

A Review on the Effectiveness of Canadian and American Mental Health Courts

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Objective: This systematic review synthesizes mental health court (MHC) research across the United States and Canada. This study reviews and compares the operations and practices of MHCs across both countries, as well as their recidivism rates.

Methods: We gathered from existing literature to present common MHC practices used across the United States. However, in response to the lack of literature about Canadian day-to-day practices, we developed a questionnaire and contacted every Canadian MHC. In total, we contacted 36 Canadian MHCs, and 19 courts filled out a questionnaire. With respect to recidivism rates, we conducted a comprehensive literature search in February and March 2019 in PsycINFO, Google Scholar, Web of Science, and National Criminal Justice Reference Service Abstracts using the keywords mental health court, therapeutic justice, serious mental illness, mentally ill offenders, mental health diversion and problem-solving courts.

Results: Canadian and American MHCs have similar practices. However, American MHC's have more robust screening measures and typically admit more participants with schizophrenia, bipolar disorder, and major depressive disorder into their programs compared to Canadian MHCs. MHC participants in both countries typically had lower recidivism rates compared to regular docket court participants.

Conclusions: MHC research should inform public policy. Additional research should move in the direction of discovering the predictors for why MHCs reduce recidivism.

Key words: meta-analysis, mental health courts, Canada, United States, practices, recidivism

Introduction

There has been a steady deterioration of services for the mentally ill across North America [1-3]. For the past several decades, the criminal justice system (CJS) has emerged as the safety net for those with mental illnesses. Criminal justice data from across Canada and the United States have documented the alarming overrepresentation of prisoners with mental health problems or mental illness diagnoses, with the U.S. Department of

Justice reporting that 24% of state prisoners and 14% of federal prisoners had a mental health problem within the previous 12 months [4]. In Canada, the Office of the Correctional Investigator reported that 13% and 29% of male and female federal prisoners had a mental health diagnosis, with both rates of men and women doubling between 1997 and 2008 [5].

Beginning in the 1980s and 1990s, various actors (judges, lawyers, and other criminal

justice practitioners) began criticizing the over-representation of offenders with mental illnesses (and acute addictions) and the failure of several government departments, agencies, and initiatives to adequately address their complex risks and needs [6,7]. As a result, many states and provinces established community-based therapeutic interventions and treatment options [8,9]. In this context, mental health courts (MHC) arose as an alternative to traditional courts. MHCs focus on providing therapeutic, recovery interventions, and predominately operate according to the following three main assumptions and goals:

1. MHCs can decrease the recidivism rates of mentally ill patients,
2. MHCs can address and improve the quality of life and health outcomes of mentally ill offenders, and
3. MHCs can reduce regular court and other criminal justice costs.

There is a need to synthesize the recent research on MHCs given the sheer amount of published research and the proliferation of MHCs. In recent years, there have been a series of meta-analyses and systematic reviews on MHCs to synthesize this research [10-14]. However, these articles have almost exclusively focused on American contexts. Although those articles are undoubtedly insightful and useful, the aim of this article is to add to the literature by comparing Canadian and American MHCs. Specifically, this systematic review:

1. compares and contrasts the designs and practices of Canadian and American MHCs (qualitative differences) and
2. compares and contrasts recidivism rates (quantitative outcomes) of Canadian and American MHCs.

To address the first point, we gathered information from existing research in the United States to analyze the practices of American MHCs. However, due to a lack of existing research on the practices of Canadian MHCs, we developed a questionnaire and contacted MHCs across Canada. To address the second point, we conducted

an exhaustive literature search on recidivism rates in several databases.

In this article, we review existing research as well as introduce novel research. We first review existing research in the United States, including the purpose and core structural components of American MHCs. Second, we present our findings on the practices and purposes of Canadian MHCs. Third, we systematically review recidivism rates of MHCs in Canada and the United States. Finally, we discuss future areas of research.

Literature Review: American MHCs

Two major factors contributed to the creation of MHCs and other problem-solving courts. First, interest groups across the political spectrum criticized the enormous economic costs associated with mass incarceration in the late 1980s and 1990s [15]. For instance, scholars [16,17] vehemently criticized get-tough-on-crime policies because of the growing criminal justice costs. Second, the term “therapeutic jurisprudence” started to emerge in the criminal justice field at that same time and spread into other social arenas [1,18]. Therapeutic jurisprudence links crime to larger social structures and psychological factors, and aims to improve the well-being of individuals who are involved in the justice system. Broadly speaking, therapeutic jurisprudence provides individuals with a series of services—such as housing, addictions treatment, and psychotherapy—to help reduce their interactions with the CJS. In this context, problem-solving courts were developed across the United States to address increasing prison populations and costs for those with mental illnesses or other specialized needs [19].

The Miami Drug Treatment Court established in 1989 represented the first problem-solving court in the United States. This court addressed the growing recognition that sentencing those with drug addictions did not reduce recidivism [20]. The first MHC emerged in 1997 in Broward County, Florida, to divert offenders with mental illnesses away from the criminal justice system. MHCs have proliferated since 1997, with the Council of State Governments [21] indicating there are now more

than 300 American MHCs. The United States typically has two different types of MHCs:

1. the first wave of MHCs that predominately target nonviolent offenders charged with misdemeanours, and
2. a second, newer wave of MHCs that target offenders charged with felony crimes [22].

The Council of State Governments represents the foremost educational and funding body for American MHCs. The Council [21] has provided assistance and training to more than 100 MHCs throughout the United States. The Bureau of Justice Statistics and the Council of State Governments [23] established 10 defined, shared elements for all American MHCs to follow. These elements distinguish MHCs from regular courts and include:

1. planning and administration;
2. identifying criteria and a target population;
3. timely participant identification and linkage to services;
4. individualized terms of participation;
5. participant-informed choice;
6. treatment supports and services;
7. confidentially sharing health and legal information among court actors (e.g., lawyers, probation officers, and mental health professionals);
8. court are provided with continuous mental health training and education;
9. monitor if the participants follow their court-mandated conditions; and
10. collecting data on each MHC to ensure its effectiveness and to ensure community support for the program [24].

MHCs across American and Canadian jurisdictions broadly operate according to one or more of the following purposes:

1. to provide a separate docket court for those who suffer from serious mental illness(es);
2. to decrease the recidivism rates of MHC participants;
3. to deliver therapeutic, community, or both interventions to improve health outcomes; and
4. to monitor the level of compliance [12,13].

MHC screening

A study of six American MHCs represents the foremost research on the selection process [25]. There are typically three stages of MHC participant screening: initial screening, assessment eligibility screening, and evaluation screening. During the initial screening, members of the prosecution, judges from other courts, law enforcement officers, defence attorneys, probation officers, and prison staff refer potential participants to MHCs. The district attorney and MHC team determine if the individual's charges, criminal history, and mental illness match the court's eligibility criteria [25]. Potential MHC participants are screened out due to ineligible offence-type. For instance, some MHCs only admit those with misdemeanour offences while others only admit those with felony charges [26].

Those who meet the first stage requirements are referred to a more in-depth review, often conducted by mental health professionals. The mental health team primarily determines whether the potential participant meets the mental disorder criteria and whether their mental disorder played a role in the index offence. Drawing from a meta-analysis of 18 studies [27], the vast majority of individuals ultimately admitted into MHC have either a schizophrenia, bipolar or major depressive disorder diagnosis (sometimes referred to as the big three). However, other MHC studies also indicate that some courts admit a variety of conditions, including anxiety, developmental disabilities, substance abuse, and personality disorders [28], although these illnesses often co-occur with the big three. If the mental health team determines the individual has met the illness criteria,

the team then decides “on the client’s willingness and ability to comply with treatment conditions” and their criminal history (e.g., history of violent crime) [25]. Those who do not meet these criteria are deemed ineligible for MHC participation.

At the final screening stage, the judge requests the client meet with them to determine final admission into MHC. Although there is some variability, most American MHCs use a combination of these screening phases to determine participant eligibility.

MHC participant demographics

There are four primary demographic features of MHC participants. First, female participants are overrepresented in MHCs compared to the general prison populations [29]. This being said, there are still more males than females enrolled in MHCs [30]; however, in some jurisdictions, females comprise the majority of MHC participants [31]. Second, a large subset of studies report participants to be typically in their early-to late-30s. [28,32]. Third, research indicates that there is an overrepresentation of white people and an underrepresentation of Black people, despite a vast overrepresentation of Black people in American prisons [32]. Finally, research indicates that the vast majority of participants enrolled in MHCs have been diagnosed with severe mental illness(es) [33].

Sanctions and rewards

MHC judges generally provide participants with a series of court conditions, such as attending psychotherapy, taking prescribed medications, abstaining from intoxicants, and weapon prohibitions [34]. MHCs frequently sanction participants for their noncompliance with their conditions and reward them for their compliance. Sanctions and rewards establish the right balance between “the carrot and the stick” to ensure compliance. This carrot-and-stick approach can be particularly effective for MHCs that dismiss the participant’s charges when they successfully complete their court conditions [6].

MHCs employ a wide series of sanctions to ensure compliance, including the judge harshly

criticizing MHC participants [35], forcing the MHC participant to sit and watch other defendants in the court gallery all day, urinalysis, and increasing the number of probation officer appointments [36]. A study reported that prison was used as a last resort in three of the four MHCs we studied, and that judges used prison as a sanction in 21% to 34% of their cases [37]. Alternatively, MHCs also frequently reward participants for complying with court conditions. Common rewards include the judge praising the participant in the courtroom, reducing or eliminating court supervision and appointments with probation officers, and reducing or overturning urinalysis orders [6]. Globally, the use of sanctions and rewards is implemented to assist MHC participants in adhering to treatment and conditions.

Methods

Canadian MHC practices

We did not find a qualitative review of Canadian MHC practices in academic literature. To address this gap, we developed a standardized Excel document with 35 questions and contacted every Canadian courthouse or Canadian Mental Health Association office in every Canadian city with a population of more than 100,000, excluding Quebec. We did not contact Quebec jurisdictions because we are not fluent in French. Every MHC that was contacted was asked if they knew of any other MHCs in their province that had a population of less than 100,000 (see Table 1). Surprisingly, we discovered several MHCs in smaller jurisdictions. Port Hawksbury, Nova Scotia (population 3,214), is the smallest jurisdiction with a MHC. Conversely, Calgary, Alberta, is the largest city without an MHC (population 1.33 million). We spoke to representatives from 71 Canadian jurisdictions. Of these, 36 jurisdictions reported they had an MHC, for a total of 47 Canadian MHCs (there are 11 MHCs in Quebec). If a jurisdiction had an MHC, we asked the representative if we could email them a questionnaire to fill out. Nearly every jurisdiction consented and gave us their email. In total, we found that there are 24 MHCs in Ontario, 11 in Quebec, four in Nova Scotia, two in Saskatchewan, and one in each of Alberta, British Columbia, Manitoba,

Newfoundland and Labrador, New Brunswick, and the Northwest Territories.

We then attempted to communicate with the courts about information that is in the public domain (e.g., Do you have a court? What are the court procedures?). Nineteen Canadian MHCs responded. We collected information on numerous court practices, most notably:

1. basic MHC information and goals,
2. screening and eligibility, and
3. incentives and sanctions that are used in the courts.

Recidivism rates

Five articles previously conducted a standardized review of recidivism rates for MHCs [10-14]. All these articles reported that MHC participants typically had lower recidivism rates compared to those in regular court. Although these articles are important and noteworthy, this study adds to the literature by providing a review of Canadian MHCs, which has not been done to date.

The lead author conducted a comprehensive literature search in February and March of 2019 in PsycINFO, Google Scholar, Web of Science, and National Criminal Justice Reference Service Abstracts using the keywords mental health court, therapeutic justice, serious mental illness, mentally ill offenders, mental health diversion and problem-solving courts. We looked in the reference sections for additional articles.

Five inclusion criteria included articles that:

1. were published in English;
2. included adult MHCs (as opposed to youth);
3. used recidivism as a dependent variable (e.g., arrests, conviction, or time spent in jail);
4. included an experimental and comparison group (MHC-TAU [treatment as usual]) or a pre-post design between completers and noncompleters; and

Table 1: Canadian mental health courts (e.g., community wellness courts, therapeutic courts), excluding Quebec

City or town	Population (2016 figures)	Completed Questionnaire
Edmonton, Alba.	932,550	Yes
Victoria, B.C.	85,795	No
Winnipeg, Man.	705,245	Yes
Saint John, N.B.	67,575	Yes
St. John's, N.L.	108,860	Yes
Amherst, N.S.	9,413	Yes
Dartmouth, N.S. (includes Halifax)	403,390	Yes
Kentville, N.S.	6,271	Yes
Port Hawkesbury, N.S.	3,214	No
Bradford/Alliston, Ont.	28,077	No
Brockville/Leeds, Ont.	21,854	No
Greater Sudbury, Ont.	161,530	Yes
Guelph, Ont.	131,795	No
Halton/Milton, Ont.	548,435	Yes
Hearst, Ont.	5,550	Yes
Huron-Perth, Ont.	59,297	Yes
Kenora, Ont.	15,096	Yes
Kingston, Ont.	123,795	No
Kitchener, Ont.	233,220	No
Lambton/Sarnia, Ont.	123,399	No
Lindsay, Ont.	20,354	No
London/Middlesex, Ont.	383,825	Yes
Markham, Ont.	328,965	Yes
Oshawa, Ont.	159,455	No
Ottawa, Ont.	934,240	No
Owen Sound, Ont.	21,341	No
Oxford/Norfolk, Ont.	110,862	No
Peel, Ont.	1,382,000	No
Peterborough, Ont.	81,035	Yes
Sault Ste. Marie, Ont.	73,368	Yes
Toronto, Ont.	2,732,000	No
Vaughn, Ont.	306,230	No
Windsor, Ont.	217,185	Yes
Regina, Sask.	215,105	Yes
Saskatoon, Sask.	246,375	Yes
Yellowknife, N.W.T.	19,569	No

5. were published in a peer-reviewed academic journal.

Articles that analyzed participant's self-reported criminal involvement were excluded because of the unreliability of self-report measures of criminal involvement.

Results

Canadian MHC practices

The first Canadian MHC opened in Toronto on May 11, 1998 [1]. The scholarly literature does not outline the number of MHCs across Canada, although the Canadian Human Services and Justice Coordinating Committee [38] reported there were 18 operational courts in Ontario and 11 MHCs in Quebec in 2018 [39].

Basic information and goals of Canadian MHCs

Of the 19 MHCs that answered the questionnaire, four operated two or three times per week, three courts operated once per week and 12 MHCs operated a few times a month or less. None of the MHCs were functional eight hours a day or more because many of these courts operated in small jurisdictions and did not have large caseloads. However, seven MHCs functioned between five to eight hours per day, six MHCs operated between two to five hours per day, and five MHCs operated between one and two hours per day.

MHCs were asked if they had goals or measures of success and, if so, the MHCs were asked what those measures were. Fifteen of the MHCs stated that they had clearly defined goals or measures of success, with some having multiple goals. Goals included diversion (six courts), improved health outcomes (six courts), reduced recidivism (five courts), and improved well-being (four courts). Although 15 courts had stated goals, only two of them had done a robust analysis of how to measure their court's success [40,41].

Eligibility and screening

Every Canadian MHC has eligibility criteria (typically several criteria), with some courts having stricter criteria than others. To be eligible for

MHC, 13 MHCs reported that the participant's mental illness must have played a key role in their alleged index or predicate offence, 12 MHCs indicated that their participants had to have a diagnosed serious mental illness, and 10 MHCs stated that the participant must agree to treatment. Some courts were more lenient in their mental illness eligibility: five noted that they would admit participants into their MHC if there was evidence of a mental illness or mental health issue. Four indicated that they would admit participants who had developmental disabilities or brain injuries, and nine reported that prospective participants must meet all the criteria to be eligible for MHC.

Fourteen MHCs excluded participants based on offence types. The most common excluded offence was homicide (14 MHCs), followed by sexual offences (10 MHCs), and domestic violence (five MHCs). Other excluded offences included serious assaults (two MHCs), driving offences (two MHCs), and offences against children (two MHCs).

All 19 MHCs indicated that both the crown and defence (including duty counsel) referred cases to MHC. Ten courts indicated that judges from other courts referred cases. Other referrals came from the police officers, mental health professionals, and family. Once potential participants were referred to an MHC, the court would then conduct a screening to determine eligibility. Only one court did not have any person devoted to screening potential MHC candidates. The other MHCs had the following people involved with screening:

1. the crown (14 MHCs),
2. mental health professionals (predominately comprised of either one of, or a team of social workers, psychologists, and psychiatrists—13 MHCs),
3. the defence (five MHCs),
4. probation officers (two MHCs), and
5. court support workers (two MHCs).

The crown and mental health professionals collaboratively engaged in screening measures in

10 MHCs. Three MHCs admitted nearly 100% of referred cases, 11 MHCs admitted about 75%, and five MHCs admitted about 50%.

Sanctions and rewards

Thirteen of the MHCs officially offered (multiple) opt-in incentives to encourage participants to participate. Twelve of them offered to stay or withdraw the charges after successful completion of the program, nine offered to reduce the participant's sentences, and two offered to terminate sentences. Three courts informally stated that they typically offered reduced justice outcomes for participating.

Either a probation officer, court support worker, case manager, or a combination of these ensured MHC participants followed their conditions in 12 MHCs. The types of sanctions imposed on participants varied widely. Eight MHCs required participants to attend court more frequently in the case of noncompliance, six removed the participant from the MHC program, four required the participant to sit in the court gallery for a full-day, and two courts forced the participant to engage in community services hours. Finally, seven MHCs used jail as a sanction of last resort.

Recidivism rates

A total of 87 articles met the initial search parameters. Of the 87 articles, we determined 18 articles ultimately met our search criteria in the United States: 14 studies compared recidivism rates between MHC and TAU participants, and four study designs compared recidivism rates for MHC completers and noncompleters. We both analyzed all 87 articles: 100% interrater reliability was achieved. Originally we used the same search parameters for both Canadian and American MHCs; however, we expanded the inclusion criteria given that only one article met the criteria [41]. We included four other articles that employees associated with Canadian MHCs recommended to us [40,42-44], which included three Canadian articles that were not published in academic journals, and one that did not have a comparison group.

American studies

Although most of the American studies matched MHC with TAU participants ($n = 14$), we also reviewed four articles that compared the recidivism rates for participants who completed the MHC program (completers) and participants who either opted out of or were expelled from the program (noncompleters). The MHC-TAU group designs compared the recidivism rates for MHC and TAU participants, whereas the other four studies compared recidivism rates for completers and noncompleters. Nearly all the studies included 12- to 24-month follow-up periods and defined recidivism as a combination of rearrest and booking rates, reconviction rates, time spent in jail, and time spent between arrests. Some of the MHC-TAU-group designs [37,44] differentiated between MHC completers and noncompleters.

Eleven of the 14 MHC-TAU designs reported that MHC participants had lower recidivism rates compared to TAU participants, with most of these studies reporting considerably lower recidivism rates (see Table 2 [45-58]). However, when controlling for MHC completers and noncompleters, all three articles that reported MHCs did not reduce recidivism ultimately did report that MHC completers had the lowest recidivism rates, followed by TAU participants and finally noncompleters.

Every MHC-TAU-group design that differentiated between MHC completers and noncompleters [52] indicated that completers had the lowest recidivism rates, followed by TAU participants, and then noncompleters. This difference was most apparent in a study [56] that reported MHC completers were 3.7 times less likely to reoffend compared to noncompleters. A series of scholars attributed decreased recidivism rates among completers (compared to noncompleters) to be the result of the full treatment or full dosage of MHC [55].

MHC completers had significantly lower recidivism rates (Table 2). For instance, a study [58] indicated that 39.6% of completers were rearrested in the five years following their

Table 2: Summary of American MHC research that analyzes recidivism rates

Study	Findings		
Anestis & Carbonell, 2014 [45] Southeastern United States Quasi-experimental Pre–post comparison*	MHC participants had significantly lower rearrest rates ($\chi^2 = 20.89, p > .001$) and longer periods before reoffending ($t = -4.66, p > .001$) compared to TAU participants in the one-year follow-up.		
Christy et al., 2005 [46] Broward County, Florida Quasi-experimental Pre–post comparison*	No significant difference between MHC and TAU participants (one-year rearrest rate 47 per cent MHC and 56 per cent TAU). These results were not statistically significant ($p < .23$)	MHC	TAU
	Arrest rates one year	47.00	56.54
Cosden et al., 2005 [34] U.S. (location unknown) Experimental Pre–post comparison*	Relatively similar 24-month recidivism rates. These results were not statistically significant in terms of number of bookings ($p < .01$), number of convictions ($p < .05$) and number of jail days ($p < .05$).	MHC	TAU
	Mean number of bookings	5.33	3.89
	Mean number of convictions	1.82	2.04
	Days in jail	22.55	35.71
Frailing, 2010 [47] San Francisco, California Quasi-experimental Pre–post comparison*	Mean number of days in jail pre- and postcourt referral or involvement. The authors did not report if these results were statistically significant	MHC	TAU
	One-year prereferral/court resolution	56.62	56.54
	One-year postcourt involvement	11.99	134.61
Han & Redlich, 2015 [48] San Francisco County and Santa Clara County, California; Hennepin County, Minnesota; and Marion County, Indiana Pre–post comparison*	Mean number of days in jail for six-months pre- and postcourt involvement. These results were statistically significant ($p < .001$).	MHC	TAU
	Six-months preenrolment	1.31	1.85
	Six-months postenrolment	0.45	0.65
Hiday et al. 2016 [49] District of Columbia Quasi-experimental Pre–post comparison*	Rearrest rates for MHC and TAU participants. The results indicated the difference to be statistically significant ($p < .001$)	HMC	TAU
	Two-year rearrest rate	38%	48%
Hiday et al., 2013 [50] District of Columbia Quasi-experimental Pre–post comparison*	Significant reduction in rearrest rates post one year for MHC participants. The results indicated this difference was statistically significant ($p < .001$)	HMC	TAU
	One-year rearrest rate	27.5%	37.7%
Keator et al., 2013 [51] San Francisco County and Santa Clara County, California; Hennepin County, Minneapolis Quasi-experimental Pre–post comparison*	MHC participants and TAU participants had similar rearrest rates in the seven to 18 months post program. The authors did not report statistics between the two groups.		

Table 2: Summary of American MHC research, continued

Study	Findings				
Kubiak et al. 2014 [52] (location unknown) Quasi-experimental Pre–post comparison*	Mean number of days in jail and state prison for MHC completers, MHC noncompleter and TAU participants for a period of one-year postdischarge. The authors found a statistically significant relationship between MHC completers and noncompleters and TAU ($p < .001$) in terms of number of days in jail but not for number of days spent in state prison.		MHC completers	MHC noncomplete	TAU
		Mean number of days in jail	4.73	23.20	49.27
		Mean number of days in state prison	5.38	130.00	48.70
Lowder et al., 2016 [53] St. Paul, Minnesota Quasi-experimental Pre–post comparison*	No significant differences between MHC and TAU in terms of incurred charges one-year postprogram. The results indicated the rearrest rates for MHC participants were statistically significant ($\chi^2 = 13.50, p = .001$)		MHC	TAU	
		Arrested	27.5%	37.3%	
		Any rearrest	8.1%	9.8%	
		Any violent felony rearrest	1.0%	1.9%	
McNeil & Binder, 2007 [28] San Francisco, California Quasi-experimental Pre–post comparison*	Significantly reduced recidivism. The authors reported a longer time for new charge ($p < .0001$) and longer time for a new violent charge ($p < .0001$) for MHC participants.		MHC	TAU	
		24-month charge rate	36%	61%	
		24-month violent charge rate	7%	15%	
McNeil et al., 2015 [54] San Francisco, California Quasi-experimental Pre–post comparison*	Violent offences between MHC and TAU participants six months after program admission. The authors did not report if the results were statistically significant.		MHC	TAU	
		12-month act of violence rate	25%	42%	
Moore & Hiday, 2006 [55] Rural population in Southeastern United States Quasi-experimental Pre–post comparison*	Rearrest rates between MHC and TAU participants 12 months after entry in MHC and Traditional Criminal Court. The results are statistically significant ($p < .001$)		MHC	TAU	
		Average number of re-arrests	1.10	2.36	
Steadman et al. 2011 [33] San Francisco County and Santa Clara County, California; Hennepin County (Minneapolis), Minnesota; and Marion County, Indianapolis Quasi-experimental Pre–post comparison*	The average number of arrests and days spent in custody between MHC and TAU participants. The results indicated the average days spent behind bars was statistically significant ($p \leq .001$) but the rearrest rates were not statistically significant ($p < .006$).		MHC	TAU	
		Rearrest rates post-18 months	49%	58%	
		Average number of days incarcerated pre-18 months	73	75	
		Average number of days incarcerated post-18 months	82	152	

Table 2: Summary of American MHC research, continued

Study	Findings				
Burns et al. 2013 [31] County in Northern, Georgia Pre–post comparison†	Rearrest rates and mean days spent in jail post program exit two years following court exit. The results indicated the rearrest rates ($p < .001$) and mean days spent in jail for MHC participants were statistically significant ($p < .001$).				
			MHC	Voluntary drop-out	Terminated participants
		Two-year rearrest rate	24.6%	76.9%	90.7%
	Mean days in jail postexit	2.8	113.6	202.3	
Herinckx et al. 2005 [56] Clark County, Washington Pre–post comparison‡	Rearrest rates for MHC participants 12 months preenrolment and 12 months postenrolment: The results were statistically significant ($p < .001$).			MHC	
		Rearrest rates one-year preenrolment		1.99	
	Rearrest rates one-year postenrolment		.48		
Hiday & Ray 2010 [57] County in North Carolina Pre–post comparison§	Rearrest rates for MHC completers, those ejected from MHC and those who opted out of MHC over a two-year period. The results between completers and noncompleters were statistically significant ($p < .001$).		MHC	Ejected from MHC	Opt-out
		Rearrested rate preenrolment	28%	81%	63%
Ray, 2014 [58] County in North Carolina Pre–post comparison§	Significantly reduced rearrest rate for MHC completers compared to noncompleters during a 0–9 year follow-up period. In total, noncompleters were almost twice as likely to repeat offend ($p < .001$) during a two-year follow-up period.		MHC	Non	
		Rearrest rate		39.6%	74.5%
	Rearrest rate for a violent felony		31.6%	68.4%	
*Pre-post comparison design between MHC and TAU participants					
†Pre-post comparison design between MHC completers, voluntary opt-outs, and terminated					
‡Pre-post comparison for MHC completers (no comparison group)					
§Pre-post comparison between MHC completers and non-completers					

participation in the MHC, compared to 74.8% for noncompleters. Finally, research [57] reported that 24.6% of MHC graduates reoffended two-years postprogram, compared to 76.9% for opt-outs and 90.7% for expelled participants.

Canadian studies

Out of the five Canadian studies, only two [40,41] used a robust research design. Both used a quasi-experimental pre–post comparison design between MHC and TAU participants (as well as differentiating between MHC completers, nonstarters, and partial completers). Two other [40,41] studies used a pre–post design, and one [42]

compared MHC participants in 2010 with TAU participants from 2005 (see Table 3 [40–44]).

Of the other three studies, one study [44] found that their MHC participants averaged fewer days spent in jail, and had fewer charges and convictions two years after program admission, compared to two-years preprogram admission. MHC participants averaged 6.4 days in custody in the two years before program admission but only 2.8 days in custody post admission. Second, Nguyen [43] compared the recidivism rates for 189 MHC completers and noncompleters between 2011 and 2017 during three intervals:

Table 3 Summary of Canadian MHC research that analyzes recidivism rates

Study	Findings			
Campbell et al., 2015 [40] Dartmouth, Nova Scotia	For MHC participants, neither the on-year rearrest rate ($p < .949$) nor one-year arrest for violent offences ($p < .074$) were statistically significant.			
Quasi-experimental: pre-post comparison design between MHC and TAU participants	One-year rearrest rate	MHC	TAU	
	One-year rearrest for violent offence	30.8%	31.5%	
Campbell et al., 2015 [41] Saint John, New Brunswick	Although completers had the lowest recidivism rate, these results were not statistically significant ($p < .074$).			
Quasi-experimental pre-post comparison design between MHC and TAU participants	40.67-month recidivism rate	MHC	Nonstarter	Noncompleter
		28.6%	32.6%	50.0%
Dias, 2015 [42] Kenora, Ontario	Percentage of MHC and TAU participants who were charged with a crime one-year postprogram admission. The results did not indicate if it is statistically significant.			
Quasi-experimental pre-post comparison design between MHC and TAU participants	Rearrest rate one-year follow-up	MHC	TAU	
		26%	51%	
Nguyen, 2018 [43] Peterborough, Ontario	Rates of MHC completers and noncompleters charged with at least one offence at one- and two-year intervals. The results for MHC completers during a one-year follow-up period ($p < .001$) was statistically significant but not for the second year ($p < .05$)			
Quasi-experimental pre-post noncomparison design for completers and noncompleters	One-year recidivism rate Two-year recidivism rate	MHC	Noncompleter	
		25% 23%	66% 46%	
Watts & Weinrath, 2017 [44] Winnipeg, Manitoba	The number of days spent in jail for MHC participants before and after program admission. The reductions in days spent in custody were statistically significant ($p < .001$).			
Pre-post design only MHC participants	Days in jail per month during a two-year period	PreMHC	PostMHC	
		6.4	2.8	

1. while in the program,
2. during the first-year postprogram, and
3. during the second-year postprogram.

MHC completers had considerably lower recidivism rates. Another study [43] found that completers and those still in the program had similar recidivism rates, and that MHC completers were significantly less likely to reoffend during both the first- and second-year postprogram. Only 25% and 23% of MHC completers reoffended during the first- and second-years post program, respectively, compared to 66% and 46% for non-completers, respectively.

Drawing from the two MHC-TAU-group studies, Campbell et al. [40] compared the recidivism rates 12-months pre-post admission for:

1. completers;
2. still active participants;
3. partial completers who were expelled from the program because of non-compliance;
4. partial completers who voluntarily withdrew from the program; and
5. participants who were referred to the MHC, but who were then referred to regular docket court (TAU).

Campbell et al. [40] reported that recidivism rates between MHC and TAU participants were not significantly different. Completers, partial completers, voluntary withdrawal, and TAU participants all had similar reoffending rates. However, completers had the lowest recidivism rates, and those who were expelled from the program had considerably higher, statistically significant recidivism rates across all categories.

In another report, Campbell et al. [41] compared the recidivism rates for MHC program completers, partial completers who either withdrew from the program or were dismissed, and those who were referred to the MHC program but were ultimately referred to the traditional courts (TAU). That report found completers had the lowest recidivism rates (28.6%), followed by TAU participants (32.6%) and partial completers (50%) [41].

Dias [42] compared the recidivism rates for one year for individuals involved with MHC in 2010 (experimental) and individuals involved with regular court in 2005. That report found 51% of participants in the regular court reoffended, whereas only 26% of MHC participants reoffended.

Discussion

MHCs have proliferated across Canada and the United States in the past two decades. Although there has been a growing literature in the United States, including several meta-analyses, there is a lack of Canadian research analyzing recidivism rates and on the day-to-day operations of MHCs. This study adds to the literature by highlighting the number and locations of Canadian MHCs (see Table 1) and everyday MHC practices. We recommend other scholars and criminal justice practitioners to conduct additional studies on Canadian MHCs. At the qualitative level, the goals and day-to-day operations of MHCs vary widely, particularly in Canada. There is a lack of standardized guidelines for Canadian MHCs. The stated goals of Canadian MHCs were unevenly distributed between diverting those with mental illnesses away from the justice system, improving health outcomes, and reducing recidivism.

Therefore, we recommend standardized criteria for Canadian MHCs to follow.

Canadian and American MHCs are similar. Both use eligibility and screening measures. However, American MHCs use more robust screening measures (e.g., three stages) and typically admit more participants with the big three diagnoses. Moreover, American MHCs typically have several individuals involved in screening measured compared to the typical Canadian practice of having one or two individuals involved. Canadian and American MHCs use similar sanctions and rewards. Canadian and American courts provide a withdrawal, staying, or reduction of charges after participants successfully complete the program. Both courts sanction participants for not following court-mandated conditions.

At the quantitative level, the American literature included considerably more robust research methodologies, with 11 of the studies employing either an experimental or a quasi-experimental pre-post comparison design. Of those 11 studies, MHC completers had the lowest recidivism rates, followed by TAU, and then noncompleters. Only two Canadian studies [40,41] used a quasi-experimental and control group design, with three studies comparing pre-post rates between MHC completers and noncompleters. Both comparison studies reported lower (although not statistically significant) recidivism rates among MHC participants while the non MHC-TAU studies reported that completers had lower recidivism rates than noncompleters.

Conclusion

We recommend scholars work with Canadian MHCs to compare recidivism rates for MHC and TAU participants. Future research should include rigorous multiple-year studies analyzing rearrest rates (and compare the commission of serious crimes between the groups), reconviction rates, and days spent in prison for MHC participants who successfully complete the program, those who were terminated from the program, and those who either chose to or were streamlined into the regular justice stream [57].

MHC research should inform public policy. Most of the research on MHCs indicates participants who successfully completed the program had lower recidivism rates across several measures. At the same time, however, this same research also indicated that those who were expelled from the MHC because of noncompliance also had increased recidivism rates compared to all other participants, including those who were referred to regular docket court. Future research should examine why MHCs reduce recidivism, to discover the predictors for increased recidivism for MHC noncompleters, and to discover risks and protective factors in this population.

Conflict of Interest: none

References

1. Slinger E, Roesch R. Problem-solving courts in Canada: a review and a call for empirically-based evaluation methods. *Int J Law Psychiatry*. 2010;33(4):258-64.
2. Watson A, Hanrahan P, Luchins D, Lurigio A. Mental health courts and the complex issue of mentally ill offenders. *Psychiat Serv*. 2001;52(4):477-81.
3. Wright, ER, Gronfein WP, Owens TJ. Deinstitutionalization, social rejection, and the self-esteem of former mental patients. *J Health Soc Behav*. 2000;68-90.
4. James DJ, Glaze LE. *Mental health problems of prison and jail inmates*. Washington, DC: U.S. Department of Justice. 2006:1-12. ([accessed](#) on May 14, 2020).
5. Office of the Correctional Investigator. *Annual report of the Office of the Correctional Investigator 2011–2012*. Ottawa: OCI. ([accessed](#) on May 14, 2020).
6. Snedker KA. *Therapeutic justice: crime, treatment courts and mental illness*. Springer; 2018.
7. Winick BJ. Therapeutic jurisprudence and problem solving courts. *Fordham Urb LJ*. 2002;30:1055-104.
8. Erickson S, Campbell A, Lamberti J. Variations in mental health courts: Challenges, opportunities, and a call for caution. *Community Ment Health J*. 2006;42(4): 335-44.
9. Kaiser H. Too Good to be true: Second thoughts on the proliferation of mental health courts. *Can J Community Health*. 2010; 29(2):19-25.
10. Sarteschi C, Vaughn M., Kim K. Assessing the effectiveness of mental health courts: A quantitative review. *J Crim Justice*. 2011;39(1):12-20.
11. Sarteschi CM, Vaughn MG. Recent developments in mental health courts: What have we learned? *J Forensic Soc Work*. 2013;3(1):34-55.
12. Honegger LN. Does the evidence support the case for mental health courts? A review of the literature. *Law Hum Behav*. 2015;39(5):478-88.
13. Lowder EM, Rade CB, Desmarais SL. Effectiveness of mental health courts in reducing recidivism: a meta-analysis. *Psychiat Serv*. 2017;69(1):15-22.
14. Canada K, Barrenger S, Ray B. Bridging mental health and criminal justice systems: A systematic review of the impact of mental health courts on individuals and communities. *Psychol Public Policy Law*. 2019;25(2):73.
15. Mauer M. *Americans behind bars: a comparison of international rates of incarceration*. Washington (DC): Sentencing Project; 1991. ([accessed](#) on May 14, 2020).
16. Fulmer JL. A brief report on the direct and indirect cost of prison incarceration in the state of Alabama. *J Correctional Education*. 1995;46(1):16-8.
17. Caulkins JP, Rydell CP, Schwabe WL, Chiesa J. *Mandatory minimum drug sentences: throwing away the key or the taxpayers' money?* Washington (DC):Rand, 1997. ([accessed](#) on May 14, 2020).
18. Wexler DB, Winick BJ. *Essays in therapeutic jurisprudence*. Carolina Academic Press; 1991.
19. Daicoff S. The Role of Therapeutic Jurisprudence within the Comprehensive Law Movement. In: Stolle DP, Wexler BJ, Winick BJ (eds). *Practicing Therapeutic Jurisprudence: Law as a Helping Profession*. Durham: Carolina Academic Press; 2000.
20. Hora PF, Schma WG, Rosenthal JT. Therapeutic jurisprudence and the drug treatment court movement: Revolutionizing the criminal justice system's response to drug abuse and crime in America. *Notre Dame L Rev*. 1998;74:439-537.
21. Council of State Governments, Justice Center. *Mental Health Courts*. 2019. ([accessed](#) on May 14, 2020).
22. Castellano U, Anderson L. Mental health courts in America: Promise and challenges. *Am Behav Sci*. 2013;57(2):163-73.
23. Steadman HJ, Redlich AD. *Final report: An evaluation of the Bureau of Justice Assistance Mental Health Court Initiative*. Washington, DC: National Institute of Justice (NIJ); 2006. ([accessed](#) on May 14, 2020).
24. Thompson M, Osher F, Tomasini-Joshi D. Improving response to people with mental illnesses: the essential elements of a mental health court. *Counsel*

- of State Governments, Criminal Justice/Mental Health Consensus Project; 2007. ([accessed](#) on May 14, 2020).
25. Wolff N, Fabrikant N, Belenko S. Mental health courts and their selection processes: Modeling variation for consistency. *Law Hum Behav.* 2011;35(5):402-12.
 26. Redlich AD, Hoover S, Summers A, Steadman HJ. Enrollment in Mental Health Courts: voluntariness, knowingness, and adjudicative competence. *Law Hum Behav.* 2010;34(2):91-104.
 27. Sarteschi C, Vaughn M, Kim K. Assessing the effectiveness of mental health courts: A quantitative review. *J Crim Justice.* 2011;39(1):12-20.
 28. McNeil D, Binder R. Effectiveness of a mental health court in reducing recidivism and violence. *Am J Psychiatry.* 2007;164(9):1395-403.
 29. Steadman HJ, Redlich AD, Griffin P, Petrila J, Monahan J. From referral to disposition: case processing in seven mental health courts. *Behav Sci Law.* 2005;23(2):215-26.
 30. Luskin, ML. Who is diverted? Case selection for court-monitored mental health treatment. *Law & Policy.* 2002;23(2):217-36.
 31. Burns P, Hiday V, Ray B. Effectiveness 2 years postexit of a recently established mental health court. *Am Behav Sci.* 2013;57(2):189-208.
 32. Trupin E, Richards H. Seattle's mental health courts: Early indicators of effectiveness. *Int J Law Psychiatry.* 2003;26(1):33-53.
 33. Steadman HJ, Redlich A, Callahan L, Robbins PC, Vesselinov R. Effects of mental health courts on arrests and jail days: a multisite study. *Arch Gen Psychiatry.* 2011;68(2):167-72.
 34. Cosden M, Ellens J, Schnell J, Yamini-Diouf Y. Efficacy of a mental health treatment court with assertive community treatment. *Behav Sci Law.* 2005;23(2):199-214.
 35. Snedker KA, Beach LR, Corcoran KE. Beyond the "revolving door?": Incentives and criminal recidivism in a mental health court. *Crim Justice Behav.* 2017;44(9):1141-62.
 36. Redlich AD, Steadman HJ, Robbins PC, Swanson JW. Use of the criminal justice system to leverage mental health treatment: effects on treatment adherence and satisfaction. *J Am Acad Psychiatry Law.* 2006;34(3):292-9.
 37. Callahan L, Steadman HJ, Tillman S, Vesselinov R. A multi-site study of the use of sanctions and incentives in mental health courts. *Law Hum Behav.* 2013;37(1):1-9.
 38. *Mental health courts in Ontario: a review of the initiation and operation of mental health courts across the province.* Ontario: Provincial Human Services and Justice Coordinating Committee and Canadian Mental Health Association, Ontario ([accessed](#) on May 14, 2020).
 39. Cardwell M. Mental Health Courts on the rise in Quebec. *Canadian Lawyer:* 2018. ([accessed](#) on May 14, 2020).
 40. Campbell MA, Adams N, Ennis A, Canales D. *Prospective evaluation of the Nova Scotia Mental Health Court: an examination of short term outcomes.* Saint John (NB): Centre for Criminal Justice Studies: 2015. ([accessed](#) on May 14, 2020).
 41. Campbell MA, Canales DD, Wei R, Totten AE, Macauley WAC, Wershler JL. Multidimensional evaluation of a mental health court: adherence to the risk-need-responsivity model. *Law Hum Behav.* 2015;39(5):489-502.
 42. Dias S. Does participation in mental health court reduce recidivism? A thesis submitted to the University of Manitoba: 2014. ([accessed](#) on May 14, 2020).
 43. Nguyen N. Peterborough community support court: an evaluation of recidivism. Unpublished MA thesis. Trent University: 2018. ([accessed](#) on May 14, 2020).
 44. Watts J, Weinrath M. The Winnipeg mental health court: preliminary findings on program implementation and criminal justice outcomes. *Can J Community Mental Health.* 2017;36(1):67-82.
 45. Anestis JC, Carbonell JL. Stopping the revolving door: effectiveness of mental health court in reducing recidivism by mentally ill offenders. *Psychiat Serv.* 2014;65(9):1105-12.
 46. Christy A, Poythress N, Boothroyd R, Petrilla J. Evaluating the efficiency and community safety goals of the Broward County Mental Health Court. *Behav Sci Law.* 2005;23(2):227-43.
 47. Frailing K. How mental health courts function: outcomes and observations. *Int J Law Psychiatry.* 2010;33(4):207-13.
 48. Han W, Redlich AD. The impact of community treatment on recidivism among mental health court participants. *Psychiat Services.* 2016;67(4):384-90.
 49. Hiday VA, Ray B, Wales HW. Longer-term impacts of mental health courts: recidivism two years after exit. *Psychiat Services.* 2016;67(4):378-83. ([accessed](#) on May 14, 2020).
 50. Hiday VA, Wales HW, Ray B. Effectiveness of a short-term mental health court: criminal recidivism one year postexit. *Law Hum Behav.* 2013;37(6):401-11.

51. Keator K, Callahan L, Steadman H, Vesselinov. The impact of treatment on the public safety outcomes of mental health court participants. *Am Behav Sci*. 2013;57(2):231-43.
52. Kubiak S, Roddy J, Comartin E, Tillander E. Cost analysis of long-term outcomes of an urban mental health court. *Eval Program Plann*. 2015;52:96-106.
53. Lowder EM, Desmarais SL, Baucom DJ. Recidivism following mental health court exit: between and within-group comparisons. *Law Hum Behav*. 2016;40(2):118-27.
54. McNiel DE, Sadeh N, Delucchi KL. Prospective study of violence risk reduction by a mental health court. *Psychiatric Services*. 2015;66(6):598-603.
55. Moore ME, Hiday VA. Mental health court outcomes: a comparison of re-arrest severity between mental health court and traditional court participants. *Law Hum Behav*. 2006;30(6):659-74.
56. Herinckx HA, Swart SC, Ama SM. Rearrest and linkage to mental health services among clients of the Clark County mental health court program. *Psychiat Serv*. 2005;56(7):853-7.
57. Hiday VA, Ray B. Arrests two years after exiting a well-established mental health court. *Psychiat Serv*. 2010;61(5):463-8.
58. Ray B. Long-term recidivism of mental health court defendants. *Int J Law Psychiatry*. 2014;37(5):448-54.

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