**State HMIS Data Analysis**

**NHSRC**

**Data Management & Analysis**

**5/13/2011**

**Apr’10 – Mar’11**

West Bengal



*This analysis is based on data downloaded from National Web portal on 13/5/11*

**Note for Information Users**

This data analysis is primarily presented to facilitate the use of this information by District level Programme Managers. They are in a better position to interpret this information in context and act on it. Even what are apparently data of poor quality or errors can be useful if the nature of error is understood. However those not sensitised to the data quality issues and those trying to use this for policy or journalistic purposes will find serious limitations – especially due to incomplete reporting of private sector data and poor quality of death reporting. Also please note that interpretation of information will differ with choice of denominator. We should be familiar with choice of denominator in use. Do consult HMIS Training Manual 2 for further understanding of these issues. Data is also analysed and presented so as to help districts, find data errors and correct them. Only when data is converted into information and used, do many errors become apparent. Some states are likely to notice data entry errors & change their data- for which reason also, care should be taken when quoting from this source. We would advise you to check with state government and take permission before quoting from this.

Executive Director

National Health Systems Resource Centre

May 2011

*This analysis is based on data downloaded from National Web portal on 25/4/11*

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| **West Bengal- Summary -Apr'10 to Mar'11** |
| ANC |
| ANC Registration against Expected Pregnancies | ***106%*** | TT2/ Booster given to Pregnant women against ANC Registration | 80% |
| 3 ANC Check ups against ANC Registrations | 71% | 100 IFA Tablets given to Pregnant women against ANC Registration | 78% |
| Deliveries |
| Reported Deliveries against Expected Deliveries | 86.3% | Home Deliveries( SBA& Non SBA) against Estimated Deliveries | 26.9% |
| Institutional Deliveries against Estimated Deliveries | 59.3% | Home Deliveries( SBA& Non SBA) against Reported Deliveries | 31.2% |
| Institutional Deliveries against Reported Deliveries | 68.8% | C Section Deliveries against Institutional Deliveries( Pvt & Pub) | 23% |
| Births & Neonates Care |
| Live Births Reported against Estimated Live Births | 90% | Newborns weighed against Reported Live Births | 89% |
| Still Births against reported 1000 live Births  |  16  | Newborns weighed less than 2.5 kgs against newborns weighed | 16% |
| Sex Ratio at Birth |  927  | Newborns breastfed within one hr of Birth against Reported live Births | 65% |
| Child Immunisation( 0 to 11 mnths) |
| Measles given against Expected Live Births | 87% | Measles given against Reported Live Births | 97% |
| Fully Immunised Children against Expected Live Births | 83% | Fully Immunised Children against Reported Live Births | 92% |
| Required numbers of VHNDs per thousand population in 12 mnths | 1,096,173 | Immunisation Sessions held as percentage of required VHNDs | 50% |
| Family Planning & Abortions |
| Family Planning Methods Users ( Sterilisations(Male &Female)+IUD+ Condom pieces/72 + OCP Cycles/13) |  1,572,015  | Total Sterilisations ( Male & Female)  |  261,662  |
| **MTP up to 12 weeks** |  20,728  | **Abortion (spontaneous/induced)** |  37,653  |
| **MTP more than 12 weeks** |  6,260  | Abortion Rate against Expected pregnancies | 3.7% |

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|   | **Demographic Denominators - West Bengal** |
|   | **IMR of the state - West Bengal** |  **CBR - West Bengal** | **Total Population**  | **Expected Pregnancies**  | **Expected Deliveries**  | **Eligible Couple ( 17% of total population)** |
| **Source** |  **SRS - 2011**  |  **SRS - 2011**  |  **Census 2011**  |  **Derived**  |  **Derived**  |  **Derived**  |
|  |  **33**  |  **17.2**  |  **91,347,736**  |  **1,728,299**  |  **1,597,106**  |  **15,529,115**  |

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| **West Bengal- Deliveries Apr'10 to Mar'11** |
| Total Population Apr'10 to Mar'11 |  91,347,736  | Expected Deliveries Apr'10 to Mar'11 |  1,597,106  |
| Home SBA | Home Non SBA | Institutional  | Total Deliveries Reported  | Unreported Deliveries |
|  6,277  |  424,021  |  947,736  |  1,378,034  |  219,072  |
| Home SBA % | Home Non SBA% | Institutional % | Total Deliveries Reported % | Unreported Deliveries % |
| 0% | 27% | 59% | 86% | 14% |

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| **West Bengal- C sections & Complicated Deliveries Apr'10 to Mar'11** |
|   | Institutional Deliveries (Public) | Institutional Deliveries (Pvt) | Total Institutional deliveries |
|  771,638  |  176,098  |  947,736  |
| C Section |  114,899  |  101,806  |  216,705  |
| C Section% | 15% | 58% | 22.9% |
| Complicated Pregnancies attended |  41,565  |  9,063  |  50,628  |
| Complicated Pregnancies attended % | 5% | 5% | 5.3% |

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| **West Bengal- Facility wise %ge of C sections & Complicated Deliveries Apr'10 to Mar'11** |
|   | PHC | CHC | SDH/DH | Other State owned institution | Private Facilities | Total |
| Complicated deliveries managed ( Reported) |  2,458  |  7,991  |  23,610  |  7,506  |  9,063  |  50,628  |
| Complicated deliveries managed as %ge of total reported | 4.9% | 15.8% | 46.6% | 14.8% | 17.9% |   |
| C Section (reported ) |  77  |  1,676  |  84,074  |  29,072  |  101,806  |  216,705  |
| C Section as percentage of total reported | 0.0% | 0.8% | 38.8% | 13.4% | 47.0% |   |

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| **West Bengal- Complicated Pregnancies & Deliveries Treated - Apr'10 to Mar'11** |
| **Reported Deliveries** |  **1,378,034**  |
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| Complicated Pregnancies attended | Complicated Pregnancies Rate | C - Section Deliveries | PNC Maternal Complications | Abortions | Still Births |
|
|  50,628  | 2.9% |  216,705  |  8,292  |  37,653  |  23,152  |
| Complicated Deliveries Treated with | No Of Eclampsia cases Treated | No Of severe anemia cases treated |
| IV Antibiotics | IV antihypertensive/Magsulph injection | IV Oxytocis | Blood Transfusion  |
|  28,075  |  3,287  |  31,847  |  4,901  |  3,114  |  22,569  |

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| **West Bengal- Management of Complications (Reflecting Quality of ANC )against Reported ANC Registration- Apr'10 to Mar'11** |
|  | **Reported** | **%age against reported ANC Registration** |
| Hypertensive cases detected at institution | 23922 | 1.3% |
|  Eclampsia cases managed during delivery | 3114 | 0.2% |
| ANC women having Hb level<11  | 539792 | 29.4% |
| ANC women having severe anaemia (Hb<7) treated at institution | 22569 | 1.2% |

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| **West Bengal - Births - Apr'10 to Mar'11** |
| Live Birth - Males | Live Birth - females | Live Birth - Total | Sex Ratio at birth | Still Birth per 1000 live births ( reported) |
|  735,548  |  681,814  |  1,417,362  |  927  |  16.3  |

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| **West Bengal - Abortions - Apr'10 to Mar'11** |
| MTP Less than 12 weeks | MTP More than 12 weeks | Abortions (spontaneous/Induced) |  Abortion Rate against expected pregnancies  |
|  20,728  |  6,260  |  37,653  | 3.7% |

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| **West Bengal - RTI Cases - Apr'10 to Mar'11** |
|  Total OPD  |  Total RTI/STI cases  |  RTI/STI cases as %ge of Total OPD  |
|  33,567,595  |  313,552  | 0.93% |

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| **West Bengal-Sterilisations - Apr'10 to Mar'11** |
|  | **Reported** | **%age of Reported Sterilisation** |
| **Total Sterilisation** |  261,662  | - |
| **NSV** |  17,791  | 7% |
| **Laparoscopic** |  35,854  | 14% |
| **MiniLap** |  182,210  | 70% |
| **Post Partum** |  25,807  | 10% |
| **Male Sterilisation** |  17,791  | 7% |
| **Female Sterilisation** |  243,871  | 93% |

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| **West Bengal-FP Methods - Apr'10 to Mar'11** |
|  | **Reported** | **%age of All Reported FP Methods** |
| **Total Reported FP Method (All types) Users** |  1,572,015  | - |
| **Sterilisations** |  261,662  | 17% |
| **IUD** |  76,468  | 5% |
| **Condom Users** |  591,382  | 38% |
| **OCP Users** |  642,503  | 41% |
| **Limiting Methods** |  261,662  | 17% |
| **Spacing Methods** |  1,310,353  | 83% |

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| **West Bengal- Facility wise % of Sterilisations & IUDs - Apr'10 to Mar'11** |
|   | Subcenter | PHC | CHC | SDH/DH | Other State owned institution | Private Facilities |
| **NSV as % of total reported** |   | 3.3% | 50.9% | 17.1% | 24.2% | 4.4% |
| **Laparoscopic as % of total reported** |   | 4.4% | 56.4% | 14.4% | 6.3% | 18.4% |
| **MiniLap as % of total reported** |   | 3.9% | 60.9% | 16.1% | 5.0% | 14.1% |
| **Post Partum as % of total reported** |   | 0.2% | 6.1% | 63.9% | 19.1% | 10.7% |
| **IUD inserted as % of total reported** | 80% | 1% | 4% | 5% | 4% | 5% |

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| **West Bengal- Unmet need ( DLHSIII) met by reported FP Methods - Apr'10 to Mar'11** |
| Estimated total Eligible Couples ( 17% of population) |  15,529,115  | Eligible Couples for unmet need- Calculated Using DLHSIII Unmet need - West Bengal | Total reported FP Users - HMIS - Apr'10 to Mar'11 | Unmet need met by Reported Family Planning Methods - Apr'10 to Mar'11 |
| Total Unmet Needs | 11.1 |  1,723,732  |  1,572,015  | 91% |
| Limiting  | 7.3 |  1,133,625  |  261,662  | 23% |
| Spacing | 3.8 |  590,106  |  1,310,353  | 222% |

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| **West Bengal- Service Delivery - Apr'10 to Mar'11** |
| Total OPD | Total IPD |  Operation major (General and spinal anaesthesia)  |  Operation minor (No or local anaesthesia)  |  AYUSH  |  Dental Procedures  |  Adolescent counselling services  |
|  33,567,595  |  1,694,232  |  113,504  |  113,133  |  646,548  |  252,364  |  337,619  |
| OPD Visit Per Capita Population | IPD as percentage of OPD |  Operation major (General and spinal anaesthesia) as %ge of IPD  |  Operation minor (No or local anaesthesia)as %ge of OPD  |  AYUSH as %ge of OPD  |  Dental Procedures as %ge of OPD  |  Adolescent counselling services as %ge of OPD  |
| 0.4 | 5.0% | 6.7% | 0.3% | 1.9% | 0.75% | 1.0% |

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| **West Bengal- Lab Services - Apr'10 to Mar'11** |
| Total Population | Total HB tested | Total HIV tested | Total VDRL Tested | Total Widal Test Conducted | Blood Smear Examined  |
|  91,347,736  |  488,286  |  172,070  |  71,735  |  26,039  |  3,126,544  |
| Total OPD | HB test conducted as %age of OPD | HB<7gm as %age of HB tested | HIV test conducted as %age of OPD | HIV positive as %age of HIV tested | VDRL test conducted as %age of OPD | Widal test conducted as %age of OPD | Blood Smear Examined as % of Population |
|  33,567,595  | 1.5% | 5.0% | 0.5% | 1.1% | 0.2% | 0.1% | 3.4% |

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| **West Bengal- Childhood Disease - Vaccine Preventable -Apr'10 to Mar'11** |
| Diphtheria  | Pertussis  | Tetanus Neonatorum | Tetanus others | Polio | Measles |
| 75 | 8 | 778 | 63 | 3 | 13647 |
|  West Bengal-Childhood Disease - Others - Apr'10 to Mar'11  |  |  |   |
|  Diarrhoea and dehydration  |  Malaria  |  Number admitted with Respiratory Infections  |  |  |   |
|  667,319  |  7,704  |  623,064  |   |   |   |

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| **WEST BENGAL** **MORTALITY INFORMATION** **as reported in HMIS** **Apr’10 - Mar’11** |



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| **National Health Systems Resource Centre, New Delhi**  |
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**Note for Information Users**

Information user must understand that the data given below are not to be used as a measure of mortality but as a measure of completion of reporting on mortality. We are at the stage, where we are working to improve routine mortality recording and reporting. However we also reiterate that without conversion to rate, we will not be able to estimate the adequacy of reporting. This information is for district level managers to use for improving mortality reporting.

Executive Director

National Health Systems Resource Centre

May 2011

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| **Mortality in- West Bengal- Apr'10-Mar'11** |
| **Death Groups**  | **Cause-wise deaths included in the group**  | **Reported deaths**  |
| Communicable Disease  | Maternal, Child under 5, Diarrhoea, Tuberculosis, Respiratory (excluding TB), Malaria, Other Fever related, HIV/AIDS, Other known acute diseases |  46,362  |
| Non communicable disease  | Heart Disease/ Hypertension, Neurological including Stroke, Other known chronic diseases |  21,973  |
| Injuries  | Trauma, Accidents, Burns, Suicide, Animal Bites  |  5,276  |
| Others  | Other diseases (Causes not known) |  21,276  |

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| **West Bengal- Still Births, Neonatal & Infant Deaths - Apr'10 to Mar'11** |
| Live Births - Reported | Live Births -Estimated | **Still Births** | Early Neonatal deaths | Late Neonatal Deaths | Infant Death |
|  1,417,362  |  1,571,181  |  23,152  |  19,246  |  4,420  |  28,845  |
| **West Bengal- Still Birth Rate, Perinatal,Neonatal & Infant Mortality Rates - Apr'10 to Mar'11** |   |   |   |
|   |  Against Reported Live Births ( 1000) | Against Estimated Live Births ( 1000) |  |   |   |
| Reported Still Birth  | 16.33 | 14.74 |   |   |   |
| Reported Perinatal Mortality |  29.91  |  27  |   |   |   |
| Reported Neonatal Mortality  |  16.70  |  15.06  |   |   |   |
| Reported Infant Mortality  | 20.35 | 18.36 |   |   |   |

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| **Infant Mortality Indicators West Bengal-"Apr'10-Mar'11** |
|   | **Total Deaths** | **Reported Death Rate** |
| Neonatal Mortality Rate(per 1000 live births) |  23,666  | 16.7 |
| Perinatal Mortality Rate(per 1000 live births) |  42,398  | 29.9 |
| Infant Mortality Rate(per 1000 live births) |  28,845  | 20.4 |
| Under 5 Mortality Rate (per 1000 live births) |  31,614  | 22.3 |
| Maternal Mortality Ratio(per one lakh live births) |  1,103  | 77.8 |

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| **Infant & Child Deaths -West Bengal-Apr'10-Mar'11** |
| Infant Deaths within 24 hrs of birth |  7,151  |
| Infant Deaths between 24hrs & under 1 week |  12,095  |
| Infant Deaths between 1 week & under 1 month |  4,420  |
| Child Deaths between 1 month & under 1 year |  5,179  |
| Total Infant Deaths |  28,845  |
| Child Deaths between 1yr under 5years |  2,769  |
| **Total Deaths** |  **31,614**  |

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| **Causes of Neonatal Deaths-West Bengal-Apr'10-Mar'11** |
|   | **Sepsis** | **Asphyxia** | **LBW** | **Others** | **Total** |
| Up to 1 Weeks of Birth |  1,157  |  3,386  |  2,738  |  4,814  |  12,095  |
| Between 1 week & 4 weeks of birth |  562  |  649  |  1,110  |  2,099  |  4,420  |
| **Total** |  **1,719**  |  **4,035**  |  **3,848**  |  **6,913**  |  **16,515**  |

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| **Causes of Infant Child Deaths-West Bengal-Apr'10-Mar'11** |
|  | **Pneumonia** | **Diarrhoea** | **Fever related** | **Measles** | **Others**  | **Total**  |
| Between 1 month and 11 months |  990  |  94  |  444  |  19  |  3,632  |  5,179  |
| Between 1 year & 5 years |  305  |  67  |  329  |  45  |  2,023  |  2,769  |
| **Total** |  **1,295**  |  **161**  |  **773**  |  **64**  |  **5,655**  |  **7,948**  |

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| **Maternal Deaths & Causes-West Bengal-Apr'10-Mar'11** |
|   | **Total** |
| Abortion | 30 |
| Obstructed/prolonged labour | 63 |
| Severe hypertension/fits | 174 |
| Bleeding | 295 |
| High Fever | 50 |
| Other Causes | 491 |
| **Total**  | **1,103** |

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| **Cause of deaths above 6 yrs of age-West Bengal-Apr'10-Mar'11** |
|  |  **6-14 yrs**  |  **15-55 yrs.**  |  **Above 55yrs**  |  **Total**  |
| Diarrhoeal Diseases  |  336  |  838  |  293  |  1,467  |
| Tuberculosis |  39  |  434  |  259  |  732  |
| Respiratory Diseases(Other than TB) |  1,105  |  1,741  |  2,251  |  5,097  |
| Malaria  |  24  |  154  |  16  |  194  |
| Other fever Related |  334  |  571  |  784  |  1,689  |
| HIV/AIDS |  10  |  52  |  28  |  90  |
| Heart Disease/ Hypertension related  |  194  |  2,469  |  6,007  |  8,670  |
| Neurological Disease including strokes  |  87  |  1,410  |  3,406  |  4,903  |
| Trauma/Accidents/ Burn Cases |  242  |  1,374  |  557  |  2,173  |
| Suicide  |  97  |  1,422  |  311  |  1,830  |
| Animal Bites & Stings  |  267  |  741  |  265  |  1,273  |
| Known Acute Disease  |  166  |  1,516  |  2,694  |  4,376  |
| Known Chronic Disease  |  193  |  2,278  |  5,929  |  8,400  |
| Causes not known  |  547  |  5,597  |  15,132  |  21,276  |
|  **Total Deaths**  |  **3,641**  |  **20,597**  |  **37,932**  |  **62,170**  |