

Maternal mortality in 1990-2015

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

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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	1730 [1180-2440]	4600	0	266	42.4
1995	1530 [1080-2110]	4000	7	263	44.6
2000	1310 [970-1760]	3700	40	286	33.2
2005	1090 [826-1410]	3600	82	331	24.8
2010	876 [639-1190]	3400	98	388	20.0
2015	789 [523-1150]	3500	50	446	22.7

^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	3.1 [1.4 - 4.7]
1990-2000	2.8 [-0.3 - 5]
2000-2015	3.4 [1.3 - 6]
2005-2015	3.2 [0.6 - 6.5]

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
SHHS 2006	Maternal Pregnancy-related	2004-2006				2037	2241
Census 2008		2007-2008				591	539

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
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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	2312	201	10
1995	2474	212	12
2000	2852	190	14
2005	3439	178	17
2010	3513	165	20
2015	2368	152	24

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.

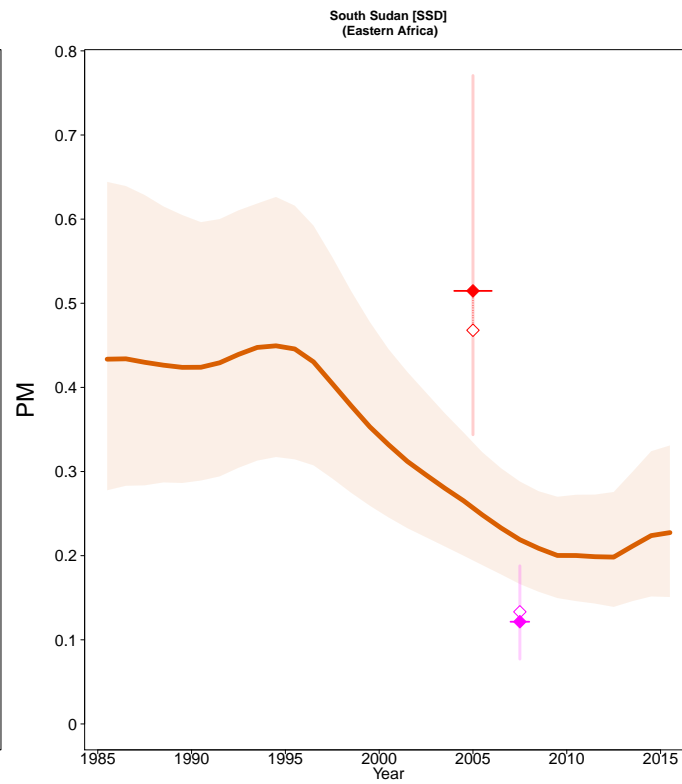
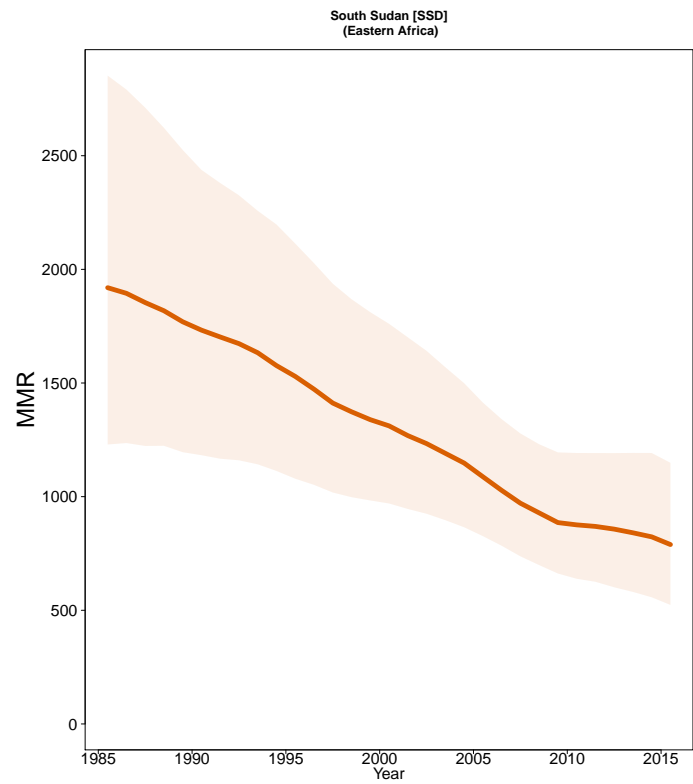
Source: World Bank Group, International Comparison Program database, 2014.

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 -
- ◆ Census
- ◆ Misc. studies