Codebook: Global Maternal Health, 2014

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Overview of Data

This dataset includes data on eight maternal health indicators from 2014 in 66 countries, plus additional variables that further contextualize each country. This dataset was created to analyze how various maternal health indicators correlate with a country's maternal mortality ratio, and how these indicators can be compared between countries, regions, and income groups.

Sources and Methodology

This dataset combines secondary health data from the UNICEF Maternal and Newborn Health Coverage Database and the World Bank DataBank tool. The dataset contains information from UNICEF on 66 countries representing 8 world regions and categorized into 4 income groups. Indicator data covers the percentage of the population in 2014 who received antenatal care (separated by at least one visit and at least 4 visits), gave birth in a health facility, gave birth through a cesarean section, had a skilled birth attendant present at birth, and received postnatal care (separated by mother and newborn). This data was merged with the World Bank's data on each country's maternal mortality ratio from 2014. All of the countries in this dataset were separated by quintile using the maternal mortality ratio variable and categorized relative to the other countries in the dataset as very low, low, middle, high, or very high.

Citations:

The World Bank. (2024). World development indicators. DataBank. https://databank.worldbank.org/reports.aspx?source=2&series=SH.STA.MMRT&country=#

UNICEF. (2022, December 1). Maternal and newborn health coverage database. https://data.unicef.org/resources/dataset/delivery-care/

Note on missing values

In this dataset, missing values are notated with `NA`.

Variables

1. Country

Variable name: `country`

Variable type: character

Description: Name of the country

Countries included: Afghanistan, Austria, Bangladesh, Benin, Bolivia, Brazil, Bulgaria, Cambodia, Cameroon, Chile, China, Costa Rica, Croatia, Cuba, Cyprus, Democratic Republic of the Congo, Dominican Republic, Ecuador, Egypt, El Salvador, Estonia, Eswatini, Ethiopia, Finland, Georgia, Germany, Ghana, Guinea-Bissau, Guyana, India, Ireland, Japan, Kenya, Kosovo, Kuwait, Kyrgyz Republic, Latvia, Lesotho, Malawi, Malaysia, Mexico, Mongolia, Nepal, New Zealand, Norway, Oman, Pakistan, Peru, Poland, Portugal, Romania, Samoa, Sao Tome and Principe, Senegal, Serbia, Singapore, South Africa, Sri Lanka, State of Palestine, Sudan, Togo, Turkey, Uzbekistan, Viet Nam, Zambia, Zimbabwe

2. Region

Variable name: `region`

Variable type: character

Description: UNICEF reporting region

values	labels	freq
1	East Asia and Pacific	9
2	Eastern Europe and Central Asia	9
3	Eastern and Southern Africa	9
4	Latin America and Caribbean	11
5	Middle East and North Africa	4
6	South Asia	6
7	West and Central Africa	8
8	Western Europe	10

3. Income Group

Variable name: `income_group`

Variable type: factor

Description: World Bank Income Group (2020)

values	labels	freq
1	Low income	7
2	Lower middle income	25
3	Upper middle income	17
4	High income	17

4. Antenatal Care Coverage (at least one visit)

Variable name: `anc1`

Variable type: numeric

Description: Percentage of women (age 15–49) attended at least once during pregnancy by skilled health personnel

n	min	max	mean	median
66	41.2	99.8	90.2	95.7

5. Antenatal Care Coverage (at least four visits)

Variable name: `anc4`

Variable type: numeric

Description: Percentage of women (age 15–49) attended at least four times during pregnancy by any provider

n	min	max	mean	median
66	22.7	99.3	73.4	76.1

6. Delivered in a Health Facility

Variable name: `facility`

Variable type: numeric

Description: Percentage of deliveries in a health facility

n	min	max	mean	median
66	16.4	99.9	86	96.6

7. Delivered via Cesarean Section

Variable name: `csec`

Variable type: numeric

Description: Percentage of deliveries by Cesarean section

n	min	max	mean	median
66	1.4	35.7	15.6	16

8. Delivery Assisted by a Skilled Birth Attendant

Variable name: `sba`

Variable type: numeric

Description: Percentage of births delivered by a skilled health personnel (typically doctor, midwife and/or nurse)

n	min	max	mean	median
66	16.4	99.9	86	96.6

9. Post-natal Check Up for Mothers

Variable name: `pncmom`

Variable type: numeric

Description: Percentage of women (age 15–49) who received postnatal care within 2 days after birth

n	min	max	mean	median
66	13.2	99.2	74	79.7

10. Post-natal Check Up for Newborns

Variable name: `pncnb`

Variable type: numeric

Description: Percentage of newborns who have a postnatal contact with a health provider within 2 days of delivery

n	min	max	mean	median
66	8.2	98.6	68.1	81

11. Maternal Mortality Ratio

Variable name: `mmr`

Variable type: numeric

Description: Number of maternal deaths per 100,000 live births

n	min	max	mean	median
66	2	785	164.9	55

12. Maternal Mortality Ratio Grouping

Variable name: `mmr_group`

Variable type: factor

Description: Quintile groupings of maternal mortality ratio based on the MMRs in the dataset

values	labels	freq
1	Very low	13
2	Low	13
3	Middle	12
4	High	13
5	Very high	13
6	NA	2