

# **INFANT, CHILD MORTALITY & DOMESTIC VIOLENCE IN INDIA**

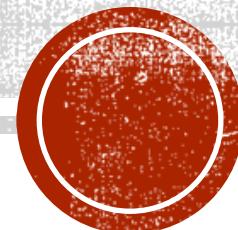
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26 April 2019



# **RESEARCH QUESTION**

**Is there a  
relationship  
between domestic  
violence, and  
infant and child  
mortality rates in  
India?**



# DHS INDIA 2015-16

Implemented by MoHFW, GoI

Funded by USAID, DFID, BMGF,  
UNICEF, UNFPA, MacArthur Foundation

Health & Family Welfare

- Clinical, Anthropometric, & Biochemical
- Household , Woman's, Man's & Biomarker Questionnaire

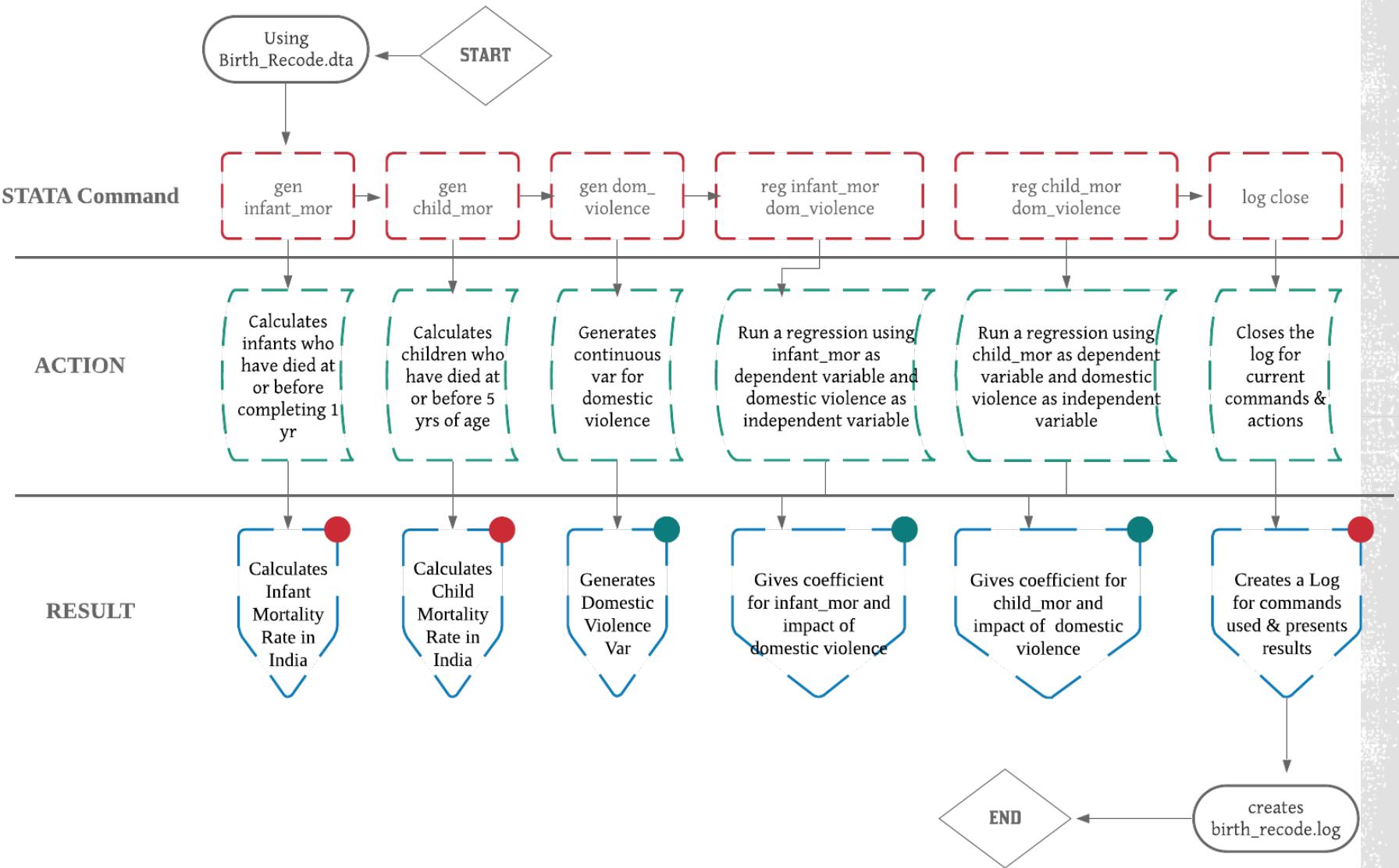
Sampling Size

- 157 districts with 30/70 rural urban split

Validation

- ourworldindata.org
- NFHS 4 Guide





# INDEPENDENT VARIABLES

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DOMESTIC  
VIOLENCE



WEALTH  
INDEX



EDUCATION  
OF MOTHER



HEIGHT OF  
MOTHER



URBAN/RURAL



# DEPENDENT VARIABLES

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INFANT MORTALITY



CHILD MORTALITY

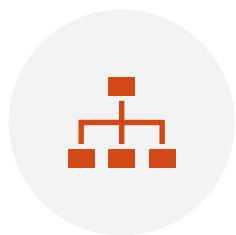


# DATA MANAGEMENT PLAN

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DATASET



STRUCTURE & NAMING



STORAGE



OPERATIONALIZATION  
DEFINITIONS

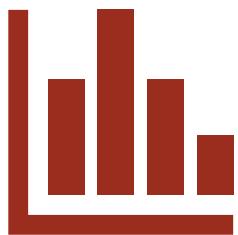


CODEBOOK



# **ANALYSIS**

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## **Descriptive Statistics**

Cross Tabulation & Summary  
Frequency & Cumulative Frequency Tables

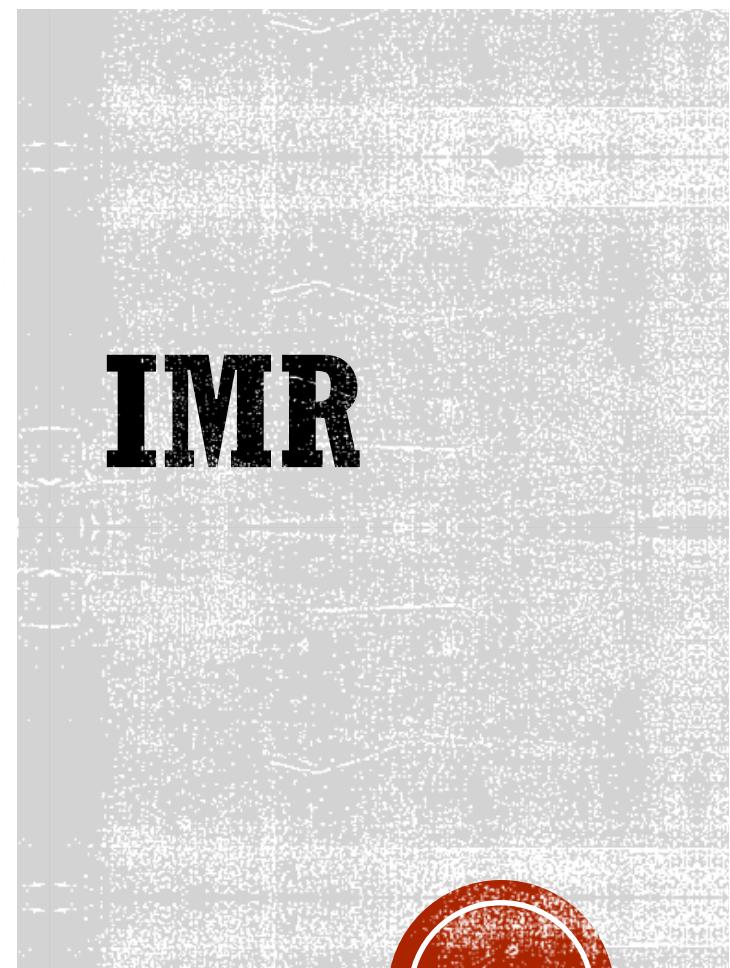


## **Causal Inference Statistics**

Linear Regression  
Correlation



infant_mor	Freq.	Percent	Cum.
Alive	1,201,164	91.30	91.30
Died before/on completing 1yr	66,158	5.03	96.33
.	48,295	3.67	100.00
Total	1,315,617	100.00	



	Model 1 b/se	Model 2 b/se	Model 3 b/se	IMM_DV b/se	IMF_DV b/se
dom_violence	<b>0.700***</b> (0.21)	<b>0.019</b> (0.20)	<b>0.011</b> (0.20)	<b>-0.018</b> (0.29)	<b>0.039</b> (0.25)
education in singl~s		<b>-1.940***</b> (0.16)	<b>-1.937***</b> (0.16)	<b>-1.824***</b> (0.22)	<b>-2.051***</b> (0.20)
wealth index		<b>-9.102***</b> (0.61)	<b>-8.612***</b> (0.68)	<b>-9.985***</b> (0.95)	<b>-7.238***</b> (0.83)
respondent's heigh~e		<b>-0.001</b> (0.00)	<b>-0.001</b> (0.00)	<b>-0.001</b> (0.00)	<b>-0.000</b> (0.00)
urban			<b>0.000</b> (.)	<b>0.000</b> (.)	<b>0.000</b> (.)
rural			<b>2.989</b> (1.81)	<b>0.502</b> (2.73)	<b>5.643**</b> (2.13)
Constant	<b>46.471***</b> (1.50)	<b>87.467***</b> (2.58)	<b>83.906***</b> (3.41)	<b>95.091***</b> (4.92)	<b>72.143***</b> (4.03)

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

## IMR

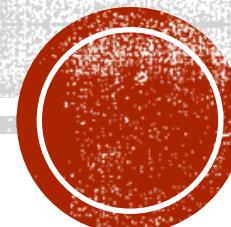
- DM is not statistically significant
- For females, rural areas is significant
- Education of Mother in Single Years & Wealth Index are statistically significant

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. corr infant_mor dom_violence  
(obs=219,897)
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	infant~r	dom_vi~e
infant_mor	<b>1.0000</b>	
dom_violence	<b>0.0117</b>	<b>1.0000</b>

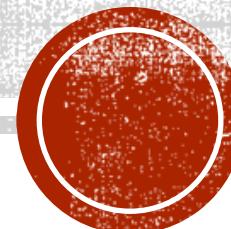
**IMR**

No correlation with  
domestic violence



child_mor	Freq.	Percent	Cum.
Alive	985,536	74.91	74.91
Died before/on completing 5yr	82,338	6.26	81.17
.	247,743	18.83	100.00
Total	1,315,617	100.00	

**CMR**



# CMR

Education of Mother & Wealth Index  
are statistically significant

	Model 1 b/se	Model 2 b/se	Model 3 b/se	CMM_DV b/se	CMF_DV b/se
dom_violence	<b>1.145***</b> (0.28)	<b>0.193</b> (0.26)	<b>0.182</b> (0.26)	<b>0.091</b> (0.36)	<b>0.284</b> (0.35)
education in singl~s		<b>-1.782***</b> (0.21)	<b>-1.775***</b> (0.21)	<b>-1.346***</b> (0.29)	<b>-2.242***</b> (0.27)
wealth index		<b>-17.525***</b> (0.80)	<b>-17.014***</b> (0.88)	<b>-18.014***</b> (1.20)	<b>-16.006***</b> (1.11)
respondent's heigh~e		<b>-0.001</b> (0.00)	<b>-0.001</b> (0.00)	<b>-0.002</b> (0.00)	<b>-0.000</b> (0.00)
urban			<b>0.000</b> (.)	<b>0.000</b> (.)	<b>0.000</b> (.)
rural			<b>3.124</b> (2.37)	<b>1.335</b> (3.38)	<b>5.060</b> (2.88)
Constant	<b>66.954***</b> (2.00)	<b>133.775***</b> (3.35)	<b>130.061***</b> (4.47)	<b>138.494***</b> (6.12)	<b>121.086***</b> (5.52)

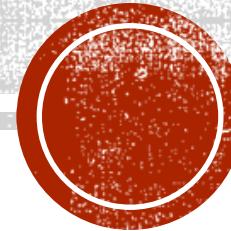
\* p<0.05, \*\* p<0.01, \*\*\* p<0.001

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. corr child_mor dom_violence  
(obs=185,142)
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	child_mor	dom_violence
child_mor	1.0000	
dom_violence	0.0157	1.0000

**CMR**

No correlation with  
domestic violence



# **WHAT CHANGED?**

Further research....

