FACTORS AFFECTING USE OF ANTENATAL CARE, INSTITUTIONAL DELIVERY AND MATERNAL MORTALITY RATIO IN INDIA

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Background information

- Taking care of a mother at the time of pregnancy and during child birth improves the maternal health. As Antenatal Care (ANC) and institutional delivery has a direct relationship with maternal mortality.
- ANC and institutional delivery reduce maternal mortality by reducing the risk factors associated with the maternity health

Objective, Database and Methodology

Objectives:

- 1. To find the relation of antennal care and institutional delivery with maternal mortality.
- 2. To find the correlation of demographic and socio-economic characteristics of mother, like age at marriage, fertility rate, parity, education level, work-force participation, CPR, induced abortion, caste, tribe, and residents with ANC and Institutional delivery.

Data Base:

Study is based on DLHS 4, SRS and census 2011.

Methodology:

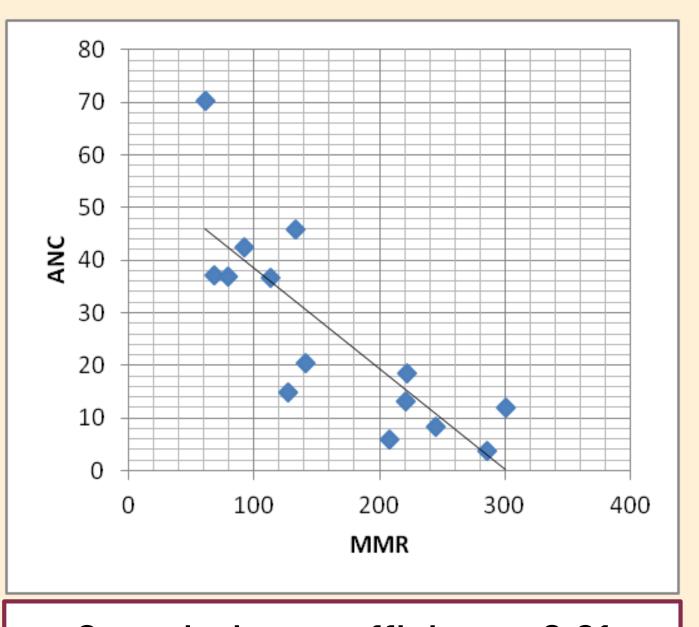
Correlation Coefficient

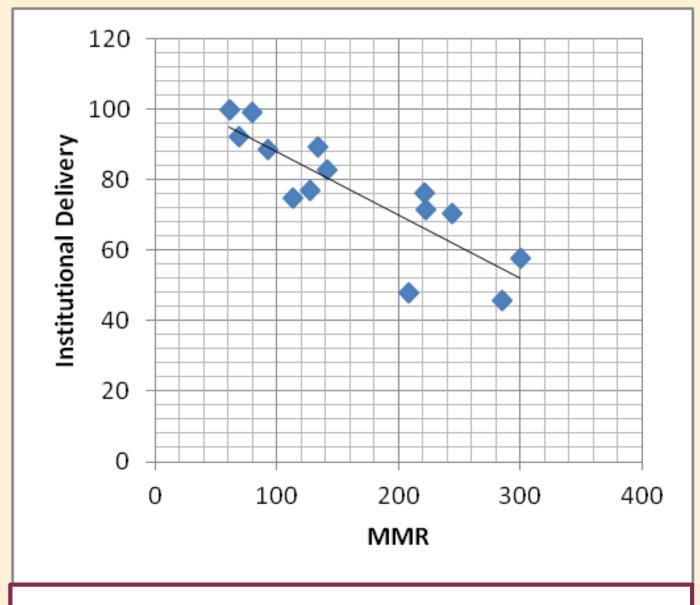
Linear Regression Analysis

Causes of Maternal Mortality in India, 2003 Maternal Deaths (%) ■ EAG and South Other Condition Hemorrhage Sepsis Obstructed Source: Sample Registration System, 2001-2003 Anti natal care and Hemorrhage Sepsis Maternal Mortality Institutional Hypertension Rate Obstructed labour abortion delivery

ANC Component: Urine and blood test, Blood pressure, Breast Examination, Abdominal Examination, Weight

RELATIONSHIP OF ANTENATAL CARE AND INSTITUTIONAL DELIVERY WITH MATERNAL MORTALITY





Correlation coefficient: -0.81

Correlation coefficient: -0.85

Effect of socio-economic variables on ANC and Institutional Delivery:

ANC= 82.54-12.515(TFR)**+0.161(WFPR)*+0.080(CPR)*+.058(ST)*-1.173(SMAM)*

R-Squared=0.546

Inst. Delivery= 128.49-10.5(TFR)**-0.175(ST)**+0.356(WFPR)**+)0.17(CPR)**+0.135(Urban)**-1.675(SMAM)**

R-Squared=0.567

Conclusion:

- higher level of ANC and institutional delivery lead to reduce the level of MMR in a region.
- The use of medical facilities like Antenatal care and institutional delivery depends on the social and economic status of women.
- Most important factor that effects both ANC and institutional delivery is: TFR
- It is clear that ANC and Institutional delivery are affected by many socioeconomic factors which in turn affect MMR. Therefore, to improve MMR, not only health care facilities but socioeconomic conditions of women must also be improved.

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