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**HMIS Analysis – BIHAR – 2013 – 14**

***National Health Systems Resource Centre***

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**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 sensitized 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 analyzed 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

June’14

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| **BIHAR- Summary -Apr'13 to Mar'14** | | | |
| **ANC** | | | |
| **ANC Registration against Expected Pregnancies** | 81% | **TT2/ Booster given to Pregnant women against ANC Registration** | 88% |
| **3 ANC Check ups against ANC Registrations** | 60% | **100 IFA Tablets given to Pregnant women against ANC Registration** | 62% |
| **Deliveries** | | | |
| **Reported Deliveries against Expected Deliveries** | 66.1% | **Home Deliveries( SBA& Non SBA) against Estimated Deliveries** | 14.1% |
| **Institutional Deliveries against Estimated Deliveries** | 52.0% | **Home Deliveries( SBA& Non SBA) against Reported Deliveries** | 21.3% |
| **Institutional Deliveries against Reported Deliveries** | 78.7% | **C Section Deliveries against Institutional Deliveries( Pvt & Pub)** | 1.1% |
| **Births & Neonates Care** | | | |
| **Live Births Reported against Estimated Live Births** | 68.2% | Newborns weighed against Reported Live Births | **92%** |
| **Still Births against reported 1000 live Births** | 16.8 | Newborns weighed less than 2.5 kgs against newborns weighed | **7%** |
| **Sex Ratio at Birth** | 941 | Newborns breastfed within one hr of Birth against Reported live Births | **94%** |
| **Child Immunisation( 0 to 11 mnths)** | | | |
| **Measles given against Expected Live Births** | 75% | **Measles given against Reported Live Births** | ***110%*** |
| **Fully Immunised Children against Expected Live Births** | 73% | **Fully Immunised Children against Reported Live Births** | ***107%*** |
| **Required numbers of VHNDs per thousand population in 12 mnths** | 1,274,017 | **Immunisation Sessions held as percentage of required VHNDs** | 88% |
| **Family Planning & Abortions** | | | |
| **Family Planning Methods Users ( Sterilisations(Male &Female)+IUD+ Condom pieces/72 + OCP Cycles/13)** | 963,326 | Total Sterilisations ( Male & Female) | **451,457** |
| **MTP up to 12 weeks** | 4,390 | **Abortion (spontaneous/induced)** | **5,931** |
| **MTP more than 12 weeks** | 1,192 | Abortion Rate against Expected pregnancies | **0.5%** |

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| **BIHAR- Key Performance Indicators -Apr'13 to Mar'14** | | | |
| **ANM Related** | | | |
| **% ANC Registration in First Trimester against Reported ANC registration** | 44% | **% PNC visits within 48 hours and 14 days against total deliveries** | 35% |
| **% Three ANC check ups against estimated pregancies.** | 49% | **% DPT3 immunisation against Estimated Live Births** | 79% |
| **% Hypertension in pregnancy- detected against ANC Reported** | 2.1% | **% Measles Immunization against Estimated Live Births** | 75% |
| **% Severe anaemia (Hb<7) treated gainst Reported ANC registration** | 0.4% | **% Full immunisation against Estimated Live Births** | 73% |
| **ASHA Related** | | | |
| **% Newborns weighed at birth against Estimated live Births** | 63% | **JSY Paid to ASHA as % of reported Institutional deliveries** | 91% |
| **% of Newborns having weighed less than 2.5 kg against newborns weighed** | 7% | **% ASHAs present during immunisation Sessions** | 85% |
| **% Newborns visited within 24 hrs of Home deliveries** | 60% |  |  |
| **Facility Related** | | | |
| **OPD per 1000 population** | 684 | **% C- Section against Institutional Deliveries** | 1.1% |
| **IPD per 1000 population** | 38 | **Abortion Rate against Reported pregnancies** | 0.6% |
| **Major surgeries per lakh population.** | 387 | **Total sterilisation done per 1000 eligible couples.** | 25 |
| **Institutional deliveries against estimated deliveries.** | 52% | **Total IUD inserted per 1000 eligible couples** | 20.48 |
| **Institutional deliveries against Reported deliveries.** | 79% |  |  |

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|  | **Demographic Denominators - BIHAR** | | | | | |
| **IMR of the state - BIHAR** | **CBR - BIHAR** | **Total Population** | **Expected Pregnancies Apr'13 to Mar'14** | **Expected Deliveries Apr'13 to Mar'14** | **Eligible Couple ( 17% of total population)** |
| **Source** | **AHS-2012** | **AHS-2012** | **Projected Population 2012** | **Derived** | **Derived** | **Derived** |
|  | **52** | **26.3** | **106,168,110** | **3,071,443** | **2,864,819** | **18,048,579** |

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| **BIHAR- Deliveries - Apr'13 to Mar'14** | | | | |
| **Total Population** | **106,168,110** | **Expected Deliveries - Apr'13 to Mar'14** | | **2,864,819** |
| **Home SBA** | **Home Non SBA** | **Institutional ( Pub & Pvt)** | **Total Deliveries Reported** | **Unreported Deliveries** |
| 84,160 | 318,996 | 1,489,875 | 1,893,031 | 971,788 |
| **Home SBA %** | **Home Non SBA%** | **Institutional %** | **Total Deliveries Reported %** | **Unreported Deliveries %** |
| 3% | 11% | 52% | 66% | 34% |

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| **BIHAR- C sections & Complicated Deliveries Apr'13 to Mar'14** | | | |
|  | **Institutional Deliveries (Public)** | **Institutional Deliveries (Pvt)** | **Total Institutional deliveries** |
| **Total Deliveries** | 1,488,736 | 1,139 | 1,489,875 |
| **C Section** | 15,198 | 488 | 15,686 |
| **C Section%** | **1.0%** | **42.8%** | **1.1%** |
| **Complicated Pregnancies attended** | 37,498 | - | 37,498 |
| **Complicated Pregnancies attended %** | **2.5%** | **0.0%** | **2.5%** |

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| **BIHAR- Facility wise %ge of C sections & Complicated Deliveries Apr'13 to Mar'14** | | | | | | |
|  | **PHC** | **CHC** | **SDH/DH** | **Other State owned institution** | **Private Facilities** | **Total** |
| **Complicated deliveries managed ( Reported)** | 14,001 | 2,133 | 19,877 | 1,487 | - | 37,498 |
| **Complicated deliveries managed as %ge of total reported** | **37.3%** | **5.7%** | **53.0%** | **4.0%** | **0.0%** |  |
| **C Section (reported )** | 1,874 | 278 | 10,841 | 2,205 | 488 | 15,686 |
| **C Section as percentage of total reported** | **11.9%** | **1.8%** | **69.1%** | **14.1%** | **3.1%** |  |

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| **BIHAR- Complicated Pregnancies & Deliveries Treated - Apr'13 to Mar'14** | | | | | |
| **Reported Deliveries** | **1,893,031** | | | | |
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| **Complicated Pregnancies attended** | **Complicated Pregnancies Rate** | **C - Section Deliveries** | **PNC Maternal Complications** | **Abortions** | **Still Births** |
|
| 37,498 | 1.2% | 15,686 | 9,062 | 5,931 | 31,916 |
| **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** |
| 153,476 | 17,219 | 114,896 | 19,078 | 3,492 | 10,720 |

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| **BIHAR - JSY Paid to Mothers as % of reported deliveries - Apr'13 to Mar'14** | | | |
|  | **Deliveries** | **JSY Paid to mothers** | **%age JSY paid against reported deliveries** |
| **Home** | 403,156 | 2,050 | 0.51% |
| **Institutional (Public)** | 1,488,736 | 1,358,194 | 91.23% |
| **Institutional ( Accredited - Pvt )** | 1,139 | - | 0.00% |

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| **BIHAR- Management of Complications (Reflecting Quality of ANC )against Reported ANC Registration- Apr'13 to Mar'14** | | |
|  | **Reported** | **%age against reported ANC Registration** |
| **Hypertensive cases detected at institution** | 53607 | 2.1% |
| **Eclampsia cases managed during delivery** | 3492 | 0.1% |
| **ANC women having Hb level<11** | 246039 | 9.8% |
| **ANC women having severe anaemia (Hb<7) treated at institution** | 10720 | 0.4% |

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| **BIHAR - Births - Apr'13 to Mar'14** | | | | | |
| **Live Birth - Males** | **Live Birth - females** | **Live Birth - Total** | **Still Births** | **Sex Ratio at birth** | **Still Birth per 1000 live births ( reported)** |
| 981,449 | 923,201 | 1,904,650 | 31,916 | 941 | 16.8 |

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| **BIHAR- Adverse Event Following Immunisation(AEFI) - Apr'13 to Mar'14** | |
| **Abscess** | **5,242** |
| **Death** | **1** |
| **Others** | **12,130** |

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| **BIHAR- Immunisation - Dropouts - Apr'13 to Mar'14** | | |
| **Dropout from BCG to DPT3** | **Dropout from BCG to Measles** | **Dropout from DPT3 to Measles** |
| **7%** | **12%** | **5%** |

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| **BIHAR - Abortions - Apr'13 to Mar'14** | | | | |
| **MTP Less than 12 weeks** | **MTP More than 12 weeks** | **Abortions (spontaneous/Induced)** | **Abortions in Pvt Facilities** | **Abortion Rate against expected pregnancies** |
| **4,390** | **1,192** | **5,931** | **2,355** | **0.5%** |

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| **BIHAR - RTI Cases - Apr'13 to Mar'14** | | | | | |
| **Total OPD** | **Total RTI/STI cases - Male** | **Total RTI/STI cases - Female** | **Total RTI/STI cases** | **RTI/STI cases as %ge of Total OPD** | **Number of wet mount tests conducted** |
| 72,609,277 | 13,411 | 9,390 | 22,801 | 0.031% | 43,698 |

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| **BIHAR-Sterilisations - Apr'13 to Mar'14** | | |
|  | **Reported** | **%age of Reported Sterilisation** |
| **Total Sterilisation** | 451,457 |  |
| **NSV** | 2,960 | 1% |
| **Laparoscopic** | 7,330 | 2% |
| **MiniLap** | 419,215 | 93% |
| **Post Partum** | 21,952 | 5% |
| **Male Sterilisation** | 2,960 | 1% |
| **Female Sterilisation** | 448,497 | 99% |

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| **BIHAR-FP Methods - Apr'13 to Mar'14** | | |
|  | **Reported** | **%age of All Reported FP Methods** |
| **Total Reported FP Method (All types) Users** | 963,326 | - |
| **Sterilisations** | 451,457 | 47% |
| **IUD** | 369,719 | 38% |
| **Condom Users** | 83,523 | 9% |
| **OCP Users** | 58,627 | 6% |
| **Limiting Methods** | 451,457 | 47% |
| **Spacing Methods** | 511,869 | 53% |

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| **BIHAR- Facility wise % of Sterilisations & IUDs - Apr'13 to Mar'14** | | | | | | |
|  | **Subcenter** | **PHC** | **CHC** | **SDH/DH** | **Other State owned institution** | **Private Facilities** |
| **NSV as % of total reported** |  | 52.1% | 4.8% | 24.9% | 0.0% | 18.1% |
| **Laparoscopic as % of total reported** | 33.3% | 11.6% | 6.7% | 0.2% | 48.3% |
| **MiniLap as % of total reported** | 63.5% | 7.8% | 9.0% | 0.1% | 19.7% |
| **Post Partum as % of total reported** | 46.9% | 4.4% | 12.1% | 2.9% | 33.8% |
| **IUD inserted as % of total reported** | 58.1% | 30.8% | 2.8% | 6.4% | 0.2% | 1.7% |

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| **BIHAR - AHS-2012 - Unmet Need met by reported FP Methods - Apr'13 to Mar'14** | | | | |
| **Estimated total Eligible Couples ( 17% of population)** | **18,048,578.70** | **Eligible Couples for unmet need- Calculated Using AHS-2012 Unmet need - BIHAR** | **Total reported FP Users - HMIS - Apr'13 to Mar'14** | **Unmet need met by Reported Family Planning Methods - Apr'13 to Mar'14** |
| **Unmet Needs Total** | 33.5 | 6,046,274 | 963,326 | 16% |
| ***Limiting*** | 16.2 | 2,923,870 | 451,457 | 7% |
| ***Spacing*** | 17.3 | 3,122,404 | 511,869 | 8% |

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| **BIHAR- Service Delivery - Apr'13 to Mar'14** | | | | | | |
| **Total OPD** | **Total IPD** | **Operation major (General and spinal anaesthesia)** | **Operation minor (No or local anaesthesia)** | **AYUSH** | **Dental Procedures** | **Adolescent counselling services** |
| 72,609,277 | 4,009,358 | 411,160 | 1,408,404 | 14,090,645 | 2,471,252 | 122,319 |
| **OPD Visit Per 1000 Population** | **IPD per 1000 Population** | **Operation major (General and spinal anaesthesia) per 100000 Population** | **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** |
| 683.9 | 37.8 | 387.3 | 1.9% | 19.4% | 3.40% | 0.2% |

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| **BIHAR- Childhood Disease - Vaccine Preventable -Apr'13 to Mar'14** | | | | | |
| **Diphtheria** | **Pertussis** | **Tetanus Neonatorum** | **Tetanus others** | **Polio** | **Measles** |
| 413 | 114 | 48 | 70 | 0 | 3221 |
| **BIHAR-Childhood Disease - Others - Apr'13 to Mar'14** | | |  | | |
| **Diarrhoea and dehydration** | **Malaria** | **Number admitted with Respiratory Infections** |
| 519,794 | 4,819 | 21,919 |

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| **BIHAR- Lab Services - Apr'13 to Mar'14** | | | | | | | |
| **Total Population** | **Total HB tested** | | **Total HIV tested** | | **Total VDRL Tested** | **Total Widal Test Conducted** | **Blood Smear Examined** |
| 106,168,110 | 872,394 | | 568,636 | | 76,128 | 33,720 | 157,177 |
| **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** |
| 72,609,277 | 1.2% | 5.0% | 0.8% | 1.4% | 0.1% | 0.05% | 0.15% |

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| **BIHAR**  **Mortality Data - Apr'13 to Mar'14** |
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| **BIHAR - Mortality - Major Causes Group - Apr'13 to Mar'14** | | |
| **Death Groups** | **Cause-wise deaths included in the group** | **Reported deaths** |
| **Communicable Disease , Maternal & Perinatal** | Maternal & Perinatal, Diarrhoea, Tuberculosis, Respiratory (excluding TB), Malaria, Other Fever related, HIV/AIDS | 34,353 |
| **Non communicable disease** | Heart Disease/ Hypertension, Neurological including Stroke | 1,326 |
| **Injuries** | Trauma, Accidents, Burns, Suicide, Animal Bites | 608 |
| **Others** | Other known acute diseases, Other known chronic diseases, Other diseases (Causes not known) | 3,174 |

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| **BIHAR- Still Births, Neonatal , Infant ,Under 5 and Maternal Deaths - Apr'13 to Mar'14** | | | |
| **Live Births - Reported** | **Live Births -Estimated** | **Still Births** | **Early Neonatal deaths** |
| 1,904,650 | 2,792,221 | 31,916 | 974 |
| Late Neonatal Deaths | Infant Death | Under 5 Child Deaths | Maternal Deaths |
| 320 | 1,585 | 2,112 | 427 |
| **BIHAR- Still Birth Rate, Perinatal,Neonatal & Infant Mortality Rates - Apr'13 to Mar'14** | | |  |
|  | Against Reported Live Births ( 1000) | Against Estimated Live Births ( 1000) |
| Reported Still Birth | 16.76 | 11.43 |
| Reported Perinatal Mortality | 17.27 | 12 |
| Reported Neonatal Mortality | 0.68 | 0.46 |
| Reported Infant Mortality | 0.83 | 0.57 |
| Reported Under 5 Child Deaths | 1.1 | 0.76 |
| Reported Maternal Deaths | 22.42 | 15.29 | ***Maternal deaths is against 100000 live births*** |

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| **BIHAR - Infant & Child Deaths - Apr'13 to Mar'14** | | | | | | | |
|  | **Infant Deaths within 24 hrs of birth** | **Infant Deaths between 24hrs & under 1 week** | **Infant Deaths between 1 week & under 1 month** | **Child Deaths between 1 month & under 1 year** | **Total Infant Deaths** | **Child Deaths between 1yr & under 5years** | **Total Deaths** |
| **Total Reported** | 392 | 582 | 320 | 291 | **1,585** | **527** | 2,112 |
| **% against total deaths** | 18.6% | 27.6% | 15.2% | 13.8% | 75.0% | 25.0% |  |

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| **BIHAR- Causes of Infant & Child Deaths - Apr'13 to Mar'14 - Total Deaths - 1720** | | | | | | | | |
| **Sepsis** | | | **Asphyxia** | | | **LBW** | | |
| **Up to 1 Weeks of Birth** | **Between 1 week & 4 weeks of birth** | **Total** | **Up to 1 Weeks of Birth** | **Between 1 week & 4 weeks of birth** | **Total** | **Up to 1 Weeks of Birth** | **Between 1 week & 4 weeks of birth** | **Total** |
| 82 | 26 | **108** | 231 | 18 | **249** | 107 | 14 | **121** |
| **Pneumonia** | | | **Diarrhoea** | | | **Fever related** | | |
| **Between 1 month and 11 months** | **Between 1 year & 5 years** | **Total** | **Between 1 month and 11 months** | **Between 1 year & 5 years** | **Total** | **Between 1 month and 11 months** | **Between 1 year & 5 years** | **Total** |
| 53 | 29 | **82** | 62 | 197 | **259** | 91 | 166 | **257** |
| Measels | | | **Others ( For age upto 4 weks of Birth)** | | | **Others( For age from 1 month to 5 yrs)** | | |
| **Between 1 month and 11 months** | **Between 1 year & 5 years** | **Total** | **Up to 1 Weeks of Birth** | **Between 1 week & 4 weeks of birth** | **Total** | **Between 1 month and 11 months** | **Between 1 year & 5 years** | **Total** |
| 3 | 2 | **5** | 162 | 262 | **424** | 82 | 133 | **215** |

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| **BIHARMaternal Deaths & Causes-Apr'13 to Mar'14** | | | |
| **Causes** | **Reported** | **% against total reported** | **% against total reported known causes** |
| **Abortion** | 14 | 3.3% | 11.2% |
| **Obstructed/prolonged labour** | 18 | 4.2% | 14.4% |
| **Severe hypertension/fits** | 22 | 5.2% | 17.6% |
| **Bleeding** | 54 | 12.6% | 43.2% |
| **High Fever** | 17 | 4.0% | 13.6% |
| **Other Causes** | 302 | 70.7% |  |
| **Total** | **427** |  |  |

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| **BIHAR - Causes of deaths above 6 yrs of age-Apr'13 to Mar'14** | | | | |
|  | **6-14 yrs** | **15-55 yrs.** | **Above 55yrs** | **Total** |
| **Diarrhoeal Diseases** | 63 | 59 | 49 | 171 |
| **Tuberculosis** | 15 | 58 | 43 | 116 |
| **Respiratory Diseases (Other than TB)** | 35 | 211 | 163 | 409 |
| **Malaria** | 9 | 8 | 6 | 23 |
| **Other fever Related** | 83 | 216 | 285 | 584 |
| **HIV/AIDS** | - | 8 | 6 | 14 |
| **Heart Disease/ Hypertension related** | 12 | 193 | 252 | 457 |
| **Neurological Disease including strokes** | 21 | 16 | 28 | 65 |
| **Trauma/Accidents/ Burn Cases** | 53 | 197 | 61 | 311 |
| **Suicide** | 3 | 58 | 7 | 68 |
| **Animal Bites & Stings** | 38 | 157 | 34 | 229 |
| **Known Acute Disease** | 11 | 218 | 99 | 328 |
| **Known Chronic Disease** | 19 | 131 | 176 | 326 |
| **Causes not known** | 74 | 604 | 1,227 | 1,905 |
| **Total Deaths** | **436** | **2,134** | **2,436** | **5,006** |