







# Electronic tagging for sex offences

Tracking a sex offender's location using an electronic tag around their ankle or wrist.

First published

19 December 2019

Effect scale	Quality of evidence				
	Effect Impact on crime	Mechanism How it works	Moderator Where it works	Implementation How to do it	Economic cost What it costs
 Overall reduction	 Very strong	 Very strong	 Very strong	 Very strong	 Very strong

## Focus of the intervention

Electronic monitoring (EM) of offenders involves placing a tag around the ankle or wrist of an offender, which – in combination with a receiving device – can verify their whereabouts at specified times.

This allows the monitoring and enforcement of curfews between specific times or in specific locations, meaning the offender can be released into the community rather than serving time in a correctional institution.

EM devices:

- use either radio-frequency (RF) identification or global positioning system (GPS) tracking
- can send real-time or lagged information
- can be applied at any time in the criminal justice system – from pre-trial to post-prison release – including as an alternative sentence to prison or parole without EM

EM has been used on a variety of offenders and suspects, including those who are high risk, those who are suspected or convicted sex offenders, and suspected or convicted perpetrators of domestic violence.

This narrative is based on subgroup analysis conducted as part of a systematic review. The review covered 33 studies and examined the effectiveness of electronic monitoring of offenders. Twelve studies were identified that examined the effectiveness of EM specifically on sex offenders, three of which contained sufficient information to carry out a meta-analysis and were included in the subgroup analysis.

All three of the studies included in the meta-analysis were conducted in the USA.

## **Effect – how effective is it?**

Overall, the evidence suggests that the intervention has reduced reoffending.

The meta-analysis showed that electronic monitoring of sex offenders led to a statistically significant decrease in reoffending compared to control groups who did not have EM.

## **How strong is the evidence?**

The review was sufficiently systematic that most forms of bias that could influence the study conclusions can be ruled out. It had an effective search strategy and found literature published through commercial and non-commercial routes.

The studies were assessed by multiple authors to ensure accuracy of information retrieval and studies with different outcomes were analysed separately.

Issues including dependency and the possible effect of outliers were controlled for within the analysis, increasing the confidence in the findings.

## **Mechanism – how does it work?**

The studies within the review identified a number of situational and behavioural mechanisms by which EM may decrease crime, but there was not enough information in the original studies to test these mechanisms statistically.

The situational mechanisms identified included increasing the risk of being caught reoffending due to an increase in monitoring of the participant wearing the EM device. This allows the authorities to be alerted if the individual is either not at a specified location when they are expected to be (such as at home overnight), or if they have entered an exclusion zone (such as a playground if the offender is a sex offender). By keeping a record of the participant's location at certain times of the day, they are monitored more regularly than home visits by parole or probation officers.

EM may also increase the effort required to reoffend, if they wish to do so undetected, as they may have to remove the device if they are not to be tracked and discovered. EM may remove the excuses for reoffending, by setting out strict and enforceable conditions of participants' time on the EM programme, and by the device being a constant present reminder to the participant of those conditions.

Finally, EM may reduce the influences to reoffend by reducing the participants' opportunities to spend time with certain individuals or enter certain areas.

The behavioural mechanisms identified included increasing the amount of family contact for participants on EM, since they are often allowed to remain at home rather than being forcibly separated from their family by imprisonment.

EM also usually allows or even requires participants to be employed, giving them a sense of responsibility and an income, which may help deter them from criminal activity.

EM can be used to increase access to therapy by enforcing these visits as part of the programme for participants, which may help those who would benefit from such activities.

EM programmes can also include a focus on abstinence from drugs or alcohol through random or routine testing, which can again lead to better behaviour and reduce motivations for committing crime.

Finally, EM can lead to participants having no (or less) exposure to the prison environment. This is known to expose individuals to peers and influences that may negatively impact on their behaviour while removing the positive aspects of their home environment, such as family contact and the possibility of employment.

## **Moderators – in which contexts does it work best?**

Sex offenders were identified as a moderator within the wider systematic review on the effectiveness of EM.

A number of other potential moderators were also identified within the wider review. However these were not specifically examined within the sub-analysis of studies that had sex offenders as their sample.

## **Implementation – what can be said about implementing this initiative?**

The review identified an array of factors that affected the implementation of EM programmes.

These included technological issues – such as equipment malfunction, loss of signal or power, battery failure, lack of communication between various databases and inadequate broadband capacity – which were identified as being blockers to successful implementation.

The review also mentioned staffing issues, including the fact that staff involved in running an EM programme included personnel from a variety of agencies such as prison, probation, the police, monitoring companies and criminal justice agencies. Communication between staff at these agencies was identified as being pivotal in the implementation and success of EM.

Programme administration was also considered important. Proper care and attention at the planning and design stage was identified as being essential for the success of any EM programme, with objectives, guidelines and expectations needing to be developed in advance of implementation.

Information, communication and consent issues related to briefings provided to offenders and family members – as well as information exchange between monitoring companies and offender managers – were all identified by the review as being important for proper implementation.

Finally, prompt response to a breach of the conditions of the EM programme was important to ensure that offenders kept to their curfew times if they did not wish to return to prison. The review

identified that the effect was largely dependent on the agency or agencies responsible for overseeing and managing compliance and responding to breaches.

The review concludes that the successful implementation of an EM programme requires good communication between the various agencies responsible for implementation, as well as clear programme design, administrative responsibilities and communication strategies laid out from the outset. There must also be the technological capability to set up and run the programme as required.

## **Economic considerations – how much might it cost?**

While there was not enough information to conduct a cost-benefit analysis, the review identified a lot of information regarding the costs of various EM programmes and the potential savings that they may make when compared to imprisonment.

The cost of the EM programme varies depending upon the type of technology employed, with RF systems costing less than GPS systems, and passive technology being less expensive than active technology, which reports in real time. Both types of technology are cheaper than imprisonment, however. Nevertheless, EM is more expensive than traditional parole or probation, which does not include this type of monitoring.

A number of costs must be taken into account when assessing the price of an EM programme, including equipment that the participant wears (the tag itself) and the receiver box located in their home, the charging equipment and the transmitter they carry with them.

There are also costs associated with the staff required for the programme (including training and holiday time), the equipment and property rental for the monitoring centre, and the potential costs to the police force if they are expected to respond to a breach in the conditions of the EM programme by the participant.

However, some programmes in the USA can require the participant to contribute towards the costs of the programme, often using a sliding scale relative to the income level of that participant. This is not currently a component of programmes in Europe, however.

## **General considerations**

The evidence on the effectiveness of EM for sex offenders is based on a sub-group meta-analysis of three studies included in a wider systematic review of electronic tagging. The overall systematic review covered 33 studies and found some evidence that electronic monitoring has increased or decreased reoffending overall.

## Summary

There is evidence that electronic monitoring for sex offenders decreases reoffending when compared with those who are not monitored electronically.

EM may increase the risk of being caught and the effort required to offend, but also allows the participant to spend more time with family, in employment, and less (or no) time in prison exposed to influences that may contribute to criminal behaviours.

EM programmes must ensure:

- clear programme design and responsibilities
- good communication among all those involved
- availability of the correct technological capabilities

Finally, although some technologies are more expensive than others, EM is always a cheaper alternative to prison, although it is more expensive than traditional parole or probation without this kind of monitoring.

## Reviews

### Review one

#### Reference

- Belur, J., Thornton, A., Tompson, L., Manning, M., Sidebottom, A. and Bowers, K. (2017) [A Systematic Review of the Effectiveness of the Electronic Monitoring of Offenders](#), What Works Centre for Crime Reduction, University College London

## Summary prepared by

This narrative was prepared by UCL Jill Dando Institute and was co-funded by the College of Policing and the Economic and Social Research Council (ESRC). ESRC grant title: 'University Consortium for Evidence-Based Crime Reduction'. Grant reference: ES/L007223/1.

[Return to the toolkit](#)

## Tags

- [Crime reduction](#)
- [Violence against women and girls](#)