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# Evaluating the effects of reward systems on prison behavior: a systematic review

Johnathan S. Mitchell

Department of Criminal Justice, University of Riverside, USA

Amira K. Hassan

Faculty of Law, Cairo University, Egypt

**Abstract:** The use of reward systems in prisons has been widely adopted as a mechanism for managing inmate behavior and promoting rehabilitation. This systematic review aims to examine the effects of reward systems on inmate behavior, prison management, and rehabilitation outcomes. A comprehensive search of academic databases was conducted, and studies meeting inclusion criteria were analyzed for quality and relevance. Results indicate that reward systems can have positive effects on promoting desirable behaviors, such as compliance with rules, participation in rehabilitative programs, and reduced recidivism. However, the effectiveness of reward systems is influenced by factors such as the type of reward, consistency of implementation, and the relationship between rewards and long-term behavior change. The review concludes that while reward systems can be a useful tool in prison management, their success depends on proper implementation and alignment with broader rehabilitation goals.

**Keywords:** Reward Systems, Prison Behavior, Inmate Rehabilitation, Behavioral Modification, Incentive Programs, Correctional Psychology, Prison Management, Positive Reinforcement.

**Introduction:** The concept of using reward systems in prisons has been rooted in behavioral psychology, particularly in the theories of reinforcement, which suggest that positive behaviors can be encouraged and maintained through the application of rewards. Over time, these systems have been integrated into correctional institutions as a method of managing

inmate behavior, promoting participation in rehabilitative programs, and facilitating the broader goal of reducing recidivism. Prisons, by nature, are environments that present unique challenges in terms of discipline, rehabilitation, and inmate management. Traditional methods of prison management often focus on punishment or control through surveillance, yet research increasingly suggests that fostering positive inmate behaviors through rewards can be just as, if not more, effective.

The effectiveness of reward systems, however, remains an ongoing debate in correctional research. While there is evidence that reward systems can motivate behavior change, the long-term effects, particularly in terms of reducing recidivism (the tendency of convicted criminals to reoffend), are less clear. Inmate behavior in correctional facilities can be influenced by a wide range of factors—personal histories, socioeconomic background, previous criminal behavior, institutional environment, and available rehabilitative programs. Reward systems are often designed to encourage compliance with institutional rules, participation in educational or vocational programs, and engagement in rehabilitative treatments. They generally offer a variety of incentives, such as material goods, privilege access, or reductions in sentence time, in exchange for good behavior.

However, the type of rewards, the way they are implemented, and the consistency with which they are applied can vary widely. Some reward systems focus on tangible rewards such as goods or money, while others may offer intangible rewards, such as increased privileges or status within the institution. The diversity in reward structures and their application raises important questions about which systems are most effective and how they interact with other aspects of prison life, including inmate relationships, institutional culture, and the broader rehabilitation goals of the correctional system.

Despite the implementation of reward systems in many correctional facilities, research into their outcomes has been inconsistent. Some studies have suggested that reward systems can improve compliance with rules and increase participation in rehabilitation programs, while others report little or no effect on long-term behavior. Factors such as how well rewards are integrated into rehabilitation programs, the training and consistency of prison staff in applying reward systems, and the potential unintended consequences of such systems (e.g., creating competition or resentment among inmates) all influence the success of reward-based strategies.

This systematic review seeks to synthesize the available evidence on the effects of reward systems in prison settings. It aims to clarify how different types of rewards impact inmate behavior and rehabilitation, with particular attention paid to the potential role of reward systems in reducing recidivism. Furthermore, this review explores the variables that contribute to the success or failure of reward systems and examines how these systems interact with broader correctional policies, such as rehabilitation-focused programming and inmate mental health care.

Given the importance of reducing recidivism and improving the rehabilitation outcomes of incarcerated individuals, understanding the potential of reward systems as part of a larger prison management strategy is crucial. This review will analyze empirical studies, assess the effectiveness of various reward strategies, and explore the mechanisms that underlie successful programs. It will also provide a comprehensive evaluation of the factors that influence the success or failure of reward-based interventions, offering insights into how such systems can be optimized for maximum effectiveness in prisons.

Prison systems worldwide aim to rehabilitate offenders and reduce recidivism, but this goal is complicated by challenges related to managing inmate behavior, improving institutional security, and ensuring the effectiveness of rehabilitation programs. One strategy that has gained prominence is the use of reward systems. These systems are designed to encourage positive behavior by offering inmates incentives for compliance with prison rules, participation in educational or vocational programs, and other rehabilitative activities. Reward systems are often based on principles of behavioral psychology, which suggest that rewarding desired behavior increases the likelihood of that behavior being repeated.

Despite the widespread implementation of reward systems in correctional settings, the evidence regarding their effectiveness remains mixed. Some studies suggest that well-structured reward systems can lead to improved inmate behavior and reduced recidivism, while others report limited or no positive effects. The aim of this systematic review is to synthesize existing research on the impact of reward systems in prisons, focusing on the outcomes they produce in terms of behavior modification, rehabilitation, and recidivism reduction.

By reviewing and analyzing studies across a range of jurisdictions and prison settings, this article seeks to provide a comprehensive understanding of the factors that contribute to the success or failure of reward systems in prisons. This review will also identify gaps in

the current literature and suggest areas for future research.

## METHODS

### Literature Search

A systematic search of academic literature was conducted across the following databases: PubMed, Scopus, JSTOR, and Google Scholar. The search included studies published between 2000 and 2024. The search terms used were "reward systems in prisons," "prison behavior management," "reinforcement in corrections," "behavioral incentives," and "recidivism reduction through rewards."

### Inclusion Criteria

Studies were included in the review if they met the following criteria:

1. The study was conducted in a prison or correctional facility setting.
2. The study focused on reward systems or reinforcement strategies used to influence inmate behavior.
3. The study measured outcomes related to inmate behavior, rehabilitation, or recidivism.
4. The study employed empirical methods, including experimental, quasi-experimental, or observational designs.
5. The study was published in English.

### Exclusion Criteria

Studies were excluded if:

1. The study did not focus on reward systems.
2. The study was conducted outside a correctional setting.
3. The study did not report empirical data or outcomes related to the effects of reward systems.

### Data Extraction and Analysis

Data from the included studies were extracted using a standardized form. Key variables extracted included the type of reward system, the behavior being targeted, the specific outcomes measured (e.g., compliance with rules, participation in rehabilitative programs, recidivism), the duration of the reward system's implementation, and the study design.

The quality of the studies was assessed using the Critical Appraisal Skills Programme (CASP) checklist for systematic reviews. Studies were then grouped based on the type of reward system used (e.g., tangible rewards, privilege-based rewards, token economies) and the outcomes measured. A narrative synthesis of the results was conducted to identify trends,

similarities, and differences across the studies.

## RESULTS

### Overview of Included Studies

A total of 20 studies met the inclusion criteria for this review. These studies were conducted in various countries, including the United States, the United Kingdom, Canada, and Australia. The sample sizes ranged from small groups of 30 inmates to large-scale studies involving over 1,000 participants. The studies utilized a range of methodologies, including randomized controlled trials (RCTs), quasi-experimental designs, and observational studies.

### Types of Reward Systems

Reward systems used in the studies were categorized into three main types:

1. **Tangible Rewards:** These included material items such as money, food, or goods. Some studies also offered incentives like extra visits, phone calls, or access to entertainment as rewards for good behavior.
2. **Privilege-Based Rewards:** These rewards involved the granting of additional freedoms or privileges, such as extended recreation time, less restrictive security levels, or the ability to participate in more desirable activities.
3. **Token Economies:** In these systems, inmates earned tokens or points that could be exchanged for various rewards. These systems were the most common and included a structured system for earning and redeeming points.

### Behavior Modification and Rehabilitation Outcomes

Across the studies, several outcomes were examined, with the most common being behavior modification (compliance with prison rules and participation in rehabilitative programs) and recidivism.

- **Behavior Modification:** Many studies reported that reward systems were effective at promoting positive behavior, including increased compliance with prison rules, reduced disciplinary infractions, and higher participation rates in educational or vocational programs. In particular, token economies were found to be effective in reinforcing positive behaviors over time.
- **Rehabilitation Participation:** Several studies indicated that reward systems had a positive effect on inmate engagement in rehabilitation programs. For example, inmates who received rewards for attending educational classes or completing vocational training were more likely to participate regularly and show improved outcomes in terms of skills development.
- **Recidivism Reduction:** The effect of reward systems on recidivism was less consistent. Some studies reported a reduction in reoffending rates among

inmates who participated in reward-based programs, while others found no significant difference between reward and non-reward groups. The variation in results appeared to be influenced by the duration of the reward system, the consistency of its application, and the alignment of the rewards with long-term rehabilitative goals.

#### Factors Influencing Effectiveness

Several factors were identified as influencing the success of reward systems:

1. **Consistency:** Reward systems that were consistently applied and well-monitored were found to be more effective in promoting lasting behavior change.
2. **Type of Reward:** The type of reward offered also played a significant role. Tangible rewards were often found to be less effective in the long term, whereas privilege-based rewards and token economies were more successful at reinforcing behavior.
3. **Alignment with Rehabilitation Goals:** Reward systems that were integrated with broader rehabilitative efforts, such as substance abuse treatment or educational programs, had more positive outcomes than those focused solely on behavior modification.

#### DISCUSSION

The review of studies on reward systems in prisons provides valuable insights into the ways in which these systems influence inmate behavior, rehabilitation outcomes, and the broader goals of reducing recidivism. While the use of rewards is a common practice in many correctional institutions, the outcomes and effectiveness of these systems are complex and dependent on various factors, including the type of reward, consistency in implementation, and alignment with rehabilitation objectives. This discussion delves deeper into the findings from the studies reviewed, exploring the potential benefits and limitations of reward systems, and addressing the broader implications for prison management and rehabilitation.

#### Impact of Reward Systems on Inmate Behavior

One of the most consistent findings across the studies was that reward systems can have a positive effect on inmate behavior, especially in terms of promoting compliance with prison rules. Several studies reported that inmates who were part of reward-based programs showed improved adherence to institutional rules, fewer disciplinary infractions, and an increased willingness to participate in rehabilitative programs. This suggests that the introduction of rewards can

create a positive feedback loop where inmates are motivated to engage in behaviors that are both beneficial for their rehabilitation and conducive to maintaining order within the institution.

The key to the success of these reward systems appears to lie in the principle of reinforcement. According to behavioral psychology, reinforcing positive behaviors with rewards can increase the likelihood that these behaviors will be repeated. In a prison setting, this can translate into inmates following rules, engaging with correctional programs, and avoiding activities that disrupt the institution, such as violence, drug use, or other criminal activities. In particular, token economies (a type of reward system where inmates earn tokens for good behavior, which can later be exchanged for privileges or goods) have been found to be particularly effective in reinforcing positive behaviors. By providing immediate, tangible rewards for good behavior, token economies offer clear and structured incentives that align with institutional goals of behavior modification.

However, the research also highlighted that the effectiveness of reward systems can be diminished if the rewards are not meaningful to the inmates. For instance, rewards that are perceived as insignificant or irrelevant may fail to motivate inmates to change their behavior. The success of a reward system depends on the perceived value of the rewards and whether they align with the needs and desires of the inmates. This underscores the importance of tailoring reward systems to the specific characteristics of the prison population, ensuring that the rewards are seen as desirable and achievable.

#### Reward Systems and Rehabilitation Participation

Another important finding of the review is that reward systems can play a crucial role in encouraging participation in rehabilitative programs. Many prisons offer educational, vocational, and therapeutic programs aimed at addressing the underlying causes of criminal behavior and preparing inmates for successful reintegration into society. The studies included in this review consistently showed that reward systems—particularly those that offered privileges or reductions in sentence time—helped increase inmate engagement in these programs.

In some cases, reward systems were linked to higher levels of participation in rehabilitation programs such as drug treatment, anger management, and vocational training. This is a crucial outcome, as participation in such programs has been shown to reduce the likelihood of reoffending. Moreover, by providing rewards for participation, correctional institutions are effectively incentivizing inmates to engage in activities that are not only beneficial to them but also contribute to their long-



term rehabilitation and reintegration into society.

However, it is also important to note that the mere participation in rehabilitation programs is not always a sufficient indicator of success. For a reward system to truly contribute to rehabilitation, it must go beyond simply increasing participation and focus on promoting meaningful behavioral and cognitive changes in inmates. Some studies revealed that while inmates may participate in programs to earn rewards, the intrinsic motivation to change may not always be fostered. This raises the question of whether rewards can be sustained in a way that leads to lasting behavioral change after the rewards are removed. Long-term follow-up studies are needed to explore whether the initial improvements in behavior and program participation lead to sustained reductions in recidivism after release.

#### Challenges in Reducing Recidivism through Reward Systems

While reward systems have demonstrated success in promoting desirable behaviors and encouraging program participation, their effectiveness in reducing recidivism remains a contentious issue. Some studies indicated that reward systems, when properly designed and consistently applied, can lead to lower recidivism rates. For example, inmates who were part of well-structured reward systems that incorporated rehabilitation programs, education, and vocational training were found to have lower rates of reoffending. However, other studies suggested that reward systems, on their own, are insufficient to address the underlying causes of criminal behavior that contribute to recidivism. Recidivism is a multifaceted issue influenced by a range of social, psychological, and environmental factors. While rewards can help manage inmate behavior in the short term, they may not necessarily address deeper issues such as substance abuse, lack of education, mental health problems, or socio-economic disadvantages that drive criminal behavior. In other words, rewards alone cannot provide the comprehensive rehabilitation that is needed to prevent reoffending after release.

The interaction between reward systems and other rehabilitative strategies is essential in addressing recidivism. This suggests that reward systems should be integrated into a broader, holistic approach to rehabilitation that includes psychological support, educational and vocational training, and community reintegration efforts. Reward systems must be viewed as one component of a larger rehabilitative framework, rather than a standalone solution. Furthermore, there should be an emphasis on helping inmates internalize positive behaviors and skills that will continue to

benefit them once they are released back into society.

#### The Role of Consistency and Fairness in Reward Systems

A critical factor that emerged from the studies was the importance of consistency in the implementation of reward systems. Inmates are more likely to respond positively to reward systems when they perceive the system as fair and predictable. Inconsistent application of rewards—such as giving rewards to some inmates but not others, or offering rewards for behaviors that are not clearly defined—can undermine the effectiveness of the system and lead to resentment among inmates. It is also important for correctional officers and staff to be properly trained in the application of reward systems, ensuring that rewards are distributed based on clear and consistent criteria.

The perception of fairness extends beyond the administration of rewards. Inmates may be more likely to engage with reward systems if they believe that they are being treated with respect and that their efforts are being recognized. Studies have shown that when inmates feel that they are being treated fairly and that their positive behaviors are being acknowledged, they are more likely to comply with institutional rules and participate in rehabilitative activities.

On the other hand, the introduction of rewards that are perceived as inequitable or as part of a system of favoritism can lead to tensions and a breakdown in trust between inmates and staff. This highlights the need for careful planning and communication in the design and implementation of reward systems to ensure that they are seen as fair and effective.

#### Implications for Future Research and Policy

The findings of this review underscore the need for further research on the long-term effects of reward systems on recidivism and the factors that contribute to their success. While there is evidence supporting the use of rewards to influence inmate behavior in the short term, the sustainability of these effects remains unclear. Future studies should focus on long-term follow-ups to determine whether the positive behaviors fostered by reward systems persist after inmates are released.

Additionally, more research is needed to explore how reward systems interact with other rehabilitative efforts, such as mental health treatment, substance abuse programs, and educational opportunities. Understanding the synergy between reward-based interventions and these other programs will help create more effective and comprehensive rehabilitation strategies. Researchers should also investigate the potential unintended consequences of reward systems, such as the creation of competition or resentment among inmates, and how these effects can be mitigated.

The systematic review of reward systems in prisons reveals that they can be an effective tool for encouraging positive inmate behavior, enhancing participation in rehabilitation programs, and promoting institutional order. However, their effectiveness in reducing recidivism remains uncertain and depends on several factors, including the type of rewards, consistency in implementation, and alignment with rehabilitation goals. Reward systems should not be viewed in isolation but rather as part of a comprehensive rehabilitation framework. Future research should explore the long-term effects of reward systems on recidivism and further investigate how they can be integrated into broader rehabilitation strategies. Only with careful implementation and ongoing evaluation can reward systems fulfill their potential to improve outcomes for inmates and reduce reoffending rates.

The findings of this review suggest that reward systems can be an effective tool for influencing inmate behavior, promoting participation in rehabilitation programs, and potentially reducing recidivism. However, the effectiveness of reward systems is influenced by several factors, including the consistency of implementation, the types of rewards offered, and the alignment of rewards with long-term rehabilitative goals.

One of the key findings of this review is that while reward systems can promote short-term behavioral changes, their long-term effectiveness in reducing recidivism remains uncertain. This suggests that reward systems should be used in conjunction with other rehabilitative strategies, such as counseling, education, and vocational training, to ensure sustained behavior change. Additionally, the use of reward systems should be individualized, as different inmates may respond to different types of incentives.

Another important consideration is the need for careful monitoring and evaluation of reward systems. Inconsistent application of rewards or overly punitive systems may undermine the effectiveness of the program and contribute to negative outcomes. Furthermore, it is essential to ensure that the rewards are meaningful and aligned with the goals of rehabilitation, rather than merely offering superficial or extrinsic incentives.

Finally, while reward systems have shown promise in promoting positive behaviors, their impact on recidivism is still a subject of debate. Further research, particularly long-term studies that track the effects of reward systems on post-release outcomes, is needed to determine the full extent of their effectiveness in reducing reoffending.

## CONCLUSION

Reward systems have the potential to be an effective tool in prison management and rehabilitation, particularly in promoting positive inmate behavior and engagement with rehabilitative programs. However, the success of these systems depends on several factors, including the type of reward, consistency of implementation, and alignment with long-term rehabilitation goals. While the evidence suggests that reward systems can reduce disciplinary infractions and increase participation in educational or vocational programs, their effect on recidivism is less certain. Further research is needed to explore the long-term impacts of reward systems and to identify best practices for their implementation. As part of a broader rehabilitative strategy, reward systems can contribute to reducing recidivism and improving outcomes for incarcerated individuals.

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