

Lab Report - Missingness Table

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1 Form missingness

Table 1. Form missingness by site

Part I. ANC visits	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Enrollment							
Expected Form: N	2369	1606	1996	2297	4180	1704	14152
Missing M NH06: n (%)	14 (0.59)	0 (0)	0 (0)	0 (0)	0 (0)	11 (0.65)	25 (0.18)
Missing M NH08: n (%)	14 (0.59)	0 (0)	0 (0)	19 (0.83)	0 (0)	14 (0.82)	47 (0.33)
ANC20							
Expected Form: N	1722	1020	1499	1837	3467	1408	10953
Missing M NH06: n (%)	14 (0.81)	2 (0.2)	1 (0.07)	54 (2.9)	51 (1.5)	37 (2.6)	159 (1.4)
Missing M NH08: n (%)	16 (0.93)	2 (0.2)	0 (0)	55 (3)	51 (1.5)	50 (3.5)	174 (1.6)
ANC28							
Expected Form: N	2024	1315	1177	2087	3544	1519	11666
Missing M NH06: n (%)	21 (1)	2 (0.15)	0 (0)	5 (0.24)	5 (0.14)	52 (3.4)	85 (0.73)
Missing M NH08: n (%)	21 (1)	2 (0.15)	7 (0.59)	26 (1.2)	5 (0.14)	52 (3.4)	113 (0.97)
ANC32							
Expected Form: N	1891	1195	1052	2015	3389	1427	10969
Missing M NH06: n (%)	30 (1.6)	5 (0.42)	0 (0)	13 (0.65)	4 (0.12)	38 (2.7)	90 (0.82)
Missing M NH08: n (%)	30 (1.6)	5 (0.42)	3 (0.29)	28 (1.4)	4 (0.12)	38 (2.7)	108 (0.98)
ANC36							
Expected Form: N	1754	1077	913	1903	2850	1227	9724
Missing M NH06: n (%)	32 (1.8)	1 (0.09)	5 (0.55)	11 (0.58)	8 (0.28)	62 (5)	119 (1.2)
Missing M NH08: n (%)	32 (1.8)	2 (0.19)	8 (0.88)	19 (1)	8 (0.28)	62 (5)	131 (1.4)

Denominator for missing forms: Participants with form M NH06 or M NH08 or pass the late window and not close out within visit window. We expect M NH06 and M NH08 at enrollment once participants are enrolled.

Table 1. Form missingness by site

Part II. PNC visits	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
PNC0							
Expected Form: N	1707	1100	951	1711	3273	1335	10077
Missing MNH06: n (%)	13 (0.76)	18 (1.6)	2 (0.21)	18 (1.0)	13 (0.4)	47 (3.5)	111 (1.1)
Missing MNH08: n (%)	13 (0.76)	27 (2.4)	n/a	n/a	n/a	47 (3.5)	87 (2.1)
PNC1							
Expected Form: N	1689	1097	942	1701	3258	1327	10014
Missing MNH06: n (%)	20 (1.2)	23 (2.1)	1 (0.11)	20 (1.2)	11 (0.34)	38 (2.9)	113 (1.1)
Missing MNH08: n (%)	20 (1.2)	n/a	n/a	n/a	n/a	38 (2.9)	58 (1.9)
PNC4							
Expected Form: N	1629	1057	871	1617	3200	1294	9668
Missing MNH06: n (%)	18 (1.1)	20 (1.9)	2 (0.23)	18 (1.1)	14 (0.44)	55 (4.2)	127 (1.3)
Missing MNH08: n (%)	18 (1.1)	n/a	n/a	n/a	n/a	55 (4.2)	73 (2.5)
PNC6							
Expected Form: N	1562	987	799	1547	3098	1259	9252
Missing MNH06: n (%)	45 (2.9)	3 (0.3)	1 (0.13)	12 (0.78)	8 (0.26)	38 (3)	107 (1.2)
Missing MNH08: n (%)	45 (2.9)	4 (0.41)	53 (6.6)	20 (1.3)	26 (0.84)	38 (3)	186 (2)
PNC26							
Expected Form: N	1058	510	225	1141	2457	918	6309
Missing MNH06: n (%)	14 (1.3)	0 (0)	0 (0)	14 (1.2)	2 (0.08)	17 (1.8)	47 (0.74)
Missing MNH08: n (%)	14 (1.3)	n/a	n/a	n/a	n/a	17 (1.8)	31 (1.6)
PNC52							
Expected Form: N	630	65	0	670	1747	530	3642
Missing MNH06: n (%)	7 (1.1)	0 (0)	0 (-)	12 (1.8)	1 (0.06)	2 (0.38)	22 (0.6)
Missing MNH08: n (%)	7 (1.1)	n/a	n/a	n/a	n/a	2 (0.38)	9 (0.78)

Denominator for missing forms: Participants with form MNH06 or MNH08 or pass the late window and not close out within visit window

Note: n/a indicates forms are not expected at the visit. Total number excluded sites with n/a

For data collected as part of PRISMA Protocol Versions 1.8, MNH08 is expected at PNC-6 only. However, there are instances of MNH08 being completed at other PNC visits to record additional CBC collections and/or G6PD catch-up at sites. Following the implementation of PRISMA Protocol V.1.9 at sites, MNH08 is additionally expected at PNC-52 for women who tested positive for gestational diabetes during ANC.

2 Lab results missingness

2.1 Missingness at enrollment

Table 2. MNH06 lab result missingness by site - Enrollment

Part I. Point-of-Care Lab Tests	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC lab results							
Expected Lab Results from MNH06: N	2351	1604	1996	2296	4180	1693	14120
Missing POC Malaria: n (%)*	76 (3.2)	n/a	n/a	0 (0)	n/a	5 (0.3)	81 (1.3)
Missing POC HBV: n (%)*	743 (32)	47 (2.9)	232 (12)	18 (0.78)	1 (0.02)	97 (5.7)	1138 (8.1)
Missing POC HCV: n (%)*	758 (32)	48 (3)	227 (11)	18 (0.78)	5 (0.12)	48 (2.8)	1104 (7.8)
Missing POC HIV results							
Expected HIV Results: N	2351	1604	1996	1134	4180	1693	12958
Missing POC HIV: n (%)**	74 (3.1)	47 (2.9)	229 (11)	1 (0.09)	1 (0.02)	5 (0.3)	357 (2.8)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Same denominator as above except known HIV +ve as documented by MOH doesn't expect POC HIV results in Kenya

Note: Pakistan stopped Malaria test on 2024-05-01. Total number excluded Pakistan.

Note: CMC stopped Malaria test on 2024-06-13. Total number excluded CMC.

Note: SAS stopped Malaria test on 2024-05-31. Total number excluded SAS.

Table 2. Hemoglobin missingness by site - Enrollment

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in M NH06							
Expected POC HB from MNH06: N	2351	1604	1996	2296	4180	1693	14120
Missing POC HB: n (%)*	2351 (100)	1604 (100)	1996 (100)	0 (0)	71 (1.7)	1693 (100)	7715 (55)
Missing CBC HB Test Results in M NH08							
Expected CBC HB from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing CBC HB: n (%)**	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	397 (2.8)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing HB: n (%)***	127 (5.4)	3 (0.19)	225 (11)	0 (0)	0 (0)	39 (2.3)	394 (2.8)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 2. Syphilis lab test missingness by site - Enrollment

Part IV. Syphilis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH06: N	2351	1604	1996	2296	4180	1693	14120
Missing POC Syphilis: n (%)*	84 (3.6)	6 (0.37)	237 (12)	0 (0)	1 (0.02)	39 (2.3)	367 (2.6)
Expected Syphilis Titers Lab Test from MNH08: N	0	6	4	0	9	53	72
Missing Syphilis Titers Lab Test: n (%)**	0 (-)	0 (0)	0 (0)	0 (-)	0 (0)	0 (0)	0 (0)
Expected Syphilis Titers Highest Positive Dilution Results from MNH08: N	0	0	4	0	7	17	28
Missing Syphilis Titers Highest Positive Dilution Results: n (%)***	0 (-)	0 (-)	0 (0)	0 (-)	0 (0)	0 (0)	0 (0)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with a positive treponemal RDT, for whom the site has initiated a Syphilis titer test, and who have completed MNH08 either in person or by phone

***Denominator: Participants with positive non-treponemal antibody titer. This denominator will likely differ from the denominator used for "Expected Syphilis Titers Lab Test" as participants may have a positive RDT and then a negative non-treponemal antibody titer lab test

Note: Syphilis titer test start date for enrollment are: Ghana: 2024-04-09; CMC: 2023-07-18; SAS: 2024-03-11; Kenya: 2024-03-06; Pakistan: 2024-04-05; Zambia: 2023-11-09

Table 3. MNH08 lab result missingness by site - Enrollment

Part I. Blood Typing Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Blood Typing Results							
Missing Blood Group: n (%)*	402 (17)	1 (0.06)	225 (11)	6 (0.26)	19 (0.45)	92 (5.4)	745 (5.3)
Missing RH Factor: n (%)*	402 (17)	1 (0.06)	225 (11)	6 (0.26)	18 (0.43)	94 (5.6)	746 (5.3)

*Denominator: Participants with complete MNH08 in person or by phone

Table 3. MNH08 lab result missingness by site - Enrollment

Part II. CBC Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing CBC Results							
Missing Hematocrit (HCT): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	397 (2.8)
Missing White Blood Cells (WBC): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	40 (2.4)	398 (2.8)
Missing Neutrophils (%): n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	398 (2.8)
Missing Neutrophils (full cell count) : n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	n/a	40 (2.4)	396 (4)
Missing Lymphocyte (%): n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	3 (0.07)	41 (2.4)	400 (2.8)
Missing Lymphocyte (full cell count): n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	n/a	39 (2.3)	395 (4)
Missing Erythrocyte Count: n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	397 (2.8)
Missing Mean Cell Volume (MCV): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	397 (2.8)
Missing Mean Cell Hemoglobin (MCH): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	4 (0.1)	39 (2.3)	398 (2.8)
Missing Mean Corpuscular Hemoglobin Concentration (MCHC): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	397 (2.8)
Missing Platelets count: n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	15 (0.36)	40 (2.4)	410 (2.9)
Missing Monocyte (%): n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	3 (0.07)	39 (2.3)	398 (2.8)
Missing Monocyte (full cell count): n (%)*	127 (5.4)	4 (0.25)	225 (11)	0 (0)	n/a	40 (2.4)	396 (4)
Missing Eosinophils (%): n (%)*	144 (6.1)	4 (0.25)	225 (11)	0 (0)	3 (0.07)	40 (2.4)	416 (3)
Missing Eosinophils (full cell count): n (%)*	144 (6.1)	4 (0.25)	225 (11)	0 (0)	4180 (100)	40 (2.4)	4593 (33)
Missing Red Cell Width (%): n (%)*	127 (5.4)	3 (0.19)	225 (11)	0 (0)	6 (0.14)	39 (2.3)	400 (2.8)
Missing Platelet Distribution Width (PDW): n (%)*	164 (7)	5 (0.31)	n/a	0 (0)	n/a	153 (9.1)	322 (4.2)
Missing Plateletcrit (PCT) (%): n (%)*	164 (7)	5 (0.31)	n/a	131 (5.8)	n/a	153 (9.1)	453 (5.7)

*Denominator: Participants with complete MNH08 in person or by phone

Note: Neutrophils full cell count, lymphocytes full cell count, monocyte full cell count, plateletcrit, platelet distribution width are not performed at Pakistan. Total number excluded Pakistan.

Note: Plateletcrit, platelet distribution width are not performed at India-SAS. Total number excluded India-SAS.

Note: Kenya started platelet distribution width (PDW) testing after 2023-03-29.

Table 3. MNH08 lab result missingness by site - Enrollment

Part III. Liver and Kidney Function Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Liver Function Test (LFT) Results							
Missing AST/SGOT: n (%)*	364 (15)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	213 (13)	805 (5.7)
Missing ALT/SGPT: n (%)*	422 (18)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	215 (13)	865 (6.1)
Missing Alkaline Phosphatase (ALP): n (%)*	370 (16)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	214 (13)	812 (5.8)
Missing Total Bilirubin: n (%)*	366 (16)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	216 (13)	810 (5.8)
Missing Direct Bilirubin: n (%)*	470 (20)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	227 (13)	925 (6.6)
Missing Total Protein: n (%)*	436 (19)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	218 (13)	882 (6.3)
Missing Albumin: n (%)*	366 (16)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	214 (13)	808 (5.7)
Missing Gamma GT: n (%)*	351 (15)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	222 (13)	801 (5.7)
Missing Indirect Bilirubin: n (%)*	988 (42)	3 (0.19)	272 (14)	0 (0)	1 (0.02)	289 (17)	1553 (11)
Missing Kidney (Renal) Function Test Results							
Missing BUN: n (%)*	352 (15)	3 (0.19)	225 (11)	0 (0)	1 (0.02)	219 (13)	800 (5.7)
Missing Serum Creatinine: n (%)*	403 (17)	3 (0.19)	225 (11)	0 (0)	1 (0.02)	216 (13)	848 (6)
Missing Sodium: n (%)*	675 (29)	3 (0.19)	225 (11)	0 (0)	1 (0.02)	142 (8.4)	1046 (7.4)
Missing Potassium: n (%)*	675 (29)	3 (0.19)	245 (12)	0 (0)	1 (0.02)	146 (8.6)	1070 (7.6)
Missing Chloride: n (%)*	676 (29)	2 (0.13)	225 (11)	0 (0)	1 (0.02)	141 (8.3)	1045 (7.4)
Missing Phosphorus: n (%)*	407 (17)	3 (0.19)	226 (11)	0 (0)	3 (0.07)	442 (26)	1081 (7.7)
Missing Calcium: n (%)*	373 (16)	3 (0.19)	225 (11)	0 (0)	1 (0.02)	400 (24)	1002 (7.1)
Missing Carbon Dioxide: n (%)*	490 (21)	3 (0.19)	224 (18)	0 (0)	1 (0.02)	287 (17)	1005 (7.7)
Missing Magnesium: n (%)*	357 (15)	n/a	n/a	n/a	n/a	441 (26)	798 (20)

*Denominator: Participants with complete MNH08 in person or by phone

Note: Magnesium is optional. Not performed at India-CMC, India-SAS and Kenya. Pakistan stopped performing on 2023-11-17. Total number only included Ghana and Zambia

Kenya Note: started carbon dioxide testing on 2023-04-01.

SAS Note: started carbon dioxide testing on 2024-07-13.

Table 3. MNH08 lab result missingness by site - Enrollment

Part IV. Micronutrient Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Micronutrient Results							
Missing Serum Vitamin B12 (Total Cobalamin): n (%)*	1227 (52)	6 (0.38)	225 (11)	989 (43)	495 (12)	842 (50)	3784 (27)
Missing Serum Vitamin B12 (Holotranscobalamin II): n (%)*	523 (90)	11 (1.3)	0 (0)	1635 (100)	1799 (75)	346 (38)	9940 (71)
Missing Folate - Blood Serum: n (%)*	2351 (100)	1599 (100)	1994 (100)	2277 (100)	4180 (100)	1690 (100)	14091 (100)
Missing Ferritin: n (%)*	428 (18)	4 (0.25)	216 (11)	59 (2.6)	602 (14)	142 (8.4)	1451 (10)
Missing Iodine (Thyroglobulin or Tg): n (%)*	428 (18)	4 (0.25)	216 (11)	97 (4.3)	602 (14)	142 (8.4)	1489 (11)
Missing Serum Transferrin Receptor (sTfR): n (%)*	428 (18)	4 (0.25)	216 (11)	97 (4.3)	602 (14)	142 (8.4)	1489 (11)
Missing Retinol Protein Binding 4 (RPB4): n (%)*	428 (18)	4 (0.25)	216 (11)	97 (4.3)	602 (14)	142 (8.4)	1489 (11)
Missing C-reactive Protein (CRP): n (%)*	428 (18)	4 (0.25)	216 (11)	97 (4.3)	604 (14)	142 (8.4)	1491 (11)
Missing Alpha 1-acid Glycoprotein (AGP): n (%)*	428 (18)	4 (0.25)	216 (11)	97 (4.3)	602 (14)	142 (8.4)	1489 (11)
Missing Histidine-rich Protein 2 (HRP): n (%)*	428 (18)	4 (0.25)	218 (11)	60 (2.6)	607 (15)	142 (8.4)	1459 (10)

*Denominator: Participants with complete MNH08 in person or by phone

Note: holoTC stopped testing: 2024-09-01 (Ghana); 2024-10-15 (CMC); 2024-09-02 (SAS); 2025-01-14 (Kenya); 2024-10-03 (Pakistan); 2024-10-11 (Zambia)

Note: Vitamin B12 total cobalamin and holoTC results delay for Kenya and Zambia due to shipment to KHRC and not start with new kit for Pakistan as of 2024-11-18

Note: Folate results delay for Kenya and Pakistan due to shipment to KHRC

Pakistan note: Quansys is ongoing and plan to complete by end Jan 2025.

Table 3. MNH08 lab result missingness by site - Enrollment

Part V. Thyroid Panel Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Thyroid Panel Results							
Missing TSH: n (%)*	1215 (52)	311 (19)	217 (11)	2 (0.09)	708 (17)	113 (6.7)	2566 (18)
Missing Free T4: n (%)*	198 (34)	0 (0)	217 (11)	2 (0.12)	0 (0)	237 (26)	654 (7.8)
Missing Free T3: n (%)*	205 (35)	6 (0.7)	217 (11)	2 (0.12)	0 (0)	178 (20)	608 (7.3)

*Denominator: Participants with complete MNH08 in person or by phone

Note: thyroid testing stopped on 2024-09-01 (Ghana); 2024-10-17 (CMC); 2024-01-14 (Kenya); 2024-10-03 (Pakistan); 2014-10-11 (Zambia); ongoing (SAS).

Table 3. MNH08 lab result missingness by site - Enrollment

Part VI. Hemoglobin A1c (HbA1c) Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Hemoglobin A1c (HbA1c) Results							
Missing HbA1c: n (%)*	1209 (51)	n/a	n/a	n/a	n/a	241 (14)	1450 (36)
Missing HbA1c (%): n (%)*	674 (29)	4 (0.25)	229 (11)	41 (1.8)	0 (0)	240 (14)	1188 (8.4)

*Denominator: Participants with complete MNH08 in person or by phone

Note: India-CMC, India-SAS, Kenya and Pakistan only report %, no Discrete value expected. Total number excluded India-CMC, India-SAS, Kenya and Pakistan.

Table 3. M NH08 lab result missingness by site - Enrollment

Part VII. Red Blood Cell (RBC) Disorder Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing Red Blood Cell (RBC) Disorder Test Results							
Expected RBC Disorder Test Results from MNH08: N	1962	1599	1994	1887	2855	1689	11986
Missing Sickle Cell Disease: n (%)*	242 (12)	116 (7.2)	289 (14)	41 (2.2)	370 (13)	1689 (100)	2747 (23)
Missing Hemoglobinopathies & Thalassemias: (%)	243 (12)	117 (7.3)	302 (15)	41 (2.2)	368 (13)	1689 (100)	2760 (23)
Missing Hemoglobinopathies & Thalassemias Specified Results							
Expected Hemoglobinopathies & Thalassemias Results from MNH08: N	454	9	56	30	99	0	648
Missing SS: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing SC: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing SE: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing CC: n (%)**	2 (0.44)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	2 (0.31)
Missing SD-Punjab: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing S β thal: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing E β thal: n (%)**	2 (0.44)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	2 (0.31)
Missing C β thal: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing CD-PunjabED-punjab: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing D-D-Punjab: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing D-Punjab β thal: n (%)**	2 (0.44)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	2 (0.31)
Missing Thalassemia Major: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing Thalassemia Intermedia: n (%)**	1 (0.22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.15)
Missing Alpha Thalassemia: n (%)**	2 (0.44)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	2 (0.31)
Missing F: n (%)**	2 (0.44)	0 (0)	0 (0)	0 (0)	0 (0)	0 (-)	2 (0.31)
Missing SA: n (%)**	454 (100)	0 (0)	56 (100)	30 (100)	99 (100)	0 (-)	639 (99)
Missing Thalassemia Minor/Trait: n (%)**	454 (100)	0 (0)	56 (100)	30 (100)	99 (100)	0 (-)	639 (99)
Missing Thalassemia AC: n (%)**	454 (100)	0 (0)	56 (100)	30 (100)	99 (100)	0 (-)	639 (99)
Missing Other Hemoglobinopathy or Thalassemia: n (%)**	454 (100)	0 (0)	56 (100)	30 (100)	99 (100)	0 (-)	639 (99)

*Denominator: ReMAPP participants with complete MNH08 in person or by phone

**Denominator: ReMAPP participants with positive hemoglobinopathies & thalassemias results

Note: RBC disorder test are for ReMAPP primary cohort exclusively. All sites are using screen date start at/after ReMAPP launch date, except Pakistan is using lab test between ReMAPP launch date and test end date.

Zambia note: Thalassemias, sickle cell results delayed due to shipment to KHRC for testing

CMC note: Tests performed at any visit are included to account for the catch-up tests.

Note: Included data with SCRN_OBSSTDAT at/after: 2022-12-28 (Ghana); 2023-06-20(CMC); 2023-12-12(SAS); 2023-04-03(Kenya); 2022-12-15(Zambia); LBSTDAT between: 2022-09-22 (Pakistan). Each site please double check dates variable used and the exact dates.

Note: Testing stopped: 2024-10-29(Ghana); 2024-04-05(Pakistan).

Table 3. MNH08 lab result missingness by site - Enrollment

Part VIII. Urinalysis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Urinalysis Test Results							
Missing Protein: n (%)*	119 (5.1)	0 (0)	243 (12)	0 (0)	17 (0.41)	1 (0.06)	380 (2.7)
Missing Leukocytes: n (%)*	119 (5.1)	0 (0)	296 (15)	0 (0)	18 (0.43)	1 (0.06)	434 (3.1)
Missing Nitrites: n (%)*	119 (5.1)	0 (0)	233 (12)	1 (0.04)	19 (0.45)	1 (0.06)	373 (2.6)

*Denominator: Participants with complete MNH08 in person or by phone

Table 3. MNH08 tuberculosis (TB) test results missingness by site - Enrollment

Part IX. Tuberculosis (TB) Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Gene Xpert/MTB-RIF Culture: N	71	1	15	14	1	6	108
Missing Gene Xpert/MTB-RIF Culture: n (%)*	66 (93)	0 (0)	12 (80)	11 (79)	1 (100)	5 (83)	95 (88)
Expected Backup Gene Xpert/MTB-RIF Culture: N	0	0	0	1	0	1	2
Missing Backup Gene Xpert/MTB-RIF Culture: n (%)**	0 (-)	0 (-)	0 (-)	1 (100)	0 (-)	1 (100)	2 (100)

*Denominator: Participants with positive symptom screen on W4SS at visit and with complete MNH08 in person or by phone

**Denominator: Participants with positive Gene Xpert/MTB-RIF Culture results at visit

Table 3. MNH08 lab result missingness by site - Enrollment

Part X. Chlamydia and Gonorrhea Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	2351	1599	1994	2277	4180	1690	14091
Missing Chlamydia and Gonorrhea Test Results							
Missing Chlamydia: n (%)*	1754 (75)	1258 (79)	1007 (50)	1661 (73)	3563 (85)	1508 (89)	10751 (76)
Missing Gonorrhea: n (%)*	1754 (75)	1258 (79)	1007 (50)	1661 (73)	3562 (85)	1498 (89)	10740 (76)

*Denominator: Participants with complete MNH08 in person or by phone

Note: We do not expect CT/NG test results at this time for most sites, as the testing plans are to batch test in 2025.

Table 3. MNH08 lab result missingness by site - Enrollment

Part XI. ZCD,Leptospirosis and HEV IgM/IgG Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results							
Expected Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results from MNH08: N	971	894	781	0	935	610	4191
Missing ZIKV IgM Test Results: n (%)*	0 (0)	0 (0)	0 (0)	0 (-)	3 (0.32)	0 (0)	3 (0.07)
Missing ZIKV IgG Test Results : n (%)*	0 (0)	0 (0)	1 (0.13)	0 (-)	1 (0.11)	0 (0)	2 (0.05)
Missing DENV IgM Test Results: n (%)*	0 (0)	0 (0)	1 (0.13)	0 (-)	0 (0)	0 (0)	1 (0.02)
Missing DENV IgG Test Results: n (%)*	0 (0)	0 (0)	2 (0.26)	0 (-)	0 (0)	0 (0)	2 (0.05)
Missing CHKV IgM Test Results: n (%)*	0 (0)	0 (0)	0 (0)	0 (-)	0 (0)	0 (0)	0 (0)
Missing CHKV IgG Test Results: n (%)*	0 (0)	0 (0)	0 (0)	0 (-)	1 (0.11)	0 (0)	1 (0.02)
Missing Leptospirosis IgM Test Results							
Expected Leptospirosis IgM Test Results from MNH08: N	971	1000	781	0	241	606	3612
Missing Leptospirosis IgM Test Results: n (%)**	0 (0)	0 (0)	1 (0.13)	0 (-)	0 (0)	0 (0)	1 (0.02)
Missing Leptospirosis IgG Test Results							
Expected Leptospirosis IgG Test Results from MNH08: N	971	718	721	0	241	606	3257
Missing Leptospirosis IgG Test Results: n (%)***	0 (0)	0 (0)	0 (0)	0 (-)	0 (0)	0 (0)	0 (0)
Missing Hepatitis E IgM/IgG Test Results							
Expected Hepatitis E IgM/IgG Test Results from MNH08: N	971	1000	781	0	846	606	4218
Missing HEV IgM Test Results: n (%)****	0 (0)	0 (0)	0 (0)	0 (-)	80 (9.5)	0 (0)	83 (2)
Missing HEV IgG Test Results: n (%)****	0 (0)	24 (2.4)	353 (45)	0 (-)	0 (0)	0 (0)	391 (9.3)
*Denominator: Participants with testing date (ZCD_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone							
**Denominator: Participants with testing date (LEPT_IGM_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
***Denominator: Participants with testing date (LEPT_IGG_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
****Denominator: Participants with testing date (HEV_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
Note: We only expect 1000 participants per site. There will be no miss if the goal is reached							
Note: ZCD test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
Note: HEV test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
SAS Note: ZCD/HEV/Lepto testing ended on 2025-02-01							

Table 3. M NH08 lab result missingness by site - All visits

Part XII. G6PD Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected RBC Disorder Test Results from MNH08: N	1962	1599	1994	1972	2855	1689	12071
Missing Glucose-6-Phosphate Dehydrogenase (G6PD): n (%) [*]	168 (8.6)	32 (2)	226 (11)	222 (11)	895 (31)	322 (19)	1865 (15)

*Denominator: ReMAPP participants (after ReMAPP start date and before ReMAPP end date) with complete MNH08 in person or by phone

Note: Current missingness is showing if missing at all time points, including PNC and unschedule visits

Note: G6PD is for ReMAPP primary cohort exclusively.

Note: Included data with SCRN_OBSSTDAT at/after: 2022-12-28 (Ghana); 2023-06-20(CMC); 2023-12-12(SAS); 2023-04-03(Kenya); 2022-12-15(Zambia); LBSTDAT between: 2022-09-22 (Pakistan). Each site please double check dates variable used and the exact dates.

Note: Testing stopped: 2024-10-29(Ghana); 2024-04-05(Pakistan).

2.2 Missingness at ANC-20 visit

Table 2. Hemoglobin missingness by site - ANC20

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1563	1005	1462	1673	3211	1241	10155
Missing POC HB: n (%) [*]	1563 (100)	1005 (100)	1462 (100)	2 (0.12)	220 (6.8)	1233 (99)	5485 (54)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1560	1004	1457	1432	3174	1224	9851
Missing CBC HB: n (%) ^{**}	96 (6.2)	4 (0.4)	221 (15)	4 (0.28)	977 (31)	56 (4.6)	1358 (14)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1560	1004	1453	1668	3161	1224	10070
Missing HB: n (%) ^{***}	96 (6.2)	4 (0.4)	219 (15)	0 (0)	30 (0.95)	55 (4.5)	404 (4)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Pakistan note: CBC test stopped from April 2024.

Kenya note: CBC collected for ReMAPP only.

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 3. MNH08 lab result missingness by site - ANC20

Part II. CBC Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1392	1004	1457	1432	2352	1224	8861
Missing CBC Results							
Missing Hematocrit (HCT): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	55 (4.5)	911 (10)
Missing White Blood Cells (WBC): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	57 (4.7)	913 (10)
Missing Neutrophils (%): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	57 (4.7)	913 (10)
Missing Neutrophils (full cell count) : n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	n/a	56 (4.6)	756 (12)
Missing Lymphocyte (%): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	56 (4.6)	912 (10)
Missing Lymphocyte (full cell count): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	n/a	57 (4.7)	757 (12)
Missing Erythrocyte Count: n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	55 (4.5)	911 (10)
Missing Mean Cell Volume (MCV): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	55 (4.5)	911 (10)
Missing Mean Cell Hemoglobin (MCH): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	56 (4.6)	912 (10)
Missing Mean Corpuscular Hemoglobin Concentration (MCHC): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	55 (4.5)	911 (10)
Missing Platelets count: n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	167 (7.1)	57 (4.7)	924 (10)
Missing Monocyte (%): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	56 (4.6)	912 (10)
Missing Monocyte (full cell count): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	n/a	56 (4.6)	756 (12)
Missing Eosinophils (%): n (%)*	72 (5.2)	4 (0.4)	631 (43)	4 (0.28)	156 (6.6)	57 (4.7)	924 (10)
Missing Eosinophils (full cell count): n (%)*	72 (5.2)	4 (0.4)	631 (43)	4 (0.28)	2352 (100)	57 (4.7)	3120 (35)
Missing Red Cell Width (%): n (%)*	61 (4.4)	4 (0.4)	631 (43)	4 (0.28)	189 (8)	55 (4.5)	944 (11)
Missing Platelet Distribution Width (PDW): n (%)*	87 (6.2)	15 (1.5)	n/a	5 (0.35)	n/a	79 (6.4)	186 (3.7)
Missing Plateletcrit (PCT) (%): n (%)*	87 (6.2)	15 (1.5)	n/a	5 (0.35)	n/a	80 (6.5)	187 (3.7)

*Denominator: Participants with complete MNH08 in person or by phone

Pakistan note: Neutrophils full cell count, lymphocytes full cell count, monocyte full cell count, plateletcrit, platelet distribution width are not performed. Remaining CBC testing stopped from 2024-04-05

Ghana note: CBC testing stopped from 2024-10-29.

SAS Note: Plateletcrit, platelet distribution width are not performed at India-SAS. Post-enrollment CBC testing started on 2024-07-22.

Kenya Note: started platelet distribution width (PDW) testing after 2023-03-29.

Table 3. M NH08 lab result missingness by site - ANC20

Part VIII. Urinalysis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1560	1004	1457	1668	3174	1224	10087
Missing Urinalysis Test Results							
Missing Protein: n (%)*	59 (3.8)	0 (0)	226 (16)	0 (0)	11 (0.35)	9 (0.74)	305 (3)
Missing Leukocytes: n (%)*	59 (3.8)	0 (0)	245 (17)	1 (0.06)	12 (0.38)	9 (0.74)	326 (3.2)
Missing Nitrites: n (%)*	59 (3.8)	0 (0)	218 (15)	1 (0.06)	13 (0.41)	9 (0.74)	300 (3)

*Denominator: Participants with complete MNH08 in person or by phone

2.3 Missingness at ANC-28 visit

Table 2. Hemoglobin missingness by site - ANC28

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1721	1291	1116	1889	3129	1444	10590
Missing POC HB: n (%)*	1721 (100)	1291 (100)	1116 (100)	0 (0)	339 (11)	1417 (98)	5884 (56)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1720	1290	1072	1587	2931	1444	10044
Missing CBC HB: n (%)**	108 (6.3)	4 (0.31)	147 (14)	7 (0.44)	651 (22)	57 (4)	974 (9.7)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1720	1290	1070	1868	2904	1444	10296
Missing HB: n (%)***	108 (6.3)	4 (0.31)	146 (14)	0 (0)	1 (0.03)	55 (3.8)	314 (3)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Pakistan note: CBC test stopped from April 2024.

Kenya note: CBC collected for ReMAPP only.

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 2. Blood glucose missingness by site - ANC28

Part III. Blood Glucose Results (POC & OGTT)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC Blood Glucose Results							
Expected POC Blood Glucose Results from MNH06: N	1481	n/a	n/a	1881	n/a	1377	4739
Missing POC Blood Glucose: n (%)*	521 (35)	n/a	n/a	2 (0.11)	n/a	33 (2.4)	556 (12)
Missing fasting Oral Glucose Tolerance Results							
Expected Fasting Glucose Results from MNH08: N	1706	1258	1072	1860	2904	1377	10177
Missing Fasting Glucose: n (%)**	404 (24)	40 (3.2)	145 (14)	4 (0.22)	55 (1.9)	83 (6)	731 (7.2)
Missing Oral Glucose-tolerance (1-hour) Results							
Expected Oral Glucose-tolerance (1-hour) Results from MNH08: N	1706	1258	n/a	1860	2904	1377	9105
Missing Oral Glucose-tolerance (1-hour): n (%)**	408 (24)	40 (3.2)	n/a	6 (0.32)	56 (1.9)	82 (6)	592 (6.5)
Missing Oral Glucose-tolerance (2-hour) Results							
Expected Oral Glucose-tolerance (2-hour) Results from MNH08: N	1706	1258	1072	1860	2904	1377	10177
Missing Oral Glucose-tolerance (2-hour): n (%)**	424 (25)	40 (3.2)	146 (14)	5 (0.27)	56 (1.9)	86 (6.2)	757 (7.4)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

Note: POC blood glucose is not performed at CMC, SAS and Pakistan. Expected lab results from MNH06 and total number excluded CMC, SAS and Pakistan

Note: 1 Hour Oral Glucose-tolerance is not performed at India-SAS. Total number excluded India-SAS.

Note: Test completed at ANC32 or ANC36 or unscheduled visit on/after 26 gestational weeks are also included.

Ghana note: Poc glucose test between 2023-10-20 and 2024-04-08. Denominator removed this period.

Table 3. MNH08 lab result missingness by site - ANC28

Part II. CBC Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1625	1290	1072	1587	2284	1444	9302
Missing CBC Results							
Missing Hematocrit (HCT): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	57 (4)	606 (6.5)
Missing White Blood Cells (WBC): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	59 (4.1)	608 (6.5)
Missing Neutrophils (%): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	60 (4.2)	609 (6.5)
Missing Neutrophils (full cell count) : n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	n/a	60 (4.2)	605 (8.6)
Missing Lymphocyte (%): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	59 (4.1)	608 (6.5)
Missing Lymphocyte (full cell count): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	n/a	58 (4)	603 (8.6)
Missing Erythrocyte Count: n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	58 (4)	607 (6.5)
Missing Mean Cell Volume (MCV): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	58 (4)	607 (6.5)
Missing Mean Cell Hemoglobin (MCH): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	57 (4)	606 (6.5)
Missing Mean Corpuscular Hemoglobin Concentration (MCHC): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	57 (4)	606 (6.5)
Missing Platelets count: n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	8 (0.35)	58 (4)	611 (6.6)
Missing Monocyte (%): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	58 (4)	607 (6.5)
Missing Monocyte (full cell count): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	n/a	58 (4)	603 (8.6)
Missing Eosinophils (%): n (%)*	84 (5.2)	4 (0.31)	462 (43)	7 (0.44)	4 (0.18)	59 (4.1)	620 (6.7)
Missing Eosinophils (full cell count): n (%)*	84 (5.2)	4 (0.31)	462 (43)	7 (0.44)	2284 (100)	58 (4)	2899 (31)
Missing Red Cell Width (%): n (%)*	72 (4.4)	4 (0.31)	462 (43)	7 (0.44)	41 (1.8)	58 (4)	644 (6.9)
Missing Platelet Distribution Width (PDW): n (%)*	106 (6.5)	17 (1.3)	n/a	7 (0.44)	n/a	79 (5.5)	209 (3.5)
Missing Plateletcrit (PCT) (%): n (%)*	106 (6.5)	17 (1.3)	n/a	7 (0.44)	n/a	79 (5.5)	209 (3.5)

*Denominator: Participants with complete MNH08 in person or by phone

SAS Note: Plateletcrit, platelet distribution width are not performed at India-SAS. Post-enrollment CBC testing started on 2024-07-22.

Ghana note: CBC testing stopped from 2024-10-29.

Kenya note: CBC collected for ReMAPP only. Only expect CBC when SCRN_OBSSTDAT >= 2023-04-03.

Pakistan note: Neutrophils full cell count, lymphocytes full cell count, monocyte full cell count, plateletcrit, platelet distribution width are not performed. Remaining CBC testing stopped from 2024-04-05

Table 3. M NH08 lab result missingness by site - ANC28

Part VIII. Urinalysis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1720	1290	1072	1868	2931	1444	10325
Missing Urinalysis Test Results							
Missing Protein: n (%)*	73 (4.2)	0 (0)	155 (14)	0 (0)	23 (0.78)	6 (0.42)	257 (2.5)
Missing Leukocytes: n (%)*	72 (4.2)	0 (0)	155 (14)	1 (0.05)	24 (0.82)	6 (0.42)	258 (2.5)
Missing Nitrites: n (%)*	72 (4.2)	0 (0)	148 (14)	2 (0.11)	24 (0.82)	6 (0.42)	252 (2.4)

*Denominator: Participants with complete MNH08 in person or by phone

2.4 Missingness at ANC-32 visit

Table 2. Hemoglobin missingness by site - ANC32

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1392	1157	982	1794	2867	1337	9529
Missing POC HB: n (%)*	1392 (100)	1157 (100)	205 (21)	0 (0)	160 (5.6)	17 (1.3)	2931 (31)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1392	1156	974	1777	2787	1337	9423
Missing CBC HB: n (%)**	88 (6.3)	1 (0.09)	881 (90)	1677 (94)	7 (0.25)	1332 (100)	3986 (42)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1391	1156	968	1777	2772	1337	9401
Missing HB: n (%)***	88 (6.3)	1 (0.09)	119 (12)	0 (0)	0 (0)	14 (1.0)	222 (2.4)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 2. Syphilis lab test missingness by site - ANC32

Part IV. Syphilis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH06: N	1342	1153	972	1787	2855	1269	9378
Missing POC Syphilis: n (%)*	759 (57)	2 (0.17)	246 (25)	416 (23)	2224 (78)	48 (3.8)	3695 (39)
Expected Syphilis Titters Lab Test from MNH08: N	0	8	0	0	0	17	25
Missing Syphilis Titters Lab Test: n (%)**	0 (-)	0 (0)	0 (-)	0 (-)	0 (-)	0 (0)	0 (0)
Expected Syphilis Titters Highest Positive Dilution Results from MNH08: N	0	0	0	0	0	9	9
Missing Syphilis Titters Highest Positive Dilution Results: n (%)***	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0 (0)	0 (0)

*Denominator: Participants with negative treponemal RDT at enrollment and complete MNH06 in person or by phone at ANC32 visit

**Denominator: Participants with a positive treponemal RDT at enrollment or at ANC32 visit, for whom the site has initiated a Syphilis titer test for ANC32 visit, and who have completed MNH08 either in person or by phone.

***Denominator: Participants with positive non-treponemal antibody titer. This denominator will likely differ from the denominator used for "Expected Syphilis Titters Lab Test" as participants may have a positive RDT and then a negative non-treponemal antibody titer lab test

Note: Syphilis titer test start date for ANC32 are: Ghana: 2024-04-09; CMC: 2023-07-18; SAS: 2024-07-29; Kenya: 2024-03-06; Pakistan: 2024-10-24; Zambia: 2023-11-09

Note: Zambia is performing syphilis test on ANC28 instead of ANC32

Table 3. MNH08 lab result missingness by site - ANC32

Part III. Liver and Kidney Function Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	540	848	349	1633	2384	898	6652
Missing Liver Function Test (LFT) Results							
Missing AST/SGOT: n (%)*	28 (5.2)	1 (0.12)	0 (0)	0 (0)	0 (0)	116 (13)	145 (2.2)
Missing ALT/SGPT: n (%)*	37 (6.8)	1 (0.12)	0 (0)	0 (0)	0 (0)	119 (13)	157 (2.4)
Missing Alkaline Phosphatase (ALP): n (%)*	41 (7.6)	1 (0.12)	0 (0)	1 (0.06)	0 (0)	115 (13)	158 (2.4)
Missing Total Bilirubin: n (%)*	35 (6.5)	1 (0.12)	0 (0)	1 (0.06)	0 (0)	118 (13)	155 (2.3)
Missing Direct Bilirubin: n (%)*	47 (8.7)	1 (0.12)	0 (0)	0 (0)	0 (0)	130 (14)	178 (2.7)
Missing Total Protein: n (%)*	45 (8.3)	1 (0.12)	0 (0)	0 (0)	0 (0)	118 (13)	164 (2.5)
Missing Albumin: n (%)*	30 (5.6)	1 (0.12)	0 (0)	0 (0)	0 (0)	116 (13)	147 (2.2)
Missing Gamma GT: n (%)*	27 (5)	1 (0.12)	0 (0)	0 (0)	0 (0)	122 (14)	150 (2.2)
Missing Indirect Bilirubin: n (%)*	205 (38)	1 (0.12)	7 (2)	2 (0.12)	0 (0)	149 (17)	364 (5.5)
Missing Kidney (Renal) Function Test Results							
Missing BUN: n (%)*	29 (5.4)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	117 (13)	154 (2.3)
Missing Serum Creatinine: n (%)*	29 (5.4)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	117 (13)	154 (2.3)
Missing Sodium: n (%)*	51 (9.4)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	47 (5.2)	106 (1.6)
Missing Potassium: n (%)*	51 (9.4)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	48 (5.3)	107 (1.6)
Missing Chloride: n (%)*	52 (9.6)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	45 (5)	105 (1.6)
Missing Phosphorus: n (%)*	28 (5.2)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	232 (26)	268 (4)
Missing Calcium: n (%)*	27 (5)	1 (0.12)	0 (0)	7 (0.43)	0 (0)	208 (23)	243 (3.6)
Missing Carbon Dioxide: n (%)*	76 (14)	1 (0.12)	0 (0)	8 (0.5)	0 (0)	154 (17)	239 (3.7)
Missing Magnesium: n (%)*	27 (5)	n/a	n/a	n/a	n/a	239 (27)	266 (18)

*Denominator: Participants with complete MNH08 in person or by phone

Note: Magnesium is optional. Not performed at India-CMC, India-SAS and Kenya. Pakistan stopped performing on 2023-11-17. Total number only included Ghana and Zambia

Note: Kidney and Liver function testing stopped on 2024-10-01 (Ghana); 2024-10-16 (CMC); 2024-09-02 (SAS); 2025-01-15 (Kenya); 2024-10-03 (Pakistan); 2024-10-11 (Zambia).

Kenya Note: started carbon dioxide test on 2023-04-01.

SAS Note: started carbon dioxide testing on 2024-07-13.

Table 3. MNH08 lab result missingness by site - ANC32

Part IV. Micronutrient Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1392	1156	974	1777	2787	1337	9423
Missing Micronutrient Results							
Missing Serum Vitamin B12 (Total Cobalamin): n (%)*	722 (52)	4 (0.35)	225 (23)	669 (38)	239 (8.6)	1337 (100)	3196 (34)
Missing Serum Vitamin B12 (Holotranscobalamin II): n (%)*	399 (74)	592 (70)	0 (0)	1633 (100)	2302 (97)	898 (100)	8366 (89)
Missing Folate - Blood Serum: n (%)*	1392 (100)	1156 (100)	974 (100)	1777 (100)	2787 (100)	1337 (100)	9423 (100)
Missing Ferritin: n (%)*	176 (13)	1 (0.09)	119 (12)	64 (3.6)	457 (16)	229 (17)	1046 (11)
Missing Iodine (Thyroglobulin or Tg): n (%)*	176 (13)	1 (0.09)	119 (12)	100 (5.6)	457 (16)	229 (17)	1082 (11)
Missing Serum Transferrin Receptor (sTfR): n (%)*	176 (13)	1 (0.09)	119 (12)	100 (5.6)	457 (16)	229 (17)	1082 (11)
Missing Retinol Protein Binding 4 (RPB4): n (%)*	176 (13)	1 (0.09)	119 (12)	100 (5.6)	457 (16)	229 (17)	1082 (11)
Missing C-reactive Protein (CRP): n (%)*	176 (13)	1 (0.09)	119 (12)	100 (5.6)	457 (16)	229 (17)	1082 (11)
Missing Alpha 1-acid Glycoprotein (AGP): n (%)*	176 (13)	1 (0.09)	119 (12)	100 (5.6)	457 (16)	229 (17)	1082 (11)
Missing Histidine-rich Protein 2 (HRP): n (%)*	176 (13)	2 (0.17)	119 (12)	124 (7)	457 (16)	229 (17)	1107 (12)

*Denominator: Participants with complete MNH08 in person or by phone

Note: holoTC stopped testing: 2024-09-01 (Ghana); 2024-10-15 (CMC); 2024-09-02 (SAS); 2025-01-14 (Kenya); 2024-10-03 (Pakistan); 2024-10-11 (Zambia)

Note: Vitamin B12 total cobalamin and holoTC results delay for Kenya and Zambia due to shipment to KHRC and not start with new kit for Pakistan as of 2024-11-18

Note: Folate results delay for Kenya and Pakistan due to shipment to KHRC

Pakistan note: Quansys is ongoing and plan to complete by end Jan 2025.

Table 3. MNH08 lab result missingness by site - ANC32

Part V. Thyroid Panel Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing TSH Results							
Expected TSH Results from MNH08: N	1392	1156	974	1777	2787	1337	9423
Missing TSH: n (%)*	723 (52)	3 (0.26)	165 (17)	3 (0.17)	26 (0.93)	101 (7.5)	1021 (11)
Missing Free T3, Free T4 Results							
Expected Free T4, Free T3 Results from MNH08: N	544	853	974	1635	2473	908	7387
Missing Free T4: n (%)*	1 (0.18)	0 (0)	165 (17)	6 (0.37)	78 (3.1)	308 (34)	558 (7.5)
Missing Free T3: n (%)*	5 (0.92)	3 (0.35)	165 (17)	6 (0.37)	78 (3.1)	187 (21)	444 (6)

*Denominator: Participants with complete MNH08 in person or by phone

**Denominator: Participants who completed MNH08 either in person or by phone initially, but later only participants with abnormal TSH levels (< 0.3 mIU/L or > 4.0 mIU/L) at ANC32 after a specific date: 2024-09-01 (Ghana); 2024-10-14 (CMC); 2024-01-14 (Kenya); 2024-10-03 (Pakistan); 2014-10-11 (Zambia); ongoing (SAS).. Other sites please provide the date for change.

Table 3. MNH08 lab result missingness by site - ANC32

Part VIII. Urinalysis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N							
Expected Lab Results from MNH08: N	1392	1156	974	1777	2787	1337	9423
Missing Urinalysis Test Results							
Missing Protein: n (%)*	63 (4.5)	0 (0)	230 (24)	0 (0)	12 (0.43)	11 (0.82)	316 (3.4)
Missing Leukocytes: n (%)*	63 (4.5)	0 (0)	231 (24)	0 (0)	13 (0.47)	11 (0.82)	318 (3.4)
Missing Nitrites: n (%)*	63 (4.5)	0 (0)	223 (23)	0 (0)	13 (0.47)	12 (0.9)	311 (3.3)

*Denominator: Participants with complete MNH08 in person or by phone

Table 3. MNH08 tuberculosis (TB) test results missingness by site - ANC32

Part IX. Tuberculosis (TB) Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Gene Xpert/MTB-RIF Culture: N	22	2	1	10	2	1	38
Missing Gene Xpert/MTB-RIF Culture: n (%)*	22 (100)	0 (0)	1 (100)	7 (70)	2 (100)	1 (100)	33 (87)
Expected Backup Gene Xpert/MTB-RIF Culture: N	0	0	0	0	0	0	0
Missing Backup Gene Xpert/MTB-RIF Culture: n (%)**	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)	0 (-)

*Denominator: Participants with positive symptom screen on W4SS at visit and with complete MNH08 in person or by phone

**Denominator: Participants with positive Gene Xpert/MTB-RIF Culture results at visit

Table 3. MNH08 lab result missingness by site - ANC32

Part X. Chlamydia and Gonorrhea Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1392	1156	974	1777	2787	1337	9423
Missing Chlamydia and Gonorrhea Test Results							
Missing Chlamydia: n (%)*	1231 (88)	1156 (100)	525 (54)	1590 (89)	2578 (92)	1272 (95)	8352 (89)
Missing Gonorrhea: n (%)*	1231 (88)	1156 (100)	525 (54)	1590 (89)	2578 (92)	1274 (95)	8354 (89)

*Denominator: Participants with complete MNH08 in person or by phone

Note: We do not expect CT/NG test results at this time for most sites, as the testing plans are to batch test in 2025.

Table 3. MNH08 lab result missingness by site - ANC32

Part XI. ZCD, and Leptospirosis IgM/IgG Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results							
Expected Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results from MNH08: N	448	532	445	0	421	457	2303
Missing ZIKV IgM Test Results: n (%)*	226 (50)	54 (10)	111 (25)	0 (-)	28 (6.6)	85 (19)	504 (22)
Missing ZIKV IgG Test Results : n (%)*	226 (50)	54 (10)	111 (25)	0 (-)	28 (6.6)	85 (19)	504 (22)
Missing DENV IgM Test Results: n (%)*	226 (50)	54 (10)	111 (25)	0 (-)	28 (6.6)	87 (19)	506 (22)
Missing DENV IgG Test Results: n (%)*	226 (50)	54 (10)	111 (25)	0 (-)	27 (6.4)	85 (19)	503 (22)
Missing CHKV IgM Test Results: n (%)*	227 (51)	54 (10)	111 (25)	0 (-)	29 (6.9)	86 (19)	507 (22)
Missing CHKV IgG Test Results: n (%)*	227 (51)	54 (10)	111 (25)	0 (-)	27 (6.4)	88 (19)	507 (22)
Missing Leptospirosis IgM Test Results							
Expected Leptospirosis IgM Test Results from MNH08: N	448	639	445	0	183	454	2169
Missing Leptospirosis IgM Test Results: n (%)**	226 (50)	1 (0.19)	111 (25)	0 (-)	180 (43)	85 (19)	603 (26)
Missing Hepatitis E IgM Test Results							
Expected Hepatitis E IgM/IgG Test Results from MNH08: N	448	639	445	0	423	454	2409
Missing HEV IgM Test Results: n (%)***	226 (50)	1 (0.16)	111 (25)	0 (-)	119 (28)	85 (19)	542 (22)
*Denominator: Participants with testing date (ZCD_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone							
**Denominator: Participants with testing date (LEPT_IGM_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
***Denominator: Participants with testing date (HEV_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
Note: We only expect 1000 participants per site. There will be no miss if the goal is reached							
Note: ZCD test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
Note: HEV test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
SAS Note: ZCD/HEV/Lepto testing ended on 2025-02-01							

2.5 Missingness at ANC-36 visit

Table 2. Hemoglobin missingness by site - ANC36

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1357	1052	822	1635	2557	1165	8588
Missing POC HB: n (%)*	1357 (100)	1052 (100)	822 (100)	2 (0.12)	272 (11)	1132 (97)	4637 (54)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1357	1049	797	1363	2339	1165	8070
Missing CBC HB: n (%)**	104 (7.7)	5 (0.48)	170 (21)	3 (0.22)	779 (33)	66 (5.7)	1127 (14)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1357	1049	794	1624	2333	1165	8322
Missing HB: n (%)***	104 (7.7)	5 (0.48)	169 (21)	0 (0)	1 (0.04)	64 (5.5)	343 (4.1)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Pakistan note: CBC test stopped from April 2024.

Kenya note: CBC collected for ReMAPP only.

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 3. MNH08 lab result missingness by site - ANC36

Part II. CBC Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1350	1049	797	1363	1879	1165	7603
Missing CBC Results							
Missing Hematocrit (HCT): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing White Blood Cells (WBC): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Neutrophils (%): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Neutrophils (full cell count) : n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	n/a	66 (5.7)	458 (8)
Missing Lymphocyte (%): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Lymphocyte (full cell count): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	n/a	66 (5.7)	458 (8)
Missing Erythrocyte Count: n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Mean Cell Volume (MCV): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Mean Cell Hemoglobin (MCH): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Mean Corpuscular Hemoglobin Concentration (MCHC): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Platelets count: n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	369 (20)	67 (5.8)	828 (11)
Missing Monocyte (%): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	820 (11)
Missing Monocyte (full cell count): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	n/a	66 (5.7)	458 (8)
Missing Eosinophils (%): n (%)*	104 (7.7)	5 (0.48)	285 (36)	3 (0.22)	362 (19)	66 (5.7)	825 (11)
Missing Eosinophils (full cell count): n (%)*	104 (7.7)	5 (0.48)	285 (36)	3 (0.22)	1879 (100)	66 (5.7)	2342 (31)
Missing Red Cell Width (%): n (%)*	99 (7.3)	5 (0.48)	285 (36)	3 (0.22)	416 (22)	66 (5.7)	874 (12)
Missing Platelet Distribution Width (PDW): n (%)*	131 (9.7)	12 (1.1)	n/a	3 (0.22)	n/a	85 (7.3)	231 (4.7)
Missing Plateletcrit (PCT) (%): n (%)*	131 (9.7)	12 (1.1)	n/a	3 (0.22)	n/a	85 (7.3)	231 (4.7)

*Denominator: Participants with complete MNH08 in person or by phone

Pakistan note: Neutrophils full cell count, lymphocytes full cell count, monocyte full cell count, plateletcrit, platelet distribution width are not performed. Remaining CBC testing stopped from 2024-04-05.

SAS Note: Plateletcrit, platelet distribution width are not performed at India-SAS. Post-enrollment CBC testing started on 2024-07-22.

Ghana note: CBC testing stopped from 2024-10-29.

Kenya note: CBC collected for ReMAP only. Only expect CBC when SCRN_OBSSTDAT >= 2023-04-03.

Table 3. M NH08 lab result missingness by site - ANC36

Part VIII. Urinalysis Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1357	1049	797	1625	2339	1165	8332
Missing Urinalysis Test Results							
Missing Protein: n (%)*	69 (5.1)	2 (0.19)	152 (19)	3 (0.18)	17 (0.73)	2 (0.17)	245 (2.9)
Missing Leukocytes: n (%)*	69 (5.1)	2 (0.19)	152 (19)	3 (0.18)	17 (0.73)	2 (0.17)	245 (2.9)
Missing Nitrites: n (%)*	69 (5.1)	2 (0.19)	148 (19)	3 (0.18)	17 (0.73)	2 (0.17)	241 (2.9)

*Denominator: Participants with complete MNH08 in person or by phone

2.6 Missingness at IPC visit

- No lab required at delivery

2.7 Missingness at PNC-0 visit

Table 2. Hemoglobin missingness by site - PNC0

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1390	960	830	856	2162	1058	7256
Missing POC HB: n (%)*	1390 (100)	909 (95)	226 (27)	8 (0.93)	164 (7.6)	6 (0.57)	2703 (37)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1390	955	0	132	0	1058	3535
Missing CBC HB: n (%)**	207 (15)	57 (6)	0 (-)	131 (99)	0 (-)	1058 (100)	1453 (41)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1390	951	0	130	0	1058	3529
Missing HB: n (%)***	207 (15)	37 (3.9)	0 (-)	26 (20)	0 (-)	6 (0.57)	276 (7.8)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Showing missingness on/after the date v5.2 protocol of October 2023 was fully implemented (2024-03-01) for Kenya

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

2.8 Missingness at PNC-1 visit

Table 2. Hemoglobin missingness by site - PNC1

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1472	846	870	1522	2736	1011	8457
Missing POC HB: n (%)*	1472 (100)	17 (2)	226 (26)	2 (0.13)	147 (5.4)	5 (0.49)	1869 (22)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1472	4	0	118	0	1011	2605
Missing CBC HB: n (%)**	166 (11)	4 (100)	0 (-)	118 (100)	0 (-)	1011 (100)	1299 (50)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1472	4	0	116	0	1011	2603
Missing HB: n (%)***	166 (11)	0 (0)	0 (-)	0 (0)	0 (-)	5 (0.49)	171 (6.6)

*Denominator: Participants with complete M NH06 in person or by phone

**Denominator: Participants with complete M NH08 in person or by phone

***Denominator: Participants with both complete M NH06 and M NH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

2.9 Missingness at PNC-4 visit

Table 2. Hemoglobin missingness by site - PNC4

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1380	780	799	1441	2703	962	8065
Missing POC HB: n (%)*	1380 (100)	6 (0.77)	219 (27)	1 (0.07)	161 (6)	11 (1.1)	1778 (22)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1380	2	0	93	0	962	2437
Missing CBC HB: n (%)**	99 (7.2)	2 (100)	0 (-)	93 (100)	0 (-)	962 (100)	1156 (47)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1380	2	0	92	0	962	2436
Missing HB: n (%)***	99 (7.2)	0 (0)	0 (-)	0 (0)	0 (-)	11 (1.1)	110 (4.5)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

2.10 Missingness at PNC-6 visit

Table 2. Hemoglobin missingness by site - PNC6

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	1301	928	740	1425	2833	1063	8290
Missing POC HB: n (%)*	1301 (100)	927 (100)	123 (17)	0 (0)	40 (1.4)	945 (89)	3336 (40)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	1301	926	554	1148	1989	1063	6981
Missing CBC HB: n (%)**	105 (8.1)	7 (0.76)	287 (52)	5 (0.44)	11 (0.55)	60 (5.6)	475 (6.8)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	1301	926	531	1417	1959	1063	7197
Missing HB: n (%)***	105 (8.1)	6 (0.65)	57 (11)	0 (0)	0 (0)	54 (5.1)	222 (3.1)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Kenya note: CBC collected for ReMAPP only. Only expect CBC when SCRN_OBSSTDAT >= 2023-04-03.

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

Table 3. MNH08 lab result missingness by site - PNC6

Part II. CBC Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1299	926	554	1148	1684	1063	6674
Missing CBC Results							
Missing Hematocrit (HCT): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	59 (5.5)	467 (7)
Missing White Blood Cells (WBC): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	58 (5.5)	466 (7)
Missing Neutrophils (%): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	58 (5.5)	466 (7)
Missing Neutrophils (full cell count) : n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	n/a	59 (5.5)	467 (9.4)
Missing Lymphocyte (%): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	58 (5.5)	466 (7)
Missing Lymphocyte (full cell count): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	n/a	58 (5.5)	466 (9.3)
Missing Erythrocyte Count: n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	59 (5.5)	467 (7)
Missing Mean Cell Volume (MCV): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	59 (5.5)	467 (7)
Missing Mean Cell Hemoglobin (MCH): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	60 (5.6)	468 (7)
Missing Mean Corpuscular Hemoglobin Concentration (MCHC): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	59 (5.5)	467 (7)
Missing Platelets count: n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	3 (0.18)	59 (5.5)	470 (7)
Missing Monocyte (%): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	59 (5.5)	467 (7)
Missing Monocyte (full cell count): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	n/a	58 (5.5)	466 (9.3)
Missing Eosinophils (%): n (%)*	110 (8.5)	7 (0.76)	291 (53)	5 (0.44)	0 (0)	58 (5.5)	471 (7.1)
Missing Eosinophils (full cell count): n (%)*	110 (8.5)	7 (0.76)	291 (53)	5 (0.44)	1684 (100)	59 (5.5)	2156 (32)
Missing Red Cell Width (%): n (%)*	105 (8.1)	7 (0.76)	291 (53)	5 (0.44)	3 (0.18)	58 (5.5)	469 (7)
Missing Platelet Distribution Width (PDW): n (%)*	137 (11)	9 (0.97)	n/a	5 (0.44)	n/a	70 (6.6)	221 (5)
Missing Plateletcrit (PCT) (%): n (%)*	138 (11)	9 (0.97)	n/a	5 (0.44)	n/a	69 (6.5)	221 (5)

*Denominator: Participants with complete MNH08 in person or by phone

SAS Note: Plateletcrit, platelet distribution width are not performed at India-SAS. Post-enrollment CBC testing started on 2024-07-22.

Ghana note: CBC testing stopped from 2024-10-29.

Kenya note: CBC collected for ReMAPP only. Only expect CBC when SCRN_OBSSTDAT >= 2023-04-03.

Pakistan note: Neutrophils full cell count, lymphocytes full cell count, monocyte full cell count, plateletcrit, platelet distribution width are not performed. Remaining CBC testing stopped from 2024-04-05

Table 3. M NH08 lab result missingness by site - PNC6

Part IV. Micronutrient Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Expected Lab Results from MNH08: N	1301	926	554	1420	1989	1063	7253
Missing Micronutrient Results							
Missing Serum Vitamin B12 (Total Cobalamin): n (%)*	698 (54)	9 (0.97)	117 (21)	1376 (97)	250 (13)	1063 (100)	3513 (48)
Missing Serum Vitamin B12 (Holotranscobalamin II): n (%)*	945 (73)	817 (88)	510 (92)	1420 (100)	1989 (100)	1063 (100)	6744 (93)
Missing Folate - Blood Serum: n (%)*	1301 (100)	926 (100)	554 (100)	1420 (100)	1989 (100)	1063 (100)	7253 (100)
Missing Ferritin: n (%)*	172 (13)	12 (1.3)	114 (21)	147 (10)	307 (15)	591 (56)	1343 (19)
Missing Iodine (Thyroglobulin or Tg): n (%)*	172 (13)	12 (1.3)	114 (21)	165 (12)	307 (15)	591 (56)	1361 (19)
Missing Serum Transferrin Receptor (sTfR): n (%)*	172 (13)	12 (1.3)	114 (21)	165 (12)	307 (15)	591 (56)	1361 (19)
Missing Retinol Protein Binding 4 (RBP4): n (%)*	172 (13)	12 (1.3)	114 (21)	165 (12)	307 (15)	591 (56)	1361 (19)
Missing C-reactive Protein (CRP): n (%)*	172 (13)	12 (1.3)	114 (21)	165 (12)	307 (15)	591 (56)	1361 (19)
Missing Alpha 1-acid Glycoprotein (AGP): n (%)*	172 (13)	12 (1.3)	114 (21)	165 (12)	307 (15)	591 (56)	1361 (19)
Missing Histidine-rich Protein 2 (HRP): n (%)*	172 (13)	12 (1.3)	114 (21)	163 (11)	307 (15)	591 (56)	1359 (19)

*Denominator: Participants with complete MNH08 in person or by phone

Note: Vitamin B12 total cobalamin and holoTC results delay for Kenya and Zambia due to shipment to KHRC and not start with new kit for Pakistan as of 2024-11-18

Note: Folate results delay for Kenya and Pakistan due to shipment to KHRC

Pakistan note: Quansys is ongoing and plan to complete by end Jan 2025.

Table 3. M NH08 lab result missingness by site - PNC6

Part XI. ZCD, and Leptospirosis IgM/IgG Test Results	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results							
Expected Zika-Dengue-Chikungunya (ZCD) IgM/IgG Test Results from MNH08: N	254	319	207	0	203	257	1240
Missing ZIKV IgM Test Results: n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing ZIKV IgG Test Results : n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing DENV IgM Test Results: n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing DENV IgG Test Results: n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing CHKV IgM Test Results: n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing CHKV IgG Test Results: n (%)*	239 (94)	53 (17)	65 (31)	0 (-)	19 (9.4)	68 (26)	444 (36)
Missing Leptospirosis IgM Test Results							
Expected Leptospirosis IgM Test Results from MNH08: N	254	417	207	0	146	255	1279
Missing Leptospirosis IgM Test Results: n (%)**	239 (94)	8 (2.5)	66 (32)	0 (-)	146 (72)	67 (26)	526 (42)
Missing Hepatitis E IgM Test Results							
Expected Hepatitis E IgM/IgG Test Results from MNH08: N	254	417	207	0	204	255	1337
Missing HEV IgM Test Results: n (%)***	239 (94)	8 (1.9)	66 (32)	0 (-)	116 (57)	67 (26)	496 (37)
*Denominator: Participants with testing date (ZCD_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone							
**Denominator: Participants with testing date (LEPT_IGM_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
***Denominator: Participants with testing date (HEV_LBTSTDAT) on/after test start date at enrollment and with complete MNH08 in person or by phone.							
Note: We only expect 1000 participants per site. There will be no miss if the goal is reached							
Note: ZCD test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
Note: HEV test start dates are: Ghana: 2024-04-09; CMC: 2024-03-06; SAS: 2024-03-12; Kenya: 2024-03-06; Pakistan: 2024-04-08; Zambia: 2023-11-09							
SAS Note: ZCD/HEV/Lepto testing ended on 2025-02-01							

2.11 Missingness at PNC-26 visit

Table 2. Hemoglobin missingness by site - PNC26

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	907	471	215	1015	2296	680	5584
Missing POC HB: n (%)*	907 (100)	1 (0.21)	3 (1.4)	0 (0)	180 (7.8)	15 (2.2)	1106 (20)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	908	167	0	25	0	680	1780
Missing CBC HB: n (%)**	55 (6.1)	167 (100)	0 (-)	19 (76)	0 (-)	680 (100)	921 (52)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	907	167	0	25	0	680	1779
Missing HB: n (%)***	55 (6.1)	1 (0.6)	0 (-)	0 (0)	0 (-)	15 (2.2)	71 (4)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.

2.12 Missingness at PNC-52 visit

Table 2. Hemoglobin missingness by site - PNC52

Part II. Hemoglobin results (POC & CBC)	Site						Total
	Ghana	India-CMC	India-SAS	Kenya	Pakistan	Zambia	
Missing POC HB Test Results in MNH06							
Expected POC HB from MNH06: N	569	62	0	573	1588	402	3194
Missing POC HB: n (%)*	569 (100)	0 (0)	0 (-)	1 (0.17)	97 (6.1)	5 (1.2)	672 (21)
Missing CBC HB Test Results in MNH08							
Expected CBC HB from MNH08: N	569	12	0	45	29	402	1057
Missing CBC HB: n (%)**	40 (7)	12 (100)	0 (-)	45 (100)	29 (100)	402 (100)	528 (50)
Missing HB Test Results in MNH06 and MNH08							
Expected HB from MNH06 and MNH08: N	569	12	0	45	27	402	1055
Missing HB: n (%)***	40 (7)	0 (0)	0 (-)	0 (0)	1 (3.7)	5 (1.2)	46 (4.4)

*Denominator: Participants with complete MNH06 in person or by phone

**Denominator: Participants with complete MNH08 in person or by phone

***Denominator: Participants with both complete MNH06 and MNH08 in person or by phone

Note: Grey fonts indicate test not done/required by site. Please check if it's truly not required.