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The global prevalence of intimate partner homicide: a systematic review

Heidi Stöckl, Karen Devries, Alexandra Rotstein, Naemah Abrahams, Jacquelyn Campbell, Charlotte Watts, Claudia Garcia Moreno

Summary

Background Homicide is an important cause of premature mortality globally, but evidence for the magnitude of homicides by intimate partners is scarce and hampered by the large amount of missing information about the victim–offender relationship. The objective of the study was to estimate global and regional prevalence of intimate partner homicide.

Methods A systematic search of five databases (Medline, Global Health, Embase, Social Policy, and Web of Science) yielded 2167 abstracts, and resulted in the inclusion of 118 full-text articles with 1122 estimates of the prevalence of intimate partner homicide after double-blind screening. All studies were included that reported the number or proportion of women or men who were murdered by an intimate partner in a country, province, or town, using an inclusive definition of an intimate partner. Additionally, a survey of official sources of 169 countries provided a further 53 estimates. We selected one estimate per country-year using a quality assessment decision algorithm. The median prevalence of intimate partner homicide was calculated by country and region overall, and for women and men separately.

Findings Data were obtained for 66 countries. Overall 13.5% (IQR 9.2–18.2) of homicides were committed by an intimate partner, and this proportion was six times higher for female homicides than for male homicides (38.6%, 30.8–45.3, vs 6.3%, 3.1–6.3). Median percentages for all (male and female) and female intimate partner homicide were highest in high-income countries (all, 14.9%, 9.2–18.2; female homicide, 41.2%, 30.8–44.5) and in southeast Asia (18.8%, 11.3–18.8; 58.8%, 58.8–58.8). Adjustments to account for unknown victim–offender relationships generally increased the prevalence, suggesting that results presented are conservative.

Interpretation At least one in seven homicides globally and more than a third of female homicides are perpetrated by an intimate partner. Such violence commonly represents the culmination of a long history of abuse. Strategies to reduce homicide risk include increased investment in intimate partner violence prevention, risk assessments at different points of care, support for women experiencing intimate partner violence, and control of gun ownership for people with a history of violence. Improvements in country-level data collection and monitoring systems are also essential, because data availability and quality varied strongly across regions.

Funding WHO, Sigrid Rausing Trust, and the UK Economic and Social Research Council.

Introduction

In 2010, nearly half a million people are estimated to have been murdered worldwide, and 80% of homicide victims were male.1 Strategies to prevent homicide therefore commonly focus on male victims and gang and male-on-male street violence.2 However, women and men are also at risk of being murdered by their intimate partners. For women, in particular, research suggests that their greatest risk of homicide is from a current or former intimate partner.3 For example, in the USA, a country with high national homicide rates, in 2008, around 45% of female and 5% of male homicides were committed by an intimate partner.4 Similarly, in the UK in 2009, 54% of female and 5% of male homicides were perpetrated by an intimate partner.5 However, evidence from outside North America is scarcer; one exception is a national mortuary study of female homicides in South Africa, which found that, in 1999 and 2009, around 50% of murdered women were killed by an intimate partner.6

Establishing of the prevalence of intimate partner homicide is hampered by many factors, including data availability and quality. In many countries, particularly low-income and middle-income settings, national data for homicides are incomplete. Homicide statistics are mainly collected by the police or through mortuaries, and information about the relationship between the victim and offender is not commonly recorded, despite its importance for prevention strategies.7,8

Previous efforts to provide an overview of the magnitude of intimate partner homicide worldwide10,11 have been limited, because they have focused exclusively on female intimate partner homicides and solely used reported data from national statistical offices, without considering the potential implications of missing reported data. Evidence from the published literature also has not been incorporated into these estimates. As part of a larger assessment of the global health burden of exposure to intimate partner violence for the Global Burden of Diseases, Injuries, and Risk Factor 2010 study,9 in this Article we present the findings from a systematic review of published evidence and a survey of 169 national statistical offices, summarising global and regional estimates of the

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Articles

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prevalence of intimate partner homicide by sex and overall. Because of the methodological challenges of obtaining these estimates, we also explore how the estimates might vary, dependent on how missing information on the victim–offender relationship is accounted for.

**Methods**

**Study design**

Data for the prevalence of intimate partner homicide were compiled with two methods. Firstly, a systematic review following the PRISMA guidelines\(^1\) of the databases Medline, Global Health, Embase, Social Policy, and Web of Science was used to identify all published studies between Jan 1, 1990, and Dec 31, 2011. The search included the terms: “partner” or “partners” or “ex-partners” or “ex-partner” or “husband” or “husbands” or “wife” or “wives” or “co-habiting” or “common-law” or “married” or “marital” or “marriage” or “divorce” or “divorced” or “couple” or “couples” or “boyfriend\(^*\)” or “girlfriend\(^*\)” or “spouse” or “spouses” or “lover” or “spousal” or “partner violence” or “marriage” combined with the terms “homicide” or “murder\(^*\)” or “killings” or “killing” or “genocide\(^*\)” or “deaths wrongful” or “wrongful deaths” or “death wrongful” or “homicide\(^*\)” or “wrongful death” or “femicide” or “uxoricide” or “spouse homicide”. The citations of included articles were also searched.

Studies were included if they stated a number or proportion of women or men who were murdered by an intimate partner in a country, province, or town based on either national databases, national representative studies, or studies based on samples from police, courts, mortuaries, or prisons. An inclusive definition of intimate partner was used, including former and same-sex partners, although same-sex partners were only included in a handful of studies of industrialised countries. We excluded studies that only reported data collected from newspaper reports; those that did not differentiate between attempted and completed homicides; and those that did not explicitly identify intimate partners as perpetrators. Figure 1 provides details of the inclusion and exclusion criteria and the numbers of papers reviewed.

Two authors (HS and AR) screened the 2167 abstracts and the resulting 263 full texts independently and resolved any disagreements by discussion. 118 studies were finally included. HS extracted the data after the first ten studies were extracted with agreement by both HS and AR to ensure consistency. Data extraction was double-checked for studies included in the final analysis.

In addition to the systematic review, we reviewed the 169 WHO-listed countries with relevant hompages to further identify country-level data for intimate partner homicide. For this process we surveyed country statistics offices, ministries of justice, home offices, or police headquarters via email if relevant information could not be found on hompages. We downloaded 32 reports with relevant data for different years from 13 country webpages and received responses from 75 countries, resulting in usable data from 11 countries. Additionally, we made contact with experts specialising in intimate partner homicide, and extracted data from four non peer-reviewed review studies. We included 114 crime and violence, 118 child abuse, child killings, neonaticides, 129 psychology, psychiatry, or suicide, 130 public health, 149 case studies, 153 death wrongful, 169 WHO-listed countries with relevant hompages to further identify country-level data for intimate partner homicide, 176 homcide and effect on others, 187 honour, dowry killings or forced marriage, 196 internet databases, national representative studies, 204 news coverage on homicide, 213 intimate partner homicide: no prevalence, 226 intimate partner violence only, 236 homicides in general, 243 public health issues, 251 case studies, 267 honour, dowry killings or forced marriage, 278 internet databases, national representative studies, 283 public health issues, 297 case studies, 302 public health issues, 313 sex variation, dependent on how missing information on the victim–offender relationship is accounted for. 

**Analysis**

The analysis consisted of three main steps: (1) selection of one estimate per country-year; (2) calculation of prevalence of homicide by intimate partners among all homicides, and for women and men separately; and (3) exploration of the effect of missing data.
When countries had more than one estimate available for a particular year, to avoid double-counting and to ensure that we were using estimates from the best quality studies, we developed a quality assessment decision algorithm to identify which estimate to include in the final analysis according to the following hierarchical order: (1) we chose estimates based on national representative data over provincial estimates, and provincial estimates were preferred to studies based on individual cities or mortuaries; (2) we chose estimates from data with more complete information about overall intimate partner homicides or those with data stratified by sex over those from data in which sex or overall intimate homicide numbers were missing; (3) we chose estimates that reported on all age groups and those that used inclusive definitions of homicide and intimate relationships over data that only considered narrow age ranges or specific types of homicides or intimate relationships; and (4) we preferred estimates from official country statistics that covered more years to data presented in peer-reviewed studies reporting on fewer years, which were again preferred over review reports.

About half the studies did not provide data for single years, but reported a single combined prevalence for up to 10 years, with six starting from 1989 onwards. To allow comparisons across studies and to even out fluctuations in homicide numbers over the years within a country, we used all data available since 1989 to estimate an average percentage of all homicides, with the exception of Denmark and Fiji for which combined data were only available from before 1989.

We obtained conservative estimates of the percentage of intimate partner homicide by dividing the number of homicides for which the perpetrator had been identified as being an intimate partner by the total number of homicides. This prevalence was calculated overall, and for female and male homicides separately. This method gives a conservative estimate of rates of intimate partner homicide, because it assumes that all homicides for which the victim–offender relationship is not known were not perpetrated by an intimate partner.

If we did not have data for the proportion and distribution of homicides with missing victim–offender information, we extrapolated the data using the following hierarchical approach: (1) we inferred it from another year in the same country; (2) we derived it from other studies of the same country that had this information; and (3) we used the proportion and distribution of all other countries in the region. For countries in the western Pacific and the eastern Mediterranean region, information about the distribution of missing data from the geographically closest southeast Asia region was used.

Taking this missing information into account, we also calculated a high-level estimate and a mid-level estimate of the prevalence of intimate partner homicide. For the high-level estimate we followed the example of Riedel and colleagues and deducted all homicide cases with missing information about the victim–offender relationship from the total number of homicides—ie, the estimate was based on a subset of all homicides for which perpetrators were identified. This approach could potentially lead to overestimation of the proportion of intimate partner homicide cases if one assumes that intimate partner homicide cases are solved more easily and so are more likely to be reported than stranger homicides. For the mid-level estimate, we added the cases with missing information to the cases with complete data using the same distribution as for the intimate partner homicide cases among known cases. This approach, which has been suggested by Paulozzi and colleagues, assumes that the victim–offender relationship is equally missing for partner and non-partner homicides.

We calculated regional estimates by grouping countries as per the six WHO regions and a seventh region made of the high-income countries from all regions, and then dividing the total number of intimate partner homicides by the total number of homicides in the same countries in that region.

Data were analysed with Stata version 12. Maps were constructed with ARCGIS version 10. Traditional meta-analysis techniques could not be used because nearly all the studies were representative of the whole population and not restricted to population samples. Because the percentages were skewed, we report the median percentage with IQR.

Role of the funding source
The funders of the study had no role in study design, data collection, data analysis and interpretation, or writing of the report. The corresponding author had full access to all the data in the study. HS, CW, and CGM had final responsibility for the decision to submit for publication.

Results
227 studies and databases with 1122 estimates on the prevalence of intimate partner homicide across 66 countries were included. 198 estimates were used in the analysis after choosing one estimate per country-year (appendix). Most of the 66 countries with available data for overall intimate partner homicide were from high-income countries. Few data were available for the eastern Mediterranean region, whereas the Americas had many countries contributing data for female but not for male intimate homicide (table). Most data for intimate partner homicide outside high-income countries came from provinces, cities, or individual mortuaries. Overall, we compiled data for 492 340 homicides. These data confirm the established pattern that men are more likely to be murdered than are women; the total number of male homicides was consistently higher than female homicides. However, the pattern is different when looking at intimate partner homicide.
Across all countries where data were compiled, we found that 13.5% (IQR 9.2–18.2) of all homicides were committed by an intimate partner, 38.6% (IQR 30.8–45.3) of female homicides were perpetrated by an intimate partner. For male homicides the proportion was much lower (6.3%, 3.1–6.3; figure 2). The total number of intimate partner homicides was almost always higher among women than men. Panama and Brazil were the only exceptions, where the figures were nearly equal.

The total number of homicides reported and the prevalence of intimate partner homicide across regions and by sex is shown in the table. The median percentage of intimate partner homicides among murdered women was highest in southeast Asia (58.8%, 58.8–58.8), high-income countries (41.2%, 30.8–44.5), the Americas (40.5%, 7.5–54.8), and Africa (40.1%, 38.6–41.7). Prevalence was lower in the western Pacific region (19.1%, 19.1–21.3), the low-income and middle-income European region (20.0%, 1.82–37.8), and the eastern Mediterranean region (14.4%, 5.3–23.6).

Among homicides with male victims, the overall median percentage of intimate partner homicide was highest in high-income countries (6.3%, 3.1–6.3), the African region (4.1%, 1.6–6.4), and the low-income and middle-income European region (3.6%, 3.2–4.0). In all other regions the median percentages were less than 2%. Further details of the distribution by country and data sources are shown in the appendix.

The combined median prevalence of intimate partner homicide (men and women) was highest in high-income countries (14.9%, 9.2–18.2) and southeast Asia (18.8%, 11.3–18.8). In the low-income and middle-income European region the median percentage of intimate partner homicide was 11.0% (9.7–12.3), in the Africa region 7.3% (5.6–18.3), and in the western Pacific region 4.8% (4.8–9.8). The lowest prevalence of male intimate partner homicide was in the Americas (0.7%, 0–6.9).

Overall 20.5% of all homicides reported did not have information about the victim–offender relationship (21.5% of male and 19.8% of female homicides). If this

<table>
<thead>
<tr>
<th>Region</th>
<th>Total homicides of included studies</th>
<th>Conservative estimates (missing cases are regarded as non-partner homicides)</th>
<th>Mid-level estimate (missing cases are distributed as known cases)</th>
<th>High-level estimate (analysis is restricted to known cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Worldwide (n=23)</strong></td>
<td>492 340</td>
<td>13.54% (9.24–18.23)</td>
<td>14.05% (12.97–20.43)</td>
<td>16.18% (14.07–20.73)</td>
</tr>
<tr>
<td><strong>High-income countries (n=18)</strong></td>
<td>476 537</td>
<td>14.92% (9.24–18.23)</td>
<td>18.38% (12.97–20.43)</td>
<td>19.42% (15.48–20.73)</td>
</tr>
<tr>
<td><strong>Africa (n=4)</strong></td>
<td>4861</td>
<td>7.31% (5.65–18.31)</td>
<td>11.32% (8.61–18.58)</td>
<td>16.18% (12.62–18.57)</td>
</tr>
<tr>
<td><strong>Americas (n=3)</strong></td>
<td>5112</td>
<td>0.72% (0.64–9.65)</td>
<td>1.33% (0.85–16.49)</td>
<td>4.68% (0.96–33.06)</td>
</tr>
<tr>
<td><strong>Eastern Mediterranean (n=0)</strong></td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td><strong>Low-income and middle-income Europe (n=2)</strong></td>
<td>419</td>
<td>10.98% (9.68–12.28)</td>
<td>11.16% (9.83–12.48)</td>
<td>11.16% (9.84–12.48)</td>
</tr>
<tr>
<td><strong>Southeast Asia (n=2)</strong></td>
<td>601</td>
<td>18.75% (11.26–18.75)</td>
<td>22.04% (13.14–22.04)</td>
<td>22.74% (13.52–22.74)</td>
</tr>
<tr>
<td><strong>Western Pacific (n=3)</strong></td>
<td>4810</td>
<td>4.82% (4.82–9.84)</td>
<td>5.55% (5.55–10.78)</td>
<td>5.68% (5.68–10.78)</td>
</tr>
<tr>
<td><strong>Prevalence of intimate partner homicides among all female homicides</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Worldwide (n=63)</strong></td>
<td>133 591</td>
<td>38.55% (30.84–45.31)</td>
<td>42.71% (36.16–58.05)</td>
<td>47.36% (38.55–59.64)</td>
</tr>
<tr>
<td><strong>High-income countries (n=36)</strong></td>
<td>115 515</td>
<td>41.19% (30.84–44.45)</td>
<td>44.95% (42.09–59.05)</td>
<td>48.56% (42.77–61.31)</td>
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<tr>
<td><strong>Africa (n=4)</strong></td>
<td>6219</td>
<td>40.11% (38.55–41.67)</td>
<td>42.24% (31.93–45.72)</td>
<td>44.80% (42.25–47.36)</td>
</tr>
<tr>
<td><strong>Americas (n=15)</strong></td>
<td>9658</td>
<td>40.54% (7.51–54.84)</td>
<td>42.54% (31.43–59.26)</td>
<td>42.60% (11.51–59.64)</td>
</tr>
<tr>
<td><strong>Eastern Mediterranean (n=2)</strong></td>
<td>887</td>
<td>14.41% (5.26–23.56)</td>
<td>15.23% (5.56–24.90)</td>
<td>15.28% (5.58–24.98)</td>
</tr>
<tr>
<td><strong>Low-income and middle-income Europe (n=3)</strong></td>
<td>200</td>
<td>20.00% (1.82–37.78)</td>
<td>20.40% (1.86–38.53)</td>
<td>20.41% (1.86–38.55)</td>
</tr>
<tr>
<td><strong>Southeast Asia (n=1)</strong></td>
<td>80</td>
<td>58.75% (58.75–58.75)</td>
<td>62.10% (62.10–62.10)</td>
<td>62.30% (62.30–62.30)</td>
</tr>
<tr>
<td><strong>Western Pacific (n=2)</strong></td>
<td>1122</td>
<td>19.12% (19.12–21.29)</td>
<td>20.22% (20.22–22.51)</td>
<td>20.28% (20.28–22.58)</td>
</tr>
<tr>
<td><strong>Prevalence of intimate partner homicides among all male homicides</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Worldwide (n=28)</strong></td>
<td>373 077</td>
<td>6.28% (3.13–6.34)</td>
<td>6.47% (4.42–7.15)</td>
<td>6.48% (5.34–7.29)</td>
</tr>
<tr>
<td><strong>High-income countries (n=18)</strong></td>
<td>364 410</td>
<td>6.28% (3.13–6.34)</td>
<td>6.59% (4.42–7.15)</td>
<td>6.60% (5.34–7.29)</td>
</tr>
<tr>
<td><strong>Africa (n=3)</strong></td>
<td>235</td>
<td>4.12% (1.55–6.38)</td>
<td>4.36% (1.56–6.47)</td>
<td>4.42% (1.80–6.48)</td>
</tr>
<tr>
<td><strong>Americas (n=2)</strong></td>
<td>4580</td>
<td>0.42% (0.00–6.54)</td>
<td>0.81% (0.00–11.27)</td>
<td>4.00% (0.00–23.60)</td>
</tr>
<tr>
<td><strong>Eastern Mediterranean (n=0)</strong></td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td><strong>Low-income and middle-income Europe (n=2)</strong></td>
<td>226</td>
<td>3.59% (3.18–4.00)</td>
<td>3.66% (3.24–4.08)</td>
<td>3.66% (3.24–4.08)</td>
</tr>
<tr>
<td><strong>Southeast Asia (n=1)</strong></td>
<td>334</td>
<td>0.87% (0.87–0.87)</td>
<td>1.01% (1.01–1.01)</td>
<td>1.04% (1.03–1.05)</td>
</tr>
<tr>
<td><strong>Western Pacific (n=2)</strong></td>
<td>3292</td>
<td>1.33% (1.33–2.72)</td>
<td>1.54% (1.54–3.22)</td>
<td>1.58% (1.58–3.30)</td>
</tr>
</tbody>
</table>

Data are number of homicides or median (IQR). n=number of countries with existing data. *The high-income countries (classified by the World Bank) included Andorra, Australia, Austria, Canada, Croatia, Cyprus, Czech Republic, Denmark, England and Wales, Estonia, Finland, France, Germany, Hungary, Iceland, Ireland, Israel, Italy, Japan, Lichtenstein, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, Scotland, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the USA.

Table: Conservative, mid-level, and high-level estimates of the prevalence of intimate partner homicide among male and female homicides by region.

missing information was taken into account, and only homicides in which the victim–offender relationship was known were considered, the overall estimates for intimate partner homicides worldwide were as high as 16·2% (14·1–20·7), with the median percentage among female homicides increasing to 47·4% (38·5–59·6) and among male homicides to 6·5% (5·3–7·3). If missing cases were distributed according to the proportion of known cases, the median prevalence was 14·16% (13·0–20·4) overall, 42·7% (36·2–58·1) among murdered women, and 6·5% (5·3–7·3) among murdered men. Regional details of these estimates are reported in the table.

Discussion

Homicide is an important source of premature mortality for men and women. Overall, one in seven homicides (13·5%) are committed by an intimate partner. The proportion of murdered women killed by a partner is six times higher than the proportion of murdered men killed by a partner (38·6% and 6·3% of female and male homicides, respectively), reflecting both sex disparities in levels of intimate partner violence and differences in overall homicide levels between women and men.

Men are well known to be disproportionately affected by homicide, and our findings reflect established patterns of interpersonal violence, with men more likely to become victims of interpersonal violence than women, except in the domestic sphere. We show that consistently, across all countries where such data are collected, women’s main risk of homicide is from an intimate partner. Dependent on how gaps in data are managed, the estimates range from more than a third to almost half of homicides of women being perpetrated by an intimate partner.
The sex differences in intimate partner homicides are best shown in high-income countries such as the USA, where historical data are available. The US data show a sharp drop in intimate partner homicides among men since 1975, and only a moderate decrease for women in the same period. This drop is likely to be related to increased availability and transformation in criminal justice responses to intimate partner violence and women’s increased ability to leave abusive relationships, since women are more likely to murder an intimate partner while they are in the relationship, especially if the relationship is abusive.

This study also draws attention to the scarcity of information about intimate partner homicide in many regions of the world, and the large amount of missing information about the victim–offender relationship, even in countries with advanced homicide monitoring data systems. This concern is important. The dynamics of intimate partner homicide are very different from the more common and more frequently studied male–male homicide. Improved information about the victim–offender relationship is crucial for devising strategies to prevent intimate partner homicides. The gaps in information are partly due to the nature of homicide data and the poor links between the different systems—ie, police, crime, and mortuary information systems. Especially with the increasing computerisation of routine data, we hope that improved linking of such data will be feasible.

The regional differences in intimate partner homicide might represent real differences in patterns of homicide, following the argument that intimate partner homicides are more common in countries with low overall homicide rates. However, these differences might also be a product of differences in the existence, completeness, and quality of data for homicides among countries and regions, with intimate partner homicide data lacking in low-income settings, especially in Asia and Africa. As we have mentioned, data for the victim–offender relationship are most often only derived after a police investigation and these police data will only be available if the case is closed. Some murders will remain unsolved and perpetrators might never be identified, but the proportion of such unsolved murders is largely dependent on the quality of crime investigations and willingness to pursue female and intimate partner homicides. In regions such as the Americas, where male homicides are among the highest globally, the prevalence of intimate partner homicide was not among the highest reported. At the same time, this region had poor overall homicide reporting mechanisms, large amounts of missing information about the victim–offender relationship, and few studies investigating intimate partner homicides among men as compared with studies among women.

In addition to the limitations posed by the available data for intimate partner homicides, there are also some potential limitations of this study’s methods. Data were restricted to one estimate per country year to avoid double-counting for countries with more than one estimate per year and to ensure that studies only providing a measure of intimate partner homicide for a specific time period would be included. However, this approach could have led to overestimation or underestimation of intimate partner homicides in countries where intimate partner homicide rates were averaged across several years if there was a notable fall or increase in intimate partner homicide rates. Favouring national representative studies over small-scale regional studies meant that we had more nationally representative data, but could have potentially led us to exclude strong regional studies (for example, where triangulation methods were used to reduce the amount of missing information).

An important limitation is that in a large percentage of our data we did not have information about the perpetrator–victim status. Because of this missing information, in our analysis we produced the most conservative estimate, which assumes that homicide cases with missing information are non-partner homicides, and also explored how the estimates varied under different plausible assumptions.

Despite these limitations, and our resulting focus on conservative estimates of intimate partner homicide, our findings underscore the high prevalence of intimate partner homicides, especially among women. Any homicide is an immense tragedy. The human costs of intimate partner homicide also go far beyond the individual murder; they often involve the murder of family members or bystanders, such as the couple’s children, relatives, neighbours, allies, friends, lawyers, and new partners, and have longstanding effects on remaining family members and friends. Surviving children not only lose the murdered parent, but also the perpetrator to prison or suicide, and face a drastic change in their social environment.

The high prevalence of and the sex differences in intimate partner homicides have clear implications for efforts to prevent lethal and near-lethal intimate partner violence. Such homicides are often the ultimate outcome of a failed societal and health and criminal justice service response to intimate partner violence. The health sector needs to improve identification of and response to intimate partner violence, including assessing the severity of violence and potential homicide risk among women experiencing intimate partner violence. A range of safety assessment aids have been developed, and protocols for their use in different service settings need to be considered and evaluated.
The criminal justice system cannot ignore that intimate partner homicides are an important proportion of female homicides. An improved criminal justice system response to intimate partner violence is needed both as an aim in itself, but also as part of any strategy to reduce homicide. As well as appropriate response to incidents of violence reported, policies to reduce the risk of homicide—including, for example, laws to restrict firearm access to perpetrators of intimate partner violence and other strategies targeting perpetrators—are needed. Understanding of the true magnitude of the issue is hampered by existing data systems, and workable approaches to systematically compile information about the victim–offender relationship are needed. The prevention of homicide is an important policy goal in every country and the prevention of intimate partner homicides is a crucial part of this aim, particularly for women.

Contributors
HS, KD, NA, JC, CW, and CGM participated in the study design. HS and AR did the systematic review and double-screened all abstracts and full texts. HS extracted all the data, after agreement with AR on the first ten studies. HS surveyed all statistical offices, home offices, ministries of justice, and police headquarters and searched their homepages. HS analysed the data and HS, KD, NA, JC, CW, and CGM interpreted the findings. HS wrote the first draft of the report. All authors revised and approved the final report before submission.

Conflicts of interest
We declare that we have no conflicts of interest.

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