

Maternal mortality in 1990-2015

WHO, UNICEF, UNFPA, World Bank Group, and United Nations Population Division
Maternal Mortality Estimation Inter-Agency Group

INDIA

| Year | Maternal mortality ratio (MMR) ^a | Maternal deaths | AIDS-related indirect maternal deaths | Live births ^b | Proportion of maternal deaths among deaths of female reproductive age (PM %) |
|------|---|-----------------|---------------------------------------|--------------------------|--|
| | Per 100 000 live births (lb) | Numbers | Numbers | Thousands | |
| 1990 | 556 [445-685] | 152000 | 5 | 27430 | 19.7 |
| 1995 | 471 [396-560] | 130000 | 53 | 27671 | 16.4 |
| 2000 | 374 [324-437] | 104000 | 280 | 27884 | 13.0 |
| 2005 | 280 [240-324] | 77000 | 520 | 27634 | 9.8 |
| 2010 | 215 [183-255] | 57000 | 400 | 26566 | 7.6 |
| 2015 | 174 [139-217] | 45000 | 280 | 25794 | 6.2 |

^a MMR and PM are calculated for women 15-49 years.

^b Live birth data are from World Population Prospects: the 2015 Revision. New York, Population Division, Department of Economic and Social Affairs, United Nations Secretariat; 2015.

| Annual Rate of Reduction | (%) |
|--------------------------|-----------------|
| 1990-2015 | 4.6 [3.5 - 5.7] |
| 1990-2000 | 4 [1.8 - 5.6] |
| 2000-2015 | 5.1 [3.7 - 6.7] |
| 2005-2015 | 4.7 [2.9 - 6.7] |

Available data sources

Data from civil registration system:

| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Maternal deaths ^c | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Late maternal deaths ^d | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Female deaths ^e | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Adjustment factor ^f | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Maternal deaths not included ^g | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | |
| Maternal deaths ^c | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Late maternal deaths ^d | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Female deaths ^e | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Adjustment factor ^f | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Maternal deaths not included ^g | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |

^c ICD10 codes O00-O99 Pregnancy, childbirth and the puerperium and A34 Obstetrical tetanus; ICD9 codes 630-676 Complications of pregnancy, childbirth and the puerperium.

^d ICD10 codes O96 and O97.

^e Female deaths data are from WHO VR database 2015.

^f For details on the adjustment factor please refer to: WHO, UNICEF, UNFPA, World Bank Group and the United Nations Population Division. Trends in maternal mortality: 1990 to 2015. Geneva: World Health Organization; 2015.

^g Did not meet inclusion criteria or confidential inquiry used instead.

Available data sources (continued)

Data from studies **included** in analysis:

| Source | Definition | Study period | Maternal deaths | Female deaths, 15-49 | PM(%) | MMR per 100 000 lb | Adjusted MMR per 100 000 lb |
|-------------------------------|------------|--------------|-----------------|----------------------|-------|--------------------|-----------------------------|
| NFHS-1: 1992-93 | Maternal | 1991-1993 | | | | 437 | 481 |
| Maternal Mortality 1997-1998 | Maternal | 1997-1999 | | | | 398 | 438 |
| NFHS-2: 1998-99 | Maternal | 1998-2000 | | | | 540 | 594 |
| Maternal Mortality 1999-2001 | Maternal | 1999-2002 | | | | 327 | 360 |
| Million Death Study 2001-2003 | Maternal | 2001-2004 | | | | 301 | 331 |
| Maternal Mortality 2004-2006 | Maternal | 2004-2007 | | | | 254 | 279 |
| Maternal Mortality 2007-2009 | Maternal | 2007-2010 | | | | 212 | 233 |
| Maternal Mortality 2010-2012 | Maternal | 2010-2013 | | | | 178 | 196 |
| Maternal Mortality 2011-2013 | Maternal | 2011-2014 | | | | 167 | 184 |

Data from studies **not included** in analysis:

| Source | Definition | Study period | Maternal deaths | Female deaths, 15-49 | PM(%) | MMR per 100 000 lb | Adjusted MMR per 100 000 lb |
|--------|------------|--------------|-----------------|----------------------|-------|--------------------|-----------------------------|
|--------|------------|--------------|-----------------|----------------------|-------|--------------------|-----------------------------|

Covariates used in the model

| Year | GDP per capita, PPP (constant 2011 Int \$) | General Fertility Rate per 1000 women 15-49 | Skilled attendance at birth (% of births) |
|------|---|--|--|
| 1990 | 1782 | 133 | 32 |
| 1995 | 2105 | 119 | 37 |
| 2000 | 2589 | 107 | 42 |
| 2005 | 3358 | 96 | 48 |
| 2010 | 4562 | 85 | 54 |
| 2015 | 5572 | 77 | 60 |

GDP per capita measured in purchasing power parity (PPP) equivalent dollars, reported as constant 2011 international dollars, based on estimates published by World Bank Group.

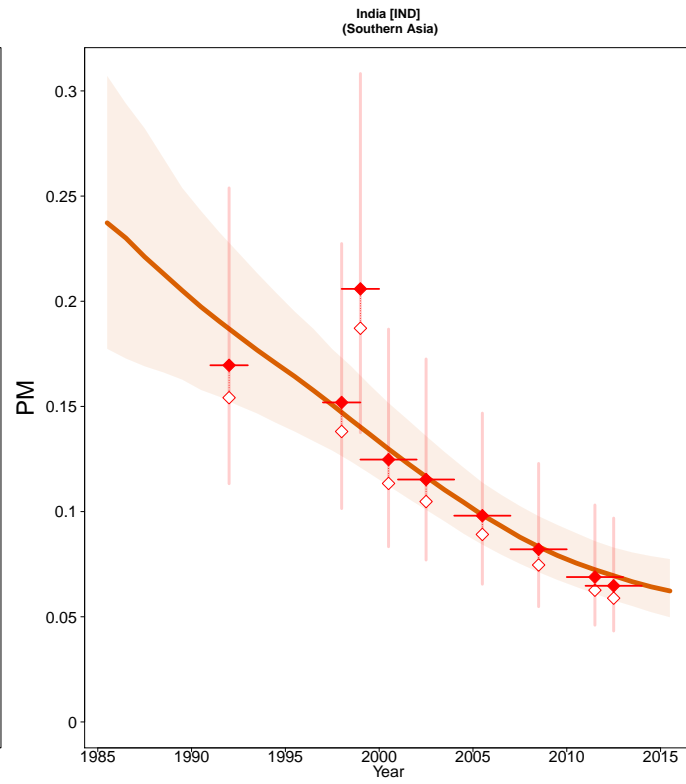
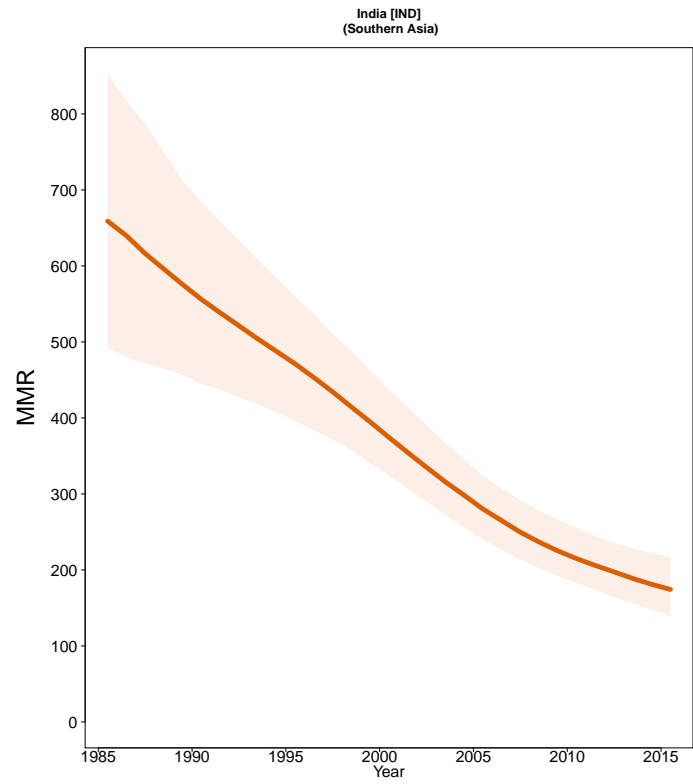
Source: World Bank Group, International Comparison Program database, 2014.

General fertility rate

Source: World Population Prospects: the 2015 Revision. New York, Population Division, Department of Economic and Social Affairs, United Nations Secretariat; 2015.

Percentage of births attended by skilled health personnel (doctors, nurses or midwives).

Source: UNICEF global databases 2015, based on MICS, DHS and other nationally representative sources. (<http://data.unicef.org/>).



- Estimates -
- MMEIG 2015
- MMR Database 2015 -
- ◇ Observed Data
- ◆ Adjusted Data
- Data type -
- ◆ Misc. studies