SAMPLE REGISTRATION SYSTEM
STATISTICAL REPORT 2018

OFFICE OF THE REGISTRAR GENERAL &
CENSUS COMMISSIONER, INDIA
MINISTRY OF HOME AFFAIRS
GOVERNMENT OF INDIA
NEW DELHI
SAMPLE REGISTRATION SYSTEM
STATISTICAL REPORT 2018

OFFICE OF THE REGISTRAR GENERAL &
CENSUS COMMISSIONER, INDIA
MINISTRY OF HOME AFFAIRS
GOVERNMENT OF INDIA
NEW DELHI
PREFACE

The Sample Registration System (SRS) in India is carried out by the Office of Registrar General & Census Commissioner, India with an objective of providing reliable annual estimates of birth rate, death rate, infant mortality rate and various other fertility and mortality indicators. SRS is one of the largest demographic surveys in the world covering about 8.1 million population. It serves as the main source of information on fertility and mortality both at the State and National levels. Apart from the large sample size and geographic spread in most of the Districts, the system has a unique feature of dual recording, which involves continuous enumeration and retrospective half-yearly surveys. The continuous enumeration and retrospective surveys are followed by the process of matching of the two records and subsequent field verification of unmatched and partially matched events. The system provides for a cross check on the correctness and completeness of the events of birth and death listed by the two independent functionaries.

2. Based on the dual record system, the SRS has been providing reliable estimates of fertility and mortality indicators on a regular basis from 1971 onwards. It includes data on population composition by broad age groups, sex and marital status. Apart from the crude birth rate, various other fertility indicators like Total Fertility Rate, Age-specific fertility rate, General fertility rate, mean age of fertility and many more are also estimated under SRS. All these indicators have been included in this report. For providing information on mortality, various indicators like crude death rate, infant mortality rate, under-five mortality rate, age-specific death rates, neo-natal mortality rate etc. have also been included in this report. Certain other indicators of demographic interest such as mean age at effective marriage for females, interval between current and previous live birth and also distribution of live births by birth order have continued to form part of the SRS report. The sex ratio at birth has also been estimated in this Report as in the past. The indicators in this report are brought out for India and bigger States/UTs (with population 10 million and above) separately for rural and urban areas.

3. The SRS sample is revised every ten years based on the latest census frame. The present Report is the fifth in the series that has been prepared based on data collected from new SRS sample units selected from 2011 Census frame. Apart from the fertility and mortality indicators, this Report includes data on crude birth rate, crude death rate and infant mortality rates at Natural Division (group of contiguous districts) level.
4. The SRS has been a joint effort of the Central and State Governments. This study has been made possible with the active involvement of staff and officers of the Directorates of Census Operations, Map Division and the SRS Wing of the Vital Statistics Division at the headquarters. I am thankful to all of them for their efforts and support.

New Delhi
June, 2020

(VIVEK JOSHI)
Registrar General & Census Commissioner of India
C O N T E N T S

List of statements ix- xii
List of charts xiii- xvi
Definitions xvii-xviii
Figures at a glance, India – 2018 xviii-xx
National level trends for few core indicators 2013-18 xxv
Executive Summary xxvii-xxviii
Map - Birth rate by NSS Natural Division, 2018 xxix
Map - Death rate by NSS Natural Division, 2018 xxxi
Map - Infant mortality rate by NSS Natural Division, 2018 xxxiii
Chapter 1- Introduction 1-9
Chapter 2 - Population Composition 11-46
Chapter 3 - Estimates of Fertility Indicators 47-119
Chapter 4 - Estimates of Mortality Indicators 121-183

Detailed Tables

1. Percentage distribution of estimated population by age-group, sex and residence, 2018 187-198
2. Percentage distribution of population by sex, marital status and age-group, 2018 199-221
3. Fertility Indicators, 2018 222-228
4. Fertility indicators by level of education of women, 2018 229-251
5. Percentage distribution of live births by order of birth, 2018 252-258
7. Percentage distribution of current live births by birth interval and birth order, 2018 261-267
8. Age-specific death rate by sex and residence, 2018 268-290
9. Child (Aged 0-4 years) and infant mortality indicators, 2018 268-290
10. Percentage distribution of deaths to total deaths by residence, sex and age-group, 2018 291-302
11. Birth rate, death rate and infant mortality rate by NSSO natural division, 2018 303-305
**Tables on Trend**

12. Annual estimates of Birth rate by residence, India and bigger States/UTs, 2013-18 309

13. Annual estimates of Death rate by sex, India and bigger States/UTs, 2013-18 310

14. Annual estimates of Infant mortality rate by sex, India and bigger States/UTs, 2013-18 311

15. Annual estimates of Total Fertility rate by residence, India and bigger States/UTs, 2013-18 312

16. Sex ratio at birth (female per 1000 male) by residence, India and bigger States/UTs, 2012-14 to 2016-18 313

17. Percent of live births where the mothers received medical attention at delivery either at Government hospitals or at Private hospitals, India and bigger States/UTs, 2013-18 314

18. Percent of deaths where medical attention received before death was either at Government hospitals or at Private hospitals, India and bigger States/UTs, 2013-18 315

**Annexure**

<table>
<thead>
<tr>
<th>I</th>
<th>Map of natural divisions</th>
<th>319</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>List of natural divisions along with their districts</td>
<td>321-335</td>
</tr>
</tbody>
</table>
**LIST OF STATEMENTS**

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Population Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>13</td>
</tr>
</tbody>
</table>

Page

2
5
12
15
17
19
21
23
27
31
35
39
43
<table>
<thead>
<tr>
<th>Fertility Indicators</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 CBR (Crude birth rate) by residence, India and bigger States/UTs, 2018</td>
<td>48</td>
</tr>
<tr>
<td>15 Percent change in average crude birth rate between 2006-08 and 2016-18 by residence, India and bigger States/UTs</td>
<td>51</td>
</tr>
<tr>
<td>16 Sex ratio (female per 1000 male) at birth by residence, India and bigger States/UTs 2016-18</td>
<td>56</td>
</tr>
<tr>
<td>17 GFR (General fertility rate) by residence, India and bigger States/UTs, 2018</td>
<td>58</td>
</tr>
<tr>
<td>18 Percentage change in average GFR (General fertility rate) between 2006-08 and 2016-18, by residence, India and bigger States/UTs</td>
<td>61</td>
</tr>
<tr>
<td>19 ASFRs (Age specific fertility rates) by residence, 2018</td>
<td>66</td>
</tr>
<tr>
<td>20 Percentage change in age specific fertility rates by residence between 2006-08 and 2016-18, India</td>
<td>68</td>
</tr>
<tr>
<td>21 ASFRs (Age specific fertility rates), India and bigger States/UTs, 2018</td>
<td>73</td>
</tr>
<tr>
<td>22 Percentage distribution of cumulative fertility by age group, India and bigger States/UTs, 2018</td>
<td>74</td>
</tr>
<tr>
<td>23 Mean age of fertility and associated standard deviation, India and bigger States/UTs, 2018</td>
<td>76</td>
</tr>
<tr>
<td>24 TFR (Total fertility rate) by residence, India and bigger States/UTs, 2018</td>
<td>78</td>
</tr>
<tr>
<td>25 Percentage change in average TFR (Total fertility rate) between 2006-08 and 2016-18 by residence, India and bigger States/UTs</td>
<td>81</td>
</tr>
<tr>
<td>26 GRR (Gross reproduction rate) by residence, India and bigger States/UTs, 2018</td>
<td>86</td>
</tr>
<tr>
<td>27 ASMFRs (Age specific marital fertility rates) by residence, India 2018</td>
<td>88</td>
</tr>
<tr>
<td>28 ASMFRs (Age specific marital fertility rates) India and bigger States/UTs, 2018</td>
<td>90</td>
</tr>
<tr>
<td>29 TMFRs (Total marital fertility rates) by residence, India and bigger States/UTs, 2018</td>
<td>91</td>
</tr>
<tr>
<td>Page</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>30</td>
<td>Percentage change in average Total Marital Fertility rate (TMFR) between 2006-08 and 2011-18 by residence, India and bigger States/UTs</td>
</tr>
<tr>
<td>31</td>
<td>Percentage female population in the age group 15-49 by level of education, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>32</td>
<td>GFR (General fertility rate) by level of education of women, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>33</td>
<td>ASFR (Age specific fertility rate) by level of education of women and residence, India, 2018</td>
</tr>
<tr>
<td>34</td>
<td>TFR (Total fertility rate) by level of education of women, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>35</td>
<td>Percentage distribution of current live births by birth order, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>36</td>
<td>Percentage distribution of current live births by birth order and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>37</td>
<td>Percentage distribution of second and higher order live births by interval, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>38</td>
<td>Percentage distribution of second and higher order live births by interval and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>39</td>
<td>Percentage distribution of live births by type of medical attention received by the mother at delivery by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>40</td>
<td>Mortality Indicators</td>
</tr>
<tr>
<td>41</td>
<td>CDR (Crude death rate) by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>42</td>
<td>Percentage change in average crude death rate between 2006-08 and 2011-18, by residence, India and bigger States/UTs</td>
</tr>
<tr>
<td>43</td>
<td>CDR (Crude death rate) by sex and residence, India, 2018</td>
</tr>
<tr>
<td>44</td>
<td>CDR (Crude death rate) by sex, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>45</td>
<td>Percentage distribution of deaths by broad age groups, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td></td>
<td>Percentage of infant deaths to total deaths by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>Page</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>46</td>
<td>IMR (Infant mortality rate) by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>47</td>
<td>Percentage change in average IMR (Infant mortality rate) between 2006-08 and 2016-18 by residence, India and bigger States/UTs</td>
</tr>
<tr>
<td>48</td>
<td>Neo-natal mortality rate and percentage share of neo-natal deaths to infant deaths by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>49</td>
<td>Early neo-natal mortality rate and percentage share of early neo-natal deaths to infant deaths by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>50</td>
<td>Peri-natal mortality rate and Still birth rates by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>51</td>
<td>Percentage of deaths in the age group 0-4 years to total deaths by residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>52</td>
<td>Estimated death rate for children age 0-4 years by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>53</td>
<td>Under-five Mortality Rate by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>54</td>
<td>Death rates for children age 5-14 years by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>55</td>
<td>Death rate for persons age 15-59 years by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>56</td>
<td>Death rate for persons age 60 years and above by sex and residence, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>57</td>
<td>Percentage distribution of deaths by type of medical attention received before death by residence, India and bigger States/UTs, 2018</td>
</tr>
</tbody>
</table>
LIST OF CHARTS

1. Flow chart 9
2. Percentage distribution of population by broad age-groups and residence, India, 2018 13
3. Population Pyramid, India, 2018 14
4. Percentage of child population (0-4 years) to total population by residence, India and bigger States/UTs, 2018 16
5. Percentage of population age 0-14 years to total population by residence, India and bigger States/UTs, 2018 18
6. Percentage of population age 15-59 years to total population by residence, India and bigger States/UTs, 2018 20
7. Percentage of population age 60+ to total population by residence, India and bigger States/UTs, 2018 22
8. Percentage distribution of population by marital status, India and bigger states/UTs, 2018 24
9. Percentage distribution of MALE population by marital status, India and bigger states/UTs, 2018 25
10. Percentage distribution of FEMALE population by marital status, India and bigger states/UTs, 2018 26
11. Percentage distribution of population aged 10+ by marital status, India and bigger states/UTs, 2018 28
12. Percentage distribution of MALE population aged 10+ by marital status, India and bigger states/UTs, 2018 29
13. Percentage distribution of FEMALE population aged 10+ by marital status, India and bigger states/UTs, 2018 30
14. Percentage distribution of female aged 10+ by marital status India and bigger states/UTs, 2018 32
15. Percentage distribution of female aged 10+ by marital status India and bigger states/UTs, 2018 – RURAL 33
16. Percentage distribution of female aged 10+ by marital status India and bigger states/UTs, 2018 – URBAN 34
17. Percentage distribution of female aged 15+ by marital status India and bigger states/UTs, 2018 – RURAL 35
18. Percentage distribution of female aged 15+ by marital status India and bigger states/UTs, 2018 – URBAN 36
18. Percentage distribution of female aged 15+ by marital status India and bigger states/UTs, 2018 – RURAL
19. Percentage distribution of female aged 15+ by marital status India and bigger states/UTs, 2018 - URBAN
20. Female by age at Effective Marriage, India and bigger States/UTs, 2018
21. Female by age at Effective Marriage, India and bigger States/UTs, 2018 – RURAL
22. Female by age at Effective Marriage, India and bigger States/UTs, 2018 – URBAN
23. Mean age at effective marriage of female, India and bigger States/UTs, 2018
24. Mean Age at Effective Marriage of Female, India and bigger States/UTs, 2018 – RURAL
25. Mean Age at Effective Marriage of Female, India and bigger States/UTs, 2018 - URBAN
26. CBR (Crude birth rate) by residence, India and bigger States/UTs, 2018
27. Distribution of bigger States/UTs by values of birth rate for rural and urban areas, 2018
28. Average birth rate between 2006-08 and 2016-18, India and bigger states/UTs
29. Average birth rate between 2006-08 and 2016-18, India and bigger states/UTs - RURAL
30. Average birth rate between 2006-08 and 2016-18, India and bigger states/UTs - URBAN
31. Per cent change in average birth rate between 2006-08 and 2016-18 by residence, India and bigger States/UTs
32. Sex ratio at birth by residence, India and bigger States, 2016-2018
33. GFR (General fertility rate) by residence, India and bigger States/UTs, 2018
34. Distribution of bigger States/UTs by values of GFR (General fertility rate) for rural and urban areas, 2018
35. GFR (General Fertility Rate) between 2006-08 and 2016-18, India and bigger States/UTs
36. GFR (General Fertility Rate) between 2006-08 and 2016-18, India and bigger States/UTs - RURAL
37. GFR (General Fertility Rate) between 2006-08 and 2016-18, India and bigger States/UTs - URBAN
38. Percent change in average GFR (General Fertility Rate) between, 2006-08 and 2016-18 by residence, India and bigger States/UTs

39. ASFRs (Age-specific fertility rates) by residence, India, 2018

40. Age specific fertility rates, India: 2006-08 and 2016-18

41. Per cent change in age specific fertility rates between 2006-08 and 2016-18, India - RURAL

42. Per cent change in age specific fertility rates between 2006-08 and 2016-18, India - URBAN

43. Per cent change in age specific fertility rates by residence between 2006-08 and 2016-18, India

44. Per cent distribution of cumulative fertility by residence, 2018

45. Mean age of fertility, India and bigger states/UTs, 2018

46. TFR (Total fertility rate) by residence, India and bigger States/UTs, 2018

47. Distribution of bigger States/UTs by values of TFR (Total fertility rate) for rural and urban areas, 2018

48. Total fertility rate (TFR) between 2006-08 and 2016-18, India and bigger States/UTs

49. Total fertility rate (TFR) between 2006-08 and 2016-18, India and bigger States/UTs - RURAL

50. Total fertility rate (TFR) between 2006-08 and 2016-18, India and bigger States/UTs - URBAN

51. Per cent change in average Total fertility rate (TFR) between 2006-08 and 2016-18 by residence, India and bigger States/UTs

52. Gross reproduction rate (GRR) by residence, India and bigger states/UTs, 2018

53. Age specific marital fertility rates (ASMFRs) by residence, India, 2018

54. Total marital fertility rate (TMFRs) by residence, India and bigger states/UTs, 2018

55. Average Total Marital fertility rate (TMFR) between 2006-08 and 2016-18, India and bigger States/UTs

56. Average Total Marital fertility rate (TMFR) between 2006-08 and 2016-18, India and bigger States/UTs - RURAL

57. Average Total Marital fertility rate (TMFR) between 2006-08 and 2016-18, India and bigger States/UTs - URBAN
58. Percent change in average Total Marital fertility rate (TMFR) between 2006-08 and 2016-18, India and bigger States/UTs
59. Age specific fertility rate by level of education of women, India, 2018
60. Age specific fertility rate by level of education of women, India, 2018 -RURAL
61. Age specific fertility rate by level of education of women, India, 2018 -URBAN
62. Total fertility rate by level of education of women, India, 2018
63. Percentage distribution of current live births by birth order, 2018
64. Percentage distribution of current live births by birth order - RURAL
65. Percentage distribution of current live births by birth order - URBAN
66. Percentage distribution of second and higher order live births by interval, 2018
67. Percentage distribution of second and higher order live births by interval- RURAL
68. Percentage distribution of second and higher order live births by interval-URBAN
69. Distribution of live births by type of Medical Attention received by the mother at delivery
70. Distribution of live births by type of Medical Attention received by the mother at delivery - RURAL
71. Distribution of live births by type of Medical Attention received by the mother at delivery - URBAN
72. CDR (Crude death rate) by residence, India and bigger States/UTs, 2018
73. Distribution of bigger States/UTs by values of death rate for rural and urban areas, 2018
74. Average Death rate between 2006-08 and 2016-18, India and bigger States/UTs
75. Average Death rate between 2006-08 and 2016-18, India and bigger States/UTs -RURAL
76. Average Death rate between 2006-08 and 2016-18, India and bigger States/UTs - URBAN
77. Per cent change in average death rates between 2006-08 and 2016-18, India and bigger States/UTs
78. Crude death rates by sex and residence, India, 2018
79. Crude death rates by sex, India and bigger States/UTs, 2018
80. Distribution of deaths by broad age groups India and bigger States/UTs, 2018
81. Percentage of Infant deaths to total deaths by residence, 2018
82. Infant mortality rates by sex, India and major states, 2018
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>83.</td>
<td>Infant mortality rates by sex, India and major states, 2018 -RURAL</td>
</tr>
<tr>
<td>84.</td>
<td>Infant mortality rates by sex, India and major states, 2018 -URBAN</td>
</tr>
<tr>
<td>85.</td>
<td>Distribution of bigger States/UTs by IMR (Infant mortality rate) for rural and urban areas, 2018</td>
</tr>
<tr>
<td>86.</td>
<td>Average Infant mortality rate between 2006-08 and 2016-18, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>87.</td>
<td>Average Infant mortality rate between 2006-08 and 2016-18, India and bigger States/UTs -RURAL</td>
</tr>
<tr>
<td>88.</td>
<td>Average Infant mortality rate between 2006-08 and 2016-18, India and bigger States/UTs - URBAN</td>
</tr>
<tr>
<td>89.</td>
<td>Per cent change in average Infant mortality rates between 2006-08 and 2016-18, India and bigger States/UTs</td>
</tr>
<tr>
<td>90.</td>
<td>Neo-natal mortality rates and percentage share of neo-natal deaths to infant deaths, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>91.</td>
<td>Neo-natal mortality rates and percentage share of neo-natal deaths to infant deaths, India and bigger States/UTs, 2018 - RURAL</td>
</tr>
<tr>
<td>92.</td>
<td>Neo-natal mortality rates and percentage share of neo-natal deaths to infant deaths by residence, India and bigger States/UTs, 2018 - URBAN</td>
</tr>
<tr>
<td>93.</td>
<td>Early neo-natal mortality rates and percentage share of early neo-natal deaths to infant deaths, India and bigger States/UTs, 2018</td>
</tr>
<tr>
<td>94.</td>
<td>Early neo-natal mortality rates and percentage share of early neo-natal deaths to infant deaths, India and bigger States/UTs, 2018 - RURAL</td>
</tr>
<tr>
<td>95.</td>
<td>Early neo-natal mortality rates and percentage share of early neo-natal deaths to infant deaths, India and bigger States/UTs, 2018 - URBAN</td>
</tr>
<tr>
<td>96.</td>
<td>Perinatal mortality rates, India &amp; bigger States/UTs, 2018</td>
</tr>
<tr>
<td>97.</td>
<td>Still birth rates, India &amp; bigger States/UTs, 2018</td>
</tr>
<tr>
<td>98.</td>
<td>Percentage of deaths in the age group 0-4 years to total deaths, India and bigger States/UTs</td>
</tr>
<tr>
<td>99.</td>
<td>Estimated death rate for children age 0-4 years by sex, 2018</td>
</tr>
<tr>
<td>100.</td>
<td>Estimated death rate for children age0-4 years by sex, 2018 – RURAL</td>
</tr>
<tr>
<td>101.</td>
<td>Estimated death rate for children age0-4 years by sex, 2018 - URBAN</td>
</tr>
<tr>
<td>102.</td>
<td>Under-five Mortality Rates (U5MR) by sex, India &amp; bigger States/UTs, 2018</td>
</tr>
</tbody>
</table>
103. Under-five Mortality Rates (U5MR) by sex, India & bigger States/UTs, 2018- RURAL
104. Under-five Mortality Rates (U5MR) by sex, India & bigger States/UTs, 2018-URBAN
105. Death rates for children aged 5-14 years by sex, India and bigger States/UTs, 2018
106. Death rates for children aged 5-14 years by sex, India and bigger States/UTs, 2018 - RURAL
107. Death rates for children aged 5-14 years by sex, India and bigger States/UTs, 2018 - URBAN
108. Death rates for Persons aged 15-59 years by sex, India and bigger States/UTs, 2018
109. Death rates for Persons aged 15-59 years by sex, India and bigger States/UTs, 2018 - RURAL
110. Death rates for Persons aged 15-59 years by sex, India and bigger States/UTs, 2018 - URBAN
111. Death rates for Persons aged 60 years and above by sex, India and bigger States/UTs, 2018
112. Death rates for Persons aged 60 years and above by sex, India and bigger States/UTs, 2018 - RURAL
113. Death rates for Persons aged 60 years and above by sex, India and bigger States/UTs, 2018 - URBAN
114. Distribution of deaths by Type of Medical Attention received before death, India & bigger States/UTs, 2018
115. Distribution of deaths by Type of Medical Attention received before death, India & bigger States/UTs, 2018 - RURAL
116. Distribution of deaths by Type of Medical Attention received before death, India & bigger States/UTs, 2018 - URBAN
**DEFINITIONS**

- **Crude birth rate (CBR)**
  \[ \text{Number of live births during the year} \times 1000 \]
  \[ \text{Mid-year population} \]

- **Age-specific fertility rate (ASFR)**
  \[ \text{Number of live births in a particular age-group} \times 1000 \]
  \[ \text{Mid-year female population of the same age-group} \]

- **General fertility rate (GFR)**
  \[ \text{Number of live births in a year} \times 1000 \]
  \[ \text{Mid-year female population in the age-group (15-49) years} \]

  \[ 45-49 \]
  \[ 5 \times \sum \text{ASFR} \]
  \[ 15-19 \]

- **Total fertility rate (TFR)**
  \[ \text{Number of live births in a year} \times 1000 \]

  \[ 45-49 \]
  \[ 5 \times \sum \text{ASFR for female live births} \]
  \[ 15-19 \]

- **Gross reproduction rate (GRR)**
  \[ \text{Number of live births in a particular age-group} \times 1000 \]

  \[ 45-49 \]
  \[ 5 \times \sum \text{ASMFR} \]
  \[ 15-19 \]

- **Age-specific marital fertility rate (ASMFR)**
  \[ \text{Number of live births in a particular age-group} \times 1000 \]
  \[ \text{Mid-year married female population of the same age-group} \]

- **General marital fertility rate (GMFR)**
  \[ \text{Number of live births in a year} \times 1000 \]
  \[ \text{Mid-year married female population in the age-group (15-49) year} \]

  \[ 45-49 \]
  \[ 5 \times \sum \text{ASMFR} \]
  \[ 15-19 \]

- **Total marital fertility rate (TMFR)**
  \[ \text{Number of live births in a year} \times 1000 \]

- **Crude death rate (CDR)**
  \[ \text{Number of deaths during the year} \times 1000 \]
  \[ \text{Mid-year population} \]
Age-specific mortality rate (ASMR) = \frac{\text{Number of deaths in a particular age-group}}{\text{Mid-year population of the same age-group}} \times 1000

Under-five Mortality Rate = \frac{\text{Number of infant deaths during the year}}{\text{Mid-year population of the same age-group}} \times 1000

Under-five mortality is the probability \(5q_0\) that a child born in a specific year or time period will die before reaching the age of five, subject to current age specific mortality rates. It is expressed as a rate per 1,000 live births.

Infant mortality rate (IMR) = \frac{\text{Number of infant deaths during the year}}{\text{Number of live births during the year}} \times 1000

Infant mortality rate comprises of two parts viz. Neo-natal mortality rate and Post neo-natal mortality rate. The neo-natal mortality rate also comprises of two parts viz. Early neo-natal mortality rate and late neo-natal mortality rate. These are defined as:

Neo-natal mortality rate (NMR) = \frac{\text{Number of infant deaths of < than 29 days during the year}}{\text{Number of live births during the year}} \times 1000

Early neo-natal mortality rate = \frac{\text{Number of infant deaths of < than 7 days during the year}}{\text{Number of live births during the year}} \times 1000

Late neo-natal mortality rate = \frac{\text{Number of infant deaths of 7 days to < than 29 days during the year}}{\text{Number of live births during the year}} \times 1000

Post neo-natal mortality rate (PNMR) = \frac{\text{Number of infant deaths of 29 days to < than one year during the year}}{\text{Number of live births during the year}} \times 1000

Peri-natal mortality rate (PMR) = \frac{\text{Number of still births and infant deaths of < than 7 days during the year}}{\text{Number of live births and still births during the year}} \times 1000

Still birth rate (SBR) = \frac{\text{Number of still births during the year}}{\text{Number of live births and still births during the year}} \times 1000