

Primary education and adult women's experience of intimate partner violence: Quasi-experimental evidence from sub-Saharan Africa

Amber Peterman, Julia Behrman & Tia Palermo

Sexual Violence Research Initiative Form

September 2015

- Global evidence shows intimate partner violence (IPV) is pervasive and costly to individuals and society
- Research agenda has turned to “what works,” for prevention—with particular attention to:
 - Primary prevention
 - Scalable interventions
 - Cost-effective interventions
- Education and empowerment interventions have been cited as “promising” (Ellsberg et al. 2014; Garcia-Moreno et al. 2014)

- Generally education found to be protective against IPV (Abramsky et al. 2011; Kishor & Johnson 2006)
- However, not universal
 - sometimes education is a risk factor
 - “Inverted U” relationship

Caveats:

- Few studies can identify a causal relationship
- Virtually no longitudinal studies/program evaluations
- Systematic reviews focus on education as “behavior change and community interventions” -- Leaving out standard government schooling

1. Use quasi-experimental methods to explore relationship between primary education and later experience of IPV in Malawi and Uganda among young adult women aged 22 – 29.
2. Explore pathways through which impacts may (or may not) be realized

1. Increase bargaining power inside partnership



Ambiguous effects on IPV (depending if IPV is extractive, instrumental or expressive)

2. Delay age at marriage



Decrease in IPV (younger age is a risk factor for IPV)

3. Increase quality of marriage match



Decrease in IPV as partnership is more likely to be equitable

Women aged 22 - 29 from Demographic and Health Surveys:

- Malawi (2004/2010), Uganda (2006/2011)

Indicators:

- **IPV**: Any emotional, physical or sexual IPV
- **Schooling**: Self-reported grade attained

Identification:

- Implementation of Universal Primary Education (UPE) policies in the mid-1990s **as natural experiments** to identify casual impacts of education on IPV using an instrumental variable (IV) approach.
- UPE highly successful in improving enrollment in both countries – particularly of girls

$$(1) \mathbf{Education}_i = \alpha_0 + \alpha_1 \mathbf{UPE}_i + \dots \alpha_k \mathbf{X}_k + v_i$$

$$(2) \mathbf{IPV}_i = \beta_0 + \beta_1 \widehat{\mathbf{Education}}_i + \dots \beta_k \mathbf{X}_k + \varepsilon_i$$

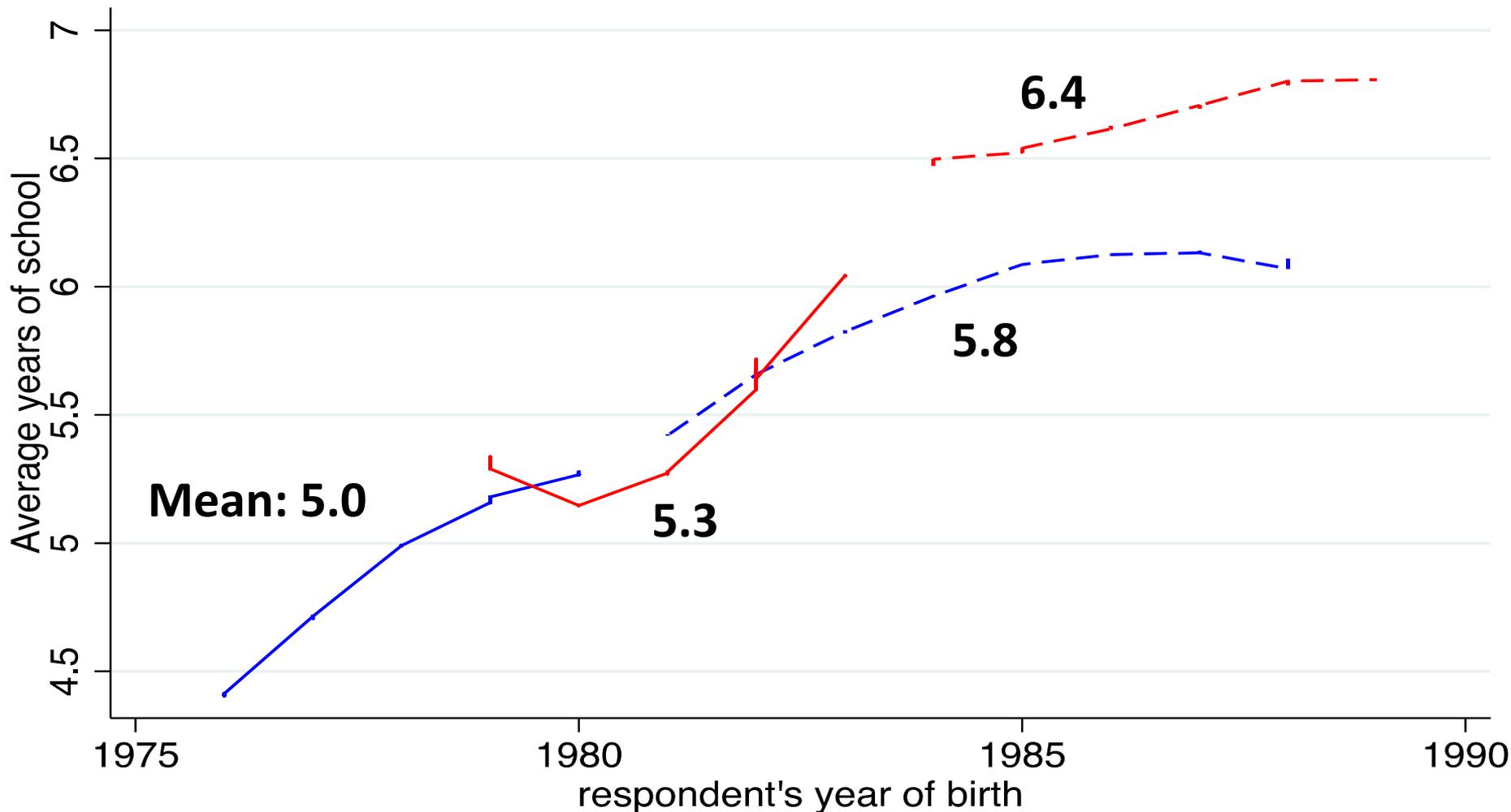
UPE = Partial or full exposure to UPE at during primary years (13/12 or younger). “Randomly” assigned by birth cohort if girl is on track for age in public education system.

\mathbf{X}_k = Controls for ethnic group and religion

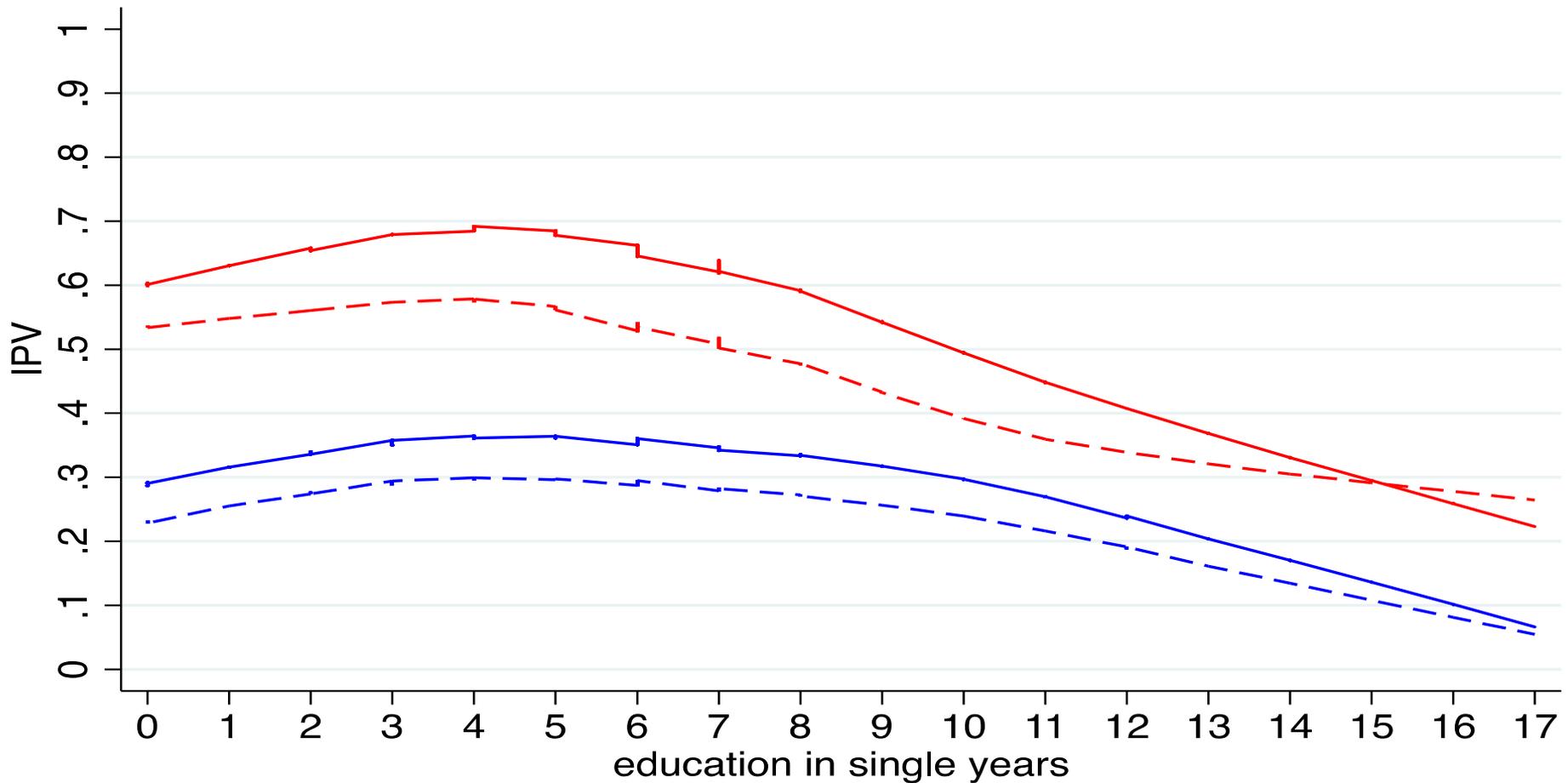
Linear Probability Models. Standard errors clustered at the primary sampling unit level.

Trends: UPE and grade attainment

(7)



Lowess plots of IPV and educational attainment (8)



Uninstrumented (naïve) probit results

(9)

VARIABLES	(1)	(2)	(3)	(4)
	Malawi IPV lifetime	Uganda IPV lifetime	Malawi IPV last 12 mo.	Uganda IPV last 12 mo.
Grades attained	-0.00* (0.00)	-0.02*** (0.00)	-0.00* (0.00)	-0.02*** (0.00)
Observations	5,159	1,025	5,159	1,025

Sample is among females aged 22 to 29 in DHS (Malawi 2004 and 2010; Uganda 2006 and 2011). All models include controls for religion and ethno-linguistic background. Robust standard errors are clustered at the cluster level.

*** p<0.001, ** p<0.01, * p<0.05

Main Instrumental Variables (IV) results (10)

Panel A	(1)	(2)		
	Malawi	Uganda		
VARIABLES	Grade	Grade		
	attained	attained		
Exposure to UPE at age 12/13	0.68*** (0.10)	1.15*** (0.25)		
Observations	5,159	1,025		
R-squared	0.08	0.19		
Panel B.	(1)	(2)	(3)	(4)
	Malawi	Uganda	Malawi	Uganda
VARIABLES	Lifetime IPV	Lifetime IPV	IPV 12 mo.	IPV 12 mo.
Grades attained	0.09*** (0.02)	-0.10** (0.03)	0.10*** (0.02)	-0.07* (0.03)
Observations	5,159	1,025	5,159	1,025

Sample is among females aged 22 to 29 in DHS (Malawi 2004 and 2010; Uganda 2006 and 2011). All models include controls for religion and ethno-linguistic background. Robust standard errors are clustered at the cluster level.

*** p<0.001, ** p<0.01, * p<0.05

- Malawi: Stratify on education
 - 1) no education or less than primary,
 - 2) completed primary and above.
- Results:
 - Sample (1) schooling => increases in IPV
 - Sample (2) schooling => decreases in IPV
- Malawi and Uganda: Pathways
 - 1) Work for cash, decision-making
 - 2) Age first sex, age at marriage
 - 3) Partners grade attainment, partners education

- Education and IPV relationship complex and non-monotonic
- Evidence of ‘backlash’ among low levels of education in Malawi
 - Consistent with findings from other economic empowering interventions—however not universal
- Need impact evaluations and longitudinal evidence to better understand how to overcome initial power dynamics when women are disempowered in different intervention typologies

Thank you!

We are grateful for funding from Sexual Violence Research Initiative (SVRI), Medical Research Council (MRC) South Africa

Contact: tmpalermo@unicef.org

Works cited

- Abramsky T, et al. (2011). What factors are associated with recent intimate partner violence? findings from the WHO multi-country study on women's health and domestic violence. *BMC Public Health*, 11(1), 109.
- Ellsberg M, et al. (2014). Prevention of violence against women and girls: what does the evidence say? *The Lancet* (published online 11/21/2014).
- Garcia-Moreno C, et al. (2014). Addressing violence against women: A call to action. *The Lancet* (published online 11/24/2014).
- Kishor S, & K Johnson (2006). Reproductive health and domestic violence: are the poorest women uniquely disadvantaged? *Demography* 43(2): 293-307.