Effectiveness of Criminal Justice Liaison and Diversion Services for Offenders With Mental Disorders: A Review

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Objective: The authors reviewed studies of the effectiveness of criminal justice liaison and diversion (CJLD) services in which outcomes of participants in these services were compared with those of offenders with mental illness who received no intervention or a standard intervention. The authors synthesized existing evidence with respect to changes in mental health status or criminal recidivism. *Methods:* A comprehensive search (1980-2012) of more than 30 generic and specialist databases identified 6,571 published and unpublished studies. The studies, which varied considerably in methodological approach and overall quality, were systematically appraised according to Campbell-Cochrane guidelines. Ten studies met inclusion criteria. Key outcomes included a reduction in offending and postintervention changes in mental health. Results: Synthesized findings indicated that CJLD services appeared to be effective in identifying offenders with mental disorders and that participation in CJLD services had a positive impact on criminal justice and mental health outcomes. Conclusions: Although the methodologies of existing studies are only moderately rigorous, the overall findings suggest that CJLD services can be beneficial. Their effectiveness depends on the model of service delivery, the availability of community services, and the engagement of offenders with mental disorders in treatment. The successful implementation of CJLD services requires a clearer recognition of the importance of systems-of-care principles. (Psychiatric Services 64:843–849, 2013; doi: 10.1176/appi.ps.201200144)

here is growing concern regarding the prevalence, nature, and treatment of offenders with mental disorders (1–7), and jurisdictions have responded to this challenge in various ways. Two distinct service models have developed in the United Kingdom, including

liaison services based in police stations and court-based diversion services. The dominant service model employed in the United States is the mental health court (MHC) (8). Despite the widespread implementation of these services, little is known about their overall effectiveness.

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The aim of this review was to identify, evaluate, and synthesize the best available evidence on the effectiveness of criminal justice liaison and diversion (CJLD) services. Liaison services seek to identify offenders with a mental illness and link them to appropriate mental health services in the community. Most employ community psychiatric nurses to complete assessments and provide general guidance to criminal justice system staff. Clients are unlikely to require imprisonment or hospitalization (9). Diversion services vary considerably and may range from a single visit to the court by a community psychiatric nurse to the involvement of full multidisciplinary teams (9). Most diversion services in the United Kingdom are based in magistrates' courts, which act as a filter through which most cases must pass (10-12). Clients who are appropriately referred are likely to require treatment or hospitalization. MHCs follow a model of therapeutic jurisprudence. Key components include a separate court docket for offenders with mental disorders, a judge trained in mental health issues, and a "treatment team" of mental health and legal professionals. MHCs aim to divert offenders with mental disorders to appropriate services, encourage treatment compliance, and reduce recidivism (4,13,14).

This study aimed to evaluate and synthesize the best available evidence on the effectiveness of CJLD

service models with respect to changes in mental health status or criminal recidivism.

Methods

Literature search

A scoping search showed that CJLD services are not clearly defined. Consequently, a broad strategy that involved 93 distinct criminal justice and mental health keywords (for example, jail diversion, diversion program, liaison service, liaison program, crime, criminal behavior, and mental health) was employed to ensure as comprehensive a search as possible. More than 30 generic and specialist databases were searched, including MEDLINE, EMBASE, Science Citation Index, PsycINFO, C2-SPECTR, Applied Social Sciences Index, and Psi-Tri. Keyword searches were completed by using Internet search engines, and key journals and the reference lists of all retrieved papers were hand searched. The search process was completed by May 2012 (full details of the search strategy are available from the first author).

Inclusion criteria

Eligible studies were experimental or quasi-experimental and included one or more intervention groups and at least one comparator group. The comparator groups received either no intervention or a standard intervention. Studies with single-group designs were not eligible for inclusion. Studies were included if participants were assigned randomly to an intervention group or comparator group or matched individually on key variables or if data indicating initial group equivalence were reported. Studies were not included if it was clear that the comparator group contained individuals who did not meet the criteria for inclusion in the intervention group. Only studies that were based on outcome measures, such as recidivism rates, or changes in mental health status, as evidenced by one or more standardized measures (that is, valid measures that were administered in a uniform way) were included. Finally, studies were included for consideration if they were published between 1980 and 2012 and focused on adults who had not yet received a custodial sentence. Studies of prison in-reach services and services provided within prisons or in other locations were excluded (full details of the inclusion and exclusion criteria are available from the first author).

Data extraction and quality assessment

The search process identified 6,571 citations. Titles were examined to identify papers that were related to CJLD services only; studies with clearly irrelevant titles were removed at this stage, leaving 462 papers. The abstracts of all 462 papers were reviewed by using a screening form (15), after which 96 papers remained. The form provided the basis for a systematic assessment of each abstract according to prespecified inclusion and exclusion criteria. Only abstracts and papers that clearly did not meet these criteria were excluded. Abstract screening was completed by one reviewer (DAS), and a randomly selected sample of 10% of the articles (N=46) was also screened by a second reviewer; 100% agreement was achieved.

A total of 20 articles met the inclusion criteria, and each was subjected to a critical appraisal by using a checklist based on published guidelines (15–17). Full-text data extraction was completed by one reviewer (DAS). Data extraction forms were then shared with a second reviewer (MD) who made an independent assessment on the basis of this summary information; again 100% agreement was achieved. This systematic appraisal of selected papers identified biases related to study design and implementation, and only ten studies were subsequently deemed eligible for data extraction and synthesis. A narrative synthesis (rather than a meta-analysis) was undertaken because of the diverse nature of the services, study designs, and outcome measures employed (17). The results are organized and presented according to the three main types of CJLD services that emerged from the systematic search and appraisal.

Results

MHCs with ACT

An evaluation of an MHC that employed assertive community treatment

(ACT) to implement and monitor court-prescribed community services in Santa Barbara County, California, was the only randomized controlled study identified (18,19) (Table 1). Participants had a serious mental illness and had been charged with a felony or misdemeanor and had at least one previous charge. A judge and the MHC treatment team met each study participant after his or her admission to court and agreed on a treatment plan. Participants returned to court either weekly or biweekly to discuss their progress, and the court could impose sanctions (including days in jail) for noncompliance with treatment.

A notable feature of this court was the use of ACT to implement and monitor court-prescribed community services. A further feature—and one not found in other reviewed studieswas the use of dedicated services designed specifically for MHC participants. MHC participants had exclusive access to services, including vocational rehabilitation, priorityaccess housing, and programs designed to assist with substance abuse management, independent living, and symptom improvement. Comparator clients experienced traditional criminal court proceedings, although they also had access to well-configured services, similar to those used by MHC participants, through the county's long-term care team.

In terms of criminal justice system outcomes, both groups experienced a significant reduction in jail days. This finding was statistically significant when participants who had been imprisoned or who were the most frequent offenders during the study follow-up period were excluded from the analysis. The single most important factor associated with imprisonment during the study period was the severity of drug abuse on study entry. In terms of psychosocial outcomes, MHC participation was associated with statistically significant improvements in substance abuse and quality of life and reduced symptomatology. However, comparator clients also experienced similar improvements in global functioning and alcohol use.

 Table 1

 Studies of mental health courts (MHCs) with and without assertive community treatment (ACT)

Study	Outcome measures	Summary of results	Main threats to validity
With ACT Cosden et al., 2003 (18)	32-item Behavioral and Symptom Identification Scale (BASIS-32); Lehman Quality of Life Interview, short form; Addiction Severity Index (ASI); Global Assessment of Functioning (GAF); recidivism	Follow-up at 12 months; improvements on psychological distress scores for both groups; MHC group more independent at follow-up, with greater improvement in alcohol abuse	Authors removed the most frequent and most serious offenders from the analysis; the intervention provided to the intervention and comparator groups was similar; lack of blinding regarding study condition for both judges and case managers may have affected the treatment provided.
Cosden et al., 2005 (19)	BASIS-32; Lehman Quality of Life Interview, short form; ASI; GAF	Follow-up at 24 months; BASIS-32 scores, life satisfaction, and drug scores improved for both groups, with greater improvements for MHC participants; GAF scores improved for both groups; both groups used similar amounts of service hours; MHC participants used more services earlier in the follow-up period.	Same as above
Without ACT Boothroyd et al., 2003 (20)	Self-reported service use; insurance records of service use	More MHC users received services, but the difference was not statistically significant.	Participants were matched according to age, sex, race-ethnicity, and Brief Psychiatric Rating Scale (BPRS) scores only; violent offenders were not accepted by the MHC; lack of statistical power
Boothroyd et al., 2005 (21)	BPRS; self-reported service use; insurance	BPRS scores did not improve for either group regardless of treatment receipt	Same as above
Christy et al., 2005 (22)	records of service use Time in jail for index offense; arrest data 1 year after the court appearance; self-reported violent behavior	MHC participants experienced fewer days in jail during follow-up; both groups had fewer arrests than before study entry and similar time to rearrest; no significant differences were noted in	Same as above
McNiel and Binder, 2007 (24)	Recidivism in the year after arrest	self-reported aggressive acts. At 12 months, MHC participation predicted a longer time to any new charge; at 18 months, MHC "graduates" had a longer time to any new charge.	Groups differed at baseline in severity of mental disorder, racial-ethnic background, homelessness status, and offense history; MHC
Moore and Hiday, 2006 (25)	Recidivism; severity of recidivism	MHC participants were rearrested less often and for less serious crimes; their rate of rearrest was slower.	participants were volunteers Groups differed at baseline on measures of age, race-ethnicity, prior offense severity, and previous days in jail; possible selection bias because judges selected comparator participants; high dropout rate
Steadman et al., 2011 (23)	Recidivism; number of jail days	Fewer rearrests for MHC participants; MHC "graduates" had fewer rearrests than MHC participants whose involvement was terminated; MHC participants spent significantly fewer days incarcerated in 18 months after index arrest.	MHCs were large, and findings may not be transferable to other settings; findings were not replicated for all MHCs; when calculating days in the community, authors were unable to include days absent for noncriminal reasons, such as inpatient stays.

MHCs without ACT

The review identified four studies related to MHCs without ACT (Table 1). These included a single evaluation of the Broward County, Florida, MHC (20-22), a multisite study examining the effectiveness of four large, wellestablished MHCs (23), plus two further studies (24,25). All four evaluations employed a quasi-experimental design, although there were some differences in their execution. Two studies employed a matched design in which the MHC group and comparator group were matched on sociodemographic, criminal, and diagnostic variables (20,24), and the second study also matched groups on symptomatology (21,22). The other two studies employed a nonequivalent comparison group design whereby participants were matched on variables with statistical control for other between-group differences (23,25). Further methodological differences existed in terms of comparator groups, each of which included either jail detainees (24), court attendees from a neighboring county (20-22), participants who had attended court during the previous year (25), or participants who were eligible for the MHC but who were not referred to the service (23). Although all the evaluations examined MHCs, the MHCs varied considerably in terms of size, staffing, procedures, and eligibility criteria.

Significantly more MHC participants than comparator clients received services during the follow-up period (20-23). Comparator clients were charged with new or violent crimes significantly earlier in the follow-up period (24). MHC participants were much less likely than comparator clients to receive new criminal charges and significantly less likely to be rearrested (25), even when time living in the community was taken into consideration (23). In two studies, comparator clients and those who entered the MHC and subsequently dropped out or had their treatment terminated were more likely to experience future arrests (23,25). Only one study noted an overall increase in psychiatric symptoms during follow-up, albeit among both groups (21).

Diversion services

Two studies examined diversion services, both of which employed a nonequivalent control group design (Table 2). One reported outcomes from a national multisite study examining the effectiveness of eight diversion services across the United States (26). The second study examined a court-based diversion service in which the comparator group comprised eligible detainees who attended court when the diversion service was unavailable (27).

The multisite study pooled findings from eight local site evaluations and highlighted major differences in the models of diversion employed in terms of eligibility criteria, the number of service personnel and their professional backgrounds, the location of the court within the criminal justice system, and the treatments provided (26). Few consistent findings for all service models were recorded. When data from the eight study sites were examined collectively, diversion was associated with increased service use; overall, however, neither diverted nor comparator clients had high levels of service use. When data from all study sites were combined, an improvement in mental health status was found, although this finding was noted in a minority of individual sites. With regard to criminal justice system outcomes, diversion was not associated with any significant reduction in recidivism. An analysis of results related to quality of life found considerable variation across the study sites, thereby precluding any definitive conclusions.

Overall, results from the multisite study illustrated that diverted clients were more likely to be female, psychotic, and previously hospitalized and to have a criminal history that included a violent offense (26). Nondiverted participants were more likely to have extensive drug and alcohol treatment histories, a diagnosis of major mood disorder, more previous arrests, and better employment histories. The authors found that overall, individuals could be diverted from the justice system into community care with no increased risk of rearrest. However, several individual sites did not record significant improvements in measures of criminal recidivism, mental health, or substance abuse.

The second diversion study also found that a greater proportion of the diverted clients had a dual diagnosis and had committed more serious offenses (27). Diverted clients charged with more serious crimes also experienced significantly fewer days' imprisonment than comparator clients with similar charges. The authors found that this service model may be an effective way to reduce time in jail for people with serious mental illness, although only detainees charged with more serious crimes appeared to benefit in terms of spending more time in the community.

Diversion into compulsory hospital care

One study examined a diversion service designed to identify offenders with mental disorders and divert them to a hospital, where they were involuntarily admitted (9) (Table 2). This service was available in two London magistrates' courts and was designed to facilitate the identification and assessment of people with mental illness who appear at court and, when necessary, ensure their rapid referral to services. Detainees suspected of having a mental illness were interviewed by a psychiatrist, social worker, and nurse. A report was then provided to all parties relevant to the case, and, when appropriate, detainees were compulsorily admitted to psychiatric inpatient care.

This evaluation used a quasiexperimental matched-pairs design. Court participants were matched to another patient who had been compulsorily admitted from the community to the same hospital. Patients who were admitted through the court diversion scheme were compared with those admitted by community referral on a range of routinely recorded indicators. On admission, both groups were similar in terms of variables such as gender, racial-ethnic status, and the likelihood of having experienced a psychiatric admission during the previous year. However, those admitted through the court were younger and were more likely to be abusing alcohol or drugs.

Both groups had a similar pattern of diagnoses and behavior when in

Table 2Studies of diversion services

Study	Outcome measures	Summary of results	Main threats to validity
Broner et al., 2004 (26)	Colorado Symptom Index; 12-item Short Form Health Survey; Michigan Alcohol Screening Test; Drug Abuse Screening Test; Dartmouth drug and alcohol calendar; Lehman Quality of Life Interview; recidivism	Diversion was associated with increased drug use, reduced psychiatric symptoms, and increased service use; it was not associated with reduced recidivism.	Measures of service use varied across study sites; groups and models of service provision varied across sites.
Hoff et al., 1999 (27)	Days in jail and days in hospital in year after arrest	Diversion was associated with fewer days in jail for participants with serious mental illnesses only; female participants spent a longer time than males in jail or in the hospital.	Significant differences between groups at baseline
James et al., 2002 (9)	Change in mental state; engagement with follow-up services; subsequent readmission and reconviction	±	Many differences between groups at baseline; small samples; researchers not blinded to study condition

the hospital. Individuals admitted through court and those admitted by community referral had hospital stays of similar duration, and the length of time to readmission during the two-year follow-up period was also similar. For both groups, the most significant predictors of readmission were a diagnosis of psychosis, an inpatient psychiatric admission in the previous two years, and use of illicit drugs, rather than further criminal behavior.

Discussion

The findings from this review suggest that CJLD services provide an opportunity to identify offenders with mental disorders and to connect them to appropriate services. A key principle underpinning diversion is that when criminal behavior suggests the presence of mental illness, offenders should receive treatment rather than punishment. In addition, the principle of equivalence posits that standards for services for offenders with mental disorders, such as CJLD services, should be equivalent to standards for services provided in the community to patients with a mental disorder who do not come into contact with the criminal justice system (28,29).

However, provision of services that are capable of meeting the mental health needs of offenders within the justice system (1–3) is a difficult task

(30). Offenders with mental disorders could receive preferential access to already scarce community services, or current funding could be diverted from community programs to provide specialized services for this client group. However, no evidence suggests that this pattern of service utilization currently exists. Our review examined all reported CJLD evaluations that used an experimental or quasi-experimental design and that were based on a standardized outcome indicator, such as recidivism, or a change in mental health status. Although a relatively small number of studies met these criteria, the observed pattern of results provides cautious support for the CJLD model. However, the strength of the available evidence is insufficient to fully endorse the diversion of offenders with mental disorders from the criminal justice system into the care of health and social services. This uncertainty is attributable to a number of factors, including the generally weak nature of the research designs, variation in CJLD models, and the availability, quality, and appropriateness of community services available to CJLD participants.

Quality of studies reviewed

Only one of the ten reviewed studies involved the random allocation of

participants to study groups (18,19). This study examined a well-configured and well-resourced MHC that utilized an ACT model to ensure that participants complied with treatment recommendations. As noted above, both MHC participants and comparator clients showed improvements in levels of recidivism and in psychosocial functioning. However, these improvements were observed only among offenders who were not imprisoned or who were least likely to reoffend during the study period. The removal from the analysis of offenders with these characteristics suggests that the MHC option may not be equally effective for all offenders with mental disorders. Few overall differences were found between the two study groups, and this may be partly due to the observed similarities between the interventions provided to MHC participants and comparator clients. In addition, some anecdotal evidence suggests that the lack of blinding to study condition may have affected the behavior of participants, case managers, and court officials. In short, it is possible that the comparator option in this study was contaminated to some extent and was not, therefore, an accurate reflection of routinely provided services.

The remaining studies employed quasi-experimental methods. They

attempted to show initial group equivalence on a number of key variables or to statistically control for observed differences. However, because of the complexity of the various CJLD services, study groups may have differed on a wide variety of unobserved variables. For example, most studies reviewed here examined group equivalence in terms of sociodemographic or mental health variables. No study examined other potentially predictive variables, such as motivation to participate in treatment or past criminal behavior. A further limitation of the studies included in this review was related to the relatively small number of participants in most evaluations and the resulting lack of statistical power.

Service variability

CJLD services are by their nature nonstandardized, and their efficacy is likely to depend on a range of factors related to both the internal structure of the service (for example, selection of participants, funding, and staff) and external factors, such as care system variables (for example, the availability of effective community services). CJLD services appear to be successful in terms of identifying offenders with mental disorders and linking them to available services. The studies reviewed also examined services in terms of changes in mental health status or recidivism. Arguably, such changes may be more likely to be associated with the availability and efficacy of support services in the community than with the CJLD service itself. The latter may represent a gateway into services but may be successful only if appropriate and effective communitybased services are available.

Implications for research and practice

The studies included in this review represent the highest quality research evidence available. A key advantage of synthesizing the available literature lies in its ability to clarify the limited extent of our knowledge and provide a basis for planning future high-quality research. An important finding to emerge from this review is the marked lack of good research evidence and the wide variety of CJLD service models. This finding partly

results from the fact that during the initial development of CJLD services, no national policy framework existed to guide their direction and development (1,12). As a result, services were configured to reflect local needs and according to the availability of services at a given time and place (1,2). Under such circumstances, the ability of services to consistently meet the complex needs of offenders with mental disorders is questionable.

Any service framework should be informed by the rigorous testing of CILD services in a range of locations (1,23). Further studies should ensure adequate sample sizes and incorporate a common set of outcome measures that will facilitate service evaluation and improvement (31). Available evidence suggests that CJLD services should include robust mental health screening and open referral mechanisms. Furthermore, to respond to the often complex needs of offenders with mental disorders, an effective service probably needs to have a multidisciplinary team with the capacity to access a range of services related to housing, addiction, vocational rehabilitation, and social services, in addition to formal mental health care. Also, further studies are required to examine which type of patients can benefit most from these service models and what mechanisms contribute to positive outcomes (23). Evidence suggests that identifying offenders with mental disorders and simply informing them about available services is an ineffective way to encourage engagement with services. A more effective intervention to promote treatment compliance is likely to involve formal agreement on a structured treatment program by offenders with mental disorders, their relatives or significant others, and service providers. Further research is required to examine how to improve treatment engagement and the effectiveness of sanctions for noncompliance with treatment programs.

Conclusions

Overall, the evidence presented here suggests that CJLD services can be an effective mechanism to identify offenders with mental disorders within the criminal justice system and successfully link them to health and social

services. Evidence also indicates that these services can help to reduce recidivism and improve mental health outcomes. However, findings should be interpreted with caution because of the quality of the evidence, the range of existing CJLD models, and the differences in participant groups. These inadequacies can be addressed only through further high-quality, systematic research, preferably across a number of services and jurisdictions and incorporating a range of standardized measures and outcomes. More important, although evidence appears to support the concept of liaison and diversion, it should be recognized that the development, formation, and implementation of a CJLD service must take place according to system-of-care principles and in recognition of a spectrum of needs and related care responses.

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