

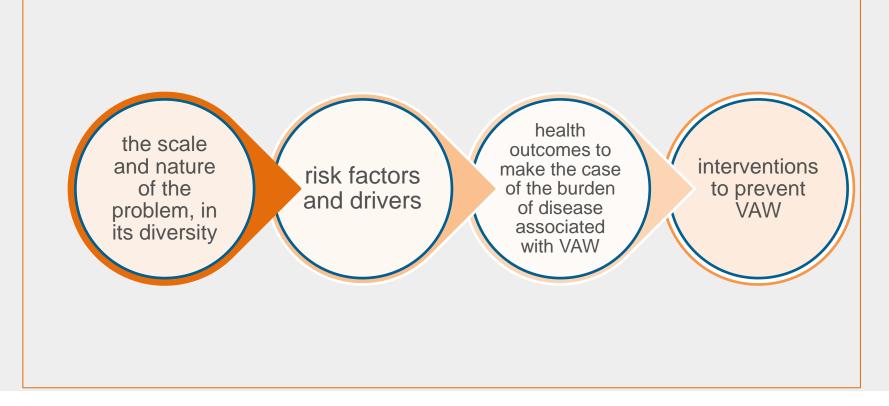
THE ROLE OF EPIDEMIOLOGY IN BUILDING RESPONSES TO VIOLENCE:

THE CASE OF VIOLENCE AGAINST WOMEN

Rachel Jewkes, Executive Scientist, South African Medical Research Council



Introduction

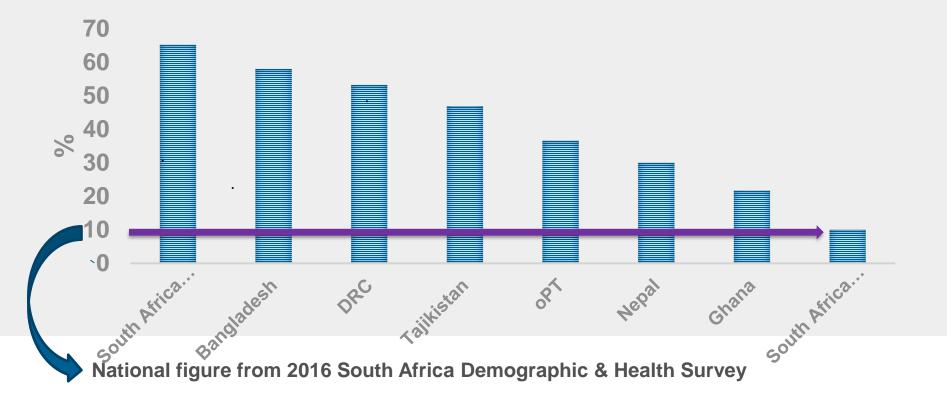


Violence against women: many different forms, clarifying definitions, reporting periods and measurement is essential

Intimate femicide

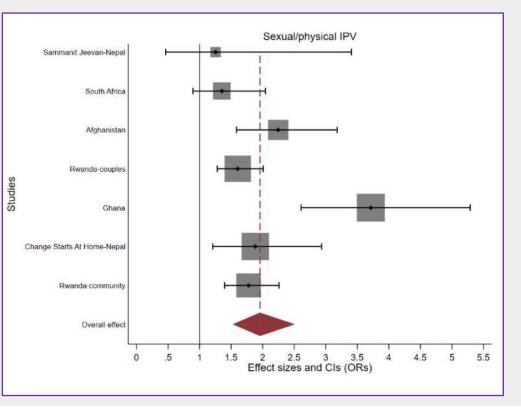
Intimate partner violence: physical, sexual, emotional, economic, controlling behaviour Non-partner sexual violence incl. rape, child sexual abuse, sexual harassment

Other forms of GBV: trafficking for sex, child marriage, ukuthwala etc PREVALENCE MAY VARY MORE BETWEEN THAN ACROSS SETTINGS: Women's experience of physical or sexual violence in the past 12 months (data from research studies conducted as part of the What Works to Prevent Violence Against Women and Girls? Global Programme)



Women and girls with disabilities

- Using the Washington Group
 questions
- 2 x increased risk that women and girls with disabilities will be subject to sexual and/or physical IPV in the past 12 months
- Analysis based on data from 7 studies in 5 countries



NATIONAL HOMICIDE SURVEILLANCE USING MULTISTAGE, STRATIFIED, CLUSTER SAMPLES

Methods: Sampling frame is a listing of medico-legal laboratories (MLLs) in the country, stratified by size; random sample of MLLs is drawn, all injury deaths (potentially) related to murder in a calendar year identified; interview with police to gather information from the investigation

		Male			
	Number (95%CI)	Percentage (95%CI)**	Age-standardised rate/ 100 000 population (95% CI)*		
$\frac{\text{All homicides}}{(n = 19477)^*}$	<u>16835</u> (15735, <u>17936)</u>	$\frac{86.7 \ (86.2,}{87.2)}$	<u>59.7 (55.5, 63.9)</u>	<u>6.9 (6.4, 7.4)</u>	

be located for 502 femicides in 1999, 38 in 2009 and 3/9 in 2017.



NATIONAL SURVEILLANCE OF CHILD ABUSE AND NEGLECT DEATHS

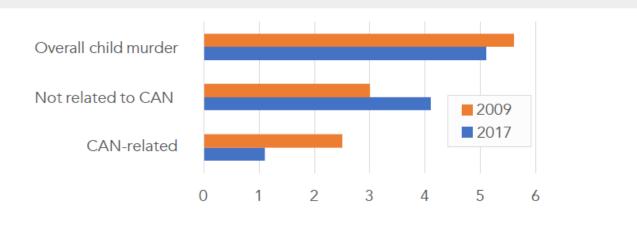


Figure 2: Child murder rate: number of murders per 100 000 children, comparing CAN-related and others, 2009 and 2017



Using epidemiology to understand the impact of VAW on women's health Evidence from the cohort of the Stepping Stones RCT : physical/sexual IPV exposure and having a highly controlling partner both elevate HIV acquisition by about 50%

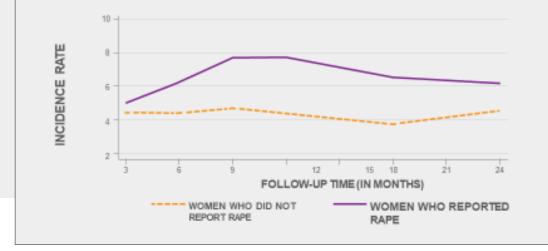
GBV and gender inequity in relationships increase South African women's risk of HIV acquisition (Jewkes et al, The Lancet 2010)

	IRR	95%CI	P value
Low power in relationship	1.51	1.05, 2.17	0.027
Experience of >1 episode of physical and/or sexual IPV	1.51	1.04, 2.21	0.032

Post-rape HIV incidence (Abrahams et al 2020)

The RICE study : cohort of 852 women post-rape & 852 controls

HIV Incidence over the follow up period: comparing women who did and did not report rape



Rape exposed women were 60% more likely to acquire HIV compared to women in the control group and seroconversion was also associated with more exposure to physical IPV (p=0.03)

> Hazard Ratio: 1.58 (95% Cl 1.01-2.47)

Understanding risk factors and drivers of IPV and rape perpetration

Drivers of gender-based violence

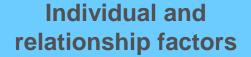
(Gibbs et al 2020)

Structural factors

Gender inequality: patriarchal privilege and disempowerment of women

Normative use of violence in multiple aspects of social relations

Poverty and low education



Poor communication and relationship conflict responses

Poor mental health & substance abuse

Child abuse & trauma

IPV

Conflict and post-conflict

Risk factors for rape perpetration

(UN Multi-country study on men and violence in Asia and the Pacific, the Lancet Global Health 2013)

	Single perpetrato	r rape	Multiple perpetrator rape	
	Relative risk ratio (95% CI)	p value	Relative risk ratio (95% CI)	p value
Social characteristics				
No high school	NS	NS	1.42 (1.06–1.92)	0.021
Present food insecurity	NS	NS	1.42 (1.09–1.85)	0.009
Ever married or cohabited	1.49 (1.08–2.07)	0.017	NS	NS
Victimisation history				
Childhood sexual abuse	1.00 (1.31-2.09)	-0.0001	1.74 (1.32–2.28)	<0.0001
Childhood physical abuse	1.30 (1.05–1.62)	0.018	NS	NS
Childhood emotional abuse or neglect	1.80 (1.26–2.55)	0.001	2·27 (1·46-3 55)	<0.0001
Any homophobic abuse or violence	NS	NS	2.85 (1.71–4.73)	0.0001
Psychological factors and substance misus	e			
Alcohol problems	1.70 (1.38–2.08)	<0.0001	1.46 (1.08–1.98)	0.015
Empathy scale	0.85 (0.78–0.92)	<0.0001	0.81 (0.72–0.92)	0.001
Sexual and relationship practices				
Any physical IPV perpetration	1·71 (1·35–2·17)	<0.0001	2·01 (1·50–2·70)	<0.0001
Number of sexual partners				
0 or 1	1.00		1.00	
2–3	4.05 (3.11-5.28)	<0.0001	2·13 (1·53–2·96)	<0.0001
≥4	6.05 (4.50-8.15)	<0.0001	4.11 (2.92–5.78)	<0.0001
Ever had sex with a sex worker or engaged in transactional sex	2.58 (2.07–3.21)	<0.0001	4.67 (3.37-6.47)	<0.0001
Participation in violence outside the home	and drug use			
Involved in fights with weapons	1.76 (1.38–2.24)	<0.0001	1.69 (1.24–2.32)	0.001
Involvement in gangs	NS	NS	2.38 (1.68–3.38)	<0.0001
Drug use in the past year	NS	NS	1.78 (1.20–2.64)	0.005
Only significant associations are shown. NS=non-	-significant. IPV=intim	nate partner v	violence.	

Using Structural Equation Modelling (SEM) to elucidate pathways – example of women's use of violence in parenting

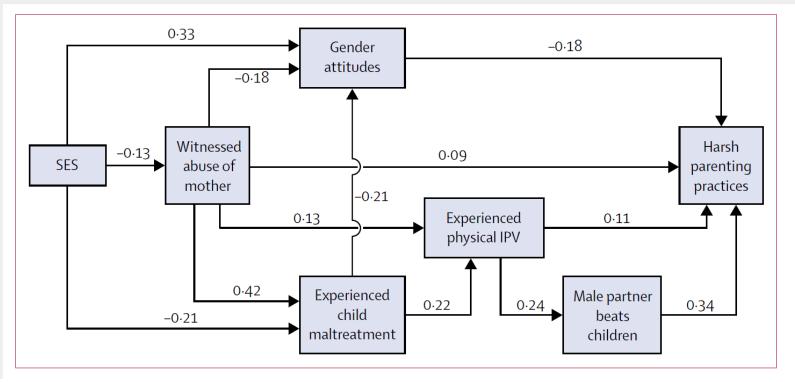
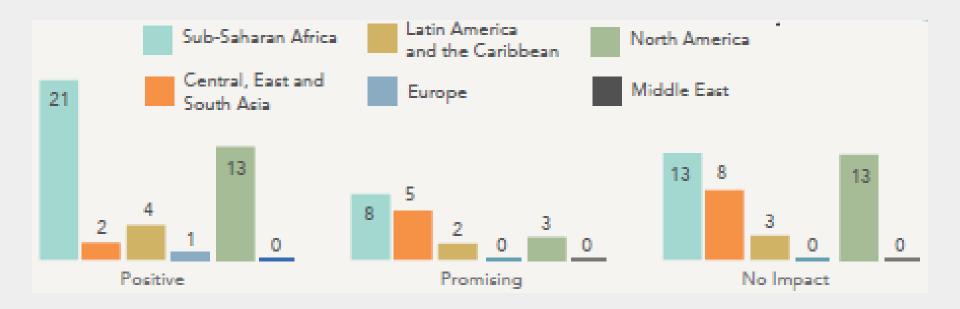


Figure 2: Structural equation model of pathways to women's use of harsh parenting practices IPV=intimate partner violence. SES=socioeconomic status.

Using epidemiology to address VAW prevention

Review of VAW prevention RCTs up to 2018: More of the evidence comes from LMICs than HICs



Lessons from studying the control arm across VAW RCTs

Table 3. Mean change in the control arms of across studies, all types of IPV and genders.

	Mean change in percentage points baseline – endline (95%Cl)	Mean largest change in percentage points between two time points (95%Cl)	Mean proportionate change (baseline to endline)	Mean largest change as a proportion of baseline
All studies (12 datasets)	7.01 (3.68, 10.33)	8.39 (5.08, 11.70)	0.175	0.216
All studies with no active control arms (10 datasets)	3.21 (1.59,4.83)	4.88 (0.94, 8.83)	0.134	0.177
Cohort studies with no active control arms (5 datasets)	4.00 (0.38, 7.62)	6.29 (0, 17.04)	0.13	0.171
Repeat cross-sectional (5 datasets)	2.47 (0, 5.56)	3.57 (0,10.22)	0.137	0.182



Ten elements of design and implementation of more

Rigorously planned, with a robust theory of change, rooted in knowledge of local context

Use group-based participatory learning methods, for adults and children, that emphasise empowerment, critical reflection, communication and conflict resolution skills building

Optimal intensity: duration and freq overall programme length enables t experiential learn

for

tir

eng

Effective design and implementation elements in interventions to prevent violence against women and girls

Vorks

Based on theories of gender and social empowerment theories that view behaviour change as a collective rather than solely individual process and foster positive interpersonal relations and gender equity

work

and

ilies

ser-

all

ents

oals



Integrate support for survivors of violence

eers are selected for their gender and non-violence behaviour, and are ined, supervised and supported

DESIGN

CONCLUSIONS

- A public health approach has been invaluable in shaping our agenda of the last 30 years on VAW
- Our epidemiology has been founded on feminist principles and a key element of our power to advance knowledge has been seamlessly linking social science and epidemiology
- Key elements of our success have been a willingness to push methodological boundaries, working in collaborative and multidisciplinary teams, having a strong theoretical base, and pushing for qualitative research to accompany the quantitative





The South African Medical Research Council

recognizes the catastrophic and persisting consequences of colonialism and apartheid, including land dispossession and the intentional imposition of educational and health inequities.

Acknowledging the SAMRC's historical role and silence during apartheid, we commit our capacities and resources to the continued promotion of justice and dignity in health research in South Africa.

