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Relationship Between Parental Acceptance and Rejection, Documented Health Status, and Life Time Experiences of Violence Among Incarcerated Women

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Abstract

The purpose of this descriptive correlational study was to describe parental acceptance and rejection of incarcerated women and to determine whether a relationship exists between parental acceptance and rejection, life time experience of abuse, and documented health status. Intake records of 100 incarcerated women sentenced to community corrections and enrolled in a residential alchohol and drug treatment program from June 2012 to June 2013 were used to examine relationship between the study variables. The retrospective record audit of women incarcerated in a community correctional facility provided data for correlational evaluation. The study concluded that parental acceptance and rejection appear to be associated with life time experience of violence and current health status. Findings provide support for life skill programs for incarcerated women transitioning back to the community.

Introduction

Approximately seven out of every ten offenders serve all or part of their sentence in the community and each time a released inmate is kept from re-offending an innocent person is kept from becoming a victim [1]. Community corrections is a subfield of corrections that emphasizes rehabiltiation. Facilities support residential and nonresidential options. Offenders may be placed in community corrections as part of their sentence and fulfillment of their time. Community correctional agencies supervise over five million individuals per year, which is the largest single sector of the correctional population [2]. The community corrections system is comprised of a number of diverse programs developed to provide alternatives to incarceration and facilitate re-entry into the community or following a term in prison [3]. A temporary period of highly structured and supportive living is provided to facilitate inmates to function independently upon release. Professionals monitor the progress and conduct of offenders during their sentence and assist offenders to reintegrate successfully back into society upon release.

Women are the fastest-growing segment of the prison population and the female prisoner population has more than doubled since 1990[4]. There are over 200,000 women incarcerated in United States prisons, representing 8.8 percent of the total American prison population [5]. When also accounting for women on probation and parole, there are over one million women under the supervision of the criminal justice system [6]. Women's involvement in the criminal justice system often has negative impacts on the well-being of children. Approximately 7 in 10 women in the US correctional system have minor children [7] and the majority of these incarcerated mothers were the primary caretakers of their children before arrest [8]. Women leave prison with few tangible skills and face considerable obstacles once they re-enter the community. Women are more likely to recidivate when support services are lacking and quality of the relationship of the women with those who support them is crucial to their psychological adjustment and success [9].

There has been substantial attention given to women's experience of various types of abuse, such as intimate partner violence and child sexual abuse. Most of the research focuses on women in the community as opposed to incarcerated women, yet there is a growing

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body of literature documenting incarcerated women's extensive personal histories of violence and abuse [10-12]. Many incarcerated women have experienced some type of physical or sexual abuse at some point in their lives [13-15]. Fifty-seven percent of female prisoners report physical abuse before admission to state prison and 39% report that they were sexually abused before admission [16]. More than one-third of imprisoned women report abuse by an intimate in the past and nearly one-quarter report prior abuse by a family member [17]. This overexposure to violence has widespread implications for both the mental and physical health of incarcerated women.

A history of physical abuse is associated with poor physical and mental health for female inmates [18-21]. Nearly three-quarters (73%) of women in state prisons have symptoms of a current mental health problem [22]. Fifty-nine percent of women in prison have chronic and/or communicable medical problems[23]. Psychological violence is very difficult to define and has been understudied in this population perhaps due to problems in definition. As applied to children, psychological abuse includes acts that have an adverse effect on the psychological and emotional health and development of a child and includes the lack of an emotional and supportive environment [24].

Theoretical Framework

Parental acceptance-rejection theory (PART), is a theory of socialization that attempts to explain and predict major antecedents, correlates, and consequences of parental acceptance and rejection. [25]. Parental acceptance refers to the physical and verbal warmth, affection and love parents give to their children. Parental rejection is defined as the absence or significant withdrawal of warmth,

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affection or love by parents toward children and takes three major forms: 1) hostility and aggression, 2) indifference and neglect, and 3) undifferentiated rejection (the feeling of being unloved, unwanted or rejected without having any positive indicators present). A conceptual model for the theory predicts a link between parental rejection and the development of a set of personality characteristics with consideration to variables of the natural environment, maintenance systems and parental behavior [26].

Social and cultural expectations of norms of family interactions may provide depth to understanding of the influence of psychological violence. Perceptions of parental acceptance and rejection have not been assessed in incarcerated women and the relationship to violence and health of incarcerated women may provide depth in understanding to facilitate future program planning. Familial influence (acceptance and rejection) and use of famialiar methods of interaction and coping with intimate partners may have an influence on life change required for successful community reintegration after prison.

Background

Parental rejection is not a specific set of actions by parents but a belief held by an individual and can be studied as percieved or subjectively experienced by the individual [27,28]. Adults who perceive themselves to be rejected appear to be disposed toward behavior problems and conduct disorders, to be depressed or have depressed affect, and to become involved in drug and alchohol abuse [29]. Parental acceptance and rejection is postulated to have unparalleled influence in shaping personality over time. An adult's sense of emotional security and wellbeing tends to be dependent on the perceived quality of relationships with attachment figures; thus acceptance or rejection by an intimate partner is also postulated to have influence on an adult's personality and psychological adjustment. The study of parental acceptancerejection has a history going back to the 1890's, and since the 1930's a more continuous body of empirical research can be documented with currently over 1,700 studies available on the topic[30]. There has been very little empirical research examining parental acceptance and rejection among correctional populations. Elkon[31] conducted a retrospective study examining developmental correlates of antisocial behavior among 105 incarcerated women. Specifically, the study examined the nature of recalled parental rejection and control, recalled adolescent misconduct, and adult antisocial behavior. There were significant relationships between recalled caregiver rejection/ control and recalled adolescent misconduct as well as adult antisocial behavior. Joo [32] conducted a study examining the relationship between past experiences of child abuse and current parenting practices among 199 incarcerated women at a maximum-security state prison. The results indicated there were moderate correlations between past experiences of abuse and current parenting practices. The incarcerated women's perceptions of poor relationships with their own mothers or perceptions of having been neglected was associated with emotional abuse practices towards their own children, above and beyond past abuse experiences.

Esquivel [33] examined the psychological adjustment and parental relations (including perception of acceptance and/or rejection) of adolescent sex offenders and their non-offending siblings. A total of 60 adolescent sex offenders residing in two different residential facilities participated in the study along with 34 siblings. The findings demonstrated that adolescent sex offenders were significantly more likely to experience greater maternal rejection than their siblings, but not significantly greater paternal rejection. In addition, greater

perceived rejection by parents was correlated with greater psychological maladjustment. Finally, Rafail and Haque [34]) conducted a study in Pakistan with 100 male juvenile criminal and non-criminal adolescents. The results of the study found that juvenile delinquency was positively associated with the total perceived acceptance-rejection scores. The criminal adolescents perceived both parents to be significantly more aggressive, neglecting, and rejecting compared to the non-criminal adolescents.

With the development of community correctional programs to provide education and training to facilitate life change and reduce recidivism there is increased interest in factors that impact adult behavior, behavior as a parent and intervening developmental experiences (violence) that may influence recidivism. Early childhood experiences and perceptions of adversity and maltreatment influence pyschological and physiological responses [35-37]. Sustained experiences not buffered by supportive relationships or in the absence of protective relationships create prolonged activation of the stress response and result in long term behavioral (depression, dysfunctional coping activities) and health consequences (elevated blood pressure,glucose, cortisol, inflammation). The link between the biology of adversity and health is the interest of this study and the study provides information that can influence the design of life skills programs related to strengthening relationships that promote health.

The emotional need for postive response from significant others and attachment figures is a powerful motivator, and children or adults who do not get this need satisfied adequately are predisposed to respond emotionally and behaviorly in specific ways, which have been identified as defensive independence and associated personality outcomes such as hostility and aggression [38]. The impact of incarceration on families has been conceptualized as a form of family crises, loss and demoralization and victimization of children [39,40]. Each year in the United States over 3.4 million children are reported to protective services for child maltreatment, and violence has been described as a national epidemic [41]. It is possible that many more children may be rejected, abused, neglected and maltreated than are actually reported. Emotional maltreatment or rejection may not leave visible marks but can be more damaging and lead to serious injury or impairment such as attempted suicide or drug overdose. There is robust evidence of the relationship between child abuse and adult violence and these factors in lives of incarcerated women increase probability of continued violence after release [42]. Life experiences of women that may influence incarceration and/or have potential for causing decreased success after release or recidivism was the specific interest of this investigation.

Purpose

The purpose of this study was to describe parental acceptance/rejection (PAR) of incarcerated women and to determine if a relationship exits between PAR, life time experience of violence, and documented health status. This study of incarcerated women posed three research questions: 1) What is the frequency of PAR among incarerated women?, 2) What is the relationship of PAR to history of physical/sexual abuse? and, 3) What is the relationship of PAR to documented health status?

Methods

The setting for this investigation was a community correctional facility with a women's unit transitioning inmates coming out of the Department Corrections and back to society prior to release.

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All women were enrolled in a residential alcohol and drug treatment program. A retrospective chart audit of inmate records provided a database for a descriptive correlational study of parental acceptance and rejection, history of child/adult physical and sexual abuse, and documented health status of incarcreated women. Upon admission to the community correctional facility the individual signs an informed consent for evaluation and treatment. The inmate participates in three types of assessments and evaluations. Initially the inmate is assigned to a case manager for a Standardized Offender Assessment (SOA) which includes measures of alcohol and drug abuse problems, a profile for criminogenic needs and an initial brief medical assessment [43]. Based on this initial screening treatment and referrals are planned and the individual is then recommended for at least one of the intensive inpatient treatment programs. Inmates are then asked to complete an Adult Information Form as part of Level One testing. The Adult Information Form includes demographic data, personal and social history, educational experience, work history, legal/criminal status, medical status and history, drug and alcohol history and behavioral assessment, Parental Acceptance/Rejection Questionnaire and the Sexual & Physical Abuse History Questionnaire. Inmates are provided the opportunity to refuse participation in any class activities or assessments. All assessments are documented in the individual client chart. Refusal to participate in an assessment and rationale is also noted in the record.

Instruments

Standard Offender Assessment (SOA)Tool: The Standard Offender Assessment Tool is used for initial intake, immediate treatment and referral needs [44]. The tool asks the inmate to list their medical conditions. Number of medical conditions listed was used as a variable for analysis and to determine health status.

 $\textbf{Adult Information Form:} The \, Adult \, Information \, Form \, asks \, the \, in mate$ to provide personal data which includes age, ethnicity, maritial status, educational expeience, personal and social history, violence and abuse history, work history, legal/criminal history, medical history, health status, drug and alcohol history and behavioral assessment. Data from this intake was used to describe the aggregate sample population and identify specific variables of the study for investigation; health status and life time experience of violence. For the purposes of this study, health status data was retrieved from responses to two questions related to identification of medical problems interfering with life and identification and use of current prescription medications. Inmates responded to two specific questions: Do you have medical problems interfering with your life? (Yes or No) and, Are you currently using perscription medications? (Yes or No). Sexual and physical abuse history was used to define life time experience of violence. Inmates respond to three questions: Sexual Abuse as a child and as an adult (Yes or No) and physical abuse as a child (Yes or No).

Parental Acceptance and Rejection Questionnaire: The Parental Acceptance-Rejection Questionnaire (PARQ) is a self-report instrument designed to measure individuals' perceptions of parental acceptance-rejection [45]. Parental acceptance-rejection is a bipolar dimension, with acceptance defining one end of the continuum and parental rejection defining the other. Parental rejection is expressed in any combination of four forms: coldness/lack of affection, hostility/aggression, indifference/neglect, and in undifferentiated rejection. Undifferentiated rejection refers to conditions where individuals perceive their parent to be rejecting, but where the expression of rejection is not clearly unaffectionate, aggressive or neglecting. The

Adult PARQ assesses perception of their mother's or father's treatment of them when they were about seven through twelve years old. The PARQ Short Form was used for the assessment of perceptions of mother and father treatment. The Short Form consists of 24 questions that ask for a Likert type response indicating "almost always true", "sometimes true", "rarely true", "almost never true". Scores over 60 indicate rejection. PARSCORE IV, a Windows-based software program, was used for scoring the self-report questionnaires. The program automatically does all required scoring and reverse scoring; computing scores for scales with missing data, computing totals scale scores, and computing total test scores. A data file was created for export to Statistical Package for Social Sciences (SPSS) Version 21 [46]. Cronbach's coefficient aplha has been used to measure the internal consistency of the items on the Adult PARQ mother and father versions. The PARQ reliability coefficients for the mother and father versions range from .86 to .95 with a median reliability of .91 [47,48,49].

Procedures and Sample

The study was conducted following full review and approval from the Institutional Review Board of the University of Colorado at Colorado Springs. Inmates sign a consent for evaluation and treatment, a consent for participation in research and a consent for follow-up contact after discharge from the facility. The population for the study was women incarcerated in communty corrections facility who were enrolled in a residential drug and alcohol treatment program transitioning back into the community post prision or jail sentence. All women were sentenced for non-violent crimes of forgery, burglury and/or driving under the influence.

The investigators first screened individual charts to determine if consent for Particicipation in Research had been signed to protect individual human rights. Records in which no consent for participation in research existed were elminated from the study. Nine records were eliminated due to no signed consent and sixteen records were eliminated due to lack of the individual participating in the assessments. The final population sample was seventy-five women participating in transistion programs between June 2012 and June 2013

An audit was conducted of the records of incarcerated women enrolled in an residential alcohol and drug treatment program. A audit tool was developed and used to facilitate data collection. A retrospective chart audit of the Adult Information Form, the Medical History and Health Status, the Sexual and Physical Abuse History and the Parental Acceptance and Rejection Questionnaire was completed. Each record was assigned a number in order to deindentify health information during documentation of the chart audit data. No names or identity data that could identify an individual was used on the record audit tool used for data collection. Only the Principal Investigator and Project Director had access to the record for purposes of this audit. Record audit information (participant number and assessment scores) were transposed onto an excel spreadsheet by the investigators for the purposes of data analysis.

Analyses were performed using the Statistical Package for Social Sciences Version 21 [50]. Descriptive analyses were conducted to describe the demographics. A series of Pearson product moment correlation tests was used to measure the degree of associations among the variables: parental rejection, violence, and documented health status. Information derived from the analyses was used to address the research questions.

Results

Characteristics of the sample

Table 1 shows the demographic characteristics of the study participants. Descriptive analyses were conducted to describe the demographics of the 75 women whose records were audited in the community corrections program. The sample included 1.3% who were 19 years old or younger, 28% were 20-29 years old, 41.3 % were 30-39 years old, 22.7 % were 40-49 years old and 6.7% were 50-59 years old. The majority of the sample (61%) were Caucasian, 25% were Hispanic and 4% African American. Asian and Native American individuals each represented 1% of the sample. Six percent identified "other" or "combination" as their ethnicity. Thirty five percent had completed high school or GED (N=26) and 28% had less than a high school

Characteristic	n	%
Age at time of survey (years)		
≤ 19	1	1.3
20-29	21	28
30-39	31	41.3
40-49	17	22.7
50-59	5	6.7
Ethnicity		
Caucasian	46	61.3
Hispanic	19	25.3
African American	3	4
Asian	1	1.3
Native American	1	1.3
Other	2	2.7
Combination	3	4
Education		
High School or GED	26	34.7
Less than High School	21	28
High School +Business Classes	7	9.3
1-4 years of College without graduation	14	18.7
College graduation	2	2.7
Missing data	2	2.7
Parental Status		
Yes	51	68
No	20	27.7
Missing Data	4	5.3

Table 1: Demographic Characteristics of Participants (N = 75).

education (N=21). Nine percent reported completion of high school with some business classess (N=7). Nineteen percent (N=14) reported between one and four years of college without graduation and three percent reported college graduation (N=2). Missing data accounted for four percent (N=3). Sixty eight percent (N=51) identified themselves as being a parent.

Results for research question 1

Sixty-one percent (N=46) described perceptions of paternal

acceptance and seventy-three percent (N=55) described perceptions of maternal acceptance. Therefore, twenty-four percent (N=18) described paternal rejection and twenty-five percent (N=19) described maternal rejection. Missing data accounted for fifteen percent of paternal acceptance/rejection responses (N=11) and one percent of maternal acceptance/rejection responses (N=1).

Results for research question 2

Forty-one percent (N=31) reported sexual abuse as a child and forty-two percent (N=32) reported physical abuse as a child. As shown in Table 2, correlation data indicate ndicate the maternal PARQ score (ie., acceptance/rejection) was positively associated with physical abuse r(60)=.282, p<.05. This indicates that as the maternal PARQ score increased, the reported physical abuse increased. An even greater positive relationship was found between the paternal PARQ score and physical abuse, r(51)=.409, p<.01 at the .05 level of significance and a significant relationship (.409) of father acceptance/rejection with physical abuse at the .01 level of significance. A significant positive relationship (.303) between paternal perceived rejection and sexual abuse was demonstrated at the .05 level of significance. A positive relationship was found between the paternal PARQ score and sexual abuse r(56)=.303, p<.05, however the relationship between maternal PARQ score and sexual abuse was not statistically significant.

Measure	1	2	3
1. Father's acceptance and rejection			
2. Mother's acceptance and rejection	.249*		
3. Physical Abuse	.409**	.282*	
4. Sexual Abuse	.303*	.237	.529**

Table 2: Intercorrelations for Parental Acceptance or Rejection and Abuse.

Results for research question 3

On intake the inmate was asked to complete a medical status report which asked the question: Do you have a medical problem? The inmate was asked to respond with "yes" or "no". This initial screen provided information that was used by correctional staff for referral to health care resources. Approximately 35% (N=26) reported they had a medical problem on intake. In additon, on the social history the inmate was asked if they had a chronic medical condition interfering with their life. Intake personnel asked the question: Do you have a personal health history of any of the following conditions or diseases? Fourteen conditions were listed and the inmate was asked to check all that applied. The inmate also could check "none of the above" or "don't know, not sure".

Eighty-four percent (N=63) reported at least one chronic health problem. Approximately 57 % (N=43) indicated they had one medical problem, 12 % (N=9) identified two medical problems, and 14.6% (N=11) identified three or more chronic health problems. Sixteen percent (N=12) identified "none" even though they were enrolled in a alcohol/drug treatment program. Medical intake also requested informaton regarding their use of prescription medications by asking the question: Are you currently taking prescription medications? Approximately, 45% (N=34) responded that they were taking medications for their medical problems.

Table 3 shows the results of correlational analysis of Parental Acceptance/Rejection (i.e. PARQ), with identification of medical

^{*}Correlation is significant at the 0.05 level (2-tailed)

^{**}Correlation is significant at the 0.01 level (2 tailed)

problems and chronic medical problems affecting life. There was a significant positive relationship between the identification of medical problems and chronic medical problems interfering in life, r(63)=, p<.05. There was also a positive relationship between the mother's PARQ score and the identification of medical problems, r(62)=.303, p<.05. This means that as the maternal PARQ score increased, reports of medical problems increased. A significant relationship between the paternal PARQ scores and identification of medical problems not found. Similarly, a significant relationship between both the maternal and paternal PARQ scores and identification of specific chronic medical problems that interfere with life was not found. Table 3 also depicts the correlations between the three items of chronic medical problems interfering with life, medical problems and current use of prescription medications. There was a significant positive relationship between chronic medical problems interfering in life and currently taking prescription medication r(67)=.324, p<.01. This means that as the number of reported chronic medical problems increased, there was also increased reports of taking prescription medication.

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Measure	1	2	3	4
1. Father's acceptance and rejection				
2. Mother's acceptance and rejection	.249*			
3. Medical Problems	062	.303*		
4. Chronic Medical Problems Interfering with Life	068	.053	.269*	
5. Current use of Prescriptions	.314*	.017	.035	.324**

Table 3: Intercorrelations for Parental Acceptance or Rejection and Medical Problems.

- *Correlation is significant at the 0.05 level (2-tailed).
- **Correlation is significant at the 0.01 level (2 tailed).

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Table 3 shows the results of correlational analysis of Parental Acceptance/Rejection with identification of medical problems and chronic medical problems affecting life. There was a significant relationship (.269) between the identification of medical problems and chronic medical problems interfering in life at the .05 level of significance. There was also a significant relationship (.303) between

the mother's acceptance and rejection and the identification of medical problems at the .05 level of significance. Table 3 also depicts the correlations between the three items of chronic medical problems interfering with life, medical problems and current use of prescription medications. There was a positive relationsip between chronic medical problems interfering in life and currently taking prescription medication (.324) at the .01 level of significance.

Discussion

This study provides valuable insight for future program development related to life skills, stress, coping, parental role behaviors, violence prevention strategies and related identification of need for health care for incarcerated women who plan to return to the community with their children. The outcomes of this study described a population of women offenders who predominately described maternal acceptance (73%) and paternal acceptance (61%) while reporting phyical abuse (42%) and sexual abuse as a child (41%). This data suggests the social acceptance of violence in family situations as a norm. Social, cultural and famialial interaction norms related to violence may have influence and impact on individual offender coping and recidivism. Increased content in life skills programming for women offenders related to the topic of violence (prevention, early types of violence, the cycle of violence and skill development to facilate behavior change may be warranted for prevention of violence after release. There was a significant relationship of physical abuse (.409 @ .01 level of significance) and sexual abuse (.303 @.05 level of significance) with paternal parental rejection. This strong correlation indicates the need for further investigation with male offenders, life skill parenting classes for men and suggests need for fatherhood training with male offenders. Programs that introduce and provide simulation for acceptable parenting behaviors may positively influence individual coping skills and community domestic violence incidence rates. This data suggests the need for caring for children of incarcerated parents and of those caring for the children of incarcerated parents. Early intervention programs related to acceptance and rejection behavior may have postive impact on family situations that may result in incarceration.

Only 35% of the sample initially reported they had a medical problem on intake and 16% indicated no medical problem on the medical history assessment, although all individuals were enrolled in an alcohol and drug treatment intervention program. The lack of understanding of alcoholism and drug use as a medical problem which influences health and behavior may influence intervention outcomes. Attention to the relationship between behavior and health through increased health education and wellness interventions may influence positive community transitions and postive health. Preventive health care in community corrections is indicated for community transitioning and prevention of recidivism. In addition, the significant relationship (.269) between the two questions regarding medical health; one on the initial intake and again on the Adult Information Form provides evidence of the reliability of the reported health information.

The significant relationship (.303) between the mother's acceptance and rejection and the identification of medical problems may indicate the important role of the mother in health awareness and the influence of family lifestyle norms (e.g. nutrition, exercise) that impact health. In addition, the correlation between chronic medical conditions and use of perscription medication (.324) may support the warmth dimension as a foundation for positive health behavior.

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Implications for Further Research

The correctional system routinely collects data and uses the information to develop individual treatment plans. Use of existing data to better understand the research variable in this sample of incarcerated women has provided useful information for program planning. The analysis of existing data showed interesting results and further study to determine other relationships between other recorded data might also prove beneficial to document funding needs for program planning. Replication of this study with male offenders may facilitate further depth of understanding of lifestyle perceptions that facilitate or hinder successful reentry after incarceration. Comparison of male and female offenders perceptions of parental acceptance and rejection may warrant specific aggregate programming needs.

Competing Interests

The authors have no competing interests with the work presented in this manuscript.

Author Contributions

Barbara Joyce: Principle investigator and manuscript. Kerry Peterson: Research team member and manuscript. Valerie Sievers: Research team member and manuscript. Vicki Brownrigg: Research team member and data analysis. Vanessa Hoener: Research team member and data collection.

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