Appendix I: The tool used to assess IPV in Ethiopian Demographic and Health Survey 2016

Women were asked whether or not they had experienced the following acts within their relationship, perpetrated by their husband/partner for currently married women and recent husband/partner for previously married women (CSA, 2017):

- 1. Push you, shake you, or throw something at you?
- 2. Slap you?
- 3. Twist your arm or pull your hair?
- 4. Punch you with his/her fist or with something that could hurt you?
- 5. Kick you, drag you, or beat you up?
- 6. Try to choke you or burn you on purpose?
- 7. Threaten or attack you with a knife, gun, or any other weapon?
- 8. Physically force you to have sexual intercourse with him even when you did not want to?
- 9. Physically force you to perform any other sexual acts you did not want to?
- 10. Force you with threats or in any other way to perform sexual acts you did not want to?
- 11. Say or do something to humiliate you in front of others?
- 12. Threaten to hurt or harm you or someone close to you?
- 13. Insult you or make you feel bad about yourself?

Questions 1-4 measure less severe physical spousal violence, 5-7 sever physical spousal abuse, 8-10 sexual IPV and 11-13 emotional IPV.

Group	Variable	Category/Measurement/ definition
Maternal	Age at birth (years)	The age of the woman during the time she gave birth to the index neonate as a continuous variable
characteristics	Educational status	Maximum educational level categorized as uneducated, primary and secondary+
	Employment status	employed/not employed based on their response to "have you been employed in the last 12 months"
	Place of residence	Rural, urban
	Region	Region of residence in 11 regions
	Number of living	Number of living children women ever had: grouped as one or less, 2-3, 4-5 and 6 or more
	children	
	Number of previous	Number of adverse events experienced which is defined as either pregnancy loss (abortion, stillbirth)
	adverse events	or child mortality; count data generated
	Substance abuse	Classified 'yes' if respondent reported drinking any alcohol, khat chewing or smoking and 'no'
		otherwise. 'Khat' is a green leafy vegetable consumed as a stimulant.
	Decision making	Coded as 'yes' if she reported being involved in all decisions regarding her own health care, major
	autonomy	household purchases and visits to her family or relatives (CSA, 2017).
Paternal	Partner education	Maximum educational level of the partner categorized as uneducated, primary and secondary+
characteristics	Partner occupation	Partner's occupational status classified as not working, professional/business, agriculture,
		manual/services, others
Household	Access to media	If respondent reportedly read a newspaper, listened to the radio, or watched television; categorized as
characteristics		No, less than once a week, at least once a week

Appendix II: List of *control* variables, their categories and definitions

	Household wealth	Measured based on the number and kind of goods households have and housing characteristics (drinking
	index	water, toilet facility, flooring material and availability of electricity), and was generated using principal
		component analysis and classified into quintiles from 1 (very poor) to 5 (very rich) (CSA, 2017).
Maternal	Antenatal care	Women's antenatal care utilization categorized as no visit, at least one visit, \geq four visits
health care	Delivery care	Delivery assisted by physician, nurse, midwife, health officer, and health extension worker; categorized
Variables		as Yes/No
	Postnatal care	Women received check-up at least once within 48 hours after delivery by a skilled provider; categorized
		as Yes/No
	Tetanus toxoid	Women received at least two doses of the immunization during pregnancy; categorized as 'Yes/No'
	immunization	
Neonatal	Sex	Male/ female
related	Desiredness of the	'Yes' or 'no' based on women's self-report that "the child they deliver was not wanted or wanted after
characteristics	pregnancy	2 years of the time when they were pregnant"
	Multiple pregnancy	Singleton or \geq twin
	Birth order	Based on WHO criteria of ≤three (low birth order) / > three (too many children)
	Birth interval	Birth interval from the preceding birth categorized as < 2 years or ≥ 2 years
	Birth weight	Based on mother's report that the birth weight was in one of the following categories (below average,
		average, above average)
	Mode of delivery	Weather the delivery was assisted by caesarean delivery and classified as 'Yes/No'