caused by the criminal behaviour.

While this may be open to debate, an operational definition is necessary to conduct research. Therefore, for the present meta-analysis, programs that contained "restorative" elements, such as restitution or community service, but did not attempt to bring together the victim, the offender and the community, were not considered. This definition provided us with a guide for the study selection process and ensured that we were examining a consistent response to criminal behaviour.

We also needed to identify appropriate outcomes that were measurable and linked directly to the goals of restorative justice. Although several outcome measures have been used, we selected victim and offender satisfaction, restitution compliance and recidivism, as these were the only ones that were sufficiently available to be subjected to a meta-analysis. Furthermore, these four outcomes are clear and quantifiable determinants of the effectiveness of restorative justice.

3.1 **Literature Review: Study Identification Criteria**

To gather eligible studies for the meta-analysis, we conducted a comprehensive search of the restorative justice literature over the last 25 years. The studies were primarily drawn from the Internet, social science journals, and governmental and non-governmental reports. A secondary search was conducted using the bibliographies of the identified studies and by contacting researchers active in the field to identify new, unpublished and/or undiscovered research. An explicit set of criteria was established in order to select studies for inclusion in the meta-analysis:

- 1. The study evaluated a restorative justice program that fell within our working definition.
- 2. The study used a control group or a comparison group that did not participate in a restorative justice program.
- 3. At least one of the following four outcomes was reported for both the treatment and control/comparison group — victim satisfaction, offender satisfaction, restitution compliance and/or recidivism.
- 4. Sufficient statistical information was reported in order to calculate an effect size.

3.2 Data Collection: Coding Procedures

The standardized information contained in Table 1 was drawn from each study using a pre-designed coding manual. In designing a coding manual, the definition of certain variables can be problematic. For example, several studies chose to operationalize recidivism differently. In keeping with standard meta-analytic practice, we accepted multiple definitions of recidivism (i.e. a new criminal conviction, a new criminal charge, pre-post test offending). We also accepted two definitions of restitution compliance (proportion of offenders who repaid their restitution and proportion of total restitution dollars repaid by offenders).

For an overall mean effect size, in cases where multiple control/comparison groups were used in a single study, we combined the results to generate a single effect size for each program. In addition, where multiple follow-up periods were reported in a single study, we selected the longest at-risk period. To examine the impact of follow-up length and the use of different control/comparison groups, we did, however, also code multiple effect sizes for each program. The results of the two coding methods will be presented separately.

Since a large proportion of programs accepted referrals along multiple entry points, we coded both the earliest and the latest entry points in the criminal justice system. This provided us with two methods of conducting analysis on the entry point of the program and its subsequent impact on each outcome.

Table 1. Primary Variables in Meta-Analysis

RESEARCH ARTICLE INFORMATION

Year of the study Author(s) of the study Type of publication Country in which research was conducted

PROGRAM CHARACTERISTICS

Restorative justice model
Entry point in the criminal justice system
Training, selection criteria, experience
and educational background of the mediator
Eligibility criteria for offender participation
Existence of training manuals or procedural
guidelines

PARTICIPANT CHARACTERISTICS

Criminal history of offenders Offence types Age, gender and ethnicity of offenders Victim/offender relationship

OUTCOME MEASURES

Victim satisfaction rates Offender satisfaction rates Restitution compliance rates Recidivism rates

METHODOLOGICAL CHARACTERISTICS

Sample size

Random assignment to control and treatment groups

Length of follow-up for recidivism Characteristics of control/comparison group Use of an independent evaluator

While we did identify those programs that randomly assigned participants to treatment and control groups, it should be noted that this is somewhat misleading. While participants are initially assigned to either group, restorative justice participation by definition is voluntary so participants can choose to withdraw from a program. Consequently, the problem of self-selection bias, which random assignment strives to eliminate, remains as the attrition rate in many studies was quite high.

To effectively compare victim and offender satisfaction between restorative and traditional approaches, it was necessary to create a binary satisfaction variable. This was achieved by coding positive measures of satisfaction as "satisfied" whereas neutral and nega*tive* responses were collapsed into an "unsatisfied" category. For example, if a study employed a five-point scale to measure satisfaction (i.e. very satisfied, somewhat satisfied, neutral, somewhat dissatisfied, very dissatisfied), we selected the top two categories as indicating satisfaction and considered the last three as unsatisfied.

In certain studies, the actual number of victims was not indicated but the study reported the percentage of satisfied versus unsatisfied victims. In these cases, we assumed the number of victims was equal to the number of offenders in order to calculate an effect size. In meta-analytic work, there is usually a trade-off between the comprehensiveness of the research and the precision of the coding techniques due to the reporting practices contained in most studies.

To test the reliability of the coding procedures, a second individual coded six randomly selected studies containing a total of 15 effect sizes. The general rate of agreement between the coders ranged from 47 percent to 100 percent, with an overall rate of agreement of 91 percent. In cases of coder disagreement, both coders discussed the discrepancy until a consensus was reached and this decision was then entered as the final code. Those variables that fell below 80 percent agreement were not included in the analysis.

3.3 **Data Analysis: Effect Size Calculations**

The relationship between participation in a restorative justice program and each of the four outcomes (victim satisfaction, offender satisfaction, restitution compliance and recidivism) was calculated from the raw statistics reported within each study. The phi coefficient (Pearson's r product moment correlation applied to dichotomous data) was used as the effect size estimate. If the necessary data were not contained in an individual study, but a non-significant relationship between participation in a restorative justice program and the outcome was reported, the effect size was recorded as zero.

Once the effect sizes from each of the studies were calculated, we conducted a series of analyses across each of our four outcome measures of interest. First. the overall mean effect size, along with the corresponding confidence intervals and standard deviation (SD), was calculated. It should be noted that both the weighted and unweighted mean effect sizes were calculated but only the unweighted estimates were used in interpreting the results and in the moderator analyses. This was done because, as stated previously, we had to estimate the actual number of victims, thus reducing the reliability of the weighted estimates. Furthermore, the weighted mean effect sizes were only marginally lower or higher than the unweighted effect sizes and would not have made a significant difference to the results of the analysis.

We also determined whether the overall difference between the restorative

programs and the non-restorative control/comparison groups was statistically significant by conducting a one-sample t-test. This determines if the mean effect size is significantly different from zero (a zero effect size would indicate that participation in restorative justice had no effect on the subsequent outcomes). Additional analyses were conducted to explore whether certain

variables, such as demographic or study characteristics, had a moderating impact on effect size magnitude. For example, if adequate information was available, we explored whether the age of the study sample (adult versus youth) had a significant effect on program outcome. This provided us with a mechanism whereby specific program impacts could be isolated for further study.

4.0 Results

wenty-two unique studies that examined the effectiveness of 35 individual restorative justice programs generated 66 effect sizes. A summary of specific study characteristics is presented in Table 2. The frequencies presented in Table 2 are based upon the 35 programs with the exception of the type of outcome measure and study source, which are based upon 66 effect sizes and 22 unique studies respectively.

The vast majority of the effect sizes were derived from programs that targeted predominantly male (94%), young (74%) offenders. Interestingly, a large proportion of the effect sizes was drawn from studies that were not published in peerreviewed academic journals (55%), which, as discussed previously, is typically not the case in meta-analytic work.

As shown in Table 2, studies commonly included one or more of the following outcome measures: victim satisfaction. offender satisfaction, restitution compliance and recidivism reduction. Each of these issues will be discussed accordingly in the following subsections.

4.1 Victim Satisfaction

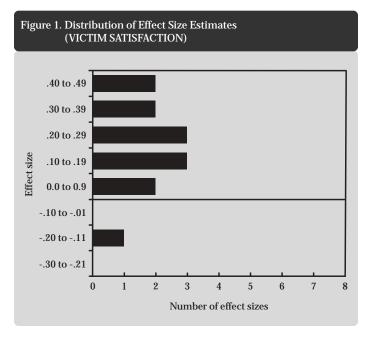
The overall mean effect size for the 13 tests of treatment that explored the impact of restorative justice programming on victim satisfaction was +0.19 (SD=.18) with a 95 percent confidence of +0.30 to +0.08 (see Figure 1). Although the effect sizes ranged from +0.44 to -0.19, the latter was the only negative value found in the distribution. In other words, participation in a restorative

Table 2. Descriptive Program/ **Study Characteristics**

VARIABLE	FREQUENCY (%)
Restorative Justice Model	
Conferencing	8 (22.9)
Victim-offender mediation	27 (77.1)
Entry Point	
Pre-charge	7 (20.0)
Post-charge	6 (17.1)
Pre-sentence	1 (2.9)
Post-sentence	1 (2.9)
Mixed	20 (57.1)
Outcome Measure	
Victim satisfaction	13 (19.7)
Offender satisfaction	13 (19.7)
Restitution compliance	8 (12.1)
Recidivism	32 (48.5)
Gender	
Predominantly male (>70%)	33 (94.3)
Mixed	2 (5.7)
Ethnicity	
Predominantly Caucasian (>70°	%) 14 (40.0)
Other	2 (5.7)
Mixed/unspecified	19 (54.3)
Age Group	
Adult	9 (25.7)
Youth	26 (74.3)
Study Source	
Published	10 (45.5)
Unpublished	12 (54.5)

justice program resulted in higher victim satisfaction ratings when compared to a comparison group in all but one of the 13 programs examined.

It should be noted that the one negative result was found in the only program that operated at the post-sentence (or corrections) entry point. Compared to victims who participated in the traditional justice system, victims who participated in restorative processes were significantly more satisfied (t (12) = 3.89, p < 0.01).



Given the relatively wide range of effect sizes, additional analyses were conducted to explore whether characteristics of the study sample or methodological considerations could explain this variability. Initially, we had hoped to explore a relatively large number of potential moderators, such as gender, ethnicity, criminal history, offence type, etc. The relative homogeneity of the offenders in the studies, however, as well as the large amount of missing data, rendered many of these analyses untenable. On the other hand, this homogeneity increases our confidence in the generalizability of the findings to this population. Therefore, the analyses focus on six factors: random assignment, offender age, publication source, restorative justice model, entry point and control/comparison group type.

As indicated previously, we used two coding methods for capturing information on the control/comparison group used in the studies. First, we combined multiple control/comparison groups from the same study to calculate a single effect size; second, we calculated individual effect sizes for each control/comparison group. For the comparison of control groups in Table 3 (and subsequent Tables), we used the latter coding technique. This allowed us to compare restorative justice programs with individuals

who were referred to a restorative justice program but refused participation versus all other control group types (i.e. probation, court, prison).

The mean effect sizes for each value of the moderator variable, along with their corresponding significance tests, are presented in Table 3. Although these variables did not yield significant between-group differences, studies using non-randomized comparisons and studies published in academic journals displayed a higher mean effect size than their counterparts. In addition, VOM models tended to display higher victim satisfaction rates than conferencing models when compared to the non-restorative approaches. The lack of significance between moderating variables might be due to the low number of effect sizes.

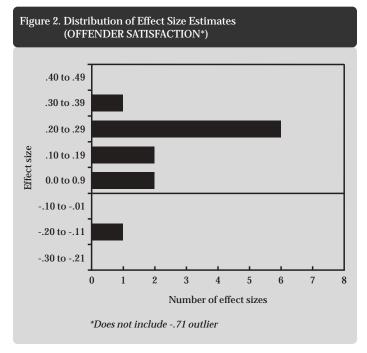
VARIABL	Æ	N	EFFECT SIZE Unweighted	T value (p)
AGE	Youth	8	.20	09
	Adult	5	.19	(ns)
RANDOM ASSIGNMENT	Yes	3	.14	.94
	No	10	.21	(ns)
STUDY SOURCE	Published	3	.30	-1.42
	Unpublished	10	.16	(ns)
ENTRY POINT (earliest)	Pre-charge	6	.16	31
	Other entry points	6	.18	(ns)
ENTRY POINT (latest)	Pre-charge	3	.15	32
	Other entry points	9	.18	(ns)
MODEL	Conferencing	4	.14	.94
	V-O mediation	9	.21	(ns)
CONTROL GROUP	Non-participation	9	.22	.62
	Other control	6	.18	(ns)

4.2 Offender Satisfaction

The overall mean effect size for the 13 tests of the impact of restorative justice programming on offender satisfaction was +0.10 (SD=.28), while the effect sizes ranged from +0.31 to -0.71 (see Figure 2). While offenders who participated in restorative justice programs displayed higher satisfaction with the process than their comparisons, the one-sample t-test indicated that this difference was not statistically significant. Since the 95 percent confidence interval included zero, this further decreased our confidence that these programs have had any discernible impact on offender satisfaction.

This conclusion is mitigated, however, by the finding that although there were

two negative effect sizes contributing to this result, the -0.71 was a clear outlier. Moreover, given that the sample size used in this outlier study was extremely small (n=7), we removed the study from the analysis. This increased the mean effect size to +0.17 and substantially reduced the standard deviation (SD=.13). Furthermore, and more importantly, removal of this study resulted in the confidence interval not including zero, thus suggesting that these programs have a moderate to weak positive impact on offender satisfaction. The difference in offender satisfaction between restorative and non-restorative participation also becomes significant (t (11) = 4.52, p < 0.01). Interestingly, the -.71 effect size was drawn from the same post-sentence entry point program as the only negative victim satisfaction effect size.



To account for this substantial discrepancy, we presented the results both with the outlier (Table 4.1) and without the outlier (Table 4.2). Given this extreme outlier, interpreting these results was inappropriate as the conclusions would be drastically different in each case based upon the inclusion or exclusion of one value.

4.3 Restitution Compliance

One of the potential advantages of a restorative justice approach is that it could be more effective in ensuring offender compliance with restitution agreements. This would be a significant contribution as the victims would have a greater likelihood of receiving com-

pensation for the harm caused by the criminal activity and the offenders would be actively accepting responsibility. The results of the studies that included a measure of restitution compliance are reported below.

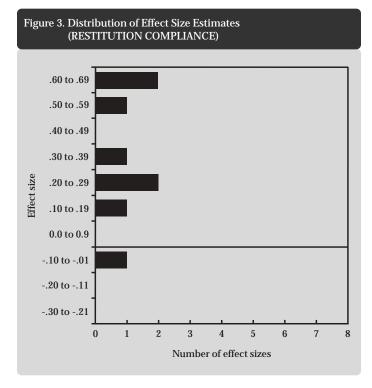
Only eight studies examined the impact of restorative justice programming on restitution compliance. Although this number may seem small, it may have been, in part, due to the inclusion criteria for this meta-analysis (i.e. the study used a comparison group). Overall, the mean effect size of +0.33 (SD=.24) was quite

high, indicating that offenders who participated in restorative justice programs tended to have substantially higher compliance rates than offenders exposed to other arrangements. Furthermore, there was a great deal of variability in the effect sizes found in these studies, with values ranging from +0.63 to -0.02 (see Figure 3). Compared to the comparison/control groups not participating in a restorative justice program, offenders in the treatment groups were significantly more likely to complete restitution agreements (t (7) = 3.87, p < 0.01).

The small number of effect sizes (k=8) made conducting the moderator analyses inappropriate.

VARIABL	.E	N	EFFECT SIZE Unweighted	T Valu (p)
AGE	Youth	8	.15	47
	Adult	5	.05	(ns)
RANDOM ASSIGNMENT	Yes	4	.09	.17
	No	9	.12	(ns)
STUDY SOURCE	Published	1	.08	.00
	Unpublished	12	.11	(ns)
ENTRY POINT (earliest)	Pre-charge	8	.15	.17
	Other entry points	5	.03	(ns)
ENTRY POINT (latest)	Pre-charge	5	.09	13
, , ,	Other entry points	8	.11	(ns)
MODEL	Conferencing	6	.11	.12
	V-O mediation	7	.09	(ns)
CONTROL GROUP	Non-participation	8	.10	.02
	Other control	7	.10	(ns)

VARIABI	Æ	N	EFFECT SIZE Unweighted	T Valu (p)
***************************************				(P)
AGE	Youth	8	.15	1.71
	Adult	4	.22	(ns)
RANDOM ASSIGNMENT	Yes	4	.09	1.33
	No	9	.21	(ns)
STUDY SOURCE	Published	1	.08	.00
	Unpublished	11	.18	(ns)
ENTRY POINT (earliest)	Pre-charge	8	.15	-1.02
	Other entry points	4	.22	(ns)
ENTRY POINT (latest)	Pre-charge	5	.09	-1.79
	Other entry points	7	.23	(ns)
MODEL	Conferencing	6	.11	.12
	V-O mediation	6	.23	(ns)
CONTROL GROUP	Non-participation	7	.21	1.93
	Other control	7	.10	(ns)



4.4 Recidivism

Arguably, one of the most important outcome variables for any form of criminal justice intervention is recidivism. Considerable public and institutional support for correctional programming rests on its ability to reduce future criminal activity. Therefore, the ability of restorative justice programs to reduce recidivism was felt to be particularly important for this meta-analysis.

The overall mean effect size for the 32 tests that examined the effectiveness of restorative justice programming in reducing offender recidivism was +0.07 (SD=.13) with a 95 percent confidence interval of +0.12 to +0.02. Although the effect sizes ranged from +0.38 to -0.23,

more than two thirds of the effect sizes were positive (72%). In other words, restorative justice programs, on average, yielded reductions in recidivism compared to non-restorative approaches to criminal behaviour. In fact, compared to the comparison/ control groups that did not participate in a restorative justice program, offenders in the treatment groups were significantly more successful during the followup periods (t(31) = 2.88, p < 0.01).

One of the major areas of debate in the correctional treatment literature is the impact of different

methodological and demographic characteristics on program effectiveness. Subsequently, we conducted moderator analyses to explore the impacts of several variables on recidivism reduction. The results of these analyses are presented in Table 5 and are discussed below.

As stated previously, one of the primary criticisms lodged against meta-analysis is its predominant reliance on published studies and the subsequent problem of potential publication bias. This issue has been addressed in the present meta-analysis by conducting searches of governmental and non-governmental reports, graduate theses and dissertations and by directly contacting researchers active in the field for



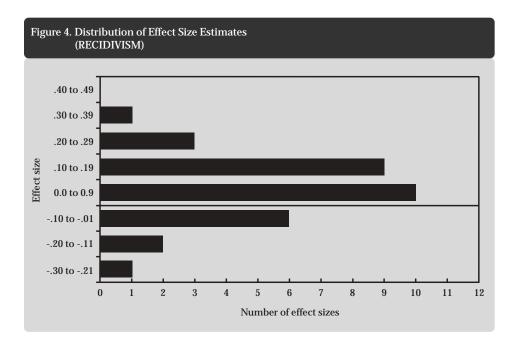


Table 5: Moderator Analyses for Recidivism				
VARIABL	E	N	EFFECT SIZE Unweighted	T value (p)
AGE	Youth	24	.06	.60
	Adult	8	.10	(ns)
RANDOM ASSIGNMENT	Yes	8	.06	.33
	No	24	.07	(ns)
STUDY SOURCE	Published	12	.12	-1.73
	Unpublished	20	.04	(ns)
ENTRY POINT (earliest)	Pre-charge	16	.07	.17
	Other entry points	16	.06	(ns)
ENTRY POINT (latest)	Pre-charge	8	.06	16
	Other entry points	24	.07	(ns)
MODEL	Conferencing	8	.06	.22
	V-O mediation	24	.07	(ns)
CONTROL TYPE	Non-participation	9	.02	-1.73
	Other control	31	.12	(ns)
v-o = victim-offender ns = not significant				

unpublished research. Nevertheless, we directly tested the impact of publication source on effect size. Inspection of Table 5 reveals that the mean effect size for studies from published sources was somewhat higher than the mean effect

size found in unpublished sources. This, in combination with the difference reported in victim satisfaction rates, lends support to the "file-drawer" problem in meta-analytic work.



5.0 Discussion

enerally, compared to traditional non-restorative approaches, restorative justice was found to be more successful at achieving each of its four major goals. In other words, based on the findings of this metaanalysis, restorative justice programs are a more effective method of improving victim/offender satisfaction, increasing offender compliance with restitution, and decreasing the recidivism of offenders when compared to more traditional criminal justice responses (i.e. incarceration, probation, courtordered restitution). In fact, restorative programs were significantly more effective than these approaches in all four outcomes (with the exclusion of the offender satisfaction outlier).

Self-Selection Bias 5.1

The positive results of this meta-analysis are tempered, however, by the selfselection bias evident in controlled outcome studies on restorative justice programs. Restorative justice, by its very nature, is a voluntary process. This creates a treatment group of participants (both offenders and victims) who have chosen to participate in the program and may therefore be more motivated than the control group. This concern is elevated by the high rate of attrition within many of the studies in this metaanalysis. McCold and Wachtel (1998), for example, found clear differences in the recidivism rates of restorative justice participants (20%) versus individuals who refused participation in the program (48%) versus the comparison group (35%). In fact, these authors

argued that there was no treatment effect on recidivism from participation in restorative justice beyond a selfselection effect.

This is an inherent problem in restorative justice research. It is not possible to truly randomly assign participants to treatment and control conditions. Once an individual is forced to participate in a restorative justice program, most would argue that the program is no longer truly restorative. Given this, we believe that an alternative method of determining the effectiveness of restorative justice is necessary. We recommend administering questionnaires designed to measure participants' motivation prior to program participation. This would allow researchers to examine the motivation of the control group, restorative justice participants and those who refused participation. A research design such as this would provide a comparison of highly motivated, moderately motivated and unmotivated individuals in each group. If the satisfaction or recidivism rates, for example, were improved in the restorative justice group, and motivation was controlled for in the analysis, we would be more convinced that there is a treatment effect from participation in restorative justice processes.

Notwithstanding the issue of selfselection bias, the results of this meta-analysis, at present, represent the best indicator of the effectiveness of restorative justice practices (i.e. those individuals who choose to participate in restorative justice programs find the process satisfying, tend to display lower recidivism rates and are more likely to adhere to restitution agreements).

5.2 Appropriate Treatment

While the effects of restorative justice participation on recidivism remains somewhat uncertain due to the selfselection bias, many argue that it is naïve to believe that a time-limited intervention such as a VOM will have a dramatic effect on altering criminal and delinguent behaviour (Umbreit, 1994b). Additional factors, such as anti-social peers, substance abuse and criminogenic communities, which have been linked to criminal behaviour (Hawkins et al., 1998; Lipsey & Derzon, 1998), are not adequately addressed in the restorative process. Andrews and Bonta (1998) have also identified several criminogenic needs that they maintain are imperative to address in the treatment of offenders in order to reduce recidivism effectively. Generally, they identified anti-social attitudes, pro-criminal associates, personality factors, family factors and low levels of educational and employment attainment. In fact, previous meta-analytic work conducted by Dowden (1998) and Andrews et al. (1990) found that "appropriate" correctional treatment (i.e. those programs that adhered to the clinically relevant principles of risk, need and responsivity²) displayed an appreciably higher mean effect size (+.26 and +.30, respectively) for recidivism compared to the findings for restorative justice programs (+.07) presented here. In other words, although restorative justice programs may yield reductions in recidivism compared to more traditional criminal justice responses to crime, they did

not have nearly as strong an impact on re-offending as psychologically informed treatment.

It has been argued, however, that restorative justice and rehabilitative treatment are rather complementary approaches (Crowe, 1998). The utilization, therefore, of both restorative justice processes and "appropriate treatment" as a comprehensive response to criminal behaviour would be a valuable and theoretically directed experiment. This combination would enable both approaches to capitalize on their strengths and minimize their weaknesses. More specifically, the restorative processes could increase victim/ offender satisfaction and restitution compliance while the rehabilitative processes could have a significant impact on recidivism.

5.3 Moderating Variables

Although we did not discover any significant differences in reported outcomes based on model type (i.e. VOM versus conferencing), VOM models did have higher victim satisfaction ratings and offender satisfaction ratings (excluding the outlier). The low number of effect sizes, however, coupled with the lack of a significant difference, does not allow for a firm conclusion. Theoretically, the large number of participants in a conference compared to a VOM could be contributing to the reported lower victim/offender satisfaction ratings. There is concern in the restorative justice literature that coming to a

²For a detailed description of the principles of risk, need and responsivity and their importance in effective correctional treatment, see Andrews and Bonta (1998).

satisfactory agreement in a session is sometimes difficult, particularly when there are numerous individuals from various backgrounds participating in the process (Hooper & Busch, 1996). This possibility is certainly increased in the case of conferences.

Interestingly, we did not discover differences among programs that operate along different entry points to the criminal justice system, with the exception of offender satisfaction. This difference is not convincing, however, because of the outlier issue and the fact that the entry points were difficult to code (more than half of the programs had mixed entry points). Thus, we recommend that researchers more explicitly code the entry point for their program and/or separate the analyses by this variable.

There were several questions that we were unable to answer due to a lack of data reported in the literature. For example, we were interested in exploring whether the characteristics of the facilitator had a significant moderating impact on restorative justice program effectiveness. However, very few, if any of the studies, provided information concerning the education, professional background or training of the facilitators. This is particularly noteworthy as facilitators within restorative justice programs can have a significant impact on the outcome of a session. Support for this assertion may be found within the correctional treatment literature where program staff characteristics and behaviours have been found to have a significant impact on program effectiveness (Dowden & Andrews, under review). There was also rather limited data on additional important variables, such as

the criminal history of the offenders (i.e. first-time offenders versus repeat offenders), the specific offences (i.e. minor versus serious offences, property versus violent offences), and the relationship between offenders and victims (i.e. family, neighbour, stranger).

In general, we were unable to provide an adequate explanation for the large range of reported effect sizes in each of the outcomes. It is possible that the significant factors in determining a more successful restorative justice program are those that were not reported in the literature (i.e. facilitator characteristics. offence types, criminal history). To facilitate a better understanding of the effectiveness of restorative justice, we recommend that future studies report outcomes, such as recidivism or satisfaction, separately for groups of offenders using such variables as gender, age, criminal history, offence types and relationship between victim and offender. In addition, we recommend that studies provide more detailed information on the processes used within the restorative justice programs and the facilitators.

Additional Research Issues 5.4

Another issue that future studies may wish to explore is the effect that offender compliance with restitution agreements has on victim satisfaction. The restrictions of meta-analytic procedures preclude such an analysis. Morris and Maxwell (1998), however, did report that the reason most frequently reported for victim dissatisfaction in an evaluation of a family group conference program in New Zealand was a failure to receive the appropriate restitution.

More empirical research into the restitution conditions (i.e. type of restitution, size of restitution, length of time given to comply) that lead to successful compliance would also be appropriate. Moreover, the same type of analysis could be completed on restitution conditions and victim/offender satisfaction.

And finally, there is no research in the literature that examines the longer term effects for victims who participate in a restorative justice process. An examination of whether victims still feel that they have experienced some closure and healing six months or a year after the restorative process would be beneficial.

6.0 Research Recommendations

urprisingly, given the current level of restorative justice activity in Canada, there were only three Canadian studies and no appropriate empirical evaluations of circle sentencing models or healing circles. This is due, in some part, to our selection criteria, which required the use of a control/comparison group but also because the field of restorative justice research in Canada is not as well developed as it is in other countries. In addition, as with a large proportion of criminal justice research, there was a dearth of information on the effectiveness of restorative justice for female offenders. As such, we are recommending that future Canadian research focus on the following issues:

more evaluations of restorative justice programs using randomly assigned treatment and control conditions with an examination of restorative justice participants' motivation in order to address the inherent self-selection bias;

- more specific reporting practices when presenting outcomes (i.e. by age groups, gender, criminal history, offence type);
- more detailed information in research reports/articles on the processes involved in the programs and program facilitators;
- the effectiveness of a combination of restorative justice and "appropriate treatment" approaches;
- the effectiveness of restorative justice for female offenders;
- controlled evaluations of circle sentencing models and healing circles;
- the relationship between restitution and satisfaction; and
- follow-up research into the longer term effects on victims.

7.0 Conclusion

■ he traditional criminal justice system, which has been often criticized as too formal, punitive and adversarial, is clearly changing. The large increase in the number of restorative justice programs operating in Canada is undoubtedly having an impact on criminal justice theory and practice. We are currently in a period of substantial change; but, as the results of this meta-analysis indicate, we are moving in a positive direction. The addition of restorative justice programs has enhanced victim satisfaction in a process that was, by its very nature, rather unsatisfactory. Moreover, this response to criminal behaviour has a strong impact by encouraging more offenders to take responsibility for their actions and repair through restitution some of the harm they have caused. And while the gains made in recidivism are

not as strong as "appropriate correctional treatment," restorative justice does appear to reduce recidivism for those who choose to participate. Finally, offenders in restorative justice programs report moderate increases in satisfaction compared to offenders in the traditional system.

The proliferation of restorative justice programming worldwide is, therefore, not surprising. Both the theory and empirical research tend to offer support for such a response to criminal behaviour. The next critical step for both research and program development is to obtain a better understanding of the effect of self-selection bias that currently diminishes our confidence in these results. To more definitively claim restorative justice as an effective response to criminal behaviour, we need to be able to address this limitation inherent in restorative justice research methods.

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