

Supplementary Table 1. Sensitivity and specificity of iterative thematic analysis and neural network models

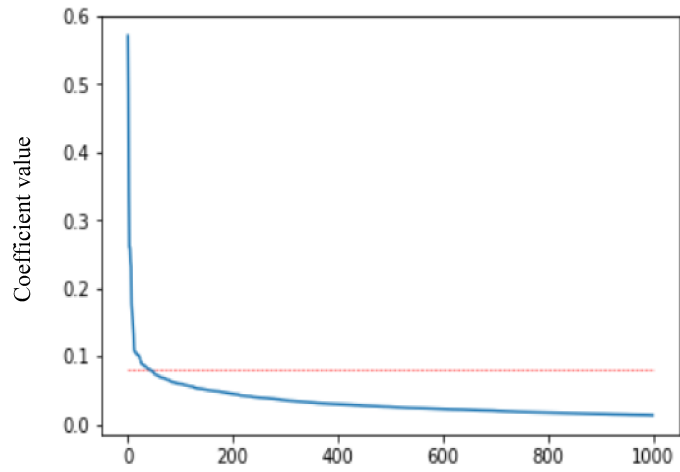
	Sensitivity	Specificity
Iterative Thematic Analysis		
Model 1	69.1994573	84.8868923
Model 2	63.7720488	76.7447457
Model 3	61.7367707	75.3008182
Model 4	61.8724559	74.8355527
Model 5	60.1085482	74.4184181
Neural network	70.963365	78.0683459

Supplementary Table 2. Themes that emerged in iterative thematic analysis and associated variables.

Theme	Variables
Experiences of/ exposure to violence	<ul style="list-style-type: none"> • Experienced any emotional violence • Experienced physical violence perpetrated by husband/partner • Respondent afraid of husband/partner most of the time • Respondent ever physically hurt husband/partner when he was not hurting her • Someone hurt respondent during pregnancy • Respondent's father perpetrated IPV • Someone other than husband physically hurt respondent
Sexual behavior	<ul style="list-style-type: none"> • Had sex with most recent partner at least a month ago • Times in last 12 months had sex with most recent partner : more than 10 times • Age at first sex : 15:17 years • Reason for not having sex recently is not because tired or not in mood • Relationship with most recent sex partner : spouse • Total lifetime number of sex partners: one • Number of sex partners, including spouse, in last 12 months: 1 • Time since last sex (in days): less than 30 days • Number of sex partners, excluding spouse, in last 12 months: 0
Decision-making and freedom of movement	<ul style="list-style-type: none"> • Getting medical help for self: getting permission to go is big problem • Person who usually decides what to do with money husband earns is husband/partner alone • Not at all allowed to go to places outside this village • Getting medical help for self: not wanting to go alone is not a big problem • Lived away from home for more than one month in last 12 months • Person who usually decides how to spend respondent's earnings is husband/partner alone • Person who usually decides on visits to family or relatives is respondent alone
Socio-demographics	<ul style="list-style-type: none"> • State: Bihar • Wealth index: Poorest • Belongs to scheduled caste • Relationship to household head: daughter • State: Haryana • Husband or Partner's education level: had no education • State: Jharkhand • Religion: Hindu • Respondent's mother tongue: Manipuri • Husband/Partner's occupation : skilled and unskilled manual

	<ul style="list-style-type: none"> • Wealth index - rural: poorer • Cohabitation duration: 10-14 years • State: Manipur • Highest educational level: Primary • Age: 30-34 years • Respondent's occupation: Services/Household and domestic
Access to media	<ul style="list-style-type: none"> • Frequency of listening to radio : almost every day • Frequency of watching television : almost every day • Source of information about AIDS is not newspapers/magazines
Health knowledge	<ul style="list-style-type: none"> • Believes that tuberculosis is spread by: sexual contact • Never heard of oral rehydration • Does not know that public: govt. dispensary could be a source of condoms • Has heard about STIs • Has seen family planning message on a wall painting or hoarding • Source of information about AIDS is not newspapers/magazines • Source of information about AIDS is work place • Believes that people can get HIV/AIDS from blood products or blood transfusions • Believes that ways to avoid HIV/AIDS is to limit sex to one partner/stay faithful to one partner • Knows that they can get a condom • Have been told by a health provider about how to deal with side effects of contraception
Health system interaction	<ul style="list-style-type: none"> • Getting medical help for self: getting permission to go is big problem • Getting medical help for self: getting money needed for treatment is big problem • Did not go for antenatal care during most recent visit to health center • Transport used by respondent to go to health facility for delivery : tempo/auto/tractor • Getting medical help for self: not wanting to go alone is not a big problem • Times met with an Auxiliary Nurse Midwife in last 3 months: none • Number of months pregnant when registered: one • Has sought treatment for diabetes • Services/matters talked about in last 3 months with a health provider: not about supplementary food • Has been told by a health provider about how to deal with side effects of contraception
Partner control	<ul style="list-style-type: none"> • Person who usually decides what to do with money husband earns is husband/partner alone • Husband's desire for children: husband wants more children • Person who usually decides how to spend respondent's earnings is husband/partner alone

Economic agency	<ul style="list-style-type: none"> • Has ever taken a loan, cash or in kind, from these programmes, to start or expand a business • Person who usually decides what to do with money husband earns is husband/partner alone • Getting medical help for self: getting money needed for treatment is a big problem • Person who usually decides how to spend respondent's earnings is husband/partner alone
Reproductive and maternal history	<ul style="list-style-type: none"> • During pregnancy, had difficulty with daylight vision • Had genital discharge in last 12 months • Baby was not immediately wiped dry and wrapped without being bathed after birth • Transport used by respondent to go to health facility for delivery: tempo/auto/tractor • During pregnancy, had convulsions not from fever • Number of months pregnant when registered: one • Has had a terminated pregnancy • Did not want pregnancy when became pregnant but wanted it later • Marriage to first birth interval: more than 25 months
Health status	<ul style="list-style-type: none"> • During pregnancy, had difficulty with daylight vision • Had genital discharge in last 12 months • During pregnancy, had convulsions not from fever • Has sought treatment for diabetes • Has had a terminated pregnancy
Substance abuse	<ul style="list-style-type: none"> • Husband/partner drinks alcohol • Someone smoked in respondent's home or presence, in last 30 days
Diet	<ul style="list-style-type: none"> • Never eats fruits • Occasionally takes milk or curd
Fertility preferences	<ul style="list-style-type: none"> • Husband's desire for children: husband wants more children • Did not want pregnancy when became pregnant but wanted it later



Supplementary Figure 1. Coefficient curve to identify knee-point (for Model 1 of iterative thematic analysis)