

ESRC SDAI Application - Understanding domestic abuse using Big Data

1 Objectives

List the main objectives of the proposed research [up to 4000 chars]

Who are the people most vulnerable to becoming victims of domestic abuse? To what extent do neighbourhood characteristics predict the prevalence of domestic abuse? What predicts serious harm and victims' decision to finally report the abuse? What is the quantifiable, long-term impact of domestic abuse victimisation, or witnessing domestic abuse as a child on socio-economic outcomes in later life? How do changes in alcohol consumption and financial stability affect the prevalence of domestic abuse?

We have 3 core objectives.

1) To conduct the first large-scale, quantitative exploration of the individual- and neighbourhood-level risk factors of domestic abuse victimisation in England and Wales. Rigorous validation of insights from existing, mostly quantitative investigations using an UK-wide dataset, providing a deeper understanding of the environments perpetuating domestic abuse. While we will only use UK data, these findings will likely to be relevant for researchers outside the UK.

2) To improve our understanding of the costs of domestic abuse, by investigating the causal effect of victimisation on a variety of socio-economic outcomes. Current cost estimates by the government do not take into account how educational attainment, income and employment status of victims are affected by victimisation and witnessing abuse as a child (Oliver, Alexander, Roe, & Wlasny, 2019).

3) To translate our research into impact by delivering applicable insights for the relevant agencies, including the police and policy-makers. Our results will provide the police with important information to help the optimal geographical and temporal allocation of resources and improving recording practices. These insights will also help the government to design more effective intervention campaigns.

4) To utilise the rich information contained in the CSEW to explore the predictors and consequences of domestic abuse victimisation. In spite of the detailed information contained in the CSEW about respondents, we are not aware of any non-exploratory study using the CSEW to explore the predictors and consequences of domestic abuse victimisation in England and Wales.

2 Summary

Describe the proposed research in simple terms in a way that could be publicised to a general audience [up to 4000 chars]

Concern about domestic abuse is widespread, and it is rightly identified as a serious societal issue affecting the lives of people from all walks of life. However, the true extent of the problem is still often underestimated, and hard to comprehend: 2 million adults in England and Wales (7.9% of women and 4.2% of men) reported to have experienced some form of domestic abuse in the year ending 2018 March (Office for National Statistics, 2018), and 41% of all women murdered in England and Wales in the same period were victims of domestic homicide. But the long-lasting, damaging effects of domestic abuse are not limited to the direct target of abuse, it also has serious developmental implications for children witnessing the abuse. Illustrating the extent of the societal harm caused by domestic abuse, the economic cost of domestic abuse in England and Wales between April, 2016 and March, 2017 was estimated to be £66 billion, reflecting the cost of missed work days, health costs, and the reduced quality of life for survivors (Oliver et al., 2019).

Despite the extent and severity of the problem, there is relatively little academic research focusing on domestic abuse in the context of the UK, perhaps due to the lack of reliable data sources. Using police data to understand domestic abuse is problematic due to the vast levels of underreporting, while insights from qualitative approaches are hard to generalise. In the UK, the most reliable source of data on domestic abuse is the Crime Survey for England and Wales (CSEW), an annual, cross-sectional representative survey collecting information on socio-economic characteristics as well as experiences of domestic abuse (Office for National Statistics, 2019). While the Office for National Statistics (ONS) regularly publishes findings from the CSEW, these are mostly exploratory and descriptive in nature. In spite of the rich information provided by this survey, only a limited number of studies have utilised the CSEW (e.g., Khalifeh, Hargreaves, Howard, & Birdthistle, 2013) to explore the predictors of domestic abuse victimisation in England and Wales.

Our project aims to fill this gap in our current understanding of domestic abuse by taking advantage of the wealth of information contained in the CSEW, and drawing on other data sources to complement the findings. Using a wide range of statistical models (e.g., regression, random forest, propensity score matching), we will identify the individual and neighbourhood-level predictors of domestic abuse victimisation, and the factors affecting victims' willingness to contact the police. We will also explore whether police mis-recording of domestic abuse-related crimes (Her Majesty's Inspectorate of Constabulary and Fire & Rescue Services, 2019) disproportionately affects certain victim groups. Furthermore, we will quantify the short- and long-term causal effects of witnessing domestic abuse on behavioural outcomes in young adulthood (with particular focus on the propensity to engage in violent criminal behaviours) and socio-economic and health-related outcomes in later life. Finally, we will explore how alcohol consumption, spending on gambling, and changes in benefit receipts affect the prevalence of domestic abuse.

Our work will primarily have implications for the police and policy-makers. For example, insights about the predictors of serious harm can inform the police protocol aiming to prevent domestic homicides, while understanding the extent to which crime mis-recording depends on victim characteristics will help the police understanding the causes of mis-recording and improve their practices. Policy-makers will be able to design more effective awareness campaigns using information on the geographical and temporal characteristics of domestic abuse victimisation, reporting behaviour, the extent to which gambling and alcohol spending affects it, and better understand its far-reaching societal implications, with particular focus on the effect of domestic abuse victimisation on propensity to violence in young adulthood and socio-economic outcomes in later life.

3 Academic Beneficiaries

Academic Beneficiaries

Describe who will benefit from the research [up to 4000 chars].

Our results will benefit psychologists exploring the risk factors of domestic abuse victimisation by validating previous findings from qualitative investigations.

Understanding what affects reporting behaviour - behavioural scientists?

economists - establishing the causal effect of domestic abuse victimisation/witnessing domestic abuse on well-being and other socio-economic outcomes health outcomes - consequences

4 Staff Duties

Summarise the roles and responsibilities of each post for which funding is sought [up to 2000 characters]

5 Impact Summary

(please refer to the help for guidance on what to consider when completing this section) [up to 4000 chars]

1) characteristics of victims and understanding predictors of serious harm - police can use insights to prevent serious harm, characteristics of victims - expand on previous qualitative research (academics) and help policy-makers better target campaigns

- 2) reporting behaviour and police mis-recording - police can improve recording practices, understanding reporting behaviour can benefit behavioural scientists who work for the government
- 3) consequences - helps the government and academics by advancing our knowledge on the consequences of domestic abuse victimisation by improving the methodology of

6 Ethical Information

Please explain what, if any, ethical issues you believe are relevant to the proposed research project, and which ethical approvals have been obtained, or will be sought if the project is funded? If you believe that an ethics review is not necessary, please explain your view (available: 4000 characters)

7 Attachments

Instructions for attachments

- * Case for support (6 page limit, 11 points, A4, 1" margins)
- * References
- * Pathways to Impact (2 sides of A4)
- * Justification of Resources (2 sides of A4)
- * Letter of support from WMP
- * Data management plan (modify from lab plan)
- * Accumulating to choose progress report
- * NIBS2 progress report

References

- Her Majesty's Inspectorate of Constabulary and Fires & Rescue Services. (2019). *Reports - Rolling programme of crime data integrity inspections*. Retrieved from <https://www.justiceinspectorates.gov.uk/hmicfrs/publications/west-midlands-crime-data-integrity-re-inspection-2018/>
- Khalifeh, H., Hargreaves, J., Howard, L. M., & Birdthistle, I. (2013). Intimate partner violence and socioeconomic deprivation in England: Findings from a national cross-sectional survey. *American Journal of Public Health, 103*(3), 462–472.
- Office for National Statistics. (2018). *Domestic abuse in England and Wales: year ending March 2018*. Retrieved from <https://www.ons.gov.uk/peoplepopulationandcommunity/crimeandjustice/bulletins/domesticabuseinenglandandwales/yearendingmarch2018/pdf>
- Office for National Statistics. (2019). *User guide to crime statistics for England and Wales*. Retrieved from <https://www.ons.gov.uk/peoplepopulationandcommunity/crimeandjustice/methodologies/userguidetocrimestatisticsforenglandandwales/pdf>
- Oliver, R., Alexander, B., Roe, S., & Wlasny, M. (2019). *The economic and social costs of domestic abuse*. Retrieved from <https://www.gov.uk/government/publications/the-economic-and-social-costs-of-domestic-abuse>