Lethal and nonlethal violence against wives⁽¹⁾

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d'âge des partenaires conjugaux, tant dans les mariages que dans les unions libres, mais il ne semblait pas y avoir de relation entre la différence augmentaient de Jaçon marquée avec l'accroissement de la différence et sur 8,385 interviewées, dont 277 avaient été victimes de voies de fai d'âge et les taux de violence non mortelle. peu près de la même façon que dans les mariages; (3) les taux d'uxoricide l'-åge moyen-, alors que les taux de violence non mortelle diminuaient à mais dans les unions de fait, le risque d'uxoricide augmentait jusqu'à non mortelle diminuaient de façon semblable selon l'âge de la femme les mariages; (2) dans les mariages, les risques de violence mortelle et violence, tant mortelle que non mortelle, dans les unions libres que dans particulier, (1) les conjointes couraient un risque beaucoup plus élevé de risques étaient semblables pour les incidents mortels et non mortels. En non mortelle envers la conjointe. Certains profils démographiques de démographiques parce que la possessivité sexuelle mâle semblait être le des profils de risques parallèles en ce qui a trait aux facteurs attendions à ce que la violence mortelle et la violence non mortelle affichent de la part de leur mari au cours des 12 derniers mois. Nous nous Statistique Canada et de l'Enquête sur la violence envers les femmes obtenues de l'Enquête sur l'homicide au Canada (1974-1992) de envers la conjointe au Canada ont été comparés grâce aux données Les profils démographiques du risque de violence mortelle et non mortelle facteur sous-jacent dominant, que ce soit pour la violence mortelle ou (1993). Les comparaisons étaient fondées sur 1,429 victimes d'uxoricide

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months. We anticipated that lethal and nonlethal violence would exhibit of whom 277 had been assaulted by their husbands within the past 12 parisons were based on 1,429 uxoricide victims and 8,385 interviewees Survey (1974-1992) and Violence Against Women Survey (1993). Comwives in Canada were compared utilizing Statistics Canada's Homicide Demographic patterns of risk of lethal and nonlethal violence against no apparent relationship between age disparity and rates of nonlethal ners increased, in both registered and commonlaw unions, but there was uxorcide risk increased until "middle-age", whereas the rates of nonlesimilar fashion in relation to the wife's age, but in commonlaw unions. registered unions, the risks of lethal and nonlethal violence declined in nonlethal violence in commonlaw unions than in registered unions; (2) In In particular: (1) Wives incurred much greater risk of both lethal and mographic risk patterns were similar for lethal and nonlethal incidents. both lethal and nonlethal violence against wives. Some, but not all, desexual proprietariness appears to be the dominant underlying issue in parallel patterns of risk in relation to demographic factors because male thal violence declined in much the same way as in registered unions; (3) Uxoricide rates increased sharply as the age disparity of marital part

It is an implicit assumption of those who study and deal with violence against wives that lethal and nonlethal violence share commonalities of motive and causal dynamics, and of the circumstances, attributes of marital history and other factors exacerbating or mitigating risk. However, there is also considerable theoretical and practical interest in identifying factors which may be of differential relevance to lethal and nonlethal risk (Campbell 1986).

The 1993 Statistics Canada Violence Against Women Survey, in which a national probability sample of women was interviewed about their experiences of nonfatal violence by husbands and former marital partners (Johnson 1995; Johnson and Sacco 1995) affords an unusual opportunity to elucidate demographic and other risk patterns of nonlethal violence against wives. Regarding lethal violence, Statistics Canada also maintains a victim-based archive of all Canadian homicides known to police since 1974. For this paper, data on uxoricide (killing of wives) were extracted from the Statistics Canada Homicide Survey in order to compare the patterns of risk of fatal violence with the patterns of risk of nonfatal violence as revealed in the 1993 Violence Against Women Survey.

Most criminological studies of violence focus on variations in rates between times and places. Our more epidemiological approach focuses on identifying the demographic patterns of risk characteristic of specific categories of interpersonal relationship

only that there is a sort of self-interested functionality to human vary in relation to the couple's ages and circumstances, on the of marital conflicts. We expect the intensity of these conflicts to other aspects of marital entitlements are especially potent sources are of distinct relevance to this relationship. In particular, the pose that violence is used with conscious coercive intent, but the perpetrator's interests. (The second point does not presupto cues indicative of the likelihood that the violence will serve that nonlethal violence is used coercively, with some sensitivity psychologically linked with male sexual proprietariness, and (2) (Dobash, Dobash, Wilson, and Daly 1992; Wilson and Daly 1992a; basis of two premises for which we have argued elsewhere issues of fidelity, sustained commitment to the relationship, and tionships have many possible sources of conflict, some of which 1992b; 1992c; 1993a, 1993b): (1) that violence against wives is (Daly and Wilson 1988a; 1988b). Marital and marital-like rela-

Male sexual proprietariness

ubiquitous outcomes of marital conflict over female autonomy male control, fatal and nonfatal violence are cross-culturally veiling, and prohibition of widow remarriage (Wilson and Daly structural manifestations of men's sexual proprietariness, and Daly 1992b, 1992c, 1993b). Dell 1984; Dobash and Dobash 1979; Levinson 1989; Wilson Cusson and Boisvert 1994; Daly, Wilson, and Weghorst 1982: Counts, Brown, and Campbell 1992; Crawford and Gartner 1992 (Allen 1990; Bohannan 1960; Chimbos 1978; Counts 1990) including such cultural practices as infibulation, foot-binding, cross-cultural and historical variation in the institutional and exclusivity, but also to feelings of entitlement. Although there is referring not just to the emotional force of one's desire for "proprietary" as this word implies a more encompassing mindset, describe the mindset of men who have beaten or killed wives 1992a), and although women are variably effective in resisting Dobash 1979; Campbell 1992; Showalter, Bonnie, and Roddy (Barnard, Vera, Vera, and Newman 1982; Daly, Wilson, and 1980). Wilson and Daly (1992a) have preferred to use the term Weghorst 1982; Polk 1994; Polk and Ranson 1991; Dobash and "Jealous" and "possessive" are the terms most often used to

In any sample of well-described uxoricide cases, a large majority were evidently precipitated by the husband's accusing the wife of sexual infidelity (whether with reasonable grounds for

suspicion or not), by her unilateral decision to terminate the relationship, and/or by a more generalized inability to control her (Daly and Wilson 1988b; Wilson and Daly 1993a; Polk 1994). The main motivational circumstances in non-lethal wife assault are apparently similar: adultery, jealousy, desertion, and male control (Counts 1990; Counts, Brown, and Campbell 1992; Dobash and Dobash 1984; Hilberman and Munson 1978; Rounsaville 1978). These similarities in "motive" suggests that uxoricides may be the "tip of the iceberg" of nonfatal assaults against wives.

Coercive control of wives

appear paradoxical. Yet, it is precisely the loss or violation of whose lesser expressions are effective in coercion, for although extreme manifestations of proprietary and violent inclinations carefully planned, they are anything but rationally instrumenyet, if keeping her is his aim, killing is clearly counterproduc-Daly 1993a), the killer's motive cannot merely to be rid of her, wife is pursued and killed by a husband she has left (Wilson and 1992; Daly and Wilson 1988b; Polk 1994). Certainly, when a uxoricidal men: "If I can't have her, then no-one shall" (Campbell these proprietary entitlements that seems to move many bands' concern to protect their proprietary entitlements may wives suggest that such threats by husbands are often sincere means of controlling others, and the risks incurred by estranged credible threat of potentially lethal violence can be a powerful from clear that the same can be said of nonlethal wife abuse. A uxoricide seems clearly to overstep the bounds of utility, it is far tal. They are more plausibly interpreted as the dysfunctionally power of the threats (Dobash and Dobash 1979; Safilioshusbands has often had a legitimacy that enhances the coercive assaults directed at strangers, the coercive use of violence by (Wilson and Daly 1992d; 1993a). Moreover, unlike threats or Rothschild 1969; Besse 1989) The idea that uxoricides are in some sense motivated by hus-Thus, although such killings are often deliberate and even

If the coercive use of violence is best understood as one means by which uxorial proprietary claims are maintained, then male sexual proprietariness and attendant use of violence may vary (both within and between communities or societies) in similar ways in relation to: (1) indicators of the intensity of male sexual rivalry, (2) cues of possible marital infidelity, (3) various factors

affecting the woman's attractiveness to potential rivals and her autonomy, and (4) the costs of using violence (Wilson and Daly 1993b). Neither the Homicide Survey nor the Violence Against Women Survey provides all the information needed to test such hypotheses, but several demographic variables recorded in these surveys, such as ages, the type of marital union, and estrangement may be predictably related to variations in male sexual proprietariness and, hence, violence against wives. Detailed hypotheses about the links between risk of violence and these demographic variables are outlined with the presentation of our analyses.

economic circumstance is a cue of some genuine risk of losing not have the relevant data to examine the same issue for the violence vary in relation to household income, although we do paper, we assess whether women's reports of experiencing of violence against wives than of other violent crimes. In this an important risk factor (Rodgers 1994; Hotaling and Sugarman studies of violence against wives suggest that poverty is indeed proprietary and, perhaps, coercive feelings in a husband. Several one's wife, and may therefore be expected to arouse sexually wives successively (Glick and Lin 1987). In general then, poor societies, well-to-do men are especially likely to have multiple as husbands (Buss 1994), and that, while wealth increases a evidence that women prefer men with good financial prospects 1986). However, economic status appears to be a weaker correlate polygamy, only affluent men can afford multiple wives (Betzig (Guttmann 1993; Gibson 1994). In societies which permit man's likelihood of marrying, poverty elevates the risk of divorce Elder, Lorenz, and Simons 1994). Moreover, there is considerable a major source of marital conflict (Messinger 1976; Conger, Ge, are conducive to marital violence is appealing. It is obvious that and Gartrell 1986; Messner and Tardiff 1986; Hsieh and Pugh as a correlate or cause of violence is poverty (Krahn, Hartnagel homicide cases 1986; Borgerhoff Mulder 1988), and even, in monogamous family financial strains are generally stressful, and they are often 1993), and the hypothesis that poor socioeconomic circumstances The circumstance that is perhaps most frequently invoked

Our main objectives are twofold: (1) to compare demographic patterns of risk in lethal versus nonlethal cases of violence against wives, and (2) to assess whether manifestations of controlling

behaviour and proprietariness that are not necessarily violent exhibit parallel demographic risk patterns and are specifically characteristic of violent husbands.

Method

Uxoricides

categorized into many types including "commonlaw wife", "wife", and killer, as well as their relationship, which has been of the homicide. This Homicide Survey contains, among other in 1991 to include additional information on the circumstances standardized reporting form, which underwent a major revision homicides known to police. Survey") is a victim-based datafile of all Canadian criminal coded by police as "estranged lover", "close friend" or even status code (neither in the Homicide Survey nor in the census). unions has been inexplicit, and ex-commonlaw is not a marital and "extramarital lover". In the case of "commonlaw" (i.e., de "separated wife", "divorced wife", "girlfriend", "estranged lover", things, information on the sex, age, and marital status of victim are also excluded from the following analyses as it is not possible Thus, former commonlaw marrieds may sometimes have been facto) marital relationships, how police should code dissolved from our analyses of spousal homicides. "Girlfriends" and "lovers" "acquaintance", and any such cases would have been excluded on numbers of such relationships in the population-at-large. to compute homicide rates without the corresponding information The Statistics Canada homicide archive (the "Homicide Police report every homicide on a

Analyses in this paper are based on case-by-case information for 1974 through 1992. The homicide datafile maintained by Statistics Canada is continually updated as new information becomes available; data in this paper were current as of December, 1993. Homicide rates have been computed relative to the population at risk. Homicide rate denominators were computed from census information on the numbers of persons in relevant sex and age classes, marital statuses, and so forth; for details of the methodology see Wilson, Daly and Wright (1993).

Non-lethal violence against wives

For the 1993 Violence Against Women Survey, Statistics Canada selected a representative stratified national probability

sample of women for telephone interviews. (Ninety-eight percent of Canadian households have telephones.) A more detailed description of the survey methodology is reported by Johnson and Sacco (1995). The data from this national survey are available as a public archive (Statistics Canada 1994) except for information on the husbands' age. The 12,300 Canadian women (age 18 and over) who completed the survey were interviewed about their experiences of threats of violence, sexual and physical violence by marital partners and other men, injuries sustained, and assistance from community services, as well as their perceptions of safety, forms of sexual harrassment, and demographic background information. For purposes of this paper, interviewees included 8,385 women currently residing with spouses⁽²⁾: 7,363 in registered marriages and 1,022 in commonlaw marriages.

Among many other questions, respondents were asked a series of ten yes/no questions, in the order indicated below, about physical violence by the current marital partner:

- . Has your husband/partner ever threatened to hit you with his fist or anything else that could hurt you?
- 2. Has he ever thrown anything at you that could hurt you?
- 3. Has he ever pushed, grabbed, or shoved you?
- 4. Has he ever slapped you?
- 5. Has he ever kicked, bit, or hit you with his fist?
- 6. Has he ever hit you with something that could hurt you?
- 7. Has he ever beaten you up?
- 8. Has he ever choked you?
- Has he ever threatened to or used a gun or knife on you?

10. Has he ever forced you into any sexual activity when you did not want to, by threatening you, holding you down, or hurting you in some way?

This series of questions was prefaced with the following remarks:

We are particularly interested in learning more about women's experiences of violence in their homes. I'd like you to tell me if your husband/partner has ever done any of the following to you.

In order to reduce the burden of persistent questioning about violent acts if none had occurred, the interviewer asked whether the husband/partner had ever been violent in any other way after every two or three of the above ten questions, and a "no" statement ended this series of questions about that relationship. The refusal rate for any of these ten questions about violence by marital partner was less than 1%. Several questions were also asked about the time frame of the violent incidents.

In this paper we compute rates on the basis of incidents which occurred in current coresiding unions within the 12 months prior to the interview, for purposes of comparison with annual uxoricide rates. In addition, for other comparisons within the Violence Against Women Survey data, we have distinguished those women who reported that they were assaulted or threatened within the past year from those whose most recent such experience was prior to the past year and from those women who were never threatened or assaulted by their current marital partners. We also compare women who had experienced multiple incidents of violence with those who had experienced none or only one incident.

The rates of nonlethal violence reported in this paper are presented as estimates for all Canadian women in the relevant age and marital status categories; the weighting factor applied to the interview data reflected the sex and age structure of the stratified probability sample for each geographic region (Johnson and Sacco 1995; Statistics Canada 1994). Weighted estimates are also presented for the demographic variables associated with the rates of nonlethal violence. It should be noted that the nonlethal assault rates are presented as rates per million wives.

(Thus, uxoricide rates can be compared directly with nonlethal rates of violence by multiplying the latter by 10,000).

Immediately before women were asked the ten questions about their experiences of violence by marital partners, a series of five items assessed the respondents' perceptions of whether their husbands engaged in controlling, denigrating, and proprietary behaviours, which we refer to collectively in this report as "autonomy limiting". These items were introduced thus:

I'm going to read a list of statements that some women have used to describe their husband/partner. Thinking about your husband/partner, I'd like you to tell me whether or not each statement describes him.

- He is jealous and doesn't want you to talk to other men.
- 2. He tries to limit your contact with family or friends.
- 3. He insists on knowing who you are with and where you are at all times.
- He calls you names to put you down or make you feel bad.
- 5. He prevents you from knowing about or having access to the family income, even if you ask.

The refusal rate for any of these questions was less than 1%. Responses to the five items were significantly (p < .001) and positively correlated with each other; the ten correlation coefficients ranged from +0.17 to +0.42. A composite summary "autonomy-limiting index" was computed for each woman by summing the number of her "yes" responses to these 5 items.

Respondents were also asked about the past year's total household income categorized into ten income categories (in thousands of dollars): < 5, 5-10, 10-15, 15-20, 20-30, 30-40, 40-50, 50-60, 60-80, more than 80. The weighted frequency distribution of persons in these 10 categories was used to compute an estimate of average household income for different demographic categories of women. The midpoint of each category was taken as the household income with the conservative estimate of 85 for incomes above 80 thousand dollars. Income

information was not obtained in 12.5% of the 8,385 interviews of coresiding wives (a much higher rate of missing data than for any other variable analyzed here): 4.9% refused to answer and an additional 7.6% said they did not know.

Logistic regressions (Norušis 1993) were computed to assess the effects of household income, type of marital union (registered vs commonlaw), age of wife, and absolute age difference of husband and wife on (i) the probabilities of reporting violence having occurred in the marriage within the past year, and (ii) the probabilities of affirming or not affirming any of the five autonomy-limiting statements about husbands. For these analyses, the absolute age difference was used since uxoricide rates are a non-monotonic function of age differences, increasing with age disparity in either direction (Daly and Wilson 1988b).

Results and discussion

Estrangement

If the coercive use of violence is one means by which uxorial proprietary claims are maintained by husbands, then it follows that resolving to leave one's husband may be associated with elevated risk of violence, including risk of being killed. Because the decision to leave is covert, it is difficult to compare the risks incurred by women who intend to leave with the risks incurred by other coresiding women. However, one can assess the risk incurred by those who have actually separated.

According to the Homicide Survey, Canadian wives in registered unions incur substantially elevated risk when separated despite the separated woman's lesser availability to her assailant: for uxoricides occurring between 1974 and 1990, the rates were 5.6 per million coresident wives and 28.6 per million separated wives (Wilson and Daly 1993a). According to the 1993 Violence Against Women Survey (Johnson 1995), 19% of separated wives were physically abused by the former spouse while separated (as indicated by affirmation to the question "Did it happen after you split up?"), and the abuse increased after separation in 35% of these cases (as indicated by affirmation to the question "Do you think it increased after you split up?").

Thus, the fatal and nonfatal assault data support the widespread apprehension that wives often experience elevated

risk when deserting a violently proprietary husband. Elucidation of the time-course of this elevated risk would be of value in making practical decisions about protective measures, but neither survey provides evidence bearing on the duration of the period in which estranged wives remain at elevated risk of either fatal or nonfatal violence. In an Australian study, 47% of separated uxoricide victims in New South Wales were killed within two months of the separation (Wallace 1986).

Severity and recurrence of violence in relation to attempts to limit wives' autonomy

Eighteen percent of the 8,385 respondents affirmed that their husbands/partners engaged in one or more of the five "autonomy-limiting" behaviours. To assess whether these responses varied systematically with severity or chronicity of violence experienced, we computed the percentages of women affirming each of these items within groups distinguished by different experiences of violence in their present marriages.

experienced serious violence than for those who had experienced measure, the percentages were higher for women who had the composite "autonomy-limiting" index. Moreover, for each proprietary whether one considers the five individual items or perceived by their wives as controlling, derogatory, and husbands were more likely than nonviolent husbands to be of non-serious violence (9%). Table 1 indicates that violent meeting the criterion of serious violence (56%) than in incidents reported fearing that their lives were in danger in incidents criterion for non-serious violence. Moreover, wives more often to 18% of those who reported an incident meeting only the serious violence (i.e., any one or more of items 7-10) reported having incurred an injury requiring medical attention, compared perpetrated by a coresiding spouse, 72% of those affirming were interviewed further about one incident of violence of "seriousness" is supported by injury data: among women who and weighted percents, respectively). The validity of this criterion respectively); or as "no violence" (84.2% and 85%, unweighted they affirmed any of items 1 through 6 but not 7 through 10 wives [weighted percent]]; as victims of "non-serious" violence if percent] and 3.3% when estimated for all coresiding Canadian of "serious" violence if they affirmed one or more of violence items (12.4% and 11.7%, unweighted and weighted percents, 7 through 10 (3.4% of coresiding wives surveyed [unweighted For the severity groupings, women were categorized as victims

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only non-serious violence. Table 1 shows that those women who had experienced more serious violence were indeed those most likely to affirm that their husbands engaged in other autonomy-limiting behaviour as well (with respect to the mean autonomy-limiting index value: F = 1047.9, df = 2/8382, p < .00001.

Table 1

Percent of wives affirming the applicability of "autonomy limiting" items to the behaviour of their current husbands (registered and commonlaw unions combined), in relation to perpetration of violence by the husband.

Violence by the husband

	None N = 6990	Only "non-serious"
"He is jealous and doesn't want you to talk to other men".	3.5	13.0
"He tries to limit your contact with family or friends".	2.0	11.1
"He insists on knowing who you are with and where you are at all times".	7.4	23.5
"He calls you names to put you down or make you feel bad".	2.9	22.3
"He prevents you from knowing about or having access to the family income, even if you ask".	1.2	4.6
Mean (± SD) autonomy- limiting index° (range 0-5)	0.17±0.53	0.74±1.08

a Non-serious: see methods for definition of violence items 1-6.

Source: Violence Against Women Survey. Statistics Canada. 1993

For chronicity groupings, women were categorized according to their responses to the question "How many different times did these things happen?", posed after the series of questions about violent acts. As noted above, 84.2% of the surveyed women living with spouses reported no violent incidents. Most of the remainder

(9.4% unweighted and 9.1% for weighted estimate) reported only one, while 4.6% (unweighted and weighted) reported 2 to 10 incidents, and 1.8% (1.5% weighted estimate) reported 11 or more. If violence is a manifestation of men's inclinations to exert coercive control, then such violence might be expected to covary with other autonomy-limiting behaviours. Table 2 shows that those women who had experienced violence more often were indeed those most likely to affirm that their husbands engaged in other autonomy-limiting behaviour as well (F = 766.9, df = 3/8318, p < .00001).

Average autonomy-limiting index values for women who have experienced different numbers of violent incidents during their current marriages (registered or commonlaw).

	Mean ± S.D.
No Violence (N = 6990)	0.17 ± 0.53
Single Incident (N = 788)	0.65 ± 1.02
2-10 Incidents (N = 390)	1.13 ± 1.26
11 or more Incidents (N = 154)	2.20 ± 1.50

Source: Violence Against Women Survey. Statistics Canada. 1993

Demographic risk patterns

Type of marital union

There is reason to suppose that husbands may be less secure in their proprietary claims over wives in commonlaw unions than in registered unions. Until relatively recently, uxorial entitlements and obligations were firmly reinforced in registered marital unions by legal, religious, and other social institutions, but were lesserly or not at all so reinforced in de facto unions (Dobash and Dobash 1979; Wilson and Daly 1992a). Perhaps, in part, because of values and expectations associated with the socially and legally enforced commitments that marital registration entailed in the past, commonlaw marrieds may be less committed to the alliance. In fact, commonlaw unions are often "trial" marriages with relatively short durations and a

Serious: see methods for definition of violence items 7-10.

Index: average number of autonomy-limiting items affirmed by wives in sample; see methods.

relatively high incidence of break-ups (Booth and Johnson 1988; Bumpass and Sweet 1989; Wu and Balakrishnan 1992). Moreover, there is some direct evidence for a greater incidence of conflicts within commonlaw couples than within registered couples (Macklin 1972; Sarantakos 1984).

In Canada in 1974-1992, the uxoricide rate was about eight times greater in coresiding commonlaw marital unions than in coresiding registered unions (Table 3). And according to the 1993 Violence Against Women Survey, the rate of nonfatal violence against wives was about four times higher in coresiding commonlaw unions than in registered unions (Table 3).

Rates of violence against women by coresiding marital partners according to the type of marital union.

9.0	2.0	Nonlethal assault in past year per hundred wives per annum
55.1	7.2	Uxoricide per million wives per annum
Common-law	Registered	

Source: Violence Against Women Survey and Homicide Survey. Statistics Canada. 1993.

Joint offspring promote marital solidarity, and childlessness is registered unions (Bumpass, Sweet, and Cherlin 1989; Khoo Stepchildren are more prevalent in commonlaw unions than in associated with marital conflict and divorce (Rasmussen 1981). often childless than are registered unions for a given duration of young adulthood are both associated with higher homicide rates unions are generally more prevalent among the poor and the may be attributable to a combination of factors. Commonlaw ways, and the higher risk of uxoricide and assault in the former nonlethal violence against wives (Daly, Singh, and Wilson 1993). 1988) and the presence of stepchildren is itself a risk factor for marriage (Statistics Canada 1987; Turcotte 1988; Barr 1993). and registered unions is that commonlaw marriages are more (Daly and Wilson 1990). Another difference between commonlaw Turcotte 1988; Wu and Balkrishnan 1992), and poverty and young (Bumpass and Sweet 1989; Khoo 1987; Spanier 1983; Whether adultery and desertion are greater sources of conflict Commonlaw and registered marital unions differ in many

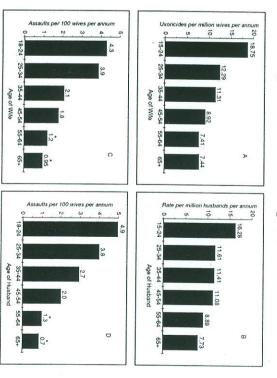
in commonlaw unions than in registered unions is unknown, but it is clear that commonlaw unions are more likely to break up than registered unions (Dumas and Péron 1992; McDaniel 1994; Thornton 1988).

Age of wife

The wife's youth is one partial predictor of marital instability (Dumas and Péron 1992; McKie, Prentice, and Reed 1983), perhaps partly because younger women are confronted with more options. The younger a divorcée, the greater her likelihood of remarriage (Glick and Lin 1987; Trost 1984). All else being equal, youth makes a woman more attractive to men (Borgerhoff Mulder 1988; Cunningham 1986; Deutsch, Zalenski and Clark 1986; Kenrick and Keefe 1992). These considerations, as well as child-lessness and other opportunity factors, suggest that young wives may be especially likely to be subject to the attentions of men other than their husbands, to form new sexual relationships, and to terminate unsatisfactory marriages. Thus, we may expect that jealous, proprietary, coercive motives and actions may be especially prevalent among men with younger wives.

Figure 1

Comparison of age-specific rates of lethal and nonlethal assaults in registered marriages. Uxoricides per million wives per annum as a function of wife's age (A) and husband's age (B) in Canada 1974-1992. Nonlethal assault rates per hundred wives per annum as a function of wife's age (C) and husband's age (D) in Canada 1993.



^{*}Unreliable estimate because of small sample size.

As we have noted previously (Daly and Wilson 1988a; 1988b; Wilson, Daly and Wright 1993) on the basis of subsets of the homicide data analyzed here, the youngest wives indeed incur the greatest uxoricide risk in registered marriages in Canada (Figure 1A). The same is true in the United States (Mercy and Saltzman 1989) and in Britain (Wilson, Daly and Scheib, forthcoming). For the much more frequent occurrence of nonlethal violence, the Violence Against Women Survey data indicate a parallel age pattern (Figure 1C). Similarly, according to victimization surveys in the United States (Gaquin 1977/78; Straus, Gelles, and Steinmetz 1980) and in New Zealand (Fergusson, Horwood, Kershaw, and Shannon 1986), rates of nonlethal assault against wives decrease as a function of the wife victim's age.

The wife's age is correlated with several variables which may be more directly "causal" to the risk of violence. One such correlate is of course the husband's age. In Canada and elsewhere, young men are the most violent sex/age class regardless of who their victims are (Wilson and Daly 1985, 1994; Daly and Wilson 1990; Hirschi and Gottfredson 1983), so one might hypothesize that the man's age is more relevant to the risk of violence against wives than the woman's. But although the Canadian uxoricide data indicate that risk is indeed a decreasing function of the husband's age (Figure 1B), there is no indication that this relationship is stronger than that for the wife's age (Figure 1A). As for nonlethal violence, the survey data indicate a very similar age-related decline whether rates are computed relative to wife's age (Figure 1C) or husband's (Figure 1D).

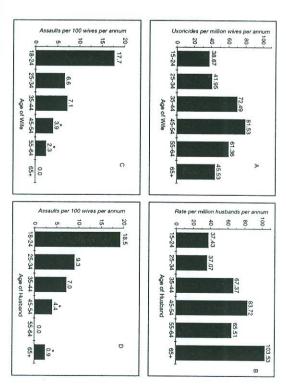
In commonlaw unions (Figure 2), the rates of both lethal and nonlethal violence against wives are substantially higher at all ages than in registered unions (Figure 1). However, the agerelated pattern of uxoricide risk is markedly different: in commonlaw unions, middle-aged wives incur the greatest risk (Figure 2A). This pattern is not replicated in the Violence Against Women Survey data on nonlethal assaults, however: here, the commonlaw age pattern looks very like that for registered unions, with risk declining monotonically (Figure 2C).

Again, one may ask whether the age patterns in commonlaw unions merely reflect the ages of husbands. Uxoricide rates do not show exactly the same pattern for age of husband as for age of wife, mainly because rates for men over 65 years of age increased rather than decreased (Figure 2B). In the case of

nonlethal assaults, the risk pattern in relation to the husband's age (Figure 2D) again parallels both that for the wife's age (Figure 2C) and the registered marriage data (Figure 1).

Figure 2

Comparison of age-specific rates of lethal and nonlethal assaults in commonlaw marriages. Uxoricides per million wives per annum as a function of wife's age (A) and husband's age (B) in Canada 1974-1992. Nonlethal assault rates per hundred wives per annum as a function of wife's age (C) and husband's age (D) in Canada 1993.



*Unreliable estimate because of small sample size.

Age disparity

"May-December marriages" are remarkably prevalent among spousal homicides (Daly and Wilson 1988b), but the possible relevance of age disparity to marital solidarity and conflict is virtually unstudied. In Canada, between 1974 and 1992, 12.5% of uxoricidal husbands were more than 10 years older than their wives, in contrast to just 5.2% of Canadian coresiding husbands in the 1981 census and 5.3% in the 1991 census. The wife was six years or more older than the husband in 7.5% of the uxoricides, in contrast to 2.4% of all coresiding Canadian wives in the 1981 census and 2.8% in the 1991 census.

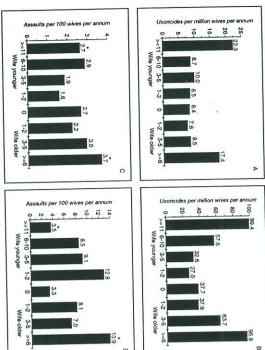
Figures 3A and 3B show that uxoricide risk is a U-shaped function of age disparity, both in registered marital unions and in commonlaw unions. (For similar patterns in earlier subsets

States (Mercy and Saltzman 1989). of these data, see Daly and Wilson 1988b; Wilson, Daly, and Wright 1993). A similar pattern has been shown in the United

Figure 3

assaults by husbands against wives in registered and commonlaw Comparison of age-disparity-specific rates of lethal and nonlethal unions (A) and commonlaw unions (B) in Canada 1974-1992. Uxoricides per million couples per annum in registered

Nonlethal assault rates per hundred couples per annum in registered unions (C) and commonlaw unions (D) in Canada 1993



*Unreliable estimate because of small sample size

or commonlaw unions, according to the 1993 survey (Figures characterized 5% of those 277 couples (6% for the weighted esti-5.3% according to the 1991 census), whereas such a disparity 5% for the weighted estimate for all Canadian couples versus than 10 years older in 4.9% of the 8,385 coresiding couples (and 3C and 3D). For survey respondents, the husband was more effect of age disparity in nonlethal violence in either registered within the past year. mate) in which the husband had been violent toward his wife Surprisingly, there is little or no evidence of a comparable

Are demographic risk markers merely correlates of household income?

couples and commonlaw unions are poorer than registered for violence against wives. As noted above, poverty is evidently an important risk factor Young couples are poorer than older

> advantaged economic circumstance of risk as a function of age and type of union merely reflect discioeconomic status is of primary importance, and that patterns and in the sample of women responding to the 1993 Violence Against Women Survey. Thus, one might hypothesize that sounions, both in the Canadian population-at-large (Norland 1985)

Estimated average household income, in thousands of dollars, in relation to violence in the marriage and demographic risk markers Table 4

(e)	Violence in past year	Violence before past year	No violence	All women in marital unions
Overall	\$45.4 (254)	\$48.3 (970)	\$48.9 (6068)	\$48.7 (7338)
Type of union				
Registered	50.2 (166)	49.1 (879)	49.1 (5330)	49.1 (6419)
Commonlaw	36.1 (88)	40.9 (91)	47.3 (738)	45.8 (919)
Age of wife				
18-24	29.1 (46)	32.3 (31)	37.6 (339)	36.4 (418)
25-34	43.8 (103)	46.5 (282)	49.1 (1759)	48.5 (2154)
35-44	54.8 (71)	55.5 (326)	55.6 (1856)	55.5 (2266)
≥ 45	51.8 (34)	45.5 (331)	45.5 (2114)	45.5 (2500)
Age difference				
Husband ≥ 11 years older	58.8 (8)*	47.4 (50)	43.7 (262)	44.7 (321)
Husband 6-10 years older	53.8 (40)	46.9 (126)	46.0 (855)	47.1 (1028)
Husband 3-5 years older	40.3 (57)	46.8 (253)	47.8 (1455)	47.4 (1776)
Husband 1-2 years older	44.4 (61)	50.2 (267)	50.7 (1631)	50.5 (1970)
Same age	55.3 (32)	49.1 (110)	51.1 (739)	50.9 (886)
Wife 1-2 years older	42.2 (25)	51.4 (100)	50.4 (670)	50.1 (803)
Wife 3-5 years older	30.7 (20)	45.0 (41)	47.2 (320)	46.3 (384)
Wife ≥ 6 years older	34.7 (11)*	41.6 (23)	46.7 (136)	45.2 (170)

^{*}Unreliable estimate because of small sample size

Source: Violence Against Women Survey. Statistics Canada. 1993 Numbers in parentheses represent the numbers of women in corresponding survey categories.

This hypothesis gains little support from further analyses of the Survey responses. Table 4 presents the weighted estimated average household incomes for women who did or did not report violence in the present relationship, both for the sample as a whole and for various demographic breakdowns thereof. In general, those who reported violence indeed tended to have somewhat lower incomes than those who did not, and those who had experienced violence within the last year tended to have somewhat lower incomes than those who had experienced violence only in the more distant past. However, these economic differences between assaulted and other wives are not large across the sample as a whole, and are characteristic of commonlaw but not registered marriages and of younger but not older wives.

Attempts to limit autonomy

As noted earlier, interviewees' affirmations of "autonomy-limiting behaviour" by their husbands were associated with reports of violent acts (Tables 1 and 2). Furthermore, the autonomy-limiting index was much higher for wives who reported recent violence (within the past year) than for those who reported only previous violence (more than a year ago) in that relationship (Table 5). These results further support the hypothesis of psychological links between men's efforts to control and monopolize their wives and violence against wives.

We have proposed that violence against wives varies in relation to demographic and situational variables which reflect potential threats to men's exclusive marital entitlements. If, for example, registration of marriage provides a cue of a wife's commitment and/or of social recognition of the union, then men's sexually proprietary concerns are likely to be less frequently or less intensely aroused in registered marriage than in commonlaw marriage. We therefore anticipated that autonomy-limiting behaviour would vary in relation to the demographic variables, in much the same ways as reported violence varies.

Table 5 summarizes variation in the autonomy-limiting index in relation to reports of violence and the demographic variables analyzed above. There are two main conclusions. First, within each demographic category, the mean index value was highest for those women who reported violence in the past year, intermediate for those who reported violence by current husbands prior to the past year, and lowest by far for women who had not experienced violence in the present relationship. Secondly, within

each of the three groups of women categorized according to their experience of violence, the autonomy-limiting index varies relatively little between demographic categories. However, these index values do vary in relation to age, age disparity, and type of union within the total sample of wives, and the patterns of variation are consistent with those for violence (Table 3 and Figures 1-3).

Table 5Average values of the autonomy-limiting index for coresiding wives in relation to violence in the marriage and demographic risk markers.

	Violence in past year	Violence before past year	No violence	All women in marital unions
Overall	1.59 (277)	0.82 (1041)	0.17 (6990)	0.30 (8385)
Type of marital	union			
Registered	1.51 (178)	0.81 (944)	0.16 (6171)	0.28 (7363)
Commonlaw	1.53 (99)	0.85 (97)	0.21 (819)	0.41 (1022)
Age of wife				
18-24	1.64 (54)	0.68 (34)	0.22 (381)	0.41 (471)
25-34	1.55 (106)	0.86 (294)	0.18 (1897)	0.33 (2309)
35-44	1.50 (77)	0.62 (348)	0.16 (2064)	0.26 (2509)
≥ 45	1.36 (40)	0.93 (365)	0.16 (2648)	0.28 (3096)
Age difference				
Husband ≥ 11 years older	1.66 (10)*	1.21 (54)	0.32 (303)	0.46 (368)
Husband 6-10 years older	1.20 (43)	0.84 (142)	0.18 (996)	0.30 (1191)
Husband 3-5 years older	1.66 (60)	0.92 (276)	0.16 (1691)	0.31 (2044)
Husband 1-2 years older	1.45 (66)	0.76 (284)	0.15 (1839)	0.26 (2209)
Same Age	1.28 (32)	0.79 (114)	0.19 (844)	0.28 (1000)
Wife 1-2 years older	1.86 (31)	0.54 (106)	0.13 (779)	0.26 (928)
Wife 3-5 years older	1.70 (23)	0.66 (42)	0.13 (373)	0.32 (444)
Wife ≥ 6 years older	1.64 (12)*	1.08 (23)	0.23 (165)	0.38 (201)

^{*} Unreliable estimate because of small sample size.

Numbers in parentheses represent the numbers of women in corresponding survey categories. Source: Violence Against Women Survey. Statistics Canada, 1993

In addition to consideration of these demographic factors, household income may also be relevant to variations in the autonomy-limiting index values. A man's poverty, all else being equal, reduces his attractiveness as a marital partner and coparent; chronic economic failure increases the probability of divorce and reduces the probability of remarrying. If control and denigration of a wife are effective in deterring her personal autonomy and if economically disadvantaged husbands are at risk of marital desertion, then efforts to limit a wife's autonomy may occur. A logistic regression analysis in which the dependent variable was affirmation of one or more autonomy-limiting items revealed that low household income was the strongest predictor (p < .0001), with additional significant effects of wife's youth (p = .0069), and absolute age disparity (p = .0124).

commonlaw status each made highly significant (p < .0001) with the autonomy-limiting index treated as an independent predictors of the distinction between marriages in which violence significantly associated. Autonomy-limiting efforts may actually violence and autonomy-limiting behaviour were themselves separate contributions to the prediction of violence within the variable. Autonomy-limiting behaviour, wife's youth, and had occurred in the past year and those in which it had not, income-related biases in the interpretation or divulgence of these violence, but it may also be the case that there are differential be more strongly affected by socioeconomic status than is household income is a highly significant predictor of autonomyturther significant contributions to prediction. The fact that past year, whereas age disparity and household income made no two sorts of experiences limiting behaviour but not of past violence is puzzling, since An additional logistic regression was conducted to assess

The autonomy-limiting index was by far the best predictor (i.e., the strongest correlate) of the violence, but its treatment as an independent variable in this analysis does not of course suggest that it is causally implicated in the occurrence of violence. Instead, we interpret these correlated affirmations of the autonomy-limiting behaviours and of violence as parallel manifestations of certain husbands' efforts to exert coercive

Conclusions

The uxoricides reported in this paper represent 11.4% of all homicide victims in Canada in 1974-1992. In 1992, 88 wives were slain (and 75 per annum on average over the 19-year period). Extrapolating from the 1993 Violence Against Women Survey, it is estimated that some 198,000 Canadian women experienced some form of physical violence or threat of violence from a coresiding male partner within the preceding year. Thus, for each Canadian wife slain by her husband in a recent year, about 2.250 evidently experienced violence of the sort disclosed by Survey respondents.

We anticipated that lethal and nonlethal violence would exhibit parallel patterns of risk in relation to demographic factors, and this expectation was largely, but not entirely, upheld. In particular:

- 1. Wives incurred much greater risk of both lethal and nonlethal violence in commonlaw marital unions that in registered unions.
- 2. In registered unions, the risks of lethal and nonlethal violence declined in similar fashion in relation to the wife's age. In commonlaw unions, however, uxoricide risk increased until middle-age, whereas the rate of nonlethal violence declined in much the same ways as in registered unions. Ages of husbands and wives are of course highly correlated, impeding assessment of their possible separate relevances to risk.
- 3. Uxoricide rates increased sharply as the age disparity of marital partners increased, in both registered and commonlaw unions, but there was no apparent relationship between age disparity and rates of nonlethal violence.

It is not obvious why lethal and nonlethal violence exhibit such different patterns of risk in relation to age disparity and, in commonlaw unions, in relation to wife's age. One possibility is that certain rare risk factors for very severe violence are relatively prevalent in age-disparate couples and older commonlaw couples, engendering relatively high uxoricide rates, but that these marriage types and these hypothetical risk factors are too rare to have been tapped in the Violence Against Women Survey.

about past violence has been included in the Homicide Survey commonlaw couples than of other uxoricides, but information variety that is motivationally unrelated to nonlethal assault. This older commonlaw couples are disproportionately of some distinct motivationally distinct: such homicides were neither more nor uxoricides in age-disparate and older commonlaw couples are Survey would seem to speak against the hypothesis that explored. only since 1991, and its validity and utility have yet to be were less characteristic of uxoricides in age-disparate and older possibility would gain support if a history of nonlethal violence means of assault than other uxoricides.) less likely to have been effectuated by beating or other hands-on Another possibility is that uxoricides in age-disparate and (One reliably coded data element in the Homicide

not assault their wives merely because the latter are handy says more about the man's psychology and about his inclination her age, are germane to her risk of victimization. However, this and Wilson 1982) kill his wife than to kill any other member of his household (Daly similarly at risk, but, in fact, a man is very much more likely to that were the case, then other equally available targets would be targets when violent men happen to be frustrated or angry. If to control and monopolize her than about the woman. Men do Our results indicate that a woman's attributes, especially

support from the present study's finding that violence against maintaining uxorial proprietary claims. This interpretation gains against wives, whether fatal or not. Evidence in support of this proprietariness is the main substantive issue behind violence wives and autonomy-limiting behaviours go hand in hand threats are best understood in terms of their coercive utility in Wilson and Daly (1993a; 1993b). We suggest that violence and interpretation is reviewed by Daly and Wilson (1988b) and by It is a widespread view, which we endorse, that male sexual

and violence raises the question of whether the former might be whether such items might be predictive of escalated violence and violence has yet occurred. Future research can also clarify some differences in demographic risk patterns in nonlethal and lethal risk in couples with a history of violence. The discovery of limiting behaviours might be danger signals in couples where no literally predictive of the latter, that is, whether these autonomylethal violence may also hold some potential for predicting which The strong relationship between the autonomy-limiting items

> misjudge their danger. women themselves are the best judges even though they too may reliable means to predict the risk of violence, we believe that the assaulted wives are especially in lethal danger. Until there is a

Notes

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- 2 Still-married women who were not residing with their husbands at the time of the interview because of employment or other reasons were excluded.

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