

PRISMA-Maternal-Outcomes (Issued: 2024 April 10)

Includes data from synapse last updated: 2024 April 5

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1. Maternal mortality

Definitions:

- Maternal mortality: Death from any cause **related to or aggravated by pregnancy or its management** (excluding accidental or incidental causes) during pregnancy and childbirth or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy.
- Late maternal mortality: Death from any cause **related to or aggravated by pregnancy or its management** (excluding accidental or incidental causes), irrespective of the duration and site of the pregnancy, from 42 days postpartum up to one year.
- Pregnancy-related death: death **from any cause** during pregnancy and childbirth or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy.
- Late pregnancy-related death: death from any cause, irrespective of the duration and site of the pregnancy, from 42 days postpartum up to one year.
- Any death: any death that occurs at any point during the study, from any cause.

Denominator: TBD

To be included as “non-missing” for this outcome, a participant must have:

1. Completed closeout form [MNH23] reporting that the woman died (varname [form]: CLOSE_DSDECOD==3 [MNH23]), AND/OR
2. Form indicates that maternal status is reported as died (varname [form]: MAT_VITAL_MNHxx==2 [MNH04, MNH10, MNH12]), AND/OR
3. Form indicates that visit not completed because the woman died (varname [form]: MAT_VITAL_MNHxx==8 [MNH04, MNH10, MNH12]).
4. *For maternal and late maternal mortality:* Cause of death is not due to accidental or incidental causes (ACC_DDORRES [MNH23, MNH04]) but is due to pregnancy or management of pregnancy [MNH27].

Common causes for a participant to be marked as “Missing”:

- Cause of death is unknown: (ACC_DDORRES [MNH23, MNH04]) is 77, Not applicable; and analysis of verbal autopsy data [MNH27] is forthcoming.
- Missing date of maternal death.

Table 1. Maternal mortality

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Maternal death						
Any death ^a , n	1	0	0	1	9	1
Data completeness						
Missing cause of death information, n	1	0	0	1	9	1
Missing date of death information, n	1	0	0	1	2	0
Pregnancy-related death, n	0	0	0	0	6	1
Late pregnancy-related death, n	0	0	0	0	1	0
Maternal mortality ^b , n	0	0	0	0	0	0
Later maternal mortality ^b , n	0	0	0	0	0	0

^a Any death includes deaths occurring at any time and for any reason, including accidental/incidental causes.

^b Maternal mortality and late maternal mortality require information on cause of death which is currently unavailable.

Note Currently all entries are missing information for cause of death, and a few entries are missing date of death information.

2. Maternal anemia

2a. Maternal anemia in pregnancy

Definition: Low hemoglobin levels in pregnancy, as based on results from complete blood count (CBC) measures or point-of-care hemoglobin tests. Levels of anemia in pregnancy are defined as: no anemia (≥ 11 g/dL); mild anemia ($\geq 10 & < 11$ g/dL); moderate anemia ($\geq 7 & < 10$ g/dL); severe anemia (< 7 g/dL)

Denominator: All participants with completed pregnancies including:

- Valid gestational age information provided at enrollment visit in M NH01 including: (varname: US_GA_WKS_AGE_FTS1-4,US_GA_DAYS_AGE_FTS1-4, GA_LMP_WEEKS_SCORRES, US_OHOSTDAT)
- Confirmed enrollment in form M NH02.
- Confirmed pregnancy end date in M NH09.

Table 2a. Maternal anemia in pregnancy

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data completeness						
Missing both US and LMP GA or ultrasound date [M NH01]	1 (0.16)	0 (0)	0 (0)	3 (0.37)	2 (0.1)	0 (0)
Missing BOTH CBC result and POC result with a sample date in pregnancy	3 (0.48)	0 (0)	0 (0)	0 (0)	1 (0.05)	0 (0)
All completed pregnancies (with M NH09 filled)						
No anemia (≥ 11 g/dL)	82 (13)	84 (52)	0 (0)	328 (41)	366 (19)	211 (42)
Mild anemia ($\geq 10 & < 11$ g/dL)	210 (34)	55 (34)	0 (0)	203 (25)	516 (27)	175 (35)
Moderate anemia ($\geq 7 & < 10$ g/dL)	317 (51)	23 (14)	0 (0)	246 (31)	983 (51)	113 (23)
Severe anemia (< 7 g/dL)	9 (1.4)	0 (0)	0 (0)	22 (2.7)	55 (2.9)	1 (0.2)
Missing (no hemoglobin data with test date in pregnancy)	4 (0.64)	0 (0)	0 (0)	3 (0.37)	3 (0.16)	0 (0)

Note: This table presents anemia diagnosis based on measured hemoglobin levels. For each observation, we rely on whole blood/CBC measures of hemoglobin first, filling in point-of-care measures of hemoglobin only when no CBC result exists for the window of interest. For each participant, this table presents the worst anemia status observed during the window of interest.

2b. Maternal anemia in pregnancy by trimester

Definition: Low hemoglobin levels in each trimester, as based on results from complete blood count (CBC) measures or point-of-care hemoglobin tests. Levels of anemia in pregnancy are defined as: no anemia (≥ 11 g/dL); mild anemia (≥ 10 & < 11 g/dL); moderate anemia (≥ 7 & < 10 g/dL); severe anemia (< 7 g/dL).

Denominator: All participants that completed the trimester of interest including:

- Valid gestational age information provided at enrollment visit in M NH01 including: (varname: US_GA_WKS_AGE_FTS1-4, US_GA_DAYS_AGE_FTS1-4, GA_LMP_WEEKS_SCORRES, US_OHOSTDAT)
- The participant is confirmed to be enrolled in the study based on form M NH02.
- The participant has completed the trimester of interest based on the Best Obstetric Estimate of the participant's due date collected at enrollment and the date of the most recent data upload to Synapse.
- For Trimester 1, participant was recruited during the first trimester (prior to 14 weeks gestation based on Best Obstetric Estimate of gestational age at enrollment).

Note: This table contains pregnancies that are not yet completed; therefore, the denominator for each outcome varies by the trimester window of interest.

Table 2b. Maternal anemia prevalence by trimester of pregnancy, ongoing data collection

	Trimester 1					
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data completeness						
Missing both US and LMP GA or ultrasound date [M NH01]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Missing BOTH CBC result and POC result with a sample date in Trimester 1	51 (11)	4 (1.2)	154 (52)	8 (1.3)	21 (1.2)	46 (10)
All pregnancies recruited in Trimester 1 & completed Trimester 1 by data upload date						
No anemia (≥ 11 g/dL)	271 (57)	283 (83)	91 (31)	441 (71)	1233 (69)	349 (78)
Mild anemia (≥ 10 & < 11 g/dL)	103 (22)	35 (10)	26 (8.8)	97 (16)	307 (17)	36 (8)
Moderate anemia (≥ 7 & < 10 g/dL)	48 (10)	18 (5.3)	24 (8.1)	72 (12)	201 (11)	18 (4)
Severe anemia (< 7 g/dL)	1 (0.21)	1 (0.29)	1 (0.34)	7 (1.1)	20 (1.1)	0 (0)
Missing (no hemoglobin data with test date in pregnancy)	51 (11)	4 (1.2)	154 (52)	8 (1.3)	21 (1.2)	46 (10)

Table 2b continued

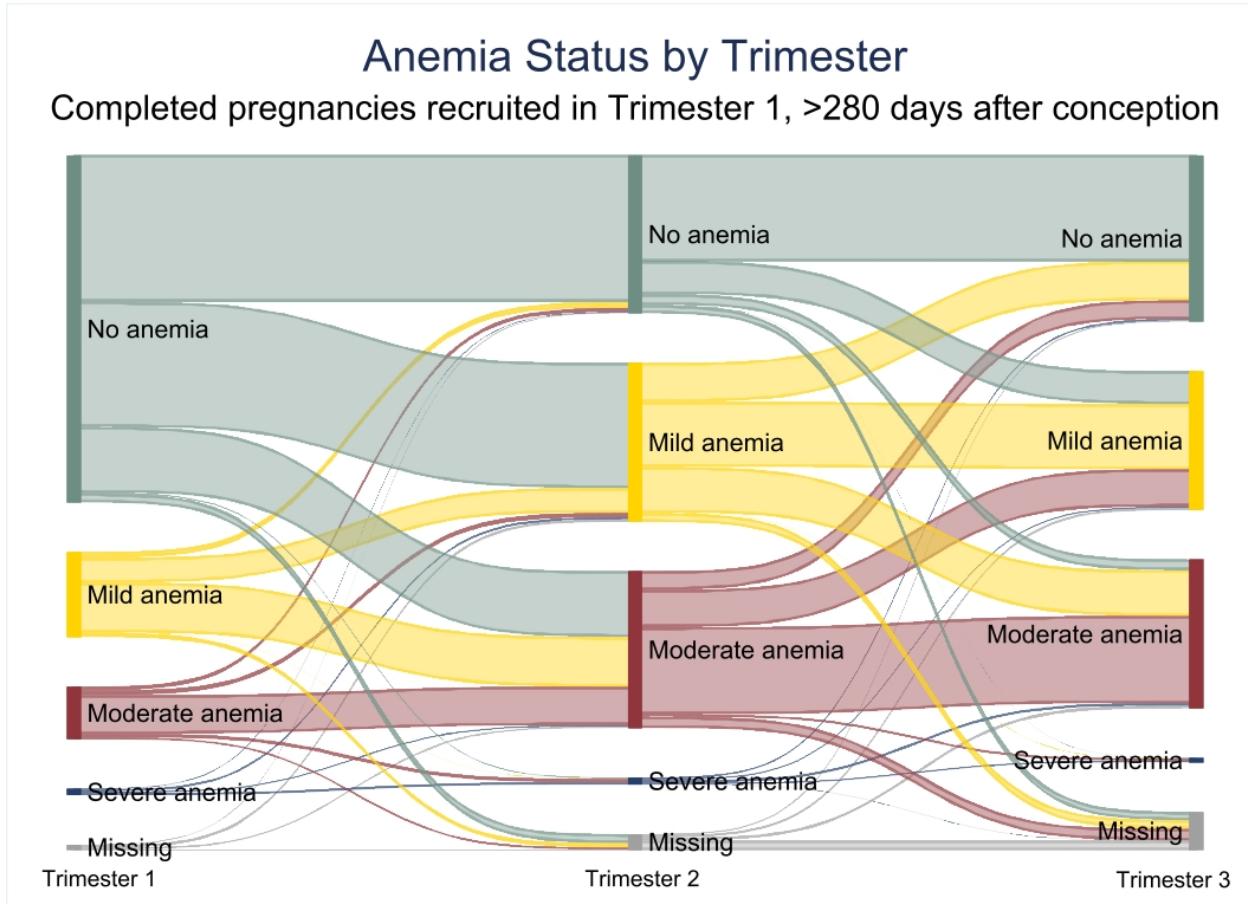
	Trimester 2					
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data completeness						
Missing both US and LMP GA or ultrasound date [MNH01]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Missing BOTH CBC result and POC result with a sample date in Trimester 2	118 (11)	11 (2.8)	4 (67)	39 (3.5)	123 (5.1)	56 (6.6)
All pregnancies that completed Trimester 2 by data upload date						
No anemia (≥ 11 g/dL)	193 (19)	240 (62)	2 (33)	437 (40)	687 (28)	440 (52)
Mild anemia (≥ 10 & < 11 g/dL)	345 (33)	102 (26)	0 (0)	324 (29)	725 (30)	240 (28)
Moderate anemia (≥ 7 & < 10 g/dL)	379 (36)	32 (8.3)	0 (0)	277 (25)	848 (35)	111 (13)
Severe anemia (< 7 g/dL)	7 (0.67)	1 (0.26)	0 (0)	27 (2.4)	37 (1.5)	1 (0.12)
Missing (no hemoglobin data with test date in pregnancy)	118 (11)	11 (2.8)	4 (67)	39 (3.5)	123 (5.1)	56 (6.6)

Table 2b continued

	Trimester 3					
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data completeness						
Missing both US and LMP GA or ultrasound date [MNH01]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Missing BOTH CBC result and POC result with a sample date in Trimester 3	189 (23)	19 (9.8)	0 (0)	81 (9.3)	295 (14)	82 (12)
All pregnancies that completed Trimester 3 by data upload date						
No anemia (≥ 11 g/dL)	131 (16)	129 (66)	0 (0)	315 (36)	599 (29)	320 (48)
Mild anemia (≥ 10 & < 11 g/dL)	207 (26)	30 (15)	0 (0)	213 (24)	537 (26)	174 (26)
Moderate anemia (≥ 7 & < 10 g/dL)	273 (34)	16 (8.2)	0 (0)	250 (29)	654 (31)	94 (14)
Severe anemia (< 7 g/dL)	9 (1.1)	0 (0)	0 (0)	14 (1.6)	12 (0.57)	0 (0)
Missing (no hemoglobin data with test date in pregnancy)	189 (23)	19 (9.8)	0 (0)	81 (9.3)	295 (14)	82 (12)

Note**This table presents anemia diagnosis based on measured hemoglobin levels. For each observation, we rely on whole blood/CBC measures of hemoglobin first, filling in point-of-care measures of hemoglobin only when no CBC result exists for the window of interest. For each participant, this table presents the worst anemia status observed during the window of interest if multiple tests are provided.

Figure 1. Anemia status by trimester



2c. Maternal anemia in the postpartum period

Definition: Low hemoglobin levels in the postpartum period, as based on results from complete blood count (CBC) measures or point-of-care hemoglobin tests. Levels of anemia in the postpartum period are defined as: no anemia (≥ 12 g/dL); mild anemia (≥ 11 & < 12 g/dL); moderate anemia (≥ 8 & < 11 g/dL); severe anemia (< 8 g/dL).

Denominator: All participants with completed pregnancies including:

- Confirmed enrollment in form M NH02.
- Confirmed pregnancy end date in M NH09.
- The participant has completed the postpartum window of interest based on the pregnancy end date reported in M NH09 and the date of the most recent data upload to Synapse.

Note: This table contains participants still progressing through postpartum follow-up; therefore, the denominator for each outcome varies by the postpartum window of interest.

Table 2c. Maternal anemia prevalence postpartum, ongoing data collection

Table 2c		Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data completeness at PNC-6 ^a							
Missing pregnancy end date [MNH09]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Missing BOTH CBC result and POC result with a sample date in PNC-6 window	326 (62)	4 (25)	0 (0)	39 (6.9)	592 (38)	378 (91)	
Maternal anemia prevalence at PNC-6 ^a							
No anemia (>=12 g/dL)	98 (19)	10 (62)	0 (0)	316 (56)	589 (37)	29 (7)	
Mild anemia (>=11 & <12 g/dL)	58 (11)	1 (6.2)	0 (0)	124 (22)	245 (16)	8 (1.9)	
Moderate anemia (>=8 & <11 g/dL)	46 (8.7)	1 (6.2)	0 (0)	79 (14)	138 (8.8)	1 (0.24)	
Severe anemia (< 8 g/dL)	0 (0)	0 (0)	0 (0)	8 (1.4)	9 (0.57)	0 (0)	
Missing	326 (62)	4 (25)	0 (0)	39 (6.9)	592 (38)	378 (91)	
Data completeness at PNC-26 ^b							
Missing pregnancy end date [MNH09]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Missing BOTH CBC result and POC result with a sample date in PNC26 window	66 (96)	0 (0)	0 (0)	13 (14)	489 (100)	15 (33)	
Maternal anemia prevalence at PNC-26 ^b							
No anemia (>=12 g/dL)	1 (1.4)	0 (0)	0 (0)	42 (45)	0 (0)	18 (39)	
Mild anemia (>=11 & <12 g/dL)	2 (2.9)	0 (0)	0 (0)	19 (20)	0 (0)	11 (24)	
Moderate anemia (>=8 & <11 g/dL)	0 (0)	0 (0)	0 (0)	18 (19)	0 (0)	2 (4.3)	
Severe anemia (< 8 g/dL)	0 (0)	0 (0)	0 (0)	2 (2.1)	0 (0)	0 (0)	
Missing	66 (96)	0 (0)	0 (0)	13 (14)	489 (100)	15 (33)	

^a Prevalence is based on tests during the PNC-6 late visit window (6-12 weeks postpartum).

^b Prevalence is based on tests during the PNC-26 late visit window (26-39 weeks postpartum).

Note This table presents anemia diagnosis based on measured hemoglobin levels. For each observation, we rely on whole blood/CBC measures of hemoglobin first, filling in point-of-care measures of hemoglobin only when no CBC result exists for the postpartum window of interest. For each participant, this table presents the worst anemia status observed during the postpartum window of interest if multiple tests are provided.

3. Preterm delivery classification

3a. Preterm delivery

Definition: Preterm delivery prior to 37 completed weeks of gestation at birth, excluding pregnancy losses prior to 20 weeks gestation.

Denominator: All participants with recorded delivery (including livebirth OR stillbirth) after 20 weeks with:

- Valid gestational age information provided at enrollment visit in M NH01 including: (varname: US_GA_WKS AGE_FTS1-4, US_GA_DAYS AGE_FTS1-4, GA_LMP_WEEKS_SCORRES, US_OHOSTDAT)
- M NH09 form filled and date of delivery for first fetus/infant provided (varname [form]: DELIV_DSSTDAT_INF1 [M NH09]).

Note: Gestational age information collected in M NH01 is used to generate best obstetric estimates for EDD. These constructed variables are then used to calculate GA at time of birth.

3b. Provider-initiated preterm delivery

Definition: Provider-initiated early delivery via induction of labor, artificial rupture of membranes, or cesarean delivery prior to (or without) spontaneous labor or spontaneous rupture of membranes.

Denominator: All preterm deliveries as defined above.

3c. Spontaneous preterm delivery

Definition: Preterm delivery occurring spontaneously, with spontaneous onset of labor and/or spontaneous rupture of membranes initiating the delivery.

Denominator: All preterm deliveries as defined above.

Table 3a. Preterm delivery & preterm classification

Table 3a					
	Ghana	India-CMC	Kenya	Pakistan	Zambia
Data Completeness (among all completed pregnancies with MNH01 and MNH09, excluding pregnancy loss <20 weeks)					
Missing both US and LMP GA or ultrasound date [MNH01]	1 (0.16)	0 (0)	0 (0)	1 (0.05)	0 (0)
Missing date of pregnancy endpoint [MNH09]	0 (0)	0 (0)	4 (0.5)	0 (0)	0 (0)
Missing information on labor onset or rupture of membranes [MNH09]	9 (1.5)	4 (2.5)	11 (1.4)	9 (0.47)	13 (2.6)
Preterm delivery (among all completed pregnancies with MNH01 and MNH09, excluding pregnancy loss <20 weeks)					
Preterm delivery (20 to <37 weeks)	43 (7)	23 (14)	90 (11)	441 (23)	86 (17)
Term delivery (>=37 weeks)	573 (93)	139 (86)	705 (88)	1479 (77)	414 (83)
Missing	1 (0.16)	0 (0)	4 (0.5)	1 (0.05)	0 (0)
Preterm classification (among all preterm deliveries)					
Provider-initiated preterm	11 (26)	8 (35)	24 (27)	41 (9.3)	27 (31)
Spontaneous preterm	23 (53)	11 (48)	55 (61)	391 (89)	46 (53)
Missing	9 (21)	4 (17)	11 (12)	9 (2)	13 (15)

Table 3b. Provider-initiated preterm delivery by indication

Table 3b	Ghana	India-CMC	Kenya	Pakistan	Zambia
Maternal conditions & pregnancy history					
Diabetes(chronic or gestational)	0 (0)	0 (0)	1 (4.2)	0 (0)	0 (0)
Cardiac disease	0 (0)	0 (0)	0 (0)	1 (2.4)	0 (0)
Hypertension (chronic or gestational)	0 (0)	0 (0)	0 (0)	4 (9.8)	0 (0)
Preeclampsia/ eclampsia	0 (0)	1 (12)	2 (8.3)	0 (0)	0 (0)
Herpes	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
PMTCT	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Previous cesarean	1 (9.1)	0 (0)	6 (25)	0 (0)	0 (0)
Prior stillbirth	0 (0)	0 (0)	0 (0)	3 (7.3)	0 (0)
Pregnancy & fetal conditions					
Non-reassuring fetal heart rate	1 (9.1)	2 (25)	1 (4.2)	6 (15)	0 (0)
Oligohydramnios	0 (0)	0 (0)	0 (0)	2 (4.9)	0 (0)
IUGR	0 (0)	0 (0)	0 (0)	1 (2.4)	0 (0)
Macrosomia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Post-term*	0 (0)	0 (0)	0 (0)	2 (4.9)	0 (0)
Fetal anomaly	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Abruption/bleeding	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)
Cord prolapse	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Breech presentation	1 (9.1)	0 (0)	2 (8.3)	0 (0)	0 (0)
Rupture of membranes*	0 (0)	1 (12)	0 (0)	0 (0)	0 (0)

* Outcomes indicated with an asterisk (*) are inconsistent with provider-initiated delivery and require further review.

Table 3b continued

	Ghana	India-CMC	Kenya	Pakistan	Zambia
Elective					
Elective induction	0 (0)	0 (0)	0 (0)	1 (2.4)	0 (0)
Elective cesarean	0 (0)	0 (0)	1 (4.2)	0 (0)	0 (0)
Other					
Other indication	1 (9.1)	2 (25)	3 (12)	1 (2.4)	0 (0)
Multiple indications	2 (18)	0 (0)	1 (4.2)	0 (0)	0 (0)
Missing information					
No indication provided	3 (27)	2 (25)	7 (29)	20 (49)	27 (100)

Note: The indications presented in this table are drawn from the variable 'INDUCED_PRINDC' for provider-initiated deliveries where labor was induced OR from the variable 'CES_PRINDC_INF1' for pregnancies where cesarean delivery occurred without prior labor or rupture of membranes.

Table 3c. Spontaneous preterm delivery by indication

	Ghana	India-CMC	Kenya	Pakistan	Zambia
Spontaneous preterm delivery by indication					
Preterm labor	22 (96)	10 (91)	49 (89)	366 (94)	32 (70)
PPROM	1 (4.3)	1 (9.1)	6 (11)	25 (6.4)	9 (20)
Unknown order of events	0 (0)	0 (0)	0 (0)	0 (0)	5 (11)

To be included as “non-missing” for this outcome, a participant must have:

For all outcomes:

1. Reported gestational age by either LMP or Ultrasound (varnames [form]: US_GA_WKS_AGE_FTS1-4 [MNH01], US_GA_DAYS_AGE_FTS1-4 [MNH01], GA_LMP_WEEKS_SCORRES [MNH01]).
2. Valid enrollment ultrasound visit date (varname [form]: US_OHOSTDAT [MNH01]).
3. Valid date of birth for first fetus/infant in the pregnancy (varname [form]: DELIV_DSSTDAT_INF1 [MNH09]).

For 3b. Provider-initiated preterm & 3c. Spontaneous preterm:

4. Valid responses for variables on labor including:
 - a. if the woman experienced labor (varname [form]: LABOR_MHOCCUR [MNH09]);
 - b. date and time of labor onset if she experienced labor (LABOR_MHSTDAT, LABOR_MHSTTIM [MNH09]);
 - c. if labor was induced (varname [form]: INDUCED_PROCCUR [MNH09])

5. Valid responses for variables on type of membrane rupture including:

 - a. type of membrane rupture (varname [form]: MEMBRANE_RUPT_MHTERM [MNH09]);
 - b. date and time of membrane rupture (if occurred) (varnames [form]: MEMBRANE_RUPT_MHSTDAT, MEMBRANE_RUPT_MHSTTIM [MH09])
6. Delivery mode for all fetuses/infants (varname: DELIV_PRROUTE_INF1-4, MNH09])

4. Preterm premature rupture of membranes (PPROM)

Definition: Spontaneous rupture of membranes occurs prior to 37 weeks GA and before onset of labor.

Denominator: All completed pregnancies with:

- Valid gestational age information provided at enrollment visit in M NH01 including: (varnames [form]: US_GA_WKS_AGE_FTS1-4 [M NH01], US_GA_DAYS_AGE_FTS1-4 [M NH01], GA_LMP_WEEKS_SCORRES [M NH01], US_OHOSTDAT [M NH01]).
- M NH09 form filled and date/time of rupture of membranes and onset of labor provided, if applicable (varnames [form]: MEMBRANE_RUPT_MHSTDAT, MEMBRANE_RUPT_MHSTTIM, LABOR_MHSTDAT, LABOR_MHSTTIM [M NH09])

Note: Gestational age information collected in M NH01 is used to generate best obstetric estimates for GA, EDD, and estimated conception date. These constructed variables are then used to calculate GA at time of rupture of membranes.

To be included as “non-missing” for this outcome, a participant must have:

1. Reported gestational age by either LMP or Ultrasound (varnames [form]: US_GA_WKS_AGE_FTS1-4 [M NH01], US_GA_DAYS_AGE_FTS1-4 [M NH01], GA_LMP_WEEKS_SCORRES [M NH01]).
2. Valid enrollment ultrasound visit date (varname [form]: US_OHOSTDAT [M NH01]).
3. Valid responses for variables on labor including:
 - a. if the woman experienced labor (varname [form]: LABOR_MHOCCUR [M NH09]); and
 - b. date and time of labor onset if she experienced labor (varname [form]: LABOR_MHSTDAT, LABOR_MHSTTIM [M NH09]).
4. Valid responses for variables on type of membrane rupture including:
 - a. type of membrane rupture (varname [form]: MEMBRANE_RUPT_MHTERM [M NH09]); and
 - b. date and time of membrane rupture (if occurred) (varname [form]: MEMBRANE_RUPT_MHSTDAT, MEMBRANE_RUPT_MHSTTIM [M NH09])

Table 4. Preterm premature rupture of membranes (PPROM)

Table 4		Ghana	India-CMC	Kenya	Pakistan	Zambia
Data Completeness (among all completed pregnancies with M NH01 and M NH09)						
Missing both US and LMP GA or ultrasound date [M NH01]		0 (0)	0 (0)	4 (0.5)	0 (0)	11 (2.2)
Missing information on type of rupture of membranes (spontaneous or artificial) [M NH09]		0 (0)	0 (0)	1 (0.13)	0 (0)	30 (6)
Missing information on timing of spontaneous rupture of membranes [M NH09]		0 (0)	0 (0)	0 (0)	0 (0)	3 (0.6)
Missing information on timing of labor [M NH09]		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
PPROM (among all completed pregnancies with M NH01 and M NH09)						
PPROM		7 (1.1)	6 (3.7)	15 (1.9)	26 (1.4)	10 (2)
No PPROM		615 (99)	156 (96)	779 (98)	1896 (99)	446 (89)
Missing		0 (0)	0 (0)	5 (0.63)	0 (0)	44 (8.8)

5. Perinatal depression

Definition: Screening for possible major depression using Edinburgh Postnatal Depression Scale (EPDS) using a standard cutoff across sites (score ≥ 11) (Table 5b) or site-specific cutoff (Table 5c).

To be included as “non-missing” for this outcome, a participant must have:

1. Visit was completed either in person or by telephone.
2. Visit type recorded as enrollment, ANC-20, ANC-32, ANC-36, or PNC-6.

a. **NOTE: we are not considering missed visit windows or if non-schedule routine visit is indicated*

3. Valid responses are calculated from EPDS variables (varname [form]: EPDS0101 – EPDS0110 [MNH25])

Common causes of missingness by visit type:

- Form was filled but visit not completed (varname [form]: MAT_VISIT_MNHXX [MNH25] > 2).
- Visit was completed but unable to calculate depression score (variables EPDS0101 – EPDS0110 [MNH25] unable to calculate because all relevant variables are reported as 77, Not applicable).

Table 5a. Data completeness (MNH25)

Table 5a						
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data Completeness at ANC-20						
Visit not completed ^a , n (%)	12 (0)	2 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Visit completed but no summary score, n (%)	7 (1.4)	0 (0.41)	0 (0)	0 (0)	0 (0)	0 (0)
Denominator ^b	863	492	160	1198	2365	988
Data Completeness at ANC-32						
Visit not completed ^a , n (%)	15 (2.3)	10 (4)	0 (0)	0 (0)	0 (0)	0 (0)
Visit completed but no summary score, n (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Denominator ^b	652	247	0	932	1901	593
Data Completeness at PNC-6						
Visit not completed ^a , n (%)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
Visit completed but no summary score, n (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Denominator ^b	0	50	0	652	1439	0

^a Visit not completed indicates that the MNH25 form was filled out for that visit type, but the visit was not completed (MAT_VISIT ≥ 3).

^b Denominator is number of those who have MNH25 filled out for that visit type.

5b. Maternal depression, using standard cutoff score (>=11)

Numerator: Valid depression score 11 (calculated from variables EPDS0101 – EPDS0110 [MNH25]) AND visit type = i (TYPE_VISIT [MNH25]).

Denominator: MNH25 with a valid depression score (calculated from variables EPDS0101 – EPDS0110 [MNH25]) AND visit type = i (TYPE_VISIT [MNH25]).

Table 5b. Maternal depression, using standard cutoff score

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Depression assessment (MNH25)						
Depression ever ^a , n (%)	129 (13)	68 (14)	28 (18)	51 (4.2)	561 (22)	20 (2)
Denominator, n	973	495	160	1214	2520	989
ANC, ever ^b , n (%)	129 (13)	68 (14)	28 (18)	39 (3.2)	492 (20)	20 (2)
Denominator, n	973	492	160	1203	2469	989
ANC-20 ^c , n (%)	88 (10)	61 (12)	28 (18)	25 (2.1)	377 (16)	18 (1.8)
Denominator, n	863	492	160	1198	2365	988
ANC-32 ^d , n (%)	56 (8.6)	11 (4.4)	0 (0)	15 (1.6)	207 (11)	2 (0.34)
Denominator, n	652	247	0	932	1901	593
PNC-6, n (%)	0 (0)	0 (0)	0 (0)	13 (2)	107 (7.4)	0 (0)
Denominator, n	0	50	0	652	1439	0

^a Depression, ever (among any woman who has at least one assessment at enrollment, ANC-20, ANC-32, ANC-36, or PNC-6).

^b ANC, ever (among any woman who has been assessed at enrollment, ANC-20, ANC-32, or ANC-36).

^c ANC-20 includes depression assessments conducted at enrollment visit per protocol.

^d ANC-32 includes depression assessments conducted at ANC-36 per protocol.

5c. Maternal Depression, using site-specific cutoff score

Definition: Screening for possible major depression using Edinburgh Postnatal Depression Scale (EPDS) using a site-specific cutoff: (Ghana >= 11; India - CMC >= 8; India - SAS >= 10; Kenya >= 13; Pakistan >= 14; Zambia >= 10).

Numerator: Valid depression score >= site-specific cutoff (calculated from variables EPDS0101 – EPDS0110 [MNH25]) AND visit type = i (TYPE_VISIT [MNH25])

Denominator: MNH25 with a valid depression score (calculated from variables EPDS0101 – EPDS0110 [MNH25]) AND visit type = i (TYPE_VISIT [MNH25])

Table 5c. Maternal Depression, using site-specific cutoff score

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Depression assessment (MNH25)						
Depression ever ^a , n (%)	129 (13)	108 (22)	31 (19)	33 (2.7)	255 (10)	21 (2.1)
Denominator, n	973	495	160	1214	2520	989
ANC, ever ^b , n (%)	129 (13)	106 (22)	31 (19)	22 (1.8)	236 (9.6)	21 (2.1)
Denominator, n	973	492	160	1203	2469	989
ANC-20 ^c , n (%)	88 (10)	101 (21)	31 (19)	15 (1.2)	185 (7.8)	19 (1.9)
Denominator, n	863	492	160	1198	2365	988
ANC-32 ^d , n (%)	56 (8.6)	13 (5.3)	0 (0)	7 (0.75)	80 (4.2)	2 (0.34)
Denominator, n	652	247	0	932	1901	593
PNC-6, n (%)	0 (0)	3 (6)	0 (0)	11 (1.7)	36 (2.5)	0 (0)
Denominator, n	0	50	0	652	1439	0

^a Depression, ever (among any woman who has at least one assessment at enrollment, ANC-20, ANC-32, ANC-36, or PNC-6).

^b ANC, ever (among any woman who has been assessed at enrollment, ANC-20, ANC-32, or ANC-36).

^c ANC-20 includes depression assessments conducted at enrollment visit per protocol.

^d ANC-32 includes depression assessments conducted at ANC-36 per protocol.

Figure 2. Depressive symptoms at ANC-20

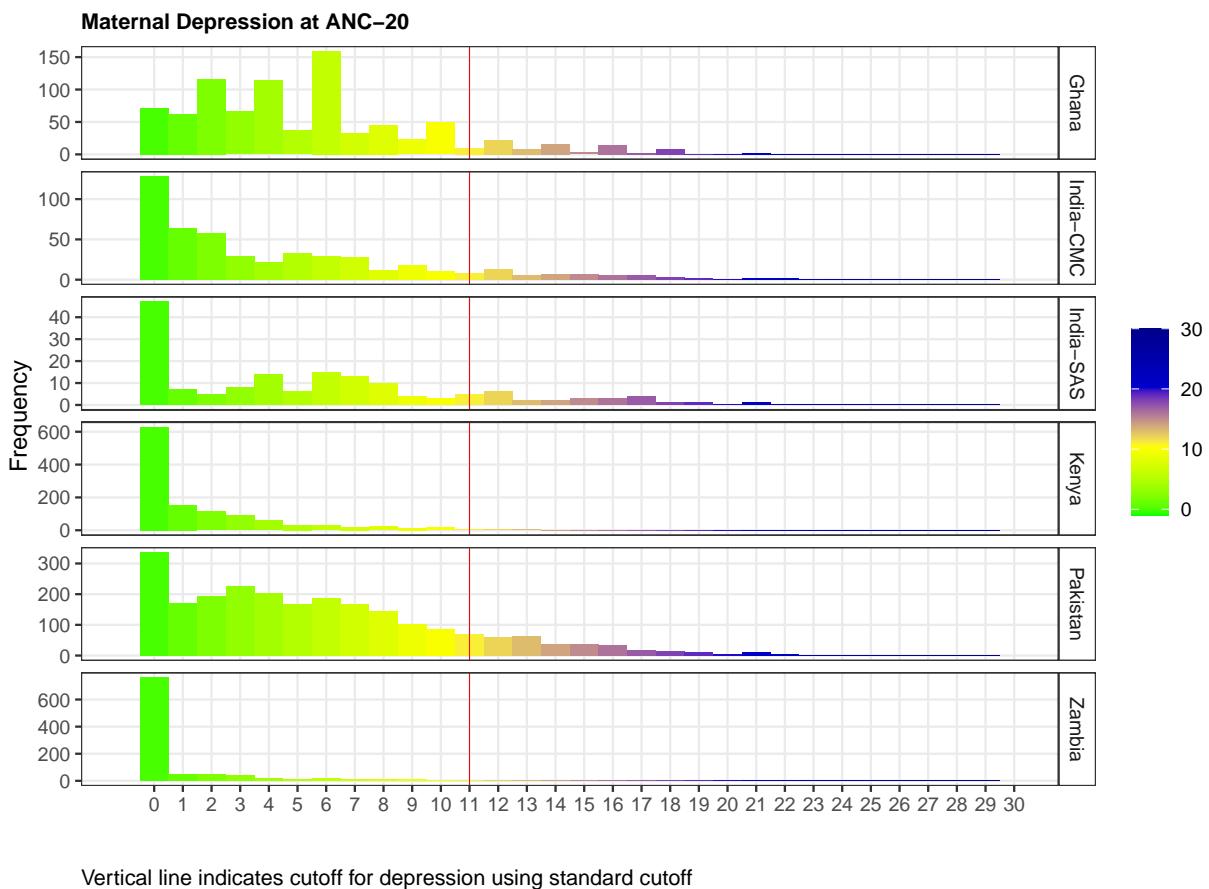


Figure 3. Depressive symptoms at ANC-32

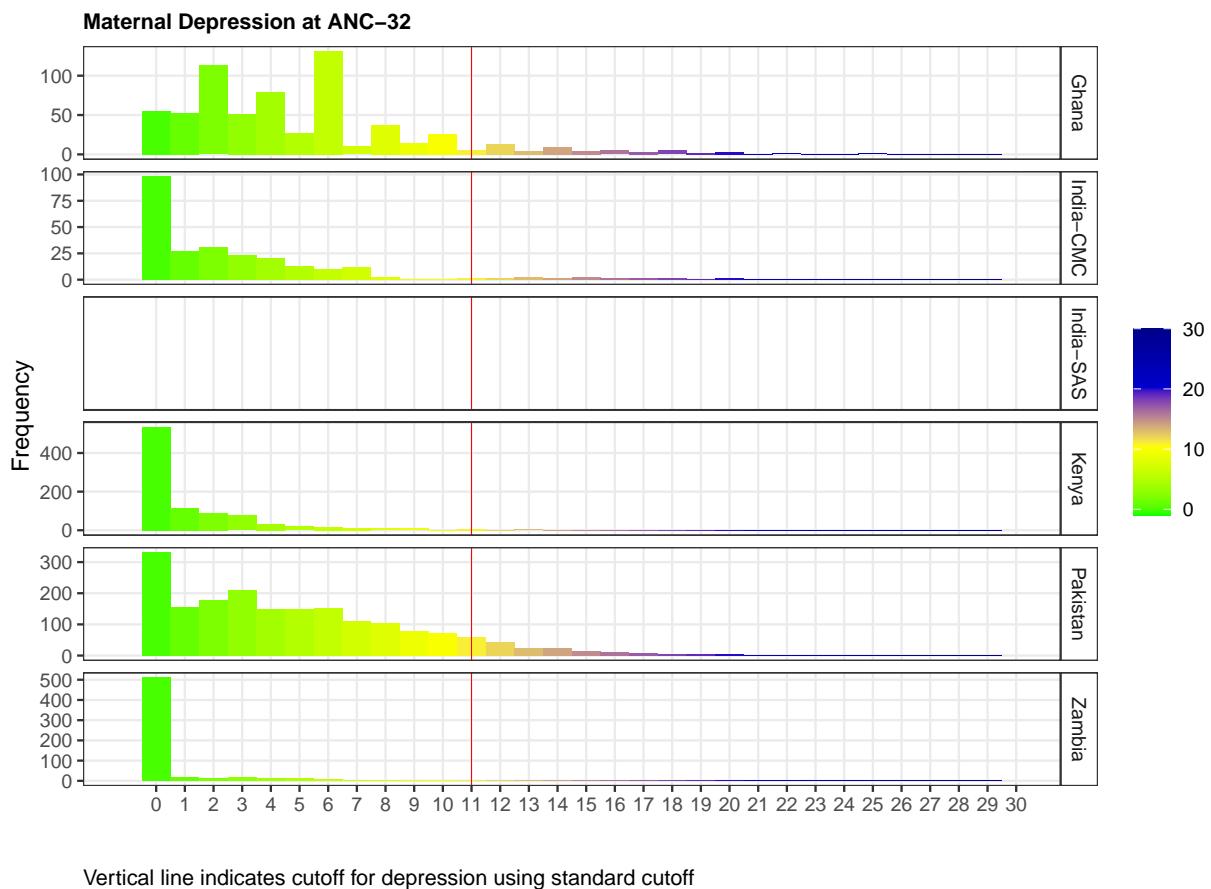
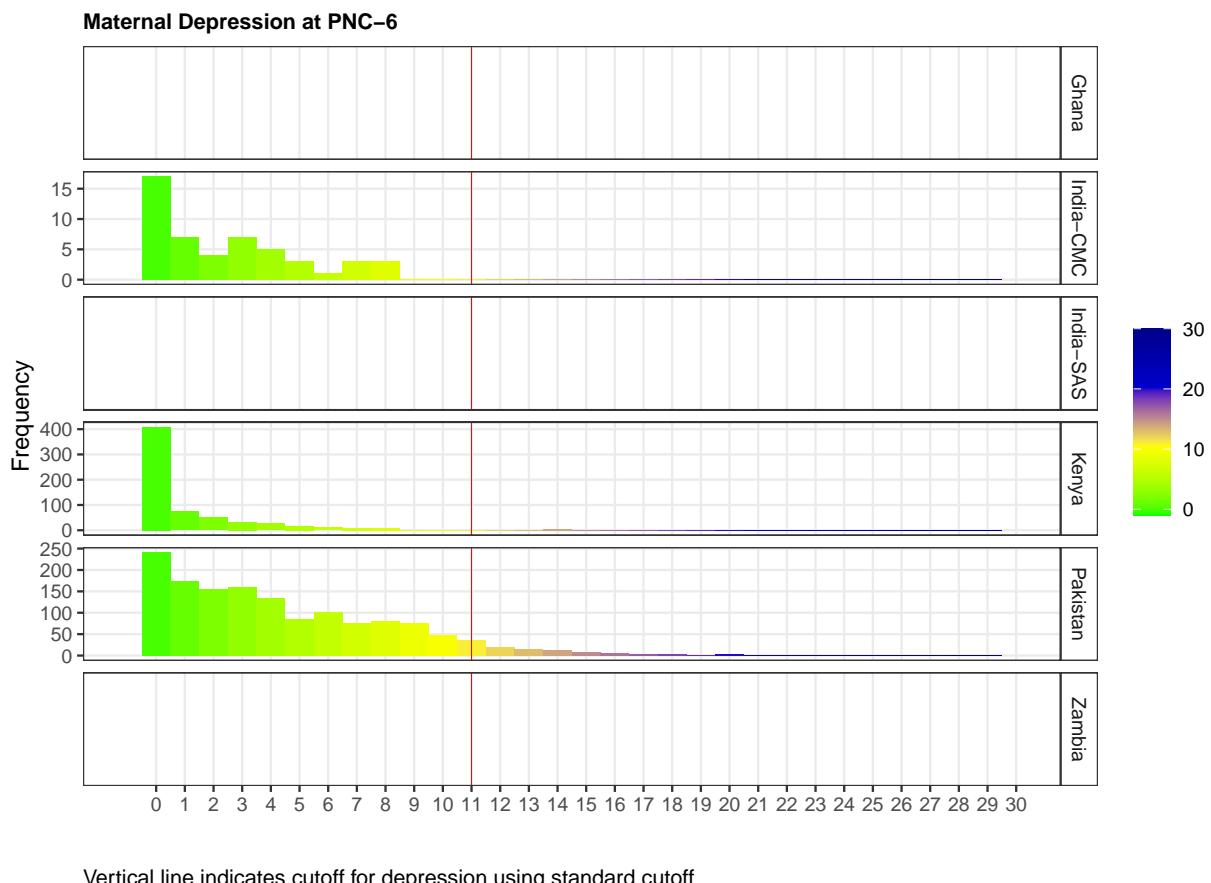


Figure 4. Depressive symptoms at PNC-6



6. Hemorrhage

Definition: Received at least one procedure for postpartum hemorrhage or excessive bleeding ($>=500\text{mL}$) from or into the genital track, either during pregnancy, prior to delivery, or following the birth of a baby. *Severe hemorrhage* defined as received at least one procedure for postpartum hemorrhage or excessive bleeding ($>=1000\text{mL}$) from or into the genital track, either during pregnancy, prior to delivery, or following the birth of a baby.

Denominators:

For Antepartum hemorrhage: All participants with at least one ANC visit (at least one M NH04 filled).

For Postpartum hemorrhage: All participants with an IPC visit (M NH09 filled).

To be included as “non-Missing” for this outcome, a participant must have:

1. *For Antepartum hemorrhage:* At least one M NH04 form filled out.
2. *For Postpartum hemorrhage:* Valid M NH09 form filled out.

Table 6. Hemorrhage

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Hemorrhage						
Antepartum hemorrhage ^a	15 (1.3)	14 (2.2)	0 (0)	26 (1.9)	21 (0.75)	1 (0.1)
Postpartum hemorrhage ^b	41 (8.7)	38 (27)	0 (0)	83 (11)	224 (12)	81 (16)
Severe postpartum hemorrhage ^b	37 (7.9)	15 (11)	0 (0)	40 (5.5)	52 (2.8)	19 (3.8)
Estimated blood loss $>= 1000\text{mL}^b$	0 (0)	5 (3.5)	0 (0)	3 (0.41)	4 (0.21)	14 (2.8)
Any hemorrhage at any time point ^b	53 (11)	51 (36)	0 (0)	106 (14)	241 (13)	82 (16)
Procedures for postpartum hemorrhage ^c						
Balloon/condom tamponade	10 (24)	10 (26)	0 (0)	15 (18)	0 (0)	0 (0)
Surgical interventions	5 (12)	5 (13)	0 (0)	7 (8.4)	0 (0)	0 (0)
Brace sutures	1 (2.4)	4 (11)	0 (0)	5 (6)	0 (0)	0 (0)
Vessel ligation	0 (0)	0 (0)	0 (0)	1 (1.2)	0 (0)	0 (0)
Hysterectomy	0 (0)	8 (21)	0 (0)	0 (0)	0 (0)	0 (0)
Blood transfusion	24 (59)	4 (11)	0 (0)	27 (33)	51 (23)	10 (12)
Other	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

^a Denominator is all participants with at least one ANC visit (at least one M NH04 filled).

^b Denominator is all participants with an IPC visit (M NH09 filled).

^c Denominator is all participants with postpartum hemorrhage.

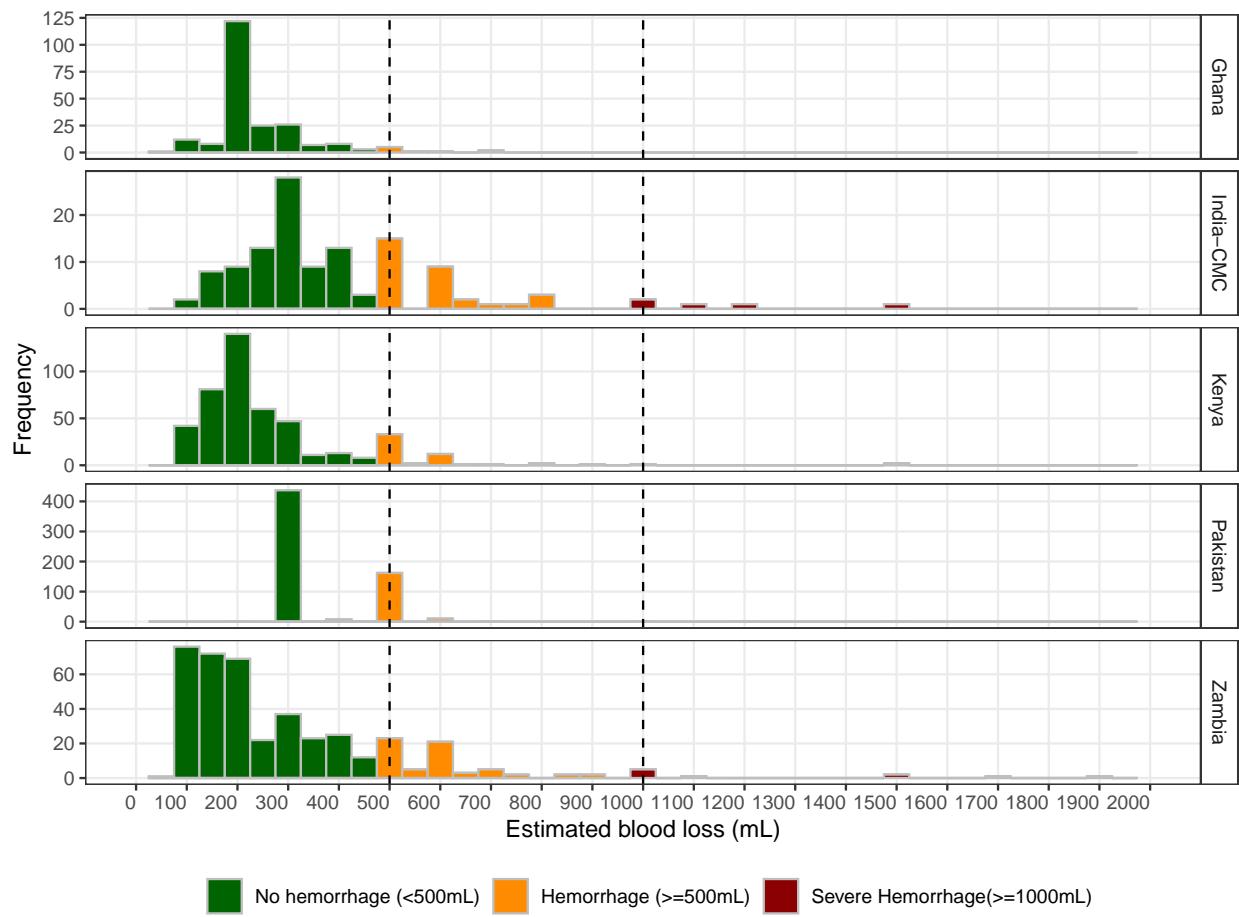
Table 6 continued

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Medications given to prevent/treat postpartum hemorrhage ^b						
Oxytocin	10 (2.1)	10 (7)	0 (0)	15 (2)	0 (0)	0 (0)
Misoprostol	5 (1.1)	5 (3.5)	0 (0)	7 (0.95)	0 (0)	0 (0)
Tranexaminic acid	1 (0.21)	4 (2.8)	0 (0)	5 (0.68)	0 (0)	0 (0)
Carbetocin	0 (0)	0 (0)	0 (0)	1 (0.14)	0 (0)	0 (0)
Methylergonovine	0 (0)	8 (5.6)	0 (0)	0 (0)	0 (0)	0 (0)
Carboprost (PGF2-alpha)	0 (0)	3 (2.1)	0 (0)	0 (0)	0 (0)	0 (0)
No medications given	1 (0.21)	1 (0.7)	0 (0)	0 (0)	0 (0)	0 (0)
Don't know	0 (0)	1 (0.7)	0 (0)	0 (0)	18 (0.96)	0 (0)
Methods of blood loss measurements ^d						
Calibrated delivery drapes	17 (7.7)	0 (0)	0 (0)	11 (2.4)	0 (0)	0 (0)
Noncalibrated delivery drapes	1 (0.45)	0 (0)	0 (0)	82 (18)	0 (0)	0 (0)
Visual estimation	188 (85)	118 (98)	0 (0)	95 (21)	0 (0)	296 (72)
Gravimetric technique (weight of blood-soaked materials)	1 (0.45)	0 (0)	0 (0)	1 (0.22)	0 (0)	116 (28)
Method unknown	14 (6.3)	3 (2.5)	0 (0)	265 (58)	625 (100)	0 (0)

^b Denominator is all participants with an IPC visit (MNH09 filled).

^d Denominator is all participants with a valid blood loss at IPC measurement (varname [form]: `PPH_ESTIMATE_FAORRES` [MNH09]).

Figure 2. Estimated blood loss during labor and delivery



7. Maternal infection at enrollment

Definition: Any infection identified during enrollment ANC.

Denominators:

For Antepartum hemorrhage: All participants with at least one ANC visit (at least one MNH04 filled).

For Postpartum hemorrhage: All participants with an IPC visit (MNH09 filled).

To be included as “non-Missing” for this outcome, a participant must have:

1. Completed MNH04 Maternal Clinical Status for enrollment visit varnames [form]: TYPE_VISIT=1 [MNH04]),
2. Completed MNH06 Point of Care for enrollment visit varnames [form]: TYPE_VISIT=1 [MNH06]).

Common causes for a participant to be marked as “Missing”:

- Missing MNH04, MNH06, or MNH08
- Missing diagnosed or measured data (see list of variables in footnotes in Tables 7a and 7b below).

Table 7a. STIs

Table 7a	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
HIV, n (%)						
HIV RDT Positive ^a [MNH06]	23 (2.1)	0 (0)	0 (0)	8 (2.1)	2 (0.07)	188 (19)
HIV Diagnosed Positive ^b [MNH04]	4 (0.45)	0 (0)	0 (0)	174 (13)	0 (0)	188 (19)
HIV Prevalence at Enrollment (Positive RDT or Diagnosed) ^c	23 (2.1)	0 (0)	0 (0)	175 (13)	2 (0.07)	188 (19)
HIV RDT Missing ^d [MNH06]	0 (0)	28 (4.1)	264 (64)	986 (72)	5 (0.18)	3 (0.3)
HIV Diagnosis Missing ^e [MNH04]	191 (18)	5 (0.73)	0 (0)	10 (0.73)	0 (0)	3 (0.3)
Syphilis, n (%)						
Syphilis RDT Positive ^a [MNH06]	10 (0.93)	0 (0)	0 (0)	9 (0.66)	7 (0.25)	96 (9.8)
Syphilis Diagnosed Positive ^b [MNH04]	4 (0.38)	0 (0)	0 (0)	6 (0.44)	0 (0)	96 (9.8)
Syphilis Prevalence, Enrollment (Positive RDT or Diagnosed) ^c	13 (1.2)	0 (0)	0 (0)	10 (0.73)	7 (0.25)	96 (9.8)
Syphilis Prevalence, Any Visit (Positive RDT or Diagnosed) ^e	20 (1.9)	0 (0)	1 (0.24)	21 (1.5)	7 (0.25)	106 (11)
Syphilis RDT Missing ^d [MNH06]	0 (0)	318 (46)	264 (64)	7 (0.51)	5 (0.18)	6 (0.61)
Syphilis Diagnosis Missing ^e [MNH04]	5 (0.47)	3 (0.44)	0 (0)	6 (0.44)	1 (0.04)	6 (0.61)

^a Denominator is total participants with a valid test result `(TEST_VAR=1 or 0)`. RDT measured variables used in this table from MNH06: `HIV_POC_LBORRES` & `SYPH_POC_LBORRES`.

^b Denominator is total participants with a valid diagnosis `(DIAGNOSIS_VAR=1 or 0)`. Diagnosed variables used in this table from MNH04: `HIV_EVER_MHOCCUR`, `SYPH_MHOCCUR`, `GONORRHEA_MHOCCUR`, `CHLAMYDIA_MHOCCUR`, `GENULCER_MHOCCUR`, `STI_OTHR_MHOCCUR`.

^c Denominator is total participants with a MNH04 OR MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^d Denominator is total participants with a MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^e Denominator is total participants with a MNH04 at enrollment filled out `(TYPE_VISIT=1)`.

Table 7a continued

	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Gonorrhea, n (%)						
Gonorrhea Diagnosed Positive ^f [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Gonorrhea Diagnosis Missing ^e [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0.3)
Chlamydia, n (%)						
Chlamydia Diagnosed Positive ^f [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Chlamydia Diagnosis Missing ^e [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0.3)
Genital Ulcers, n (%)						
Genital Ulcers Diagnosed Positive ^f [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0.1)
Genital Ulcers Diagnosis Missing ^e [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Other STIs, n (%)						
Other STIs Diagnosed Positive ^f [MNH04]	1 (0.09)	0 (0)	0 (0)	3 (0.22)	0 (0)	3 (0.3)
Other STIs Diagnosis Missing ^e [MNH04]	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
STIs by Method, n (%)						
Any Measured STI Positive ^d [MNH06]	32 (3)	0 (0)	0 (0)	17 (1.2)	9 (0.32)	246 (25)
Any Diagnosed STI Positive ^e [MNH06]	9 (0.84)	0 (0)	0 (0)	181 (13)	0 (0)	247 (25)
Any STI (either diagnosed or measured) ^c [MNH06]	36 (3.4)	0 (0)	0 (0)	185 (13)	9 (0.32)	247 (25)

^c Denominator is total participants with a MNH04 OR MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^d Denominator is total participants with a MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^e Denominator is total participants with a MNH04 at enrollment filled out `(TYPE_VISIT=1)`.

^f Denominator is total participants who reported having an 'other' STI (`OTHR_STI_MHOCCUR=1`) AND a valid test `(TEST_VAR=1 or 0)` OR who reported not having an 'other' STI (`OTHR_STI_MHOCCUR=0`).

Table 7b. Other infections

Table 7b						
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Malaria, n (%)						
Malaria RDT Positive ¹ [MNH06]	102 (9.5)	0 (0)	0 (0)	133 (9.7)	0 (0)	6 (0.61)
Malaria Diagnosed Positive ² [MNH04]	36 (3.4)	0 (0)	1 (0.24)	191 (14)	2 (0.07)	7 (0.71)
Malaria RDT Missing ^a [MNH06]	0 (0)	73 (11)	264 (64)	1 (0.07)	5 (0.18)	1 (0.1)
Malaria Diagnosis Missing ^b [MNH04]	4 (0.37)	2 (0.29)	0 (0)	0 (0)	2 (0.07)	1 (0.1)
Hep B, n (%)						
Hep B RDT Positive ¹ [MNH06]	80 (7.5)	1 (0.15)	2 (1.4)	18 (1.4)	44 (1.5)	30 (3.4)
Hep B RDT Missing ^a [MNH06]	0 (0)	29 (4.2)	264 (64)	36 (2.6)	5 (0.18)	94 (9.6)
Hep C, n (%)						
Hep C RDT Positive ¹ [MNH06]	29 (2.7)	0 (0)	6 (4.1)	4 (0.3)	56 (2)	1 (0.13)
Hep C RDT Missing ^a [MNH06]	0 (0)	28 (4.1)	264 (64)	35 (2.6)	5 (0.18)	221 (22)
Covid, n (%)						
Covid RDT Positive ¹ [MNH06]	0 (0)	0 (0)	0 (0)	1 (25)	0 (0)	0 (0)
Covid Diagnosed Positive ² [MNH04]	0 (0)	1 (3)	0 (0)	5 (12)	0 (0)	1 (100)
Covid RDT Missing ^a [MNH06]	1068 (100)	687 (100)	410 (100)	1363 (100)	2853 (100)	984 (100)
Covid Diagnosis Missing ^b [MNH04]	1071 (100)	654 (95)	410 (100)	1333 (97)	2853 (100)	983 (100)
TB, n (%)						
TB Symptoms Positive ^c [MNH04]	7 (2.4)	2 (0.29)	8 (2)	7 (0.51)	1 (0.04)	4 (0.41)
Missing All TB Symptoms ^b [MNH04]	781 (73)	3 (0.44)	1 (0.24)	0 (0)	0 (0)	0 (0)
TB Sputum Test Positive ^d [MNH08]	0 (0)	0 (0)	0 (0)	1 (33)	4 (100)	0 (0)

^a Denominator is total participants with a valid test result `(TEST_VAR=1 or 0)`. RDT measured variables used in this table from MNH06: `HIV_POC_LBPERF`, `HBV_POC_LBORRES`, `HCV_POC_LBORRES`, `COVID_POC_LBORRES`.

^b Denominator is total participants with a valid diagnosis `(DIAGNOSIS_VAR=1 or 0)`. Diagnosed variables used in this table from MNH04: `MALARIA_EVER_MHOCCUR`, `TB_CETERM_1-4`, `COVID_LBORRES`.

^c Denominator is total participants with a MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^d Denominator is total participants with a MNH04 at enrollment filled out `(TYPE_VISIT=1)`.

^e Denominator is total participants with valid response to the TB symptom screen in MNH04 `(VAR==1 OR VAR==0)`.

^f Denominator is total participants with who reported having at least one TB symptom in MNH04 `(VAR==1 OR VAR==0)`.

Table 7c. All infections combined

Table 7c		Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Any infection at enrollment, n (%)							
Any Measured Infection Positive ^a	223 (21)	1 (0.15)	8 (1.9)	171 (13)	112 (3.9)	269 (27)	
Any Diagnosed Infection Positive ^b	44 (4.1)	1 (0.15)	1 (0.24)	352 (25)	5 (0.18)	259 (26)	
Any Infection Positive by Either Method ^c	244 (23)	2 (0.29)	9 (2.2)	388 (28)	117 (4.1)	279 (28)	

^a Denominator is total participants with a MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

^b Denominator is total participants with a MNH04 at enrollment filled out `(TYPE_VISIT=1)`.

^c Denominator is total participants with MNH04 OR MNH06 at enrollment filled out `(TYPE_VISIT=1)`.

8. Overt & Gestational Diabetes

Definition: Diabetes outcomes are assessed as follows: - *Overt diabetes* is measured by HbA1c level as assessed at enrollment. If this datapoint is missing at enrollment, we rely on HbA1c level as reported in a subsequent visit (unscheduled or ANC-20), if the result is taken at <20 weeks GA. Overt diabetes is defined as HbA1c >6.5%.

- *Gestational diabetes* is measured by three blood glucose tests as assessed at ANC-28 visit. If this datapoint is missing at ANC-28, we rely on the test result reported at subsequent visits. Gestational diabetes is defined as pretest fasting glucose ≥ 5.1 mmol/L or oral glucose-tolerance test (OGTT) 1-hour result ≥ 10.0 mmol/L or OGTT 2-hour result ≥ 8.5 mmol/L. Gestational diabetes outcomes exclude any participants with Overt Diabetes at enrollment.

Denominators: All participants who have passed the ANC-28 visit window (26-30 weeks) based on the following variables:

- Valid gestational age information provided at enrollment visit in M NH01 including: (varname: US_GA_WKS_AGE_FTS1-4, US_GA_DAYS_AGE_FTS1-4, GA_LMP_WEEKS_SCORRES, US_OHOSTDAT).
- Confirmed enrollment in form M NH02.
- For Gestational Diabetes, those with Overt Diabetes at/near enrollment are excluded from the denominator.

Note: Gestational age information collected in M NH01 is used to generate best obstetric estimates for GA, EDD, and estimated conception date. These constructed variables are then used to determine which observations have passed the ANC-28 visit window.

Table 8a. Overt diabetes

Table 8a					
	Ghana	India-CMC	India-SAS	Kenya	Pakistan
Data missingness: All pregnancies >= 30 weeks by data upload date					
Missing enrollment lab form (MNH08) or other lab at <20 weeks GA	0 (0)	0 (0)	0 (0)	5 (0.47)	2 (0.08)
Missing HbA1c test result in enrollment lab form (MNH08) or other lab at <20 weeks GA	229 (23)	1 (0.29)	0 (0)	1 (0.09)	0 (0)
Overt Diabetes: All pregnancies >= 30 weeks by data upload date					
No overt diabetes (<=6.5% HbA1c)	7 (0.69)	4 (1.2)	0 (0)	3 (0.28)	25 (1.0)
Overt diabetes (>6.5% HbA1c)	776 (77)	340 (99)	0 (0)	1059 (99)	2344 (99)
Missing	229 (23)	1 (0.29)	0 (0)	6 (0.56)	2 (0.08)
150 (18)					

Table 8b. Gestational diabetes by pretest fasting glucose only

Table 8b					
	Ghana	India-CMC	India-SAS	Kenya	Pakistan
Data missingness: All pregnancies >= 30 weeks by data upload date					
Missing ANC-28 lab form (MNH08) and no blood glucose test at other visits	154 (15)	21 (6.2)	0 (0)	82 (7.7)	408 (17)
Missing pretest fasting glucose test result at ANC-28 (and not provided in any other visit)	215 (21)	8 (2.4)	0 (0)	30 (2.8)	37 (1.6)
87 (11)					
Gestational Diabetes by Pretest Fasting Glucose: All pregnancies >= 30 weeks by data upload date					
No gestational diabetes(<5.1 mmol/L)	599 (60)	296 (87)	0 (0)	941 (88)	1851 (79)
Gestational diabetes (>=5.1 mmol/L)	37 (3.7)	16 (4.7)	0 (0)	12 (1.1)	50 (2.1)
Missing	369 (37)	29 (8.5)	0 (0)	112 (11)	445 (19)
226 (29)					

Table 8c. Gestational diabetes by 1-hr OGTT

Table 8c						
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data missingness: All pregnancies >= 30 weeks by data upload date						
Missing ANC-28 lab form (MNH08) and no blood glucose test at other visits	154 (15)	21 (6.2)	0 (0)	82 (7.7)	408 (17)	139 (18)
Missing 1-hr OGTT result at ANC-28 (and not provided in any other visit)	215 (21)	8 (2.4)	0 (0)	31 (2.9)	38 (1.6)	90 (12)
Gestational Diabetes by 2-hr OGTT: All pregnancies >= 30 weeks by data upload date						
No gestational diabetes (<10.0 mmol/L)	630 (63)	299 (88)	0 (0)	948 (89)	1846 (79)	546 (70)
Gestational diabetes (>=10.0 mmol/L)	6 (0.6)	13 (3.8)	0 (0)	4 (0.38)	54 (2.3)	7 (0.9)
Missing	369 (37)	29 (8.5)	0 (0)	113 (11)	446 (19)	229 (29)

Table 8d. Gestational diabetes by any test

Table 8d						
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia
Data missingness: All pregnancies >= 30 weeks by data upload date						
Missing ANC-28 lab form (MNH08) and no blood glucose test at other visits	154 (15)	21 (6.2)	0 (0)	82 (7.7)	408 (17)	139 (18)
Missing test result(s) at ANC-28 (and not provided in any other visit)	222 (22)	8 (2.4)	0 (0)	31 (2.9)	38 (1.6)	99 (13)
Gestational Diabetes by any test: All pregnancies >= 30 weeks by data upload date						
No gestational diabetes (across all three tests)	575 (57)	284 (83)	0 (0)	931 (87)	1757 (75)	501 (64)
Gestational diabetes (by any test)	54 (5.4)	28 (8.2)	0 (0)	21 (2)	143 (6.1)	43 (5.5)
Missing	376 (37)	29 (8.5)	0 (0)	113 (11)	446 (19)	238 (30)

Note: This table presents Overt Diabetes based on HbA1c test result at enrollment or as provided in another visit at less than 20 weeks gestation. The table presents rates of Gestational Diabetes based on blood glucose tests conducted at or near 28 weeks gestation; we exclude all women with Overt Diabetes from the denominator for Gestational Diabetes, while we include women without Overt Diabetes or with missing HbA1c test results. For the final outcome (Gestational Diabetes by any test), only observations with all three (negative) blood-glucose tests are considered negative for Gestational Diabetes, while women with any positive test are considered positive for Gestational Diabetes regardless of whether other tests results are missing.